Panasonic

PC Programming Manual

Pure IP-PBX

Model No. KX-NCP500/KX-NCP1000
KX-TDE100/KX-TDE200/KX-TDE600

Thank you for purchasing a Panasonic Pure IP-PBX.
Please read this manual carefully before using this product and save this manual for future use.

KX-NCP500/KX-NCP1000: PBMPR Software File Version 7.0000 or later
KX-TDE100/KX-TDE200: PMMPR Software File Version 7.0000 or later
KX-TDE600: PGMPR Software File Version 7.0000 or later

Introduction

About this Programming Manual

The PC Programming Manual is designed to serve as a system programming reference for the Panasonic Pure IP-PBX. It explains how to programme this PBX using the Maintenance Console software.
The PC Programming Manual is divided into the following sections:

Section 1, Overview

Provides an overview of programming the PBX.

Section 2, Introduction of Maintenance Console

Explains the layout and menus of the Maintenance Console.

Sections 3 – 13, Maintenance Console Operating Instructions

Serves as reference operating instructions when using the Maintenance Console software to programme the PBX.

Section 14, Appendix

Provides a list of changes from the previous version of each model.

Feature Programming References

Provides a list of all related PC programming items for each feature.

References Found in the PC Programming Manual

Programming Manual References

Related sections of the PC Programming Manual are listed for your reference.

Feature Guide References

The Feature Guide explains what the PBX can do, as well as how to obtain the most of its many features and facilities. Sections from the Feature Guide are listed throughout this manual for your reference.

Installation Manual References

The Installation Manual provides instructions detailing the installation and maintenance of the PBX. Sections from the Installation Manual are listed throughout this manual for your reference.

Links to Other Pages and Manuals

If you are viewing this manual with a PC, certain items are linked to different sections of this and other PBX manuals. Click on a link to jump to that section.
Linked items include:

- Installation Manual References
- PC Programming Manual References
- Feature Guide References

Safety Notices

Please observe the safety notices in this manual in order to avoid danger to users or other people, and prevent damage to property.
The notices are classified as follows, according to the severity of injury or damage:

⚠ **WARNING**	This notice means that misuse could result in death or serious injury.
⚠ **CAUTION**	This notice means that misuse could result in injury or damage to property.

WARNING

Unplug the PBX from the AC outlet if it emits smoke, an abnormal smell or makes unusual noise. These conditions can cause fire or electric shock. Confirm that smoke has stopped and contact an authorised Panasonic Factory Service Centre.

CAUTION

Do not remove the SD Memory Card while power is supplied to the PBX. Doing so may cause the PBX to fail to start when you try to restart the system.

Notice

1. During a long programming session, it is highly recommended that you periodically save the system data to the SD Memory Card. If the PBX undergoes a sudden power failure or if the system is reset for some reason, all the system data in RAM will be lost. However, if system data has been saved to the SD Memory Card, it can be easily restored.
   To save the system data to the SD Memory Card, (1) click the **"SD Memory Backup"** icon before resetting the PBX or turning off the power, or (2) exit the Maintenance Console so that the PBX automatically saves the system data.
2. Maintenance Console cannot be used to program the PBX when the PBX is being powered by the backup batteries (for example, during a power cut). This is to prevent damage to the SD Memory Card that may occur if the backup battery power runs out while data is being written to the card.
3. The PC will not perform any shutdown operation, or enter the power-saving system standby mode while the Maintenance Console is connected to the PBX.
   To perform either of the operations above, first close the connection to the PBX.

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NOTES

- The contents of this manual apply to PBXs with a certain software version, as indicated on the cover of this manual. To confirm the software version of your PBX, see **How do I confirm the software version of the PBX or installed cards?** in **Maintenance Console Software** in **2.7.1 Frequently Asked Questions (FAQ)**.
- Some optional hardware, software, and features are not available in some countries/areas, or for some PBX models. Please consult your certified Panasonic dealer for more information.
- The PBX supports the Virtual 16-Channel SIP Trunk Card, and configuration of the card is done using the Maintenance Console. However, all of the related programming information is explained in the Programming Manual for Virtual SIP Trunk Card, and is therefore omitted from this manual.
- Product specifications, including text displayed by the software, are subject to change without notice.

In some cases, additional information, including updates to this and other manuals, is included in the Maintenance Console's **Information before programming**. Install the latest version of Maintenance Console to view this information.

- In this manual, the suffix of each model number (e.g., KX-NCP500**NE**) is omitted unless necessary.
- In this manual, KX-NT500 series mean KX-NT543, KX-NT546 and KX-NT560.

CE

The KX-NCP500UK/KX-NCP1000UK/KX-NCP500VUK/KX-NCP500XUK, KX-NCP500NE/KX-NCP1000NE/KX-NCP500VNE/KX-NCP500XNE, and KX-NCP500GR/KX-NCP1000GR are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access
- Pan-European Integrated Services Digital Network (ISDN) using ISDN primary rate access
- ONP 2048 kbit/s digital structured leased lines (D2048S)

The KX-TDE100UK/KX-TDE200UK, KX-TDE100NE/KX-TDE200NE, KX-TDE100GR/KX-TDE200GR, and KX-TDE100CE/KX-TDE200CE are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access
- Pan-European Integrated Services Digital Network (ISDN) using ISDN primary rate access
- ONP 2048 kbit/s digital structured leased lines (D2048S)

The KX-TDE600UK, KX-TDE600NE, and KX-TDE600GR are designed to interwork with the:

- Analogue Public Switched Telephone Network (PSTN) of European countries
- Pan-European Integrated Services Digital Network (ISDN) using ISDN basic rate access
- Pan-European Integrated Services Digital Network (ISDN) using ISDN primary rate access
- ONP 2048 kbit/s digital structured leased lines (D2048S)

Panasonic System Networks Co., Ltd. declares that the KX-NCP500UK/KX-NCP1000UK/KX-NCP500VUK/KX-NCP500XUK/KX-NCP500NE/KX-NCP1000NE/KX-NCP500VNE/KX-NCP500XNE/KX-NCP500GR/KX-NCP1000GR, KX-TDE100UK/KX-TDE200UK/KX-TDE100NE/KX-TDE200NE/KX-TDE100GR/KX-TDE200GR/KX-TDE100CE/KX-TDE200CE, and KX-TDE600UK/KX-TDE600NE/KX-TDE600GR are in compliance with the essential requirements and other relevant provisions of Radio & Telecommunications Terminal Equipment (R&TTE) Directive 1999/5/EC. Declarations of Conformity for the relevant Panasonic products described in this manual are available for download by visiting:

http://www.ptc.panasonic.eu

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Feature Programming References 1011

Section 1
Overview

This section provides an overview of programming the PBX.

1.1 Introduction

1.1.1 Introduction

These programming instructions are designed to serve as an overall system programming reference for the PBX. Each feature in the PBX has default settings that can be changed to customise the PBX to your requirements. These settings control the functions of the PBX, and changing them is referred to as "system programming".
Only one person can perform system programming at a time. Any other users trying to enter programming mode will be denied access.

Ways to Programme

There are two programming methods:

- **PC (Personal Computer) Programming**
  All features and settings of the PBX can be programmed through PC programming with Maintenance Console. Installing and starting the Maintenance Console is described in Section 1.2 PC Programming. Individual PC programming items are described in Section 2 Introduction of Maintenance Console.
- **PT (Proprietary Telephone) Programming**
  A subset of the features and settings of the PBX can be programmed using a PT. PT programming is described in the PT Programming Manual.

1.1.2 Entering Characters

The characters on a white background below can be used when storing a name, message, password or other text entry data using a PC. The available characters vary according to the model of PBX.

Table 1 (Standard)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
20	SP	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	/	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	DEL
80	€		‚	*ƒ*	„	…	†	‡	ˆ	‰	Š	≤	Œ		Ž	
90		‘	’	“	”	•	–	—	˜	™	š	≥	œ		ž	Ÿ
A0	NBSP	¡	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	SHY	®	¯
B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E0	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F0	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Table 2 (For CE model)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
20	SP	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	/	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	DEL
80	€		‚		„	…	†	‡		‰	Š	‹	Ś	Ť	Ž	Ź
90		‘	’	“	”	•	–	—		™	š	›	ś	ť	ž	ź
A0	NBSP	ˇ	˘	Ł	¤	Ą	¦	§	¨	©	Ş	«	¬	SHY	®	Ż
B0	°	±	˛	ł	´	µ	¶	·	¸	ą	ş	»	Ľ	˝	ľ	ż
C0	Ŕ	Á	Â	Ă	Ä	Ĺ	Ć	Ç	Č	É	Ę	Ë	Ě	Í	Î	Ď
D0	Đ	Ń	Ň	Ó	Ô	Ő	Ö	×	Ř	Ů	Ú	Ű	Ü	Ý	Ţ	ß
E0	ŕ	á	â	ă	ä	ĺ	ć	ç	č	é	ę	ë	ě	í	î	ď
F0	đ	ń	ň	ó	ô	ő	ö	÷	ř	ů	ú	ű	ü	ý	ţ	˙

Table 3 (For RU model)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
20	SP	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	/	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	DEL
80	Ђ	Ѓ	‚	ѓ	„	…	†	‡	€	‰	Љ	‹	Њ	Ќ	Ћ	Џ
90	ђ	‘	’	“	”	•	–	—	™	љ	›	њ	ќ	ћ	џ	
A0	NBSP	Ў	ў	Ј	¤	Ґ	¦	§	Ё	©	Є	«	¬	SHY	®	Ї
B0	°	±	І	і	ґ	µ	¶	·	ё	№	є	»	ј	Ѕ	ѕ	ї
C0	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
D0	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
E0	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
F0	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я

Table 4 (For GR model)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
20	SP	!	"	#	$	%	&	'	(	)	*	+	,	-	.	/
30	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
40	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
50	P	Q	R	S	T	U	V	W	X	Y	Z	[	/	]	^	_
60	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
70	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	DEL
80	€		,	*f*	„	…	†	‡		‰		‹				
90		‘	’	“	”	•	–	—		™		›				
A0	NBSP	¨	Ά	£	¤	¥	¦	§	¨	©		«	¬	SHY	®	―
B0	°	±	²	³	΄	µ	¶	·	Έ	Ή	Ί	»	Ό	½	Ύ	Ώ
C0	ΐ	A	B	Γ	Δ	E	Z	H	Θ	I	K	Λ	M	N	Ξ	O
D0	Π	P		Σ	T	Y	Φ	X	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
E0	ΰ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	µ	ν	ξ	ο
F0	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	

1.2 PC Programming

1.2.1 Installing and Starting the Maintenance Console

System programming, diagnosis and administration can be performed with a PC using the Maintenance Console.
This section describes how to install and start the Maintenance Console.

System Requirements

Required Operating System

- Microsoft® Windows® XP, Windows Vista® Business, Windows 7, Windows 7 Professional, Windows 8, or Windows 8 Professional operating system

Minimum Hardware Requirements

- HDD: 1 GB of available hard disk space
- The PC must fulfil the hardware requirements of the installed Microsoft Windows operating system.

Recommended Display Settings

- Screen resolution: XGA (1024 × 768)
- DPI setting: Normal size (96 DPI)

Installing the Maintenance Console

Note

- Make sure to install and use the latest version of the Maintenance Console.
- Before beginning the installation of the Maintenance Console, the following software must be installed on the PC:
  – Microsoft .NET Framework 2.0
  This software can be downloaded from Microsoft's online Download Center.
- To install or uninstall the software on a PC running Windows XP Professional, you must be logged in as a user in either the "Administrators" or "Power Users" group.
- To install or uninstall the software on a PC running Windows Vista Business or Windows 7 Professional, you must be logged in as a user in the "Administrators" group.

1. Copy the setup file of the Maintenance Console to your PC.
2. Double-click the setup file to run the installer.
3. Follow the on-screen instructions provided by the installation wizard.

Starting the Maintenance Console and Assigning the Basic Items (Quick Setup)

When you start the Maintenance Console with the Installer Level Programmer Code and connect to the PBX for the first time after initialisation (with the factory default setting), Quick Setup will launch automatically. During Quick Setup, you will set up the following basic items. For details about the basic items, refer to "2.3.4 Quick Setup" in the Feature Guide.

1. Connect the PC to the PBX with an Ethernet straight cable or RS-232C cross cable.
2. Start the Maintenance Console from the Start menu.
3. "Information before programming" appears.

a. Carefully read this important additional information, which includes updates to this and other manuals.
b. Click **OK** to close this window.

4. **a.** Enter the Installer Level Programmer Code (default: **INSTALLER**).

   Note

   There are 2 other Programmer Codes with limited authorisation: Administrator Level (default: **ADMIN**), and User Level (default: **USER**). (→ **1.2.2 Password Security**)

   b. Click **OK**.

5. Click **Connect**.

6. **a.** Select your PBX model from **PBX Model**.
   b. Select the **LAN** or **RS-232C** tab, depending on the type of PC connection with the PBX.
   c. Specify the settings as required. (See **2.1.1 Starting Maintenance Console and Software Modes**)

   Note

   When connecting to the PBX for the first time selecting **LAN**, the **IP Address** and **Port Number** must be set to **192.168.0.101** and **35300** respectively.

   d. Enter the system password for installer (default: **1234**).
   e. Click **Connect**.

7. **When country/area data do not match:**

   a. Click **OK** to replace the country/area data of the PBX. Replacement may take several minutes to complete.
   b. Follow the procedure described in "3.13.1 Starting the PBX" (for KX-NCP500/KX-NCP1000), "3.13.1 Starting the PBX" (for KX-TDE100/KX-TDE200), or "3.15.1 Starting the PBX" (for KX-TDE600) in the Installation Manual and restart the PBX.
   c. Repeat step **5** to reconnect the Maintenance Console to the PBX.

8. Follow the instructions of the Quick Setup wizard for the basic items in Quick Setup.

9. On the IP addressing information screen, the information for the MPR card can be assigned automatically through a DHCP server or entered manually.

   Note

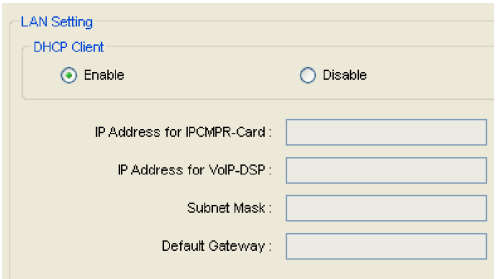
   If you change any information on this screen and click **Apply**, the PBX will need to be reset.

   When using a DHCP server:

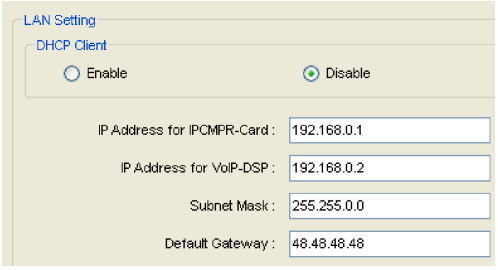
   a. Select **Enable** for the **DHCP Client** setting.
   b. Click **Apply**.

   Note

   The boxes will turn grey and the IP addresses will be assigned automatically after the PBX is reset.



When not using a DHCP server:



a. Select **Disable** for the **DHCP Client** setting.
b. For KX-NCP500/KX-NCP1000/KX-TDE100/ KX-TDE200, type the IP address of the MPR card in the **IP Address for IPCMPR Card** box. For KX-TDE600, type the IP address of the MPR card in the **IP Address for IPCEMPR Card** box.*1
c. In the **IP Address for VoIP-DSP** box, type the IP address of the DSP card.*2
d. In the **Subnet Mask** box, type the subnet mask address of the network.*3
e. In the **Default Gateway** box, type the IP address of the default gateway.*4
f. Click **Apply**.

After Quick Setup is completed, if the IP addressing information was not changed and a V-IPEXT card was installed during setup, the IP-PT registration screen is displayed. For information on registering IP-PTs to the PBX, see **3.15 [1-1] Slot—Port Property - Virtual IP Extension**.
You may now begin programming the PBX.

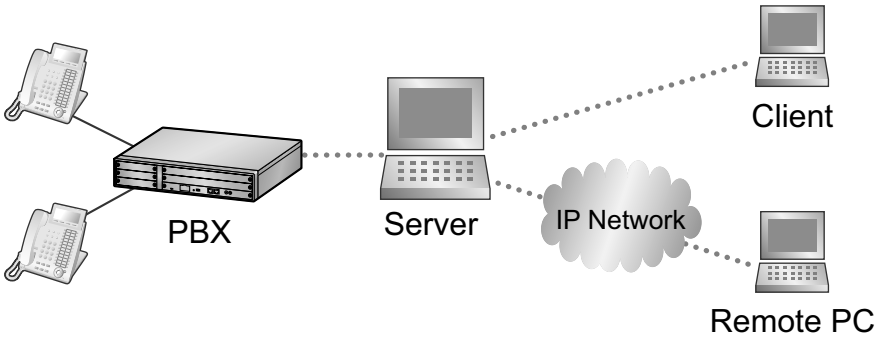
Notice

- Do not change the IP addresses of the MPR and DSP cards once IP telephones are registered to the PBX using these IP addresses.
  The IP telephones will not operate properly if these IP addresses are changed.
- A DHCP server must be able to use a "client identifier" option specified by RFC 2131.
- The PBX will not start properly if the IP addresses cannot be assigned automatically by the DHCP server when DHCP Client is set to Enable. In this case, you need to consult your network administrator because the DHCP server on your network may not be running or a network failure may have occurred. If the DHCP server is not available, change the DHCP Client setting to Disable and set fixed IP addresses, then restart the PBX.
  To change the DHCP Client setting, connect the PC with an RS-232C cross cable or Ethernet straight cable. When connecting the PC with an Ethernet straight cable, make sure the PBX is disconnected from the LAN and then connect the PC with an Ethernet straight cable using 192.168.0.101 for the IP address of the MPR card.

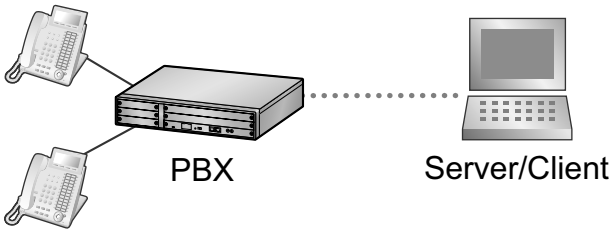
*1 Valid IP address range: "1.0.0.0" to "223.255.255.255"
*2 Valid IP address range: "1.0.0.0" to "223.255.255.255"
*3 Valid subnet mask address range: "0–255.0–255.0–255.0–255" (except 0.0.0.0 and 255.255.255.255)
*4 Valid IP address range: "0.0.0.0" to "223.255.255.255"

PBX Web Manager

It is possible to use a PC with the Maintenance Console (PBX Unified PC Maintenance Console) installed, as a Web server. This allows users to configure the PBX via a Web browser on a local client, or a remote PC through the Internet.



If Maintenance Console is installed on the client PC, a Web server is not necessary.



Accessing PBX Web Manager

PBX Web Manager can be enabled during the installation of the Maintenance Console. It can also be enabled in **Options**.

Note

- When starting the Maintenance Console, if there is less than 80 MB of available memory, this feature is automatically disabled.
- Only one user can access Maintenance Console or PBX Web Manager at any given time.

To start PBX Web Manager:

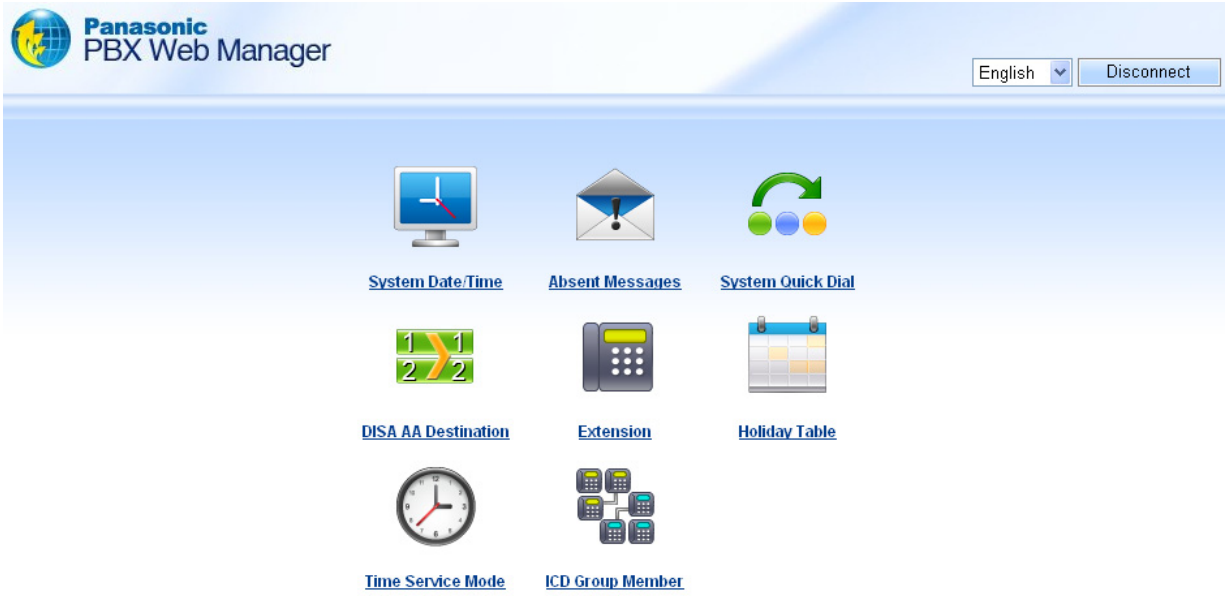
1. **If the PC is not the Web server:**
   Launch a Web browsing application and enter the following URL:
   "http://xxx:8181/INDEX.ASPX"
   'xxx' should be replaced with the server's IP address.

   If the PC is the Web server:
   Double-click the PBX Web Manager icon in the system tray( ).

2. At the login screen input the PBX's IP address, port, and password.
   Any profiles using LAN connection that have been saved when accessing the Maintenance Console directly will be automatically displayed, for easy access to your PBX.
3. Click **Connect**.

PBX Web Manager Main Menu

After successful login the main menu will appear where settings can be changed.



Note

While logged in, if there is no activity for approximately 10 minutes, PBX Web Manager will automatically disconnect.

1.2.2 Password Security

To maintain system security, system passwords are required to access certain programming functions of the PBX. By giving different users access to different passwords, it is possible to control the amount of programming that each user is able to perform.
The following types of system passwords are available:

Password	Description	Format
System Password for User	Used with the user-level programmer code to access user-level PC programming. The installer can specify which system programming settings are available.	4 – 10 characters
System Password for Administrator	Used with the administrator-level programmer code to access administrator-level PC programming. The installer can specify which system programming settings are available.	
System Password for Installer	Used with the installer-level programmer code to access installer-level PC programming. All system programming settings are available.	

The three programmer codes used for PC programming can be set through Maintenance Console. For more information about programmer codes, see **2.1.2 Access Levels**.

CAUTION

To the Administrator or Installer regarding the system password

1. Please provide all system passwords to the customer.
2. To avoid unauthorised access and possible abuse of the PBX, keep the passwords secret, and inform the customer of the importance of the passwords, and the possible dangers if they become known to others.
3. The PBX has default passwords preset. For security, change these passwords the first time that you programme the PBX.
4. Change the passwords periodically.
5. It is strongly recommended that passwords of 10 numbers or characters be used for maximum protection against unauthorised access. For a list of numbers and characters that can be used in system passwords, see **1.1.2 Entering Characters**.

Section 2

Introduction of Maintenance Console

This section serves as reference operating instructions when using the Maintenance Console software to programme the PBX.

2.1 Introduction

2.1.1 Starting Maintenance Console and Software Modes

Every time Maintenance Console is started, a dialogue box will appear. From here, you can enter any of the 2 available software modes.

- Batch mode
  Batch mode allows you to create new system data files, and make modifications to system data files stored on your PC, without being connected to the PBX. When you connect to the PBX, the modified data will be uploaded at one time.
- Interactive mode
  Interactive mode allows you to directly modify the system data and settings stored in the PBX's memory from a PC that is connected to the PBX. This mode displays the system data that is currently being used by the PBX, rather than the system data stored on the SD memory card. Data can be modified and results displayed in real time.

To start Maintenance Console in Batch mode

1. Enter the relevant programmer code.
2. Click **OK**.
   The programme launcher will appear.
3. Select an option.
   - Select **New** to create a new system data file.
   - Select **Open** to open an existing system data file.

To start Maintenance Console in Interactive mode

1. Enter the relevant programmer code.
2. Click **OK**.
   The programme launcher will appear.
3. Click **Connect**.
   Connection options will be displayed.
   - Select a **Profile Name** if you want to use a pre-saved profile. This option is only available when one or more profiles have been previously stored.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
        If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and select the method of connecting to the PBX.
     a. Specify the settings as required. For more details, see the tables below.
     b. Enter the system password for the PBX.
4. Click **Connect**.
   Maintenance Console will start, and automatically connect to the PBX. If this is the first time that Maintenance Console has connected to the PBX, and the date and time of the PBX have not yet been set, the Quick Setup wizard will run. For more details, see **Starting the Maintenance Console and Assigning the Basic Items (Quick Setup)**.

Connection Settings for RS-232C

Setting	Values	Explanation
Port	COMx	Specify the number of the COM port assigned to the PC's RS-232C interface. Only available COM ports are displayed.

Setting	Values	Explanation
Baud Rate (bps)	2400, 4800, 9600, 19200, 38400, 57600, 115200	Specify the speed of data transmission.

Connection Settings for Modem

Setting	Values	Explanation
Dial Number	1-9, 0, *, #, -, "," [comma], T, P, W	Enter the telephone number to be dialled to access the PBX. T: Converts the **Dial Type** from Pulse to Tone. "," [comma], P, W: Inserts a pause.
Dial Type	Auto(Tone), Auto(Pulse), Manual	Specify the outgoing dialling method. If **Manual** is chosen, dialling must be done with a connected telephone.
Comment	Max. 40 characters	Enter a comment to identify the set of values.
Port	COMx	Specify the number of the COM port assigned to the PC's modem interface. Only available COM ports will be displayed.
Baud Rate (bps)	1200, 2400, 4800, 9600, 19200, 38400	Specify the speed of data transmission.
Modem Initialise	–	Enter the modem initialise command, and click **Initialise** to send the command to the modem. For more details, refer to your modem's instruction manual.

Connection Settings for LAN

Setting	Values	Explanation
IP Address	1.0.0.0–223.255.255.255	Specify the IP address of the PBX on the LAN. Enter the same IP address that was input in **IP Address for IPCMPR Card** (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/**IP Address for IPCEMPR Card** (for KX-TDE600) of **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**. It is also possible to search for the IP address by clicking **Search**.
Port Number	1–65535	Specify the port number used to access the PBX via LAN. Enter the same port number that was input in **Maintenance Port Number** of **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**.

Connection Setting for ISDN Remote

Setting	Values	Explanation
Dial Number	30 digits (consisting of 1-9, 0, *, #, -, and "," [comma])	Enter the telephone number to be dialled to access the PBX.

2.1.2 Access Levels

There are three main levels of access to the Maintenance Console: User, Administrator and Installer. Each level has its own Programmer Code, which must be entered to run the Maintenance Console. The allowed format for each programmer code is as follows:

Item	Length
User Level Programmer Code	0 – 16 characters
Administrator Level Programmer Code	4 – 16 characters
Installer Level Programmer Code	4 – 16 characters

Access to menu options within the Maintenance Console is restricted depending on the Programmer Code, and the current software mode (see **2.1.1 Starting Maintenance Console and Software Modes**). When a menu option is limited to certain access levels, this is noted in this manual in the initial description of that menu option, for example:
"This option is only available at Installer level."
If a sentence like this does not appear under the heading, the menu option is available at all levels.

The target users for each access level are as follows:

Access Level	User
User	For end users
Administrator	For system administrators
Installer	For dealers and system installers

The options available in each mode and access level are shown below.
The access levels are abbreviated as follows:
U: User; A: Administrator; I: Installer
A check mark indicates that the menu option is available for that access level.

Programme launcher

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
New			✓			✓
Open	✓	✓	✓	✓	✓	✓
Connect—RS-232C	✓	✓	✓	✓	✓	✓
Connect—USB	✓	✓	✓	✓	✓	✓
Connect—LAN	✓	✓	✓	✓	✓	✓
Connect—Modem	✓	✓	✓	✓	✓	✓
Connect—ISDN Remote	✓	✓	✓	✓	✓	✓
Connect—Profile Setup	✓	✓	✓	✓	✓	✓

File

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Close	✓	✓	✓			
Save	✓	✓	✓			
Save As	✓	✓	✓			
Exit	✓	✓	✓	✓	✓	✓

Disconnect

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Disconnect				✓	✓	✓

Tool

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
SD memory backup				✓	✓	✓
BRI Automatic Configuration						✓
NDSS Link Data Clear						✓
DXDP All OUS						✓
Simplified Voice Message→Delete All Recording						✓
Simplified Voice Message→Check Current Usage						✓
Call Pickup for My Group			✓			✓
Extension List View	✓	✓	✓	✓	✓	✓
Import→Feature - Speed Dial and Caller ID	✓	✓	✓	✓	✓	✓
Import→Incoming Call - DDI/DID Table			✓			✓
Import→ARS - Leading Digit			✓			✓
Import→ARS - Except Code			✓			✓
Import→ARS - Routing Plan			✓			✓
Import→Wired Extension			✓			✓
Import→PS Extension			✓			✓
Import→Quick Dial (Basic)			✓			✓
Import→Quick Dial (Expansion)			✓			✓
Import→SIP Extension			✓			✓

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Import→V-IPGW16 GW Settings			✓			✓
Import→V-IPGW16 DN2IP			✓			✓
Export→Feature - Speed Dial and Caller ID	✓	✓	✓	✓	✓	✓
Export→Incoming Call - DDI/DID Table			✓			✓
Export→ARS - Leading Digit			✓			✓
Export→ARS - Except Code			✓			✓
Export→ARS - Routing Plan			✓			✓
Export→Wired Extension			✓			✓
Export→PS Extension			✓			✓
Export→Quick Dial (Basic)			✓			✓
Export→Quick Dial (Expansion)			✓			✓
Export→SIP Extension			✓			✓
Export→V-IPGW16 GW Settings			✓			✓
Export→V-IPGW16 DN2IP			✓			✓
Screen Customize→User Level			✓			✓
Screen Customize→Administrator Level			✓			✓

Utility

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Diagnosis				✓	✓	✓
File Transfer PC to PBX (SD Card)						✓
File Transfer PBX (SD Card) to PC						✓
SD Card File View and Load						✓
SD Card File Delete						✓
Message File Transfer PC to PBX						✓
Message File Transfer PBX to PC						✓
Error Log				✓	✓	✓
T1/E1 Signalling Bit Monitor						✓
T1/E1 Line Trace						✓
ISDN/QSIG Protocol Trace						✓
V-IPGW16 Protocol Trace						✓

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Digital Trunk Error Report						✓
IP Extension Statistical Information						✓
CS Information						✓
PS Information						✓
CS Status Monitor						✓
Ping						✓
File Transfer FTP to IP Equipment→IP-CS						✓
File Transfer FTP to IP Equipment→NT400/NT500						✓
File Transfer FTP to IP Equipment→NT3xx						✓
Software Timed Update→Card Software						✓
Software Timed Update→NT300						✓
System Reset→Reset by the Command						✓

View

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Toolbar	✓	✓	✓	✓	✓	✓
Statusbar	✓	✓	✓	✓	✓	✓
System Menu	✓	✓	✓	✓	✓	✓

Window

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Cascade	✓	✓	✓	✓	✓	✓
Tile(Horz)	✓	✓	✓	✓	✓	✓
Tile(Vert)	✓	✓	✓	✓	✓	✓

Help

Menu Option	Batch			Interactive		
	U	A	I	U	A	I
Help	✓	✓	✓	✓	✓	✓
Additional Information	✓	✓	✓	✓	✓	✓

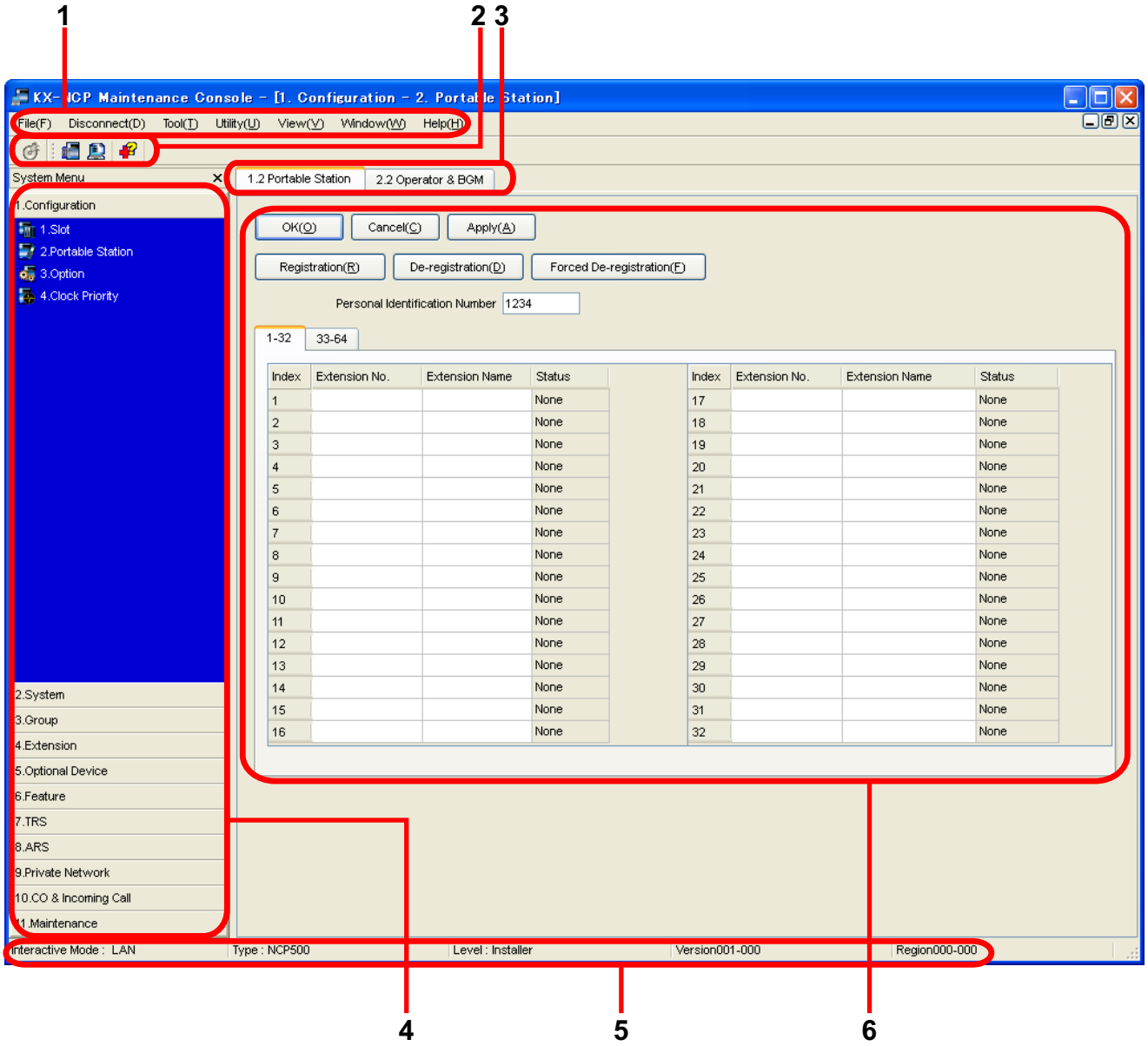
Menu Option	Batch			Interactive		
	U	A	I	U	A	I
About	✓	✓	✓	✓	✓	✓

2.1.3 Software Interface

This section explains the functions of the various elements of the software interface.

Main Window

The window of the Maintenance Console software is divided into several areas, as shown below:



1. **Menu Bar**
   Provides access to file management and connection options, as well as tools and utilities used in programming the PBX.
   For details, see Sections **2.3 File** to **2.7 Help**.
2. **Tool Bar**
   Provides easy access to commonly used software functions.
   Two tool bars are provided, as follows:

- **File**

  Contains the icon for saving files. For details, see Section **2.3.2 File—Save**.
- **Tools**

  Contains icons for backing up PBX data to the SD Memory Card, viewing extension information, and accessing Online Help. For details, see Sections **2.5.1 Tool—SD memory backup** and **2.5.8 Tool—Extension List View**.

These menus can be positioned freely. Click and drag the title bar of a menu to move it to another position. It will automatically snap in to position above, below, to the left, or to the right of the main window if released there. Otherwise, it will float separately from the main window.
Whether the tool bar is displayed or not can be chosen by selecting **Toolbar** from the **View** menu.

3. **Tab Bar**
   The name of each screen currently open is displayed in a tab in this tab bar. When multiple screens are open at the same time, click on the tab of a screen to display the options associated with that screen.
4. **System Menu**
   Provides access to the settings used for programming the PBX, grouped into 11 topics.
   For details, see **Section 3 [1] Configuration** to **Section 13 [11] Maintenance**.
   To display the individual screens within a topic, click the topic heading. It will expand to show the sub-topics.
   - If a sub-topic contains more than one screen, clicking the name of the sub-topic will display the names of individual screens. Clicking an expanded sub-topic will hide the names of individual screens.

   Double-click on a screen name to open that screen in **6. Main Screen** below.
   This menu can be positioned freely. Click and drag the title bar of the menu to move it to another position. It will automatically snap in to either the left side or right side of the main window if released there. Otherwise, it will float separately from the main window.
   Whether the system menu is displayed or not can be chosen by selecting **System Menu** from the **View** menu.
5. **Status Bar**
   The status bar displays information on the current state of the Maintenance Console.
   Whether the status bar is displayed or not can be chosen by selecting **Statusbar** from the **View** menu.

   The information displayed is as follows, in order from left to right:

Area	Values	Description
Programme Mode and Connection Type	Programme Mode: Batch Mode xxx Interactive Mode yyy Connection Type: RS-232C USB LAN Modem ISDN Remote	Displays the current programme mode and connection type. See **2.1.1 Starting Maintenance Console and Software Modes** above. "xxx" is replaced by the name of the current system data file. "yyy" is replaced by the name of the profile if used.
PBX Type	Type: NCP500/ NCP1000/TDE100/ TDE200/TDE600	Displays the type of PBX being programmed.
Access Level	Level: User Administrator Installer	Displays the current access level, determined by the Programmer Code entered when starting Maintenance Console. See **2.1.2 Access Levels** for more information.

Area	Values	Description
PBX System Data Version	Versionxxx-xxx	Displays the version number of the system software installed to the PBX. The first 3 digits are the version number, and the last 3 digits are the revision number.
PBX Region Code	Regionxxx-xxx	Displays the region code assigned to the PBX and Maintenance Console. The first 3 digits represent the region code assigned to the PBX, and the last 3 digits represent the region code assigned to the Maintenance Console.

6. **Main Screen**
   Displays the screens selected from **4. System Menu** above.
   For details, see **Section 3 [1] Configuration** to **Section 13 [11] Maintenance**.

Standard Buttons and Elements

There are several standard buttons that are displayed on many screens within the Maintenance Console.

The standard buttons are as follows:

Button	Function
OK	Implements changes and closes the current screen.
Cancel	Abandons changes and returns to the previous screen.
Close	Keeps any changes implemented, and closes the current screen.
Apply	Implements changes and remains on the same screen.
Refresh	Implements changes, updates displayed data, and remains on the current screen.
Help	Displays the relevant help topic for the current screen.

In addition, many screens within the software display a small open folder icon ( ) beside lists of setting items. Clicking this icon will collapse part of the list, allowing other items to be displayed. The icon will change to a closed folder ( ).
Clicking the closed folder icon will expand the list again.

2.1.4 Card Status

Certain tools, utilities and settings require that the target card be set to out-of-service (OUS) or in-service (INS) status before the operation is carried out. Where required, this is noted in the description of each item. Card status changes can only be performed when the software is in Interactive mode (see **2.1.1 Starting Maintenance Console and Software Modes**).

- "In service" means that the card is installed correctly in the PBX, and is capable of being used normally.
- "Out of service" means that the card is installed correctly in the PBX, but has been temporarily removed from use. This allows settings to be modified or software to be upgraded.
- "Fault" means that the card is not installed in the PBX correctly, or is not functioning correctly. For more information, see the Installation Manual.

For details about how to change the status of a card, see **To change the status (INS/OUS) of a card (Interactive mode only)** on screen **3.1 [1-1] Slot**.

2.1.5 Display Options

The View and Window menus provide options to control the display of items within the Maintenance Console.

- View
  - Toolbar: Displays or hides the tool bar of commonly used buttons.
  - Statusbar: Displays or hides the bar at the bottom of the Maintenance Console window.
  - System Menu: Displays or hides the menu of PBX setting screens.
- Window
  - Cascade: When multiple data screens are open, displays all open screens overlapped, with the title bars visible.
  - Tile(Horz): When multiple data screens are open, displays all open screens side by side.
  - Tile(Vert): When multiple data screens are open, displays all open screens vertically.

2.1.6 Extension Number Setting

Many screens within the Maintenance Console software allow you to select extensions as part of programming various features (for example, as members of a group). These screens use a standard window to make selecting multiple extensions easy, accessed by clicking a button. This section explains how to use this Extension Number Setting window.

To select multiple extension numbers, select the type of extension to display, highlight the extensions you wish to add, then click the **Add** button. When finished, click **OK**. Data for the selected extensions will be added to the first free spaces on the original screen.

◆ Extension Type

Selects the types of extension numbers to display in ◆ **Extension Numbers & Names List**. Multiple items can be selected. Items that are not available are shown with a grey checkbox.

Value Range

Wired Extension, Portable Station, VM Group(DPT), VM Group(DTMF), ICD Group, PS Ring Group, OGM(DISA), External Pager, Analogue MODEM, ISDN Remote

◆ Extension Numbers & Names List

Displays all available extensions of the types selected in ◆ **Extension Type**, and names. Click entries to select them, and click the **Add** button when finished, to add the selected extensions. To deselect an entry, click it again.

Value Range

Matching extensions

◆ Available Column

Specifies which fields in the original form to add extension data to. For example, if both extension numbers and names can be entered in the original form, it is possible to specify that extension name data not be transferred, by deselecting that field here.
To select or deselect a field, click its name.

Value Range

Available fields

◆ Selected Extension List

Displays the extensions that have been selected to be added to member data. To remove an extension from this list, click it to select it and click **Delete**.

Value Range

Selected extensions

2.2 Programme launcher

2.2.1 Programme launcher—New

Creates a new system data file, used to programme the PBX in Batch mode. All settings are in their initial or default state.
This option is only available at Installer level.
To upload the file created here to the SD memory card installed in the PBX, see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**.

Note

Since selecting this option creates a blank system data file, uploading this file to the PBX will overwrite all previous settings. Use only when necessary.

To create a new system data file

1. From the programme launcher, select **New**.
2. Click the appropriate model number.
3. Click **OK**.

2.2.2 Programme launcher—Open

Opens a system data file previously saved on the PC, and enters Batch mode.

When opening a file created with an older version of the Maintenance Console, you will be asked whether you want to convert the data for use with the current version or not. Using the data without converting may result in some data being loaded to an incorrect destination, and is not recommended.

If the file is not supported by the PBX (e.g. a system data file from an incompatible PBX), it will not be opened. The only files that can be opened are files that were created by the Maintenance Console for a supported PBX. To upload a file opened here to the SD memory card installed in the PBX, see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**.

To open a system data file

1. From the programme launcher, select **Open**.
   The Open dialogue box will be displayed.
2. Navigate to the folder containing the system data file you want to open.
3. Select the file.
4. Click **Open**.
   If the file was created with an older version of the Maintenance Console, you will be asked if you want to convert the data.
   - Click **Yes** to convert the data for use with the current version of the Maintenance Console. Enter a name for the new converted system file.
   - Click **No** to open the file as it is.

2.2.3 Programme launcher—Connect—RS-232C

Connects to the PBX in Interactive mode through the serial RS-232C interface of the PBX.
This option allows direct entry of connection parameters, for cases where the PC is used to connect to one or just a few PBXs, and an individual profile for each PBX is not necessary. If you connect to multiple PBXs and would prefer to choose from among pre-saved profiles instead, see **2.2.8 Programme launcher—Connect—Profile Setup** for more details about creating profiles.

To connect to the PBX by RS-232C

1. From the programme launcher, select **Connect**.
   The **Login** window will be displayed.
2. Select a connection option.
   - Select a **Profile Name** if you want to use a pre-saved profile. This option is only available when one or more profiles have been previously stored.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
        If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and confirm that the **RS-232C** radio button is selected.
     a. Specify the settings as required. For more details, see the table below.
     b. Enter the system password for the PBX.
3. Click **Connect**.

Connection Settings for RS-232C

Setting	Values	Explanation
Port	COMx	Specify the number of the COM port assigned to the PC's RS-232C interface. Only available COM ports are displayed.
Baud Rate (bps)	2400, 4800, 9600, 19200, 38400, 57600, 115200	Specify the speed of data transmission.

2.2.4 Programme launcher—Connect—USB

Connects to the PBX in Interactive mode through a USB port (USB Module) attached to the KX-DT300 series or KX-T7600 series DPT.

To connect to the PBX by USB

1. From the programme launcher, select **Connect**.
   The **Login** window will be displayed.
2. Select a connection option.
   - Select a **Profile Name** if you want to use a pre-saved profile.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
        If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and confirm that the **USB** radio button is selected.
     a. Enter the system password for the PBX.
3. Click **Connect**.

2.2.5 Programme launcher—Connect—LAN

Connects to the PBX in Interactive mode through the Local Area Network interface of the PBX.
This option allows direct entry of connection parameters, for cases where the PC is used to connect to one or just a few PBXs, and an individual profile for each PBX is not necessary. If you connect to multiple PBXs and would prefer to choose from among pre-saved profiles instead, see **2.2.8 Programme launcher—Connect—Profile Setup** for more details about creating profiles.

To connect to the PBX by LAN

1. From the programme launcher, select **Connect**.
   The **Login** window will be displayed.
2. Select a connection option.
   - Select a **Profile Name** if you want to use a pre-saved profile.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
     If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and confirm that the **LAN** radio button is selected.
     a. Specify the settings as required. For more details, see the table below.
     b. Enter the system password for the PBX.
3. Click **Connect**.

Connection Settings for LAN

Setting	Values	Explanation
IP Address	1.0.0.0–223.255.255.255	Specify the IP address of the PBX on the LAN. Enter the same IP address that was input in **IP Address for IPCMPR Card** (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/**IP Address for IPCEMPR Card** (for KX-TDE600) of **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**. It is also possible to search for the IP address by clicking **Search**.
Port Number	1–65535	Specify the port number used to access the PBX via LAN. Enter the same port number that was input in **Maintenance Port Number** of **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**.

2.2.6 Programme launcher—Connect—Modem

Connects to the PBX in Interactive mode through the modem.
To access the PBX remotely using this feature, an RMT card must be installed and the ◆ **Remote—Analogue Remote (Modem) Floating Extension Number** assigned in **13.1 [11-1] Main**.
This option allows direct entry of connection parameters, for cases where the PC is used to connect to one or just a few PBXs, and an individual profile for each PBX is not necessary. If you connect to multiple PBXs and would prefer to choose from among pre-saved profiles instead, see **2.2.8 Programme launcher—Connect—Profile Setup** for more details about creating profiles.

To connect to the PBX by Modem

1. From the programme launcher, select **Connect**.
   The **Login** window will be displayed.
2. Select a connection option.
   - Select a **Profile Name** if you want to use a pre-saved profile.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
        If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and confirm that the **Modem** radio button is selected.
     a. Specify the settings as required. For more details, see the table below.
     b. Enter the system password for the PBX.
3. Click **Connect**.

Connection Settings for Modem

Setting	Values	Description
Dial Number	1-9, 0, *, #, -, "," [comma], T, P, W	Enter the telephone number to be dialled to access the PBX. T: Converts the **Dial Type** from Pulse to Tone. "," [comma], P, W: Inserts a pause.
Dial Type	Auto(Tone), Auto(Pulse), Manual	Specify the outgoing dialling method. If **Manual** is chosen, dialling must be done with a connected telephone.
Comment	Max. 40 characters	Enter a comment to identify the set of values.
Port	COMx	Specify the number of the COM port assigned to the PC's modem interface. Only available COM ports will be displayed.
Baud Rate (bps)	1200, 2400, 4800, 9600, 19200, 38400	Specify the speed of data transmission.
Modem Initialise	–	Enter the modem initialise command, and click **Initialise** to send the command to the modem. For more details, refer to your modem's instruction manual.

2.2.7 Programme launcher—Connect—ISDN Remote

Connects to the PBX in Interactive mode using the ISDN TA interface of the PBX.
This method is only available when a user-supplied ISDN TA that supports CAPI 2.0 is used, and ◆ **Remote—ISDN Remote Floating Extension Number** of the **13.1 [11-1] Main** screen is set.
This option allows direct entry of connection parameters, for cases where the PC is used to connect to one or just a few PBXs, and an individual profile for each PBX is not necessary. If you connect to multiple PBXs and would prefer to choose from among pre-saved profiles instead, see **2.2.8 Programme launcher—Connect—Profile Setup** for more details about creating profiles.

To connect to the PBX by ISDN Remote

1. From the programme launcher, select **Connect**.
   The **Login** window will be displayed.
2. Select a connection option.
   - Select a **Profile Name** if you want to use a pre-saved profile.
     a. Select the profile to use from the drop-down list.
     b. If the system password for the PBX has not been stored with the profile, enter it.
        If the system password has been stored with the selected profile, it does not need to be entered.
   - To enter the parameters manually, select the **PBX Model** and confirm that the **ISDN Remote** radio button is selected.
     a. Specify the settings as required. For more details, see the table below.
     b. Enter the system password for the PBX.
3. Click **Connect**.

Connection Setting for ISDN Remote

Setting	Values	Explanation
Dial Number	30 digits (consisting of 1-9, 0, *, #, -, and "," [comma])	Enter the telephone number to be dialled to access the PBX.

2.2.8 Programme launcher—Connect—Profile Setup

Profiles are useful when one PC is used to connect to multiple PBXs. Rather than manually adjusting the connection settings each time a different PBX is accessed, it is possible to store the connection settings for several PBXs. Then, when you wish to connect to a specific PBX, you can simply choose that PBX's profile from the list.

Note

When reinstalling or upgrading the Maintenance Console, it is possible to create a backup of all profiles. This allows you to use the original connection settings with the new Maintenance Console.

The functions of the buttons on this screen are as follows:

Button	Function
Profile File	Opens or saves profiles as separate files.
Save current profile	Overwrites the previous settings with the current settings when a profile already exists. A confirmation message will be displayed.
Save as new profile	Saves the current settings as a new profile. A **Profile Name** is required.
Delete profile	When an existing profile is selected, deletes that profile. A confirmation message will be displayed.

2.3 File

2.3.1 File—Close

Closes the system data file that is currently being modified, and returns to the programme launcher.

To close a system data file

- From the **File** menu, select **Close**.
  If the system data file has not been saved, a warning message will be displayed, giving you the option to save the file.
  - Click **Yes** to save the file.
  - Click **No** to abandon the changes.

2.3.2 File—Save

Overwrites the previously saved system data file with the system data currently being modified in Batch mode. To upload a file saved here to the SD memory card installed in the PBX, see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**.

To save a system data file

- From the **File** menu, select **Save**.
  If the data has never been saved, the Save dialogue box will be displayed. For more details, see **2.3.3 File—Save As**.

2.3.3 File—Save As

Saves the system data file being modified in Batch mode with the name chosen by the user.
To upload a file saved here to the SD memory card installed in the PBX, see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**.

To save a system data file with a new name

1. From the **File** menu, select **Save As**.
2. Navigate to the folder in which you want to save the file.
3. Enter a file name, or select a file to overwrite.
4. Click **Save**.
   If choosing to overwrite another file, a warning message will be displayed.
   - Click **Yes** to overwrite.
   - Click **No** to return to the previous screen.

2.3.4 File—Exit

Closes the Maintenance Console.

To exit the Maintenance Console

- From the **File** menu, select **Exit**.
  If the system data file being modified has not been saved, a warning message will be displayed, giving you the option to save the file.
  - Click **Yes** to save the file.
  - Click **No** to abandon the changes.

2.4 Disconnect

2.4.1 Disconnect—Disconnect

Closes the connection between the Maintenance Console and the PBX. When this option is chosen, system data is automatically backed up from the PBX to the SD memory card (see **2.5.1 Tool—SD memory backup**).

To disconnect

1. From the **Disconnect** menu, select **Disconnect**.
   A confirmation message will be displayed.
2. Click **Yes**.

2.5 Tool

2.5.1 Tool—SD memory backup

Saves system data from the PBX to the SD memory card. Backup begins as soon as this option is chosen.

To back up system data

- From the **Tool** menu, select **SD memory backup**.

2.5.2 Tool—BRI Automatic Configuration

Automatically configures the network settings of the BRI card.
This option is only available at Installer level.
This tool automatically inputs values into the fields ◆ **L1 Mode**, ◆ **L2 Mode**, ◆ **Access Mode**, and ◆ **TEI Mode**, on the **Network** tab of the **3.33 [1-1] Slot—Port Property - BRI Port** screen.

Note

- Only one card can be configured at a time.
- To use this tool, the card to be configured must be pre-set to OUS status. For more details, see **2.1.4 Card Status**.
- At any time on this screen, you can click **Close** to return to the previous screen without saving.

To configure the BRI card

1. From the **Tool** menu, select **BRI Automatic Configuration**.
2. Select the BRI card to configure by clicking the **Check** cell and setting it to **ON**.
3. Click **OK**.
   The ports associated with the selected BRI card will be displayed on a new screen.
4. Enter suitable Subscriber Numbers for the ports you want to configure.
   Only ports whose Subscriber Numbers have been entered will be configured.
5. Click **Execute**.
   The results of configuration will be displayed.
6. Click the **Check Box** cell for the ports that have been configured.
7. Click **Data Apply** to save these results to the BRI card.

2.5.3 Tool—NDSS Link Data Clear

Clears NDSS Link Data stored in the connected PBX. While this tool clears both monitor extension and monitored extension data, it only clears it at the connected PBX. To clear this data at other PBXs in the network, it is necessary to run this tool at those PBXs.

To clear the NDSS Link Data

- From the **Tool** menu, select **NDSS Link Data Clear**.
  A confirmation screen will be displayed.
  - Click **OK** to clear the data.
  - Click **Cancel** to keep the data, and close the screen.

2.5.4 Tool—DXDP All OUS

Sets the status of all DXDP/XDP extension ports to "OUS" simultaneously.

To set all DXDP/XDP ports to OUS.

1. From the **Tool** menu, select **DXDP All OUS**.
2. Click **OK**.

2.5.5 Tool—Simplified Voice Message—Delete All Recording

Deletes all voice messages recorded by the SVM feature.

To delete voice messages

1. From the **Tool** menu, point to **Simplified Voice Message** and select **Delete All Recording**.
2. Select the card from which to delete messages.
3. Click **OK**.

2.5.6 Tool—Simplified Voice Message—Check Current Usage

Displays information on the voice messages stored by the SVM feature. For each message, the type of message and the associated extension are displayed.

To view SVM message status

- From the **Tool** menu, point to **Simplified Voice Message** and select **Check Current Usage**.

2.5.7 Tool—Call Pickup for My Group

Allows you to automatically configure settings in **4.10 [2-6-2] Numbering Plan—Quick Dial** and **6.4 [4-1-3] Wired Extension—Speed Dial** so that users can answer calls to their Call Pickup Group by pressing "✳0".

To activate this tool

- From the **Tool** menu, select **Call Pickup for My Group**.
  The Group Call Pickup feature number (default: ✳40) + the extension user group number of the extension is assigned to first personal speed dial.

Note

This tool can only be activated if all of the following conditions are met:

- The first Quick Dial setting is empty or is already set to "✳0".
- "✳0" is not used for another feature number.
- The Group Call Pickup feature number has been assigned.
- The Personal Speed Dialling feature number has been assigned.

2.5.8 Tool—Extension List View

Displays a list of all programmed extension numbers and types. It is possible to sort the information according to Extension Number, Type, Extension Name, Shelf, Slot, or Port. There is also a key-word searching feature.

The types that can be displayed are as follows:

Type	Detail
Intercom	Wired Extension
VM	Voice Mail
Portable Station	Wireless Extension (Portable Station)
ICDG	Incoming Call Distribution Group
WG	PS Ring Group
VM (DPT)	VM (DPT) Group
VM (DTMF)	VM (DTMF) Group
Pager	External Pager
MODEM	Analogue Modem
ISDN Remote	ISDN Modem
OGM (DISA)	DISA
DSS	DSS Console
DPT-I/F CS	PT-interface CS
SVM	SVM Feature
SIP/IP-PT	IP Telephone

To view extension information

- From the **Tool** menu, select **Extension List View**.

2.5.9 Tool—Import

Allows several types of system data files or tables to be imported.
Except for Speed Dial and Caller ID, this option is only available at Installer level.
The files from which data can be imported are files that were previously saved at this or another PBX using the Export tool (see **2.5.10 Tool—Export**), or comma-separated value (CSV) files. Unsupported file types cannot be opened.
For all tables except **ARS - Routing Plan**, it is possible to edit the CSV file directly using an appropriate editor, before importing.

The types of data that can be imported using this tool, and the matching destination fields, are as follows:

Feature - Speed Dial and Caller ID

Data Type	Import Destination
System Speed Dialling Number	Location
Name	Name
CO Line Access Number + Telephone Number	Dial
CLI Destination	CLI Destination

Related programming: **8.1 [6-1] System Speed Dial**

Incoming Call - DDI/DID Table

Data Type	Import Destination
Location	Location
DDI/DID Number	Dial In Number
DDI/DID Name	Dial In Name
DDI/DID Destination-Day	Destination-Day
DDI/DID Destination-Lunch	Destination-Lunch
DDI/DID Destination-Break	Destination-Break
DDI/DID Destination-Night	Destination-Night
Tenant Number	Tenant Number
VM Trunk Group No.	Group Number for VPS answer
CLI Ring for DDI/DID-Day	CLI Ring - Day
CLI Ring for DDI/DID-Lunch	CLI Ring - Lunch
CLI Ring for DDI/DID-Break	CLI Ring - Break
CLI Ring for DDI/DID-Night	CLI Ring - Night

Related programming: **12.3 [10-3] DDI / DID Table**

ARS - Leading Digit

Data Type	Import Destination
No.	Location
Leading Number	Leading Digit
Additional Number of Digits	Additional Dial Digits
Routing Plan Number	Route Plan Number

Related programming: **10.2 [8-2] Leading Number**

ARS - Except Code

Data Type	Import Destination
No.	Location
Leading Number Exception	Exception Code

Related programming: **10.7 [8-6] Leading Number Exception**

ARS - Routing Plan

Data Type	Import Destination
(no fields to select)	(no fields to select)

Related programming: **10.3 [8-3] Routing Plan Time**

Wired Extension

Data Type	Import Destination
No.	Location (selected automatically)
Extension Number	Extension Number (selected automatically)
Extension Name	Extension Name (selected automatically)

Related programming: **6.1 [4-1-1] Wired Extension—Extension Settings**

PS Extension

Data Type	Import Destination
No.	Location (selected automatically)
Extension Number*1	Extension Number (selected automatically)
Extension Name	Extension Name (selected automatically)

*1 This data can only be exported, and cannot be imported.

Related programming: **6.10 [4-2-1] Portable Station—Extension Settings**

Quick Dial (Basic)

Data Type	Import Destination
No.	Location
Dial	Dial
Phone Number	Phone Number

Related programming: **4.10 [2-6-2] Numbering Plan—Quick Dial**

Quick Dial (Expansion)

Data Type	Import Destination
No.	Location
Dial	Dial
Phone Number	Phone Number

Related programming: **4.10 [2-6-2] Numbering Plan—Quick Dial**

SIP Extension

Data Type	Import Destination
No.	Location
Extension Number	Extension Number
Password	Password

Related programming: **3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port**

V-IPGW16 GW Settings

Data Type	Import Destination
No.	Location
GW Name	GW Name
GW IP Address	GW IP Address
GW Group	GW Group No.
Connection for IP-GW16	Connection for IP-GW16
Protocol	Protocol
Progress Tone Send Mode	Progress Tone Send Mode
IP Codec Priority 1st	IP Codec Priority 1st
IP Codec Priority 2nd	IP Codec Priority 2nd
IP Codec Priority 3rd	IP Codec Priority 3rd
Packet Sampling Time (G.711A)	Packet Sampling Time (G.711A)
Packet Sampling Time (G.711Mu)	Packet Sampling Time (G.711Mu)

Data Type	Import Destination
Packet Sampling Time (G.729A)	Packet Sampling Time (G.729A)
Voice Activity Detection for G.711	Voice Activity Detection for G.711
FAX Detection Ability	FAX Detection Ability
DTMF	DTMF
Payload Type	Payload Type

Related programming: **3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings**

V-IPGW16 DN2IP

Data Type	Import Destination
No.	Location
Leading Number	Leading Number
Remaining Number of Digits	Remaining Number of Digits
GW No./GW Group Selection	GW No./GW Group Selection
GW Group	GW Group
GW No.	GW No.

Related programming: **3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP**

To import system data

1. From the **Tool** menu, point to **Import**, and then click the type of data to import.
2. Navigate to the folder containing the system data file you want to open.
3. Select the file.
4. Click **Open** to open the file.
   If applicable, a list of field names found in the imported file will be displayed.
5. For the **Feature - Speed Dial and Caller ID** table, select the Speed Dial table to which to import the data (system or tenant) from the drop-down list.
6. If required, select import fields.
   When import fields can be selected, the selection screen is displayed automatically. Matching origin and destination fields are entered by default.
   - To change the destination for an import field, select the preferred field from the drop-down list.
   - To not import a field, select the blank option from the drop-down list.
7. Click **OK** to perform the import operation.
   Depending on the type of data imported, the relevant programming screen may be displayed.
   - Click **OK** or **Apply** to complete the import operation.

   If data in a field being imported does not match the required format for the import destination, an error message will be displayed when the import operation is attempted, and the operation will be cancelled. This can occur when, for example, the destination field can only accept numeric data, but the data being imported contains alphabet characters, as the correct fields were not linked together.

2.5.10 Tool—Export

Allows several types of system data to be exported to files. These files can be used with the Import tool (see **2.5.9 Tool—Import**) to update another PBX.
Except for **ARS - Routing Plan**, tables are exported as comma-separated value (CSV) files.
Except for Speed Dial and Caller ID, this option is only available at Installer level.

Note

The separator used in CSV files created using the Export tool is decided by the unit specified in List Separator, in the Windows Regional Options Control Panel.

To export system data

1. From the **Tool** menu, point to **Export**, and then click the type of data to export.
2. Navigate to the folder in which you want to save the file.
3. Enter a file name.
4. Click **Save**.
   - When export fields are automatically selected, the file will be saved.
   - When export fields can be selected, the selection screen will be displayed automatically.
5. For the **Feature - Speed Dial and Caller ID** table, select the Speed Dial table from which to export the data (system or tenant) from the drop-down list.
   A list of field names that can be exported will be displayed.
6. Click the check box beside the name of each field that you want to export.
7. Click **OK**.

2.5.11 Tool—Screen Customize—User Level/Administrator Level

Allows you to specify which menu screens, tools and utilities can be accessed in User and Administrator levels. This option is only available at Installer level.
Selected check boxes will be displayed on the main screen of the Maintenance Console and in the menu bar to users with the level of access being edited.

To modify displayed screens

1. From the **Tool** menu, point to **Screen Customize**, and then click the access level to modify.
2. Select the items that you want to have displayed.
   - Clear the check box beside the names of items you do not want to have displayed.
   - Select the check box beside the names of items you want to have displayed.
3. Click **OK**.

2.6 Utility

2.6.1 Utility—Diagnosis

Performs diagnostic tests on cards installed in the PBX, to identify the source of problems.
If any of the tests listed here returns the result "NG" ("No Good"), contact your dealer. Test results can be saved as a TXT-format (text) file.
When testing is complete, any cards that were set to OUS status must be returned to INS status if they are to be used again.

Card Test

Tests the relevant functions of a card to ensure that it is operating correctly. The tests carried out vary according to the type of card being tested.

The tests that are performed on each card are as follows:

Test Type	Available Cards
Local loop back diagnosis	DHLC, DLC, SLC8, SLC16, MSLC16, ESLC16, EMSLC16, CSLC16, MCSLC16, ECSLC24, MCSLC24, EMSLC24, CSIF, LCOT, ELCOT, T1, E1, BRI, PRI, OPB, E&M, DID, IP-EXT
Card CT Bus diagnosis (KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200 only)	DHLC, DLC, SLC8, SLC16, MSLC16, CSLC16, CSIF, LCOT, T1, E1, BRI, PRI, OPB, E&M, DID, IP-EXT
DTMF Receive test port	DHLC, SLC8, SLC16, MSLC16, MCSLC16, ESLC16, EMSLC16, CSLC16, ECSLC24, MCSLC24, EMSLC24, E&M, DID
PT loop back diagnosis	DHLC, DLC
DSP DTMF generator/receiver diagnosis	T1, E1
DSP DTMF receiver diagnosis	T1, E1
Framer IC alarm signal detection diagnosis	T1, E1, PRI
Framer IC error detection diagnosis	T1, E1, PRI
CS-INF loop back diagnosis (KX-TDE series only)	CSIF
Super frame synchronization diagnosis (KX-TDE series only)	CSIF
Caller ID card loop back diagnosis	LCOT, ELCOT
Extension mode setting test	BRI
IP-GW H.323 call simulate diagnosis (KX-TDE series only)	IP-GW4, IP-GW16
LAN loop back diagnosis (KX-TDE series only)	IP-GW4

To perform a card test

1. From the **Utility** menu, select **Diagnosis**.
2. Click on the **Status** cell of the card to be tested, and set it to "OUS".
3. Click on the cell showing the card type.
   A new window will be displayed.
4. Select the **Card Test** option.
   A new window will be displayed.
5. Click **Test** to perform the test(s).
   The error report will be displayed. When all tests are completed, the words "Test End!" will be shown on the last line of the output.
6. Select an option:
   - Click **Capture** if you want to save the displayed information.
     1. Enter a file name, or select a file to overwrite.
     2. Click **Save**.
   - Click **Cancel** to return to the Diagnosis screen.

Pair Port Test (KX-TDE series only)

Tests the combination of an extension port and trunk port to ensure that communication with the trunk port can be carried out successfully.
The pair port test can be carried out using one LCOT or ELCOT card and one DHLC, SLC8, SLC16, MSLC16, ESLC16, EMSLC16, CSLC16, ECSLC24, or EMSLC24 card.

Note

With the KX-TDE600, the pair of cards to be used for the pair port tests must be installed within the same shelf.

The tests that are performed are as follows:

Line current OFF (Ext->CO)	Line current from extension to trunk turns off.
Line current ON (Ext->CO)	Line current from extension to trunk turns on.
Off hook detection (CO->Ext)	Off-hook generation/detection from trunk to extension
DTMF detection (CO->Ext)	DTMF generation/detection from trunk to extension
DP detection (CO->Ext)	DP generation/detection from trunk to extension
BELL detection (Ext->CO)	BELL generation/detection from extension to trunk
Speech path (Ext->CO)	Speech path from extension to trunk
Speech path (CO->Ext)	Speech path from trunk to extension

To perform a pair port test

1. From the **Utility** menu, select **Diagnosis**.
2. Click on the **Status** cell of the extension card to be tested, and set it to "OUS".
3. Click on the cell showing the card type.
   A new window will be displayed.
4. Select the **Pair Port Test** option.
   A new window will be displayed. The card you selected in Step 3 will be shown in the **Extension Line Slot No.** drop-down list.
5. From the **CO Line Slot No.** drop-down list, select the slot number of the trunk card you want to test.

6. From the **CO Line Port No.** drop-down list, select the port number of the trunk you want to test.
7. Click **Test**.
   The error report will be displayed.
8. Select an option:
   - Click **Capture** if you want to save the displayed information.
     1. Enter a file name, or select a file to overwrite.
     2. Click **Save**.
   - Click **Cancel** to return to the Diagnosis screen.

Network Loopback Test

Performs a remote loopback test on the PRI23 card.

Note

- To perform this test, it is necessary to set ◆ **Loopback Test started by Network** in **3.35 [1-1] Slot—Port Property - PRI Port** to "Enable".
- The version of the PRI23 card must be 2.000 or later.

To perform a network loopback test

1. From the **Utility** menu, select **Diagnosis**.
2. Click on the **Status** cell of the PRI23 card, and set it to "OUS".
3. Click on the cell showing the card type.
   A new window will be displayed.
4. Select the **Loopback Type** option.
   A new window will be displayed.
5. Select **Point1** or **Point2** depending on the type of loopback test you want to perform
   The available selections may vary depending on the hardware version of the card.
6. Click **Apply**.
   Preparation for the test is complete. The test will start automatically.
7. After the test is complete, select **Release** and click **Apply**.
8. Click **Close** to return to the Diagnosis screen.

2.6.2 Utility—File Transfer PC to PBX (SD Card)

Copies PBX system files (programme files, data files and activation key files) from the connected PC to the SD memory card installed in the PBX. Pre-existing files on the SD memory card are overwritten.
This option is only available at Installer level.

The following types of files can be copied using this tool:

- Programme files: These contain the programmes used to operate cards within the PBX and CSs, acting as on-board drivers.
- Data files: These contain the initial configuration data for individual cards and settings.
- Activation Key files: These contain the activation keys used to enable the use of IP trunks and IP telephones through Virtual VoIP cards and upgrade the software.

Not all files that are copied using this tool are automatically made active. To install new programme files, main system data, or activation key for software upgrade to the PBX, use the System Reset—Reset by the Command utility (see **2.6.22 Utility—System Reset—Reset by the Command**) for PBMPR/PMMPR/PGMPR, DBSYS/DMSYS/DGSYS, and LIC files. Use the Activation Key button (see **3.3 [1-1] Slot—Activation Key**) for other LIC files, and the SD Card File View and Load utility (see **2.6.4 Utility—SD Card File View and Load**) for all other files.

The PBX examines the header information of a file to determine 2 things: whether the file contains supported data, and which system component the file applies to.
Only files whose header information matches that of a system file supported by the PBX can be transferred. Attempting to transfer any other type of file results in an error message.

The names of all files that can be stored on the SD memory card are as follows:

Main Programme

KX-NCP500/KX-NCP1000

Name on SD Memory Card	Corresponding Card
PBMPR	IPCMPR
PBMPR_S	IPCMPR*1

*1 PBMPR-file-format data that is transferred to the PBX from the PC is saved as "PBMPR_S".

KX-TDE100/KX-TDE200

Name on SD Memory Card	Corresponding Card
PMMPR	IPCMPR
PMMPR_S	IPCMPR*1

*1 PMMPR-file-format data that is transferred to the PBX from the PC is saved as "PMMPR_S".

KX-TDE600

Name on SD Memory Card	Corresponding Card
PGMPR	IPCEMPR
PGMPR_S	IPCEMPR*1

*1 PGMPR-file-format data that is transferred to the PBX from the PC is saved as "PGMPR_S".

LPR Programme

Name on SD Memory Card	Corresponding Card
PCSINF	CSIF
PDHLC	DHLC8, DLC8, DLC16
PSLC	SLC8, SLC16
PCSLC	CSLC16
PEESLC	MCSLC16, MCSLC24
PT1	T1
PE1	E1
PEM	E&M
PBRI	BRI
PIPGWH	IP-GW4
PIPGW16	IP-GW16
PPRI23	PRI23
PPRI30	PRI30
POPB3	OPB
PDID	DID8
PIPEXT	IP-EXT16
PVOIPEX	IP-EXT16
PESLC	ESLC16, EMSLC16
PEESLC	ECSLC24, EMSLC24
PELCOT	ELCOT
PEECHO	EECHO
PBUSS	BUS-S

CS Programme

Name on SD Memory Card	Corresponding Unit
PCSDECT	CS using a CSIF card for DECT Portable Station
PDCSDECT	CS using a DHLC/DLC card for DECT Portable Station
PHCSDECT	High-density CS for DECT Portable Station
PCS24G	CS using a CSIF card for 2.4 GHz Portable Station
PDCS24G	CS using a DHLC/DLC card for 2.4 GHz Portable Station

System Data

KX-NCP500/KX-NCP1000

Name on SD Memory Card	Corresponding Card
DBSYS	IPCMPR
DBSYS_S	IPCMPR*1

*1 DBSYS-file-format data that is transferred to the PBX is saved as "DBSYS_S".

KX-TDE100/KX-TDE200

Name on SD Memory Card	Corresponding Card
DMSYS	IPCMPR
DMSYS_S	IPCMPR*1

*1 DMSYS-file-format data that is transferred to the PBX is saved as "DMSYS_S".

KX-TDE600

Name on SD Memory Card	Corresponding Card
DGSYS	IPCEMPR
DGSYS_S	IPCEMPR*1

*1 DGSYS-file-format data that is transferred to the PBX from the PC is saved as "DGSYS_S".

Language Data

Name on SD Memory Card	Corresponding Unit
DLNG0–DLNG5	PT
DVMLNG1–DVMLNG5	VPS (Display Guidance data)

Activation Key

Name on SD Memory Card	Corresponding Card
LIC00–LIC99	V-IPEXT32, V-SIPEXT32, V-IPGW16, V-SIPGW16

Default Value Data

KX-NCP500/KX-NCP1000

Name on SD Memory Card	Corresponding Card
DBINI	IPCMPR
DBIDHLC	DHLC4
DBISLC	SLC8

Name on SD Memory Card	Corresponding Card
DBIDLC	DLC8/DLC16
DBIBRI	BRI
DBILCOT	LCOT4
DBIT1	T1
DBIE1	E1
DBIOPB3	OPB3
DBIEIO	EIO
DBIPRI23	PRI23
DBIPRI30	PRI30
DBISLCLC	SLC16
DBIVIPGW	V-IPGW16
DBIVSPGW	V-SIPGW16
DBIVIPEX	V-IPEXT32
DBIVSPEX	V-SIPEXT32

KX-TDE100/KX-TDE200

Name on SD Memory Card	Corresponding Card
DMINI	IPCMPR
DMIDHLC	DHLC8
DMISLC	SLC8/CSLC16
DMISLC3	MCSLC16, MCSLC24
DMIDLC	DLC8/DLC16
DMIBRI	BRI
DMICSINF	CSIF
DMILCOT	LCOT8/LCOT16
DMIT1	T1
DMIE1	E1
DMIEM	E&M
DMIOPB3	OPB3
DMIEIO	EIO
DMIIPGW2	IP-GW4
DMIIPGW3	IP-GW16
DMIPRI23	PRI23

Name on SD Memory Card	Corresponding Card
DMIPRI30	PRI30
DMISLCLC	SLC16
DMIDID	DID8
DMIIPEXT	IP-EXT16
DMIVIPGW	V-IPGW16
DMIVSPGW	V-SIPGW16
DMIVIPEX	V-IPEXT32
DMIVSPEX	V-SIPEXT32

KX-TDE600

Name on SD Memory Card	Corresponding Card
DGINI	IPCEMPR
DGIDHLC	DHLC8
DGISLC	SLC8, EMSLC16, ESLC16, CSLC16
DGISLC2	ECSLC24, EMSLC24
DGIDLC	DLC8/DLC16
DGIBRI	BRI
DGICSINF	CSIF
DGILCOT	ELCOT16
DGIT1	T1
DGIE1	E1
DGIEM	E&M
DGIOPB3	OPB3
DGIEIO	EIO
DGIIPGW2	IP-GW4
DGIIPGW3	IP-GW16
DGIPRI23	PRI23
DGIPRI30	PRI30
DGIDID	DID8
DGIIPEXT	IP-EXT16
DGIVIPGW	V-IPGW16
DGIVSPGW	V-SIPGW16
DGIVIPEX	V-IPEXT32

Name on SD Memory Card	Corresponding Card
DGIVSPEX	V-SIPEXT32

To transfer files to the SD memory card

1. From the **Utility** menu, select **File Transfer PC to PBX (SD Card)**.
   The dialogue box will be displayed.
2. Select the file to upload.
   A window showing the upload progress will be displayed.
   While transferring files to the SD memory card, the PBX automatically renames them according to the header information.
   A message will be displayed when the transfer is complete.
3. Click **OK**.

2.6.3 Utility—File Transfer PBX (SD Card) to PC

Copies system data files from the SD memory card installed in the PBX to the connected PC.
This option is only available at Installer level.

The files that can be downloaded from the SD memory card are as follows:

File Name	File Type
DBSYS (KX-NCP500/KX-NCP1000)	System Data
DMSYS (KX-TDE100/KX-TDE200)	
DGSYS (KX-TDE600)	
$SYSERR	Error Data
$SYSERR1–$SYSERR9	
LIC00–LIC99	Activation Key

Downloading the DBSYS/DMSYS/DGSYS system data file allows you to make a backup of the configuration of the PBX.
The error data files are snapshots of the configuration of the PBX taken automatically when a major error causes a system reset. They can be analysed by your dealer to identify the source of a problem. If there is only one error data file, its name will be $SYSERR. If there is more than one file, the files will be numbered in chronological order, up to a maximum of 9 files.

To transfer files to the PC

1. From the **Utility** menu, select **File Transfer PBX (SD Card) to PC**.
2. Select the file to download from the list of files on the SD memory card.
   Only the files listed in the table above can be downloaded. Selecting any other file will cause an error message to be displayed.
3. Click **Transfer**.
   The Save dialogue box will be displayed
4. Navigate to the folder in which you want to save the file.
5. Enter a file name.
6. Click **Save**.
   A window showing the download progress will be displayed.
   A message will be displayed when the transfer is complete.
7. Click **OK**.

2.6.4 Utility—SD Card File View and Load

Displays a list of files on the SD memory card, and allows you to update the programmes stored in LPR cards (cards with local processors) and Cell Stations (CSs).
This option is only available at Installer level.
To update the programme stored in an LPR card, the card must first be set to out of service (OUS). To update the programme stored in a CS, the port of the card (CSIF/DHLC/DLC) that the CS is attached to must be set to OUS, but the card itself must be set to in service (INS). Only cards that are in the correct status will be displayed.
The name, date and time of creation, and size of files are displayed.
This utility can also display information on activation key files stored in the SD memory card.
The effective date, IPCMPR-ID (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR-ID (for KX-TDE600), activation key type, number of activation keys, and expiration date of activation keys are displayed on the Detail screen. The expiration date of preinstalled activation keys is displayed as "Unlimited duration".

To view and load files on the SD memory card

1. From the **Utility** menu, select **SD Card File View and Load**.
2. Click on the name of the desired file.
   Only files containing programme data (whose filenames start with "P") can be selected.
3. Click **Detail**.
   The Detail screen will be displayed. Header information from the chosen SD memory card file is displayed on the left.
4. From the **Card** drop-down list on the right, select the card(s) whose software you want to update.
   - To update a specific card or port:
     - LPR cards: select the slot number and card name.
     - CSs: select the slot number and card name, and then select the related CS port from the drop-down list directly below.
   - To update all matching cards simultaneously:
     - Select "ALL".
5. Click **View** to update the displayed header information of the selected files.
   The file with the higher File Version and File Revision numbers is newer.
6. Click **Load** to update the file stored on the PBX.
   When the update is finished, a message will be displayed.
7. Click **OK**.
   The display will return to the Detail screen.

To view information on activation key files stored in the SD memory card (Interactive mode only)

1. From the **Utility** menu, select **SD Card File View and Load**.
2. Click on the name of the desired activation key file.
3. Click **Detail**.
   The Detail screen will be displayed.

2.6.5 Utility—SD Card File Delete

Allows you to delete files from the SD memory card.
This option is only available at Installer level.
The following essential system files cannot be deleted by this utility:
KX-NCP500/KX-NCP1000: PBMPR, DBSYS
KX-TDE100/KX-TDE200: PMMPR, DMSYS
KX-TDE600: PGMPR, DGSYS

To delete files from the SD memory card

1. From the **Utility** menu, select **SD Card File Delete**.
2. Click on the file to be deleted.
3. Click **Delete**.
   A confirmation screen will be displayed.
4. Click **OK**.
   The display will return to the **SD Card File Delete** screen.

2.6.6 Utility—Message File Transfer PC to PBX

Transfers Outgoing Message (OGM) files from the PC to the selected MSG/ESVM card/block mounted on an OPB/MPR card.
This option is only available at Installer level.

Note

- When transferring to or from an MSG/ESVM card mounted on an OPB card, the OPB card must be set to OUS status.
- When transferring to or from the built-in ESVM block on the MPR card, the ESVM block must be set to OUS status.

Files are stored on the MSG/ESVM card/block in the location specified by the file's header information. Uploaded files are automatically renamed as necessary. If this location already contains an OGM, it will be overwritten by the newly uploaded message.

To transfer OGMs to an MSG/ESVM card/block

1. From the **Utility** menu, select **Message File Transfer PC to PBX**.
2. Select the target MSG/ESVM card/block, or "ALL", from the drop-down list, and click **OK**.
   The Open dialogue box will be displayed.
3. Select the message files to upload. The files must be in the WAV format.
   It is possible to select multiple files.
4. Click **OK**.
   The files will be uploaded. Files that do not contain message data will be ignored.
   When complete, the display will return to the main screen.

2.6.7 Utility—Message File Transfer PBX to PC

Transfers Outgoing Message (OGM) files from the MSG/ESVM card/block mounted on an OPB/MPR card to the PC.
This option is only available at Installer level.

Note

- When transferring to or from an MSG/ESVM card mounted on an OPB card, the OPB card must be set to OUS status.
- When transferring to or from the built-in ESVM block on the MPR card, the ESVM block must be set to OUS status.

To transfer OGMs to the PC

1. From the **Utility** menu, select **Message File Transfer PBX to PC**.
2. From the upper drop-down list, select the target MSG/ESVM card/block.
3. From the lower drop-down list, select the messages to transfer.
   - To transfer a certain message, select the number of that message.
   - To transfer all messages at once, select "ALL".

   The Save dialogue box will be displayed.
4. Enter a file name.
5. Click **Save**.
6. Click **OK**.
   When you choose to transfer all messages, each message is saved as an individual file, with a number appended to the file name corresponding to that message's location on the MSG/ESVM card/block.
   When complete, the display will return to the main screen.

2.6.8 Utility—Error Log

Collects and displays system error information.
Whenever there is a system failure, the PBX stores the error code generated. The connected PC collects all of these codes, along with other information, and displays an explanatory error message.

The functions of the buttons on this screen are as follows:

Button	Function
Cancel	Closes the Error Log screen without saving.
Capture	Saves the currently displayed Error Log information as a text file.
Minor	Displays minor errors, which affect only a certain part of system operation.
Major	Displays major errors, which affect operation of the whole system, or result in system failure.
Clear	Erases the stored error log information from both the screen and the PBX.
Log Information	Displays probable causes of the errors and their solutions.

The items displayed on screen are as follows:

Item	Description
Index	The ordinal number assigned to an error record in the current log.
Date	The date of the error detection.
Time	The time of the error detection.
Error Code	The 3-digit error code assigned by the PBX.

Item	Description
Sub Code	The 6-digit sub code of the relevant hardware (WXYYZZ). • W: Shelf type – Physical shelf: " " (blank) – Virtual shelf: "*" (asterisk) • X: Shelf number KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200: 1 KX-TDE600: • 1: Basic Shelf • 2: Expansion Shelf 1 • 3: Expansion Shelf 2 • 4: Expansion Shelf 3 • YY: Slot number – KX-NCP500 (Physical slot): 00 to 05 (00: IPCMPR Card Slot/Built-in ESVM card; 01 to 05: Free Slots) – KX-NCP1000 (Physical slot): 00 to 07 (00: IPCMPR Card Slot/Built-in ESVM card; 01 to 07: Free Slots) – KX-TDE100 (Physical slot): 00 to 06 (00: IPCMPR Card Slot/Built-in ESVM card; 01 to 06: Free Slots) – KX-TDE200 (Physical slot): 00 to 11 (00: IPCMPR Card Slot/Built-in ESVM card; 01 to 11: Free Slots) – KX-TDE600 (Physical slot): • Basic Shelf: 00 to 10 (00: IPCEMPR Card Slot/Built-in ESVM card; 01 to 10: Free Slots) • Expansion Shelf: 01 to 12 (01 to 11: Free Slots; 12: BUS-S Card Slot) – KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200/KX-TDE600 (Virtual slot): 01 to 08 (01 to 04: Virtual Trunk Slots; 05 to 08: Virtual Extension Slots) • ZZ: Port number – For optional service cards except OPB3 card: Port number (01 to 16) will be displayed. – For OPB3 card: Sub slot number (1 to 3) + port number (1 to 4) will be displayed as follows: • Sub slot 1 of OPB3: 11 to 14 • Sub slot 2 of OPB3: 21 to 24 • Sub slot 3 of OPB3: 31 to 34 **Note** When there is no parameter for slot and port number, YY and ZZ will be displayed as "00". Example: Sub code for IPCMPR card = " 10000"
Error Message	A description of the error.

To view the error log

- From the **Utility** menu, select **Error Log**.

2.6.9 Utility—T1/E1 Signalling Bit Monitor

Displays reference signalling bit information for all channels of the T1 or E1 card, by monitoring sent and received A, B, C and D bits. This utility is intended for use by dealers.
This option is only available at Installer level, and requires that the target card be set to INS status.
While monitoring is being performed, any displayed bits whose value changes from 0 to 1 or vice versa will be highlighted in red until the next screen refresh is performed.

To view signalling bit information

1. From the **Utility** menu, select **T1/E1 Signalling Bit Monitor**.
2. From the **Slot No** drop-down list, select the target slot.
3. From the **Interval Timer** drop-down list, select the number of seconds between each automatic screen refresh.
4. Click **Start**.
   Monitoring will be performed and the screen will refresh according to the interval specified.
5. Click **Stop** to end monitoring.
   To refresh the screen at any time while monitoring is stopped, click **Refresh**.

2.6.10 Utility—T1/E1 Line Trace

Traces the sent and received signalling bits and dial numbers on the specified channel of the T1 or E1 line. This utility is intended for use by dealers.
This option is only available at Installer level, and requires that the target card be set to INS status.

To view trace data

1. From the **Utility** menu, select **T1/E1 Line Trace**.
2. From the **Slot No** drop-down list, select the target slot.
3. From the **CH No** drop-down list, select the target channel.
4. Click **Start**.
   Trace information will be displayed. The information is automatically updated whenever the data being monitored changes.
5. Click **Stop** to end the trace.
6. Select an option:
   - Click **Capture** to save the displayed trace information.
     Information is saved as a text-format file.
   - Click **Clear** to erase the information.

2.6.11 Utility—ISDN/QSIG Protocol Trace

This utility collects protocol trace data from BRI, PRI or IP-GW cards, and displays it on the PC.
This option is only available at Installer level, and requires that the target BRI, PRI or IP-GW card be set to INS status.
Protocol trace data is continually accumulated on ISDN and IP-GW cards, and 3 types of data can be downloaded:

- Real Time Trace: Pseudo-real-time data is collected through data polling at one-second intervals. The displayed information is updated beginning when the **Start** button is clicked.
- Accumulation Trace: Previously accumulated data is retrieved and displayed.
- Error Accumulation Trace: Previously accumulated error data is retrieved and displayed. This trace shows the data snapshot that is taken just before a card resets.

To view trace data

1. From the **Utility** menu, select **ISDN/QSIG Protocol Trace**.
2. From the **Slot No** drop-down list, select the target slot.
3. From the **Trace Data Type** drop-down list, select the type of data to view.
4. Click **Start**.
   Trace information will be displayed.
5. Select an option:
   - Click **Capture** to save the displayed trace information.
   - Click **Clear** to clear the screen display.
6. Click **Cancel** to return to the main screen.

2.6.12 Utility—V-IPGW16 Protocol Trace

This utility collects trace data of protocol activity from V-IPGW16 card.
This option is only available at Installer level, and requires that the target V-IPGW16 card be set to INS status.

To save trace data to the SD Memory Card

1. From the **Utility** menu, select **V-IPGW16 Protocol Trace**.
   When the progress bar disappears, the protocol trace is complete. The trace data has been saved to the SD Memory Card (file name: "PRTH323").

To transfer trace data to the PC

1. From the **Utility** menu, select **File Transfer PBX (SD Card) to PC**.
   The trace data will be displayed.
2. Select the desired trace data file.
3. Click **Transfer**.
4. Navigate to the folder in which you want to save the file.
5. Enter a file name.
6. Click **Save**.
7. Click **OK**.

2.6.13 Utility—Digital Trunk Error Report

Displays accumulated information on various types of errors occurring on digital trunks.
This option is only available at Installer level.
The value displayed for each error item is the number of times that each error occurred during the time period selected. Average values for these items vary depending upon many factors, such as the equipment being used, and the distance from the telephone company.

The displayed items are as follows:

Item		**Description**
Time		Time of error
Slot		Relevant slot and card type
Counter of Digital Trunk Error Logs logged in "Minor Error" Log	Out of SYNC (#300)	Digital trunk out of sync (Loss of Signal)
	RAI (#301)	Digital trunk RAI signal reception
	AIS (#302)	Digital trunk Alarm Indication Signal reception
	Frame Failure (#300)	Digital trunk frame failure (Loss of Frame)
Counter of minor communication error	CRC	Cyclic Redundancy Check error
	SF	Severely errored frame (or Severe Framing Error)
	FE	Frame synchronisation bit-error
	LV	Line Code Violation
	SL	Controlled slip

To view digital trunk information

1. From the **Utility** menu, select **Digital Trunk Error Report**.
2. From the **Slot No** drop-down list, select the target slot.
   - To generate a report on a specific card, select the slot number and card name.
   - To generate a report on all matching cards simultaneously, select "ALL".
3. From the **Display form** drop-down list, select the time period to view.
4. Click **Execute**.
   The error report will be displayed.

2.6.14 Utility—IP Extension Statistical Information

Displays accumulated statistical information on IP extensions, IP-EXT cards, V-IPEXT32 cards, V-IPCS4 cards, and the DSP card.

The displayed items are as follows:

Item	Description
Collection Started Time	Date and time the port was last reset.
Port No.	Number of the port.
RTP Receive Packet Counter	Total number of packets received.
RTP Receive Lost Packet Counter	Total number of packets lost.
RTP Receive Abandoned Packet Counter	Total number of packets abandoned.
RTP Arrive Packet Interval (MAX.) [ms]	Maximum time taken for a packet to arrive.
RTP Arrive Packet Interval (MIN.) [ms]	Minimum time taken for a packet to arrive.

To view IP extension information

1. From the **Utility** menu, select **IP Extension Statistical Information**.
2. From the **Card Selection** drop-down list, select the slot number for the card. "IPCMPR (VoIP-DSP)" (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/"IPCEMPR (VoIP-DSP)" (for KX-TDE600) can be selected for the DSP card when **DSP Card Status** is enabled. See **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**.
3. Click **Execute**.
   The statistical information will be displayed.
4. Select an option:
   - Click **Capture** if you want to save the displayed information.
     1. Enter a file name, or select a file to overwrite.
     2. Click **Save**.
   - Click **Clear** to erase the information and reset the Collection Started Time.
5. Click **Cancel** to return to the main screen.

2.6.15 Utility—CS Information

Displays information stored by the PBX regarding each Cell Station (CS).
This option is only available at Installer level, and requires that the target CSIF, DHLC, DLC, or V-IPCS4 card be set to INS status.
For DHLC/DLC cards, only the information for ports that have CSs connected to them is displayed.

The displayed items are as follows:

Item	Description
Slot	Number of the slot (for KX-TDE600, shelf and slot)
Port	Number of the port
CS Name	Name of the attached CS
Status	Service status of the attached CS: INS, OUS, or FAULT. If the status is FAULT, subsequent data items for that port will be left blank.
Version	Version number of the programme file stored in the CS
Revision	Revision number of the programme file stored in the CS
CSID	12-digit ID number of the CS
Path	Number of the wireless extension currently using each path. In the case of a group, several extensions may be using the same floating extension number. When an extension number is not registered, the display shows "OFF". The number of paths that can be used varies for each CS model. For more details, see the documentation for your CS.
Group Call	Number of PSs registered to the attached CS that are members of a PS Ring Group.

To view CS information

1. From the **Utility** menu, select **CS Information**.
2. From the **Target CSI/F Slot No.** drop-down list, select the target slot.
   - To display information on a single card, select the slot number and name of that card.
   - To display information on all matching cards, select "All".
3. From the **Interval Timer** drop-down list, select the number of seconds between each automatic screen refresh.
4. If you want to save the CS information, click **Capture**.
   a. Create a file for saving the data.
   b. Click **Start**.
   c. Click **Close**.
5. Click **Start** to begin monitoring.
   Monitoring will be performed and the screen will refresh according to the interval specified.
   To refresh the screen manually at any time, click **Refresh**.
6. Click **Stop** to end monitoring.
7. If you started to save the CS information in step **4**, click **Capture**, then click **Stop** to record the information to the specified file.
8. Click **Close** to return to the main screen.

2.6.16 Utility—PS Information

Displays Portable Station (PS) registration information, including the associated Cell Station (CS). This option is only available at Installer level.

The displayed items are as follows:

Item	Description
PS No.	PS location number. Only registered PSs will be displayed.
Extension Number	Extension number of the PS.
Location—Slot	Slot number of the CS that the PS is registered with.
Location—Port	Port number of the CS that the PS is registered with.

To view PS information

1. From the **Utility** menu, select **PS Information**.
2. Click **Refresh**.

2.6.17 Utility—CS Status Monitor

This utility monitors the status of CSs. CSs receive data from other CSs that they are currently synchronised with. **Current Sync CS** information is displayed for IP-CSs that are in INS status.
This option is only available at Installer level.

The displayed items for the **Current Sync CS** of each CS are as follows:

Item	Description
CS Type	Type of CS that each CS is currently synchronised with.
Slot Type (for KX-NCP500/ KX-NCP1000/KX-TDE100/ KX-TDE200)/ Shelf (for KX-TDE600)	Slot type (shelf) of the CS that each CS is currently synchronised with.
Slot	Slot number of the CS that each CS is currently synchronised with.
Port	Port number of the CS that each CS is currently synchronised with.
CS / Repeater	Indicates whether the CS that each CS is currently synchronised with is a CS or Repeater.
CS Name	Name of the CS that each CS is currently synchronised with.
CS ID	12-digit ID number of the CS that each CS is currently synchronised with.
Monitored Value	Monitored value (dBm) of the CS that each CS is currently synchronised with.
Monitored Level	Monitored level (signal strength level) of the CS that each CS is currently synchronised with.

To monitor the status of CSs

1. From the **Utility** menu, select **CS Status Monitor**.
2. From the **Interval Timer** drop-down list, select the number of seconds between each automatic screen refresh.
3. If you want to save the CS status monitor information, click **Capture**.
   a. Create a file for saving the data.
   b. Click **Start**.
   c. Click **Close**.
4. Click **Start** to begin monitoring.
   Monitoring will be performed and the screen will refresh according to the interval specified.
   To refresh the screen manually at any time, click **Refresh**.
5. Click **Stop** to end monitoring.
6. If you started to save the CS status monitor information in step **3**, click **Capture**, then click **Stop** to record the information to the specified file.
7. Click **Close** to return to the main screen.

2.6.18 Utility—Ping

Performs a connection test on network devices. This function sends echo requests to a particular IP address across an IP network, and displays the result of responses and round-trip time.
This option is only available when the Maintenance Console is in Interactive mode.

To perform a Ping test

1. Enter a specific IP address in the **IP Address** box.
2. Click **Test** to perform the test.
   The result will be displayed.
3. Select an option:
   - Click **Capture** if you want to save the displayed information.
     1. Enter a file name, or select a file to overwrite.
     2. Click **Save**.
   - Click **Close** to return to the Ping screen.

2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500

Displays a list of files on the FTP server, and allows you to update the programmes stored in IP-CSs and KX-NT400/KX-NT500 IP-PTs.
This option is only available at Installer level.
It is possible to perform the update in 2 ways:

- Manual update
- Timed (automatic) update

To update manually:

1. From the **Utility** menu, select **File Transfer FTP to IP Equipment**, and then either **IP-CS**, **NT400** or **KX-NT500**.
2. Input the **FTP Server Address** and **File Name**.
3. Put a check in the **Select** check boxes of the items to be updated.
4. Click **Execute**.

To set timed update:

1. From the **Utility** menu, select **File Transfer FTP to IP Equipment**, and then either **IP-CS**, **NT400** or **KX-NT500**.
2. Input the **FTP Server Address** and **File Name**.
3. Put a check in the **Select** check boxes of the items to be updated.
4. Click **Timed Update**.
   The **Timed Update** screen appears. For information on setting this screen, see **2.6.21 Utility—Software Timed Update**.

Note

- Cards are automatically set to OUS status during an update, and returned to INS status when the update is complete.
- To display the file version of the file stored on the FTP server, click **Load**.
- To refresh the status of all ports, click **Refresh**.
- Timed updates can only be set for either LPR cards, IP-CSs, KX-NT400 IP-PTs or KX-NT500 IP-PTs. They cannot be set for more than one type of device.
- If the following feature is already running, this processing will conflict with it and not run.
  2.6.21 Utility—Software Timed Update–NT300

2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx

Displays a list of files on the FTP server, and allows you to update the programmes stored in KX-NT300 series IP-PTs.
This option is only available at Installer level.

To perform an update

1. From the **Utility** menu, select **File Transfer FTP to IP Equipment**, and then **NT3xx**.
2. Input the **FTP Server Address** and **File Name**.
3. Click **Execute**.

Note

- This utility is not available when the PBX is connected to the Maintenance Console via a LAN connection.
- Ports cannot be selected. All registered ports that are in OUS status will be activated, and then reset when the update is complete.
- To display the version and file type of the file stored on the FTP server, click **Load**.
- FTP server passwords and user IDs can only contain capital letters and numbers.
- If the following feature is already running, this processing will conflict with it and not run.
  2.6.21 Utility—Software Timed Update–NT300

2.6.21 Utility—Software Timed Update

Card Software

Updates programmes in the LPR cards (optional service cards with local processors) by comparing them with files found on the SD memory card on a preset schedule, and downloading newer files to the cards.
This option is only available at Installer level.

Note

- Timed updates can only be set for either LPR cards, IP-CSs, or KX-NT400 IP-PTs. They cannot be set for more than one type of device.
- Cards are automatically set to OUS status during an update, and returned to INS status when the update is complete.
- It is recommended to set the timed update to take place during the least active time period, for example late at night.

This utility does not apply to CS programmes. These must be updated manually using the **SD Card File View and Load** utility (see **2.6.4 Utility—SD Card File View and Load**).
When this utility has been set, all commands that would affect the status of cards are prevented from operating. The list of these commands is as follows:

- Card status change (INS/OUS)
- Diagnosis commands
- Card installation
- Card deletion
- Remote reset
- LPR programme download requests
- ISDN automatic setup requests (BRI card)
- Signalling Bit Monitor requests (T1/E1)
- Line trace start requests (T1/E1)
- ISDN/QSIG Protocol Data Trace start requests
- Time setting
- CS programme download requests
- File deletion

When a function other than those listed above, that cannot be performed while timed update has been set, is selected, an error message will be displayed.

To turn this utility on:

1. From the **Utility** menu, select **Software Timed Update**, and then **Card Software**.
2. Select **Card Software**.
3. Select the **Set** option.
   The time setting box will become available.
4. Enter the desired time using the number keys.
   Click in the hour or minute field and use the up and down arrows to adjust the displayed time in increments of one unit.
5. Click **Apply**.
   A message box will be displayed.
6. Click **Yes**.

To turn this utility off:

1. From the **Utility** menu, select **Software Timed Update**.
2. Select **Card Software**.
3. Select the **Off (Cancel)** option.
4. Click **Apply**.
   A message box will be displayed.

5. Click **Yes**.

Note

If the following feature is already running, this processing will conflict with it and not run.
2.6.21 Utility—Software Timed Update–NT300

NT300

Using this feature, KX-NT300 series IP-PTs (KX-NT321/KX-NT343/KX-NT346/KX-NT366) can download a programme file using the FTP protocol from a PC running Maintenance Console and perform a programme update. With this feature, you can easily update the programme file of KX-NT300 series IP-PTs without setting up a separate FTP server.This option is only available at Installer level.

Note

- This utility is available when the PBX is connected to Maintenance Console over a LAN connection.
- This feature does not support IP-PTs connected to an IP-EXT16 card.
- If you use this function with Timed Update, ensure that Maintenance Console is running at the specified time.
- If any of the following features are already running, this processing will conflict and not run:
  2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
  2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
  2.6.21 Utility—Software Timed Update–Card Software
- Refer to the following section to see the results of updating IP-PTs' software:
  3.15 [1-1] Slot—Port Property - Virtual IP Extension–Main–◆ Program Ver.
- During a software update, the IP-PTs being updated will be changed to OUS. When the update is complete, they will be returned INS.

To enable this feature:

1. From the **Utility** menu, select **Software Timed Update**.
2. Select **NT300**.
3. Click **FTP server**.
   You can check the **Connection Control Port Number** (Reference Only).
4. Click **OK**.
5. Click Browse.
6. Select the following files:
   File name for KX-NT343/KX-NT346/KX-NT366
   File name for KX-NT321
7. Click **Load**.
8. Select the **Set** option.
9. Enter the desired time to update.
10. Click **Apply**.
    A message box will be displayed.
11. Click **Yes**.

To disable this feature:

1. From the **Utility** menu, select **Software Timed Update**.
2. Select **NT300**.
3. Select the **Off (Cancel)** option.
4. Click **Apply**.
   A message box will be displayed.
5. Click **Yes**.

2.6.22 Utility—System Reset—Reset by the Command

Updates the main system programme and data files stored within the PBX using files taken from the SD memory card, and resets the connected PBX.
This option is only available at Installer level.

Two copies of each of the main system files can be stored on the SD memory card. The names of these files are as follows:

KX-NCP500/KX-NCP1000

File Name	Description
DBSYS	Main system data file. Contains all of the current configuration data for the PBX.
DBSYS_S	Backup main system data file
PBMPR	PBX programme file. Contains the software to run the IPCMPR board of the PBX.
PBMPR_S	Backup PBX programme file

KX-TDE100/KX-TDE200

File Name	Description
DMSYS	Main system data file. Contains all of the current configuration data for the PBX.
DMSYS_S	Backup main system data file
PMMPR	PBX programme file. Contains the software to run the IPCMPR board of the PBX.
PMMPR_S	Backup PBX programme file

KX-TDE600

File Name	Description
DGSYS	Main system data file. Contains all of the current configuration data for the PBX.
DGSYS_S	Backup main system data file
PGMPR	PBX programme file. Contains the software to run the IPCEMPR board of the PBX.
PGMPR_S	Backup PBX programme file

When new DBSYS/DMSYS/DGSYS and PBMPR/PMMPR/PGMPR files are transferred from a connected PC to the SD memory card using the **File Transfer PC to PBX (SD Card)** utility (see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**), they are stored as the backup files. To use these files on the PBX, it is necessary to first swap them with the currently active files on the SD memory card.

To update system files and reset the PBX

1. From the **Utility** menu, point to **System Reset** and then click **Reset by the Command**.
2. Choose whether to back up current system data or not.
   - Click **SD Backup** to back up the current system data to the SD memory card before proceeding.

Select this if you intend to use the current system data unchanged after reset.

- Click **Skip** to continue without backing up.
  Select this if you intend to replace the current system data with data that was uploaded from the PC.

The second screen will be displayed. A list of matching files found on the SD memory card, with dates and times, is shown at the top.

3. Select whether to replace the DBSYS/DMSYS/DGSYS and PBMPR/PMMPR/PGMPR files or not.
   When no backup file is found, the corresponding options are not available.
4. Click **OK**.
   A confirmation screen will be displayed.
5. Select an option:
   - Click **OK** to reset the PBX.
     If **OK** is clicked, a final confirmation screen will be displayed.
   - Click **Cancel** to return to the main screen without copying files.
6. Click **OK** to reset the PBX, or **Cancel** to return to the main screen without copying files.
   If the reset command was not carried out correctly, an error message will be displayed, and you will be returned to the main screen.

After resetting the PBX with this command, it is necessary to reconnect to the PBX to continue programming.

2.7 Help

2.7.1 Frequently Asked Questions (FAQ)

This section provides answers to some common questions about using the Maintenance Console software to programme the PBX. The information is divided into the following topics:

Title	Description
Connection	Connecting to the PBX using Maintenance Console.
Maintenance Console Software	Using the Maintenance Console software.
Card Status	Changing the status (INS/OUS) of cards.
Portable Stations	Setting up portable stations, including registration and deregistration.
Numbering	Changing the numbering plan for the PBX, or numbers of individual extensions or features.
Saving Modified Data	Safely saving PBX data edited with Maintenance Console.
Setting Features	Setting up individual features.

Connection

Q **The Maintenance Console cannot connect to the PBX via RS-232C cable.**

A
- Is the cable firmly connected to both the PC and the PBX?
- Is the serial port that the PC uses correctly specified?
- Is the baud rate correct?
  The default setting, and a safe rate, is 19 200 bps.
- Is the password correct?
- Is the Maintenance Console not connected to the PBX by another connection method?

Q **The Maintenance Console cannot connect to the PBX via USB.**

A
- Is the USB cable firmly connected to both the PC and the KX-DT300 series/ KX-T7600 series DPT with a USB Module?
- Is the USB driver on the PC running?
  To confirm, open the Windows Device Manager, and look for "Panasonic KX-TDA USB Main Unit driver" in the USB Controllers section. If it is not present, re-install the USB driver.
- Is the password correct?
- Is the Maintenance Console not connected to the PBX by another connection method?

Q **The Maintenance Console cannot connect to the PBX via LAN.**

A
- Is the PC connected to the LAN?
- Have the IP address and port number of the PBX been set correctly? For more details, see **3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/ KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)**.
- Is the password correct?
- Is the Maintenance Console not connected to the PBX by another connection method?

Q **The Maintenance Console cannot connect to the PBX via modem.**

A
- Is the dial number of the modem correct? For more details, see **13.1 [11-1] Main**.
- Has a modem been installed to the PBX?
- Are the modem settings of the PBX and Maintenance Console correct? For more details, see **13.1 [11-1] Main**.
- Is the password correct?
- Is the Maintenance Console not connected to the PBX by another connection method?

Q **The Maintenance Console cannot connect to the PBX via ISDN Remote.**

A
- Are the ISDN Remote settings of the PC correct? For more details, see **13.1 [11-1] Main**.
- Is the ISDN Remote dial number correct?
- Is the password correct?
- Is the Maintenance Console not connected to the PBX by another connection method?

Q **Can I perform initial setup of the PBX without being connected to the PBX?**

A
- Yes. This is possible in Batch mode.
  Create a new system data file using **2.2.1 Programme launcher—New**, edit settings as required, and then upload this file to the PBX later (see **2.6.2 Utility—File Transfer PC to PBX (SD Card)**).

Maintenance Console Software

Q **How do I confirm the software version of the PBX or installed cards?**

A
- From **3.1 [1-1] Slot**, click **Summary**. Summary information, including software versions, is displayed for all cards installed in the PBX.

Q **Not all of the characters of a setting can be displayed because the column is too narrow.**

A
- Move the mouse to the line between the names of 2 setting items, at the top of the table.
  The pointer will change to a double arrow. Click and drag the line to the right until all characters are displayed.

Card Status

Q **The status of a new card will not change to "INS".**

A
- With the new card installed, does the total number of extensions or trunks exceed the maximum supported by the PBX?
- Is the type of card installed in the slot different from the card type set as "Pre-install" for that slot? Confirm that the correct card is installed in the slot.
- Is the card firmly and fully installed in the slot? Confirm that the card is installed correctly in the slot.
- Confirm that the card is not damaged.

Q **I want to set the status of only 1 port of the IP-GW4 card to "OUS".**

A
- This cannot be done, since the IP-GW4 card requires both channels of a port to be set to "OUS"/"INS" together.

Q **I cannot change an LCO port to INS status.**

A
- Is the card installed in the appropriate slot?
- Is the card installed in the correct slot, but not functioning correctly? Check the condition of the card.
- Is the card itself in INS status? Set it to INS status.
- Is a trunk line connected to the appropriate port?
- Is the port in FAULT status, even though a trunk is connected? Run diagnosis on the relevant slot.

Q **How do I prevent newly installed cards automatically being changed to "INS"?**

A
- Change ◆ **New Card Installation—Card Status for any Card** in **3.62 [1-3] Option** from "In Service (INS)" to "Out of Service (OUS)".

Portable Stations

Q **I cannot register Portable Stations using the method described in Portable Station [1-2].**

A
- Is the status of the CSIF, DHLC or DLC card set to "INS"?
- Is a CS connected to the CSIF, DHLC or DLC card? If not, connect one.
- Do the PINs (Personal Identification Numbers) of the PBX and the Portable Station match? Confirm that they are the same.
- Is the Portable Station within transmission range of the CS?
- Has the Portable Station previously been registered at another location? It is not possible to register a Portable Station at 2 locations, so use the ◆ **Forced De-registration** option to delete the previous registration.

Q **I cannot delete the extension number of a Portable Station.**

A
- First, de-register the Portable Station itself, and then delete the extension number.

Q **I cannot de-register a Portable Station.**

A
- Is the Portable Station turned on? If not, turn it on.
- Is the Portable Station within transmission range of the CS? If not, move it closer to the CS and try the de-registration operation again.

Q **The Portable Station I want to de-register is broken, and will not turn on, or is not available, or the registration information was deleted first from the Portable Station, so it cannot be de-registered.**

A
- The Portable Station can be forcibly de-registered by following the procedure shown in ◆ **Forced De-registration** of **3.61 [1-2] Portable Station**.

Q **I changed the extension number of a Portable Station, but the display of the Portable Station still shows the old extension number.**

A
- Turn the Portable Station off and back on again, to force it to re-register its location.

Q **I changed the FCO of a Portable Station, but the display of the Portable Station still shows the old FCO.**

A
- Turn the Portable Station off and back on again, to force it to re-register its location.

Q **If I delete the extension number of a Portable Station, and then turn the Portable Station off and back on again, it does not function correctly.**

A
- Do not delete the extension number of the Portable Station, as this information is necessary for it to operate.

Numbering

Q **How do I change the extension number of a wired extension?**

A
- Change the extension number of the target port to the new number, and click **Apply**. Next, set the port to OUS status, and then back to INS status.

Q **I changed the extension number of a wired extension while the extension was engaged in a call, but the display still shows the previous extension number.**

A
- The extension number will not change while the extension is in use. When the conversation is finished, set the port to OUS status, and then back to INS status.

Q **How do I change the extension numbering plan from 3-digit numbers to 4-digit numbers?**

A
- Perform the following steps:
  1. Open the **4.9 [2-6-1] Numbering Plan—Main** screen.
  2. Enter a 2-digit number in ◆ **Leading Number**, or change ◆ **No. of Additional Digits** from "x" to "xx".
     For more details, see **What is the procedure to modify the Numbering Plan?** in **Numbering**.

Q **How do I set a 3-digit numbering plan?**

A
- There are 2 methods of creating a 3-digit numbering plan, using **4.9 [2-6-1] Numbering Plan—Main**:
  1. Set the leading number to be 2 digits, with one additional digit. This method allows a maximum of 10 extensions.
     Example: ◆ Leading Number = 10; ◆ **No. of Additional Digits** = x
     In this example, extension numbers 100 to 109 can be used.
  2. Set the leading number to be one digit, with 2 additional digits. This method allows a maximum of 100 extensions.
     Example: ◆ **Leading Number** = 1; ◆ **No. of Additional Digits** = xx
     In this example, extension numbers 100 to 199 can be used.

  For more details, see **What is the procedure to modify the Numbering Plan?** in **Numbering**.

Q **What is the procedure to modify the Numbering Plan?**

A

- Perform the following steps:
  1. Confirm that the Numbering Plan you will change is not currently being used by any extensions (see **2.5.8 Tool—Extension List View**).
     If it is being used by extensions, temporarily change the extension numbers of those extensions to that of another numbering plan, or delete the extension number (see **6.1 [4-1-1] Wired Extension—Extension Settings** and **6.10 [4-2-1] Portable Station—Extension Settings**).
  2. Clear the ◆ **Leading Number** cell.
  3. Click **Apply**.
  4. Modify the ◆ **No. of Additional Digits** cell as required.
  5. Click **Apply**.
  6. Enter the desired value in the ◆ Leading Number cell.
  7. Click **Apply**.
  8. Set all extension ports to OUS status.
  9. On the relevant screens, set the extension numbers of extensions to the desired values.
  10. Set all extension ports back to INS status.

Q When modifying the Numbering Plan, I cannot change the Leading Number.

A

- It is not possible to use the same Leading Number for 2 extension blocks, or to use a number that could possibly overlap with another Leading Number.
  So, for example, if "2" is already set as a Leading Number it is not possible to set "21" as another Leading Number because of the possible overlap of extension numbers.
  The number you are trying to store cannot be used if it is already being used by:
  - A feature number
  - Another extension block
  - A ◆ Dial setting (see **11.1 [9-1] TIE Table**)
  - Quick Dialling (see **4.10 [2-6-2] Numbering Plan—Quick Dial**)

  In any of these cases, choose another number.

Q When modifying the Numbering Plan, how do I set a 1-digit extension number?

A

- Perform the following steps:
  1. Clear the ◆ **Leading Number** cell.
  2. Click **Apply**.
  3. Set ◆ **No. of Additional Digits** to "None".
  4. Click **Apply**.
  5. Enter the desired value in the ◆ **Leading Number** cell.
  6. Click **Apply**.
  7. Set all extension ports to OUS status.
  8. On the relevant screens, set the extension numbers of extensions to the desired values.
  9. Set all extension ports back to INS status.

Q How do I change a feature number?

A

- Perform the following steps:
  1. Open the **4.9 [2-6-1] Numbering Plan—Main** screen.
  2. Change the value in the **Dial** cell of the desired feature.
  3. Click **Apply**.

Q **I cannot change a feature number.**

A
- It is not possible to use the same number for 2 items.
  The number you are trying to store cannot be used if it is already being used by:
  - A feature number
  - An extension
  - A ◆ Dial setting (see **11.1 [9-1] TIE Table**)
  - Quick Dialling (see **4.10 [2-6-2] Numbering Plan—Quick Dial**)

  In any of these cases, choose another number.

Q **How do I change the code used to access another PBX?**

A
- Perform the following steps:
  1. Open the **4.9 [2-6-1] Numbering Plan—Main** screen.
  2. Select the **Other PBX Extension** tab.
  3. Change the value in the ◆ **Dial** cell of the desired feature.
  4. Click **Apply**.

Q **I cannot change an Other PBX Extension code.**

A
- It is not possible to use the same number for 2 items.
  The number you are trying to store cannot be used if it is already being used by:
  - A feature number
  - An extension
  - A ◆ Dial setting (see **11.1 [9-1] TIE Table**)
  - Quick Dialling (see **4.10 [2-6-2] Numbering Plan—Quick Dial**)

  In any of these cases, choose another number.

Q **I cannot change a feature number on the B/NA DND Call Feature screen.**

A
- The number you are trying to store is already being used by another call feature. Please choose a different number.

Q **How do I prevent extension numbers being automatically assigned to a newly installed card?**

A
- Change ◆ **New Card Installation—Automatic Extension Number Set for Extension Card** in the **3.62 [1-3] Option** screen from "Automatic" to "Manual".

Saving Modified Data

Q **Modified settings have not been updated in the PBX.**

A
- Click **Apply** or **OK** in the sub-menu screen.

Q **Modified settings are not saved even when I press the Apply button.**

A
- To save the system data files, choose **Save** from the **File** menu.

Q **If I reset the PBX directly after modifying settings, the modified settings are not updated in the PBX.**

A • When you click **Apply**, the settings are updated in the PBX, but are not yet saved to the SD memory card. If system data is not saved to the SD memory card, the PBX will restore the data that was last saved to the card in the event that the PBX is reset, or power is turned off and back on again.
Therefore, before resetting the PBX, click the **SD memory backup** icon to save the system data to the SD memory card. Alternatively, exit the Maintenance Console. This automatically saves system data to the SD memory card.

Note

Do not remove the SD memory card while power is supplied to the PBX. Doing so may cause the PBX to fail to start when you try to restart the system.

Q After reinitialising the PBX, I restored system data from a previous backup. However, some of the settings have not been restored to their previous values.

A • The following setting data is not saved to the SD memory card, so will be deleted when the PBX is initialised. This data is stored in the PBX's battery backup memory.
- Incoming Call Log
- Outgoing Call Log (including Last Number Redial)
- Message Waiting
- SMDR
- Advice of Charge (AOC)/Pay Tone
- Hospitality guest billing data
- ICD Group monitor log for supervisor
- PBX date and time
- Timed Reminder
- LPR Timed Update time
- PT handset/headset volume
- PT SP-PHONE volume
- PT ring volume
- PT display contrast
- ICD Group login status
  (All extensions are set to Login by default.)
- ICD Group Ready/Not Ready status
  (All extensions are set to Ready by default.)
- Live Call Screening (LCS) On/Off
- Hands-free Answerback status
- Absent Message status of extensions
  (Absent Message data itself is not cleared.)
- FWD/DND status
  (FWD destinations are not cleared.)
- Extension Dial Lock/Remote Extension Dial Lock
- Extension PIN Lock/Extension PIN Lock counter
- Verification Code PIN Lock/Verification Code PIN Lock counter
- Password Lock counter for Remote System Programming
- PBX Error Log
- Digital Trunk Error Report data

In addition, the following data cannot be restored:
- SVM Log and messages (both greeting messages and voice messages left by callers) recorded by the SVM feature.

Setting Features

Q **How do I change the dialling mode of an analogue trunk?**

A
- From the **3.30 [1-1] Slot—Port Property - LCO Port** screen, change the ◆ **Dialling Mode** setting of the target port to "DTMF" or "Pulse", as required.

Q **How do I set disconnect detection (CPC Detection) for an analogue trunk?**

A
- From the **3.30 [1-1] Slot—Port Property - LCO Port** screen, modify the ◆ **CPC Signal Detection Time—Outgoing, Incoming** setting of the target port.
  The required value varies by carrier. Transmission and reception can be set separately.

Q **What settings do I change to enable use of an extension ISDN telephone?**

A
- From the **3.33 [1-1] Slot—Port Property - BRI Port** screen, set the ◆ **Port Type** of the port you want to use to "Extension".

Q **When using a TE with an extension ISDN, how do I enable power output?**

A
- From the **3.33 [1-1] Slot—Port Property - BRI Port** screen, set ◆ **ISDN TE Power** on the **ISDN Extension** tab to "Enable".

Q **How do I connect to another PBX using QSIG?**

A
- From the **3.33 [1-1] Slot—Port Property - BRI Port** or **3.35 [1-1] Slot—Port Property - PRI Port** screen, set the ◆ **Port Type** of the port you want to use to either "QSIG-Slave" or "QSIG-Master".

Q **How do I change the type of an extension port?**

A
- Set the port to OUS status. Then, change ◆ **DPT Type—Type** in the **3.24 [1-1] Slot—Port Property - Extension Port** window.

Q **I have set the type of an extension port to "DSS Console", but I cannot apply this setting. (Error E000402)**

A
- The number entered in ◆ **DPT Type—Location No.** on the **3.24 [1-1] Slot—Port Property - Extension Port** screen is the same as that entered for another DSS Console. Change this so that the numbers do not overlap.

Q **I have set the type of an extension port to "VM (DPT)", but I cannot apply this setting. (Error E000403)**

A
- The ◆ **DPT Type—VM Unit No.** and ◆ **DPT Type—VM Port No.** settings entered on the **3.24 [1-1] Slot—Port Property - Extension Port** screen are the same as those entered for another VM (DPT). Change this so that the numbers do not overlap.

Q **I have set the type of an extension port to "PC Console", but I cannot apply this setting. (Error E000402)**

A
- The number entered in ◆ **DPT Type—Location No.** on the **3.24 [1-1] Slot—Port Property - Extension Port** screen is the same as that entered for another PC Console. Change this so that the numbers do not overlap.

Q What programming do I have to perform to use a headset with an extension?

A
- Set ◆ **Headset OFF/ON** on the **3.24 [1-1] Slot—Port Property - Extension Port** screen to "Headset ON".

Q What programming do I have to perform to use XDP with an extension port?

A
- Set ◆ **XDP Mode** on the **3.24 [1-1] Slot—Port Property - Extension Port** screen to "On".

Q How do I edit a Class of Service, or create a new Class of Service?

A
- Class of Service feature restrictions can be set from the **4.12 [2-7-1] Class of Service—COS Settings** screen.

Q How do I restrict calls between 2 extensions?

A
- Calls between extensions can be restricted from the **4.14 [2-7-3] Class of Service—Internal Call Block** screen. Click in the relevant cells to select the COS levels whose extensions are blocked from calling each other.

Q How do I restrict trunk calls made by extensions?

A
- Trunk calls made by extensions can be restricted from the **4.13 [2-7-2] Class of Service—External Call Block** screen. Click in the relevant cells to select the trunk groups that cannot be used by extensions associated with a particular COS in each time mode.
  To prevent extensions associated with a COS from making trunk calls, set all trunk groups for that COS to "Block" (blue).

Q How do I modify the hold operation for SLTs?

A
- It is possible to choose how to hold a line and transfer a call with an SLT using the ◆ **SLT—SLT Hold Mode** option on the **4.18 [2-9] System Options** screen.
  For more details, see "1.13.1 Call Hold" of the Feature Guide.

Q How do I set up an Incoming Call Distribution (ICD) group to receive trunk calls directly?

A
- Perform the following steps:
  1. On the **5.13 [3-5-1] Incoming Call Distribution Group—Group Settings** screen, enter the floating extension number you chose for the ICD group in the ◆ **Floating Extension Number** cell.
  2. Click **Apply**.
  3. On the **5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List** screen, select the ICD group you created from the **Incoming Call Distribution** drop-down list.
  4. Enter the extension numbers of member extensions in the ◆ **Extension Number** column.
  5. Click **Apply**.
  6. On the **DIL** tab of the **12.2 [10-2] DIL Table & Port Settings** screen, enter the floating extension number of the ICD group as the ◆ **DIL Destination—Day, Lunch, Break, Night** of each time mode.
  7. Modify other settings as required from the **Group—Incoming Call Distribution Group** submenu.

Q How do I set the queuing operation for an Incoming Call Distribution group?

A
- Perform the following steps:
  1. On the **5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table** screen, set the actions as required for each queuing table.
  2. On the **5.13 [3-5-1] Incoming Call Distribution Group—Group Settings** screen, from the **Queuing Time Table** tab, select the number of the Queuing Time Table to use in each time mode.

Q How do I add an extension as a member of an Incoming Call Distribution (ICD) group?

A
- Perform the following steps:
  1. On the **5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List** screen, from the **Incoming Call Distribution** drop-down list, select the group you want to modify.
     The ICD group must have an extension number set.
  2. Enter the extension number of the extension you want to add in a blank cell of the ◆ **Extension Number** column.
  3. Set ◆ **Delayed Ring** as necessary.
  4. Click **Apply**.

Note that it is necessary to set the extension number of the ICD group in advance.

Q I cannot set system speed dialling numbers from PC Console.

A
- Set the COS of the extension to which PC Console is connected to Manager class, by setting ◆ **Manager** on the **Manager** tab of the **4.12 [2-7-1] Class of Service—COS Settings** screen to "Enable".
- System speed dialling numbers can only be edited by one PC Console at a time.

Q I have set FWD through system programming, but calls are still not being forwarded.

A
- Perform the following steps:
  1. Check that the **Forward / DND** settings of the target extension on the **6.3 [4-1-2] Wired Extension—FWD/DND** or **6.12 [4-2-2] Portable Station—FWD/DND** screen are set to one of the forwarding settings.
  2. Create a FWD button on the target extension if one does not already exist.
  3. Press the FWD button so that it changes to FWD status.

2.7.1 Frequently Asked Questions (FAQ)

Section 3

[1] Configuration

3.1 [1-1] Slot

The operating characteristics associated with each service card can be programmed.
Move the mouse pointer over an installed card to display the menu of options for that card. To view a summary of status and MPR versions for all cards installed in the PBX, click the **Summary** button (see **3.2 [1-1] Slot—Summary**).

To install a new card to the PBX

1. Click on the name of the card to install in the list on the right.
   An image of the card will be displayed to the left of the list, and information about the card will be shown below.
2. Click and drag the image of the card to the free slot it is to be installed in, and release it.
   The card will move into the slot space.
3. Click **Yes** to confirm.

To switch between physical and virtual shelves of the PBX

1. Move the mouse pointer over the small PBX image for virtual slots.
   Select Shelf will be shown under the mouse pointer.
2. Click **Select Shelf**.

To install a new shelf to the PBX (KX-TDE600 only)

1. Move the mouse pointer over the first greyed PBX image at the bottom of the screen.
   Pre-Install will be shown under the mouse pointer.
2. Click **Pre-Install**.
3. Click **Yes** to confirm.

To select a different shelf of the PBX (KX-TDE600 only)

1. Move the mouse pointer over the white PBX image at the bottom of the screen for the Expansion Shelf you wish to select.
   Select Shelf will be shown under the mouse pointer.
2. Click **Select Shelf**.

To access card properties

1. Move the mouse pointer over a card.
   A menu will be shown under the mouse pointer.
2. Select **Card Property**.
   The property screen for that card will be displayed.

To access port properties

1. Move the mouse pointer over a card.
   A menu will be shown under the mouse pointer.
2. Select **Port Property**.
   The property screen for that card's port or ports will be displayed.

To remove a card from the PBX

1. Move the mouse pointer over the card to remove.
   A menu will be shown under the mouse pointer.
2. Select **Delete**.
3. Click **Yes** to confirm.
   The card will be removed.

To change the status (INS/OUS) of a card (Interactive mode only)

1. Move the mouse pointer over the card.
   A menu will be shown under the mouse pointer.
2. Select the desired status:
   - Click **INS** to set the card to in-service status.
   - Click **OUS** to set the card to out-of-service status.

To install an option card on an OPB3 card

1. Move the mouse pointer over the card.
   A menu will be shown under the mouse pointer.
2. Select **Option Card**.
   The **OPB3 Option Card Setup** screen will be displayed. See **3.60 [1-1] Slot—OPB3 Option Card Setup**.

To access IP-PT port properties

1. Click the **IP Phone Registration** button.

Supported Card Types

KX-NCP500/KX-NCP1000

<table>
<tr><th>Card</th><th>Maximum Quantity</th><th>Card Programming</th></tr>
<tr><td>IPCMPR: IP Convergence Main Processing Card</td><td>1 (fixed)</td><td>3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/ KX-NCP1000/KX-TDE100/ KX-TDE200)/IPCEMPR (for KX-TDE600)</td></tr>
<tr><td>DHLC4: 4-Port Digital Hybrid Extension Card</td><td>KX-NCP500: 1
KX-NCP1000: 1</td><td rowspan="5">3.23 [1-1] Slot—Card Property - Extension Type</td></tr>
<tr><td>DLC8: 8-Port Digital Extension Card</td><td rowspan="4">KX-NCP500: 2
KX-NCP1000: 2</td></tr>
<tr><td>DLC16: 16-Port Digital Extension Card</td></tr>
<tr><td>SLC8: 8-Port Single Line Telephone Extension Card</td></tr>
<tr><td>SLC16: 16-Port Single Line Telephone Extension Card</td></tr>
<tr><td>LCOT4: 4-Port Analogue Trunk Card</td><td>KX-NCP500: 3
KX-NCP1000: 4</td><td>3.29 [1-1] Slot—Card Property - LCO type</td></tr>
</table>

Card	Maximum Quantity	Card Programming
BRI2: 2-Port BRI Card	KX-NCP500: 3 KX-NCP1000: 4	3.32 [1-1] Slot—Card Property - BRI type/PRI type
PRI23: PRI Card (23B channels)	KX-NCP500: 2 KX-NCP1000: 2	
PRI30: PRI Card (30B channels)		
T1: T-1 Trunk Card		3.37 [1-1] Slot—Card Property - T1 type
E1: E-1 Trunk Card		3.40 [1-1] Slot—Card Property - E1 type
OPB3: Optional 3-Slot Base Card	KX-NCP500: 2 KX-NCP1000: 3	3.58 [1-1] Slot—OPB3 Card Property
V-IPEXT32: Virtual 32-Channel VoIP Extension Card	KX-NCP500: 4 KX-NCP1000: 4	3.14 [1-1] Slot—Card Property - Virtual IP Extension
V-SIPEXT32: Virtual 32-Channel SIP Extension Card	KX-NCP500: 4 KX-NCP1000: 4	3.17 [1-1] Slot—Card Property - Virtual SIP Extension
V-IPGW16: Virtual 16-Channel VoIP Gateway Card	KX-NCP500: 2 KX-NCP1000: 2	3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway
V-IPCS4: Virtual 4 IP Cell Station Interface Card	KX-NCP500: 4 KX-NCP1000: 4	3.20 [1-1] Slot—Card Property - Virtual IPCS

For more information on the IPCMPR card, virtual cards and other optional cards, see the following sections in the KX-NCP500/KX-NCP1000 Installation Manual:

→ 1.2.1 Optional Equipment
→ 3.3.1 IPCMPR Card
→ 3.4.1 Virtual Cards

KX-TDE100/KX-TDE200

Card	Maximum Quantity	Card Programming
IPCMPR: IP Convergence Main Processing Card	1 (fixed in Slot 00)	3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/ KX-NCP1000/KX-TDE100/ KX-TDE200)/IPCEMPR (for KX-TDE600)

Card	Maximum Quantity	Card Programming
DHLC8: 8-Port Digital Hybrid Extension Card	KX-TDE100: 6 KX-TDE200: 8	3.23 [1-1] Slot—Card Property - Extension Type
DLC8: 8-Port Digital Extension Card		
DLC16: 16-Port Digital Extension Card		
MSLC16: 16-Port Single Line Telephone Extension with Message Lamp Card		
SLC8: 8-Port Single Line Telephone Extension Card		
SLC16: 16-Port Single Line Telephone Extension Card		
CSLC16: 16-Port Single Line Telephone Extension Card with Caller ID		
MCSLC16*1: 16-Port Single Line Telephone Extension with Caller ID and Message Lamp Card		
MCSLC24*1: 24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card	KX-TDE100: 5 KX-TDE200: 5	
IP-EXT16: 16-Channel VoIP Extension Card	KX-TDE100: 6 KX-TDE200: 8	3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)
CSIF4: 4 Cell Station Interface Card	KX-TDE100: 4 KX-TDE200: 4	None
CSIF8: 8 Cell Station Interface Card		
LCOT4: 4-Port Analogue Trunk Card	KX-TDE100: 6 KX-TDE200: 8	3.29 [1-1] Slot—Card Property - LCO type
LCOT8: 8-Port Analogue Trunk Card		
LCOT16: 16-Port Analogue Trunk Card		
DID8: 8-Port DID Card	KX-TDE100: 6 KX-TDE200: 8	3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)
BRI4: 4-Port BRI Card	KX-TDE100: 6 KX-TDE200: 8	3.32 [1-1] Slot—Card Property - BRI type/PRI type
BRI8: 8-Port BRI Card		
PRI23: PRI Card (23B channels)	KX-TDE100: 4 KX-TDE200: 4	
PRI30: PRI Card (30B channels)		
T1: T-1 Trunk Card		3.37 [1-1] Slot—Card Property - T1 type
E1: E-1 Trunk Card		3.40 [1-1] Slot—Card Property - E1 type
E&M8: 8-Port E & M Trunk Card	KX-TDE100: 6 KX-TDE200: 8	3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Card	Maximum Quantity	Card Programming
IP-GW4: 4-Channel VoIP Gateway Card	KX-TDE100: 4 KX-TDE200: 4	3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)
IP-GW16: 16-Channel VoIP Gateway Card		
OPB3: Optional 3-Slot Base Card	KX-TDE100: 4 KX-TDE200: 4	3.58 [1-1] Slot—OPB3 Card Property
V-IPEXT32: Virtual 32-Channel VoIP Extension Card	KX-TDE100: 4 KX-TDE200: 4	3.14 [1-1] Slot—Card Property - Virtual IP Extension
V-SIPEXT32: Virtual 32-Channel SIP Extension Card	KX-TDE100: 4 KX-TDE200: 4	3.17 [1-1] Slot—Card Property - Virtual SIP Extension
V-IPGW16: Virtual 16-Channel VoIP Gateway Card	KX-TDE100: 2 KX-TDE200: 2	3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway
V-IPCS4: Virtual 4 IP Cell Station Interface Card	KX-TDE100: 4 KX-TDE200: 4	3.20 [1-1] Slot—Card Property - Virtual IPCS

*1 To use MCSLC16 or MCSLC24 cards with a KX-TDE100/KX-TDE200 PBX, the PBX must have an IPCMEC card installed.

For more information on the IPCMPR card, virtual cards and other optional cards, see the following sections in the KX-TDE100/KX-TDE200 Installation Manual:

→ 1.2.1 Optional Equipment
→ 3.3.1 IPCMPR Card
→ 3.4.1 Virtual Cards

KX-TDE600

Card	Maximum Quantity	Card Programming
IPCEMPR: IP Convergence Main Processing Card	1 (fixed in Slot 11)	3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/ KX-NCP1000/KX-TDE100/ KX-TDE200)/IPCEMPR (for KX-TDE600)

Card	Maximum Quantity	Card Programming
DHLC8: 8-Port Digital Hybrid Extension Card	40	3.23 [1-1] Slot—Card Property - Extension Type
DLC8: 8-Port Digital Extension Card		
DLC16: 16-Port Digital Extension Card		
EMSLC16: 16-Port Single Line Telephone Extension with Message Lamp Card		
SLC8: 8-Port Single Line Telephone Extension Card		
ESLC16: 16-Port Single Line Telephone Extension Card		
CSLC16: 16-Port Single Line Telephone Extension Card with Caller ID		
ECSLC24: 24-Port Single Line Telephone Extension Card with Caller ID		
EMSLC24: 24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card		
IP-EXT16: 16-Channel VoIP Extension Card		3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)
CSIF4: 4 Cell Station Interface Card	16	None
CSIF8: 8 Cell Station Interface Card		
ELCOT16: 16-Port Analogue Trunk Card	40	3.29 [1-1] Slot—Card Property - LCO type
DID8: 8-Port DID Card	40	3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)
BRI4: 4-Port BRI Card	40	3.32 [1-1] Slot—Card Property - BRI type/PRI type
BRI8: 8-Port BRI Card		
PRI23: PRI Card (23B channels)	20	
PRI30: PRI Card (30B channels)		
T1: T-1 Trunk Card		3.37 [1-1] Slot—Card Property - T1 type
E1: E-1 Trunk Card		3.40 [1-1] Slot—Card Property - E1 type
E&M8: 8-Port E & M Trunk Card	40	3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Card	Maximum Quantity	Card Programming
IP-GW4: 4-Channel VoIP Gateway Card	40	3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)
IP-GW16: 16-Channel VoIP Gateway Card		
OPB3: Optional 3-Slot Base Card	16	3.58 [1-1] Slot—OPB3 Card Property
EECHO16: 16-Channel Echo Canceller Card	8	None
V-IPEXT32: Virtual 32-Channel VoIP Extension Card	4	3.14 [1-1] Slot—Card Property - Virtual IP Extension
V-SIPEXT32: Virtual 32-Channel SIP Extension Card	4	3.17 [1-1] Slot—Card Property - Virtual SIP Extension
V-IPGW16: Virtual 16-Channel VoIP Gateway Card	2	3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway
V-IPCS4: Virtual 4 IP Cell Station Interface Card	4	3.20 [1-1] Slot—Card Property - Virtual IPCS

For more information on the IPCEMPR card, virtual cards and other optional cards, see the following sections in the KX-TDE600 Installation Manual:

→ 1.2.1 Optional Equipment
→ 3.3.1 IPCEMPR Card
→ 3.4.1 Virtual Cards

3.2 [1-1] Slot—Summary

Summary information is displayed for all cards installed in the PBX.
For the KX-TDE600, when the PBX has more than two shelves, click a tab to select the shelves to view.

Physical Shelf

◆ No.

Indicates the slot number (reference only).

Value Range

Available slot numbers.

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

◆ Card Type

Indicates the type of service card installed in each slot of the physical shelf (reference only). Note that for MPR cards, the PBX model code is displayed in parentheses after the name.

Value Range

Card Type for KX-NCP500/KX-NCP1000:

DHLC4: 4-Port Digital Hybrid Extension Card
DLC8: 8-Port Digital Extension Card
DLC16: 16-Port Digital Extension Card
SLC8: 8-Port Single Line Telephone Extension Card
SLC16: 16-Port Single Line Telephone Extension Card
LCOT4: 4-Port Analogue Trunk Card
BRI2: 2-Port BRI Card
PRI23: PRI Card
PRI30: PRI Card
T1: T-1 Trunk Card
E1: E-1 Trunk Card
OPB3: Optional 3-Slot Base Card
IPCMPR: MPR Card

Card Type for KX-TDE100/KX-TDE200:

DHLC8: 8-Port Digital Hybrid Extension Card
DLC16: 16-Port Digital Extension Card
DLC8: 8-Port Digital Extension Card
MSLC16: 16-Port Single Line Telephone Extension Card with Message Lamp Card
SLC8: 8-Port Single Line Telephone Extension Card

SLC16: 16-Port Single Line Telephone Extension Card
CSLC16: 16-Port Single Line Telephone Extension Card with Caller ID
MCSLC16: 16-Port Single Line Telephone Extension with Caller ID and Message Lamp Card
MCSLC24: 24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card
CSI/F: 8 or 4 Cell Station Interface Card
LCOT16: 16-Port Analogue Trunk Card
LCOT8: 8-Port Analogue Trunk Card
LCOT4: 4-Port Analogue Trunk Card
BRI8: 8-Port BRI Card
BRI4: 4-Port BRI Card
PRI23: PRI Card
PRI30: PRI Card
T1: T-1 Trunk Card
E1: E-1 Trunk Card
E&M8: 8-Port E & M Trunk Card
DID8: 8-Port DID Card
IP-GW4: 4-Channel VoIP Gateway Card
OPB3: Optional 3-Slot Base Card
IP-GW16: 16-Channel VoIP Gateway Card
IP-EXT16: 16-Channel VoIP Extension Card
IPCMPR: MPR Card

Card Type for KX-TDE600:

DHLC8: 8-Port Digital Hybrid Extension Card
DLC16: 16-Port Digital Extension Card
DLC8: 8-Port Digital Extension Card
EMSLC16: 16-Port Single Line Telephone Extension with Message Lamp Card
SLC8: 8-Port Single Line Telephone Extension Card
ESLC16: 16-Port Single Line Telephone Extension Card
CSLC16: 16-Port Single Line Telephone Extension Card with Caller ID
ECSLC24: 24-Port Single Line Telephone Extension Card with Caller ID
EMSLC24: 24-Port Single Line Telephone Extension with Caller ID and Message Lamp Card
CSI/F: 4 or 8 Cell Station Interface Card
ELCOT16: 16-Port Analogue Trunk Card
BRI8: 8-Port BRI Card
BRI4: 4-Port BRI Card
PRI23: PRI Card (23B channels)
PRI30: PRI Card (30B channels)
T1: T-1 Trunk Card
E1: E-1 Trunk Card
E&M8: 8-Port E & M Trunk Card
DID8: 8-Port DID Card
IP-GW4: 4-Channel VoIP Gateway Card
OPB3: Optional 3-Slot Base Card
IP-GW16: 16-Channel VoIP Gateway Card
IP-EXT16: 16-Channel VoIP Extension Card
EECHO16: 16-Channel Echo Canceller Card
IPCEMPR: MPR Card

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot
3.23 [1-1] Slot—Card Property - Extension Type
3.29 [1-1] Slot—Card Property - LCO type
3.32 [1-1] Slot—Card Property - BRI type/PRI type
3.37 [1-1] Slot—Card Property - T1 type
3.40 [1-1] Slot—Card Property - E1 type
3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)
3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)
3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)
3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ Status

Indicates the card status (reference only)
Note that MPR card status is always displayed as "-".

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.
Pre-Install: A card has been added to the slot.
Idle: No card is installed in the slot.

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

◆ Version

Indicates the LPR version of the installed card (reference only).
For IP-EXT cards, both the LPR version and the VoIP version are displayed. The LPR version is shown on the left, and the VoIP version on the right, as follows:
(Example) 1.002 / 1.001

Value Range

Version number

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

IPCMPR Virtual Slot (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR Virtual Slot (for KX-TDE600)

◆ No.

Indicates the slot number (reference only).

Value Range

1–8

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

◆ Slot Type

Indicates the slot type (reference only).

Value Range

Trunk, Extension

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

◆ Card Type

Indicates the type of virtual VoIP card installed in each slot of the virtual shelf (reference only).

Value Range

V-IPEXT32: Virtual 32-Channel VoIP Extension Card
V-SIPEXT32: Virtual 32-Channel SIP Extension Card
V-IPGW16: Virtual 16-Channel VoIP Gateway Card
V-SIPGW16: Virtual 16-Channel SIP Trunk Card
V-IPCS4: Virtual 4 IP Cell Station Interface Card

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.14 [1-1] Slot—Card Property - Virtual IP Extension
3.17 [1-1] Slot—Card Property - Virtual SIP Extension
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway
3.20 [1-1] Slot—Card Property - Virtual IPCS

Feature Guide References

None

◆ Status

Indicates the card status (reference only).

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.
Pre-Install: A card has been added to the slot.
Idle: No card is installed in the slot.

Maintenance Console Location

3.2 [1-1] Slot—Summary

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

3.3 [1-1] Slot—Activation Key

Refreshes and displays information on activation keys provided by activation key files on the SD memory card and pre-installed activation keys of the DSP card.
It is possible to programme the number of provided IP Trunk channels to be used for H.323 and SIP trunks. In the **The number of activated IP-GW** box, type the number of IP Trunk channels to be used for H.323 trunks. The remaining number of IP Trunk channels will be used for SIP trunks.
Similarly, you can programme how many IP softphones can be used through the IP Softphone/IP Proprietary Telephone activation key. In the **The number of activated IP Softphone** box, type the number of IP softphones to be used through the IP Softphone/IP Proprietary Telephone activation key. The remainder is the number of IP-PTs that can be used through the IP Softphone/IP Proprietary Telephone activation key. At default, only IP softphones can be used.

◆ IPCMPR-ID (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR-ID (for KX-TDE600)

Indicates the ID number of the MPR card (reference only).

Value Range

ID number of the MPR card

Maintenance Console Location

3.3 [1-1] Slot—Activation Key

Programming Manual References

None

Feature Guide References

None

◆ Activated Feature

Indicates the type of activation keys (reference only).
Note that the types of activation keys are subject to change without notice. For CA activation keys, refer to the documentation for CA.

Value Range

IP Trunk (ch): IP Trunk Activation Key
IP Proprietary Telephone (ch): IP Proprietary Telephone Activation Key
IP Proprietary Telephone/IP Softphone (ch): IP Softphone/IP Proprietary Telephone Activation Key
SIP Extension (ch): SIP Extension Activation Key
Enhanced Features: Activation Key for Software Upgrade to Enhanced Version
CA Basic (user): Activation Key for CA Basic-Express
CA Pro (user): Activation Key for CA Pro
CA Supervisor (user): Activation Key for CA ICD Group Monitor

Maintenance Console Location

3.3 [1-1] Slot—Activation Key

Programming Manual References

None

Feature Guide References

None

◆ The number of activated feature by—VoIP-DSP Card

Indicates the number of channels provided by the DSP card (reference only).

Value Range

For DSP4/DSP16 card:

IP Trunk (ch): 4
IP Proprietary Telephone (ch): 8

For DSP64 card:

IP Trunk (ch): 16
IP Proprietary Telephone (ch): 32

Maintenance Console Location

3.3 [1-1] Slot—Activation Key

Programming Manual References

None

Feature Guide References

None

◆ The number of activated feature by—Activation Key File in SD Card

Indicates the number of channels (or CA users) provided by activation key files on the SD memory card (reference only).

Value Range

Not applicable.

Maintenance Console Location

3.3 [1-1] Slot—Activation Key

Programming Manual References

None

Feature Guide References

None

◆ The number of activated feature by—Total

Indicates the total number of channels (or CA users) provided by the DSP card and activation key files on the SD memory card (reference only).

Value Range

Not applicable.

Maintenance Console Location

3.3 [1-1] Slot—Activation Key

Programming Manual References

None

Feature Guide References

None

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)

The properties of the MPR card can be specified.

LAN Setting

◆ DHCP Client

Enables the DHCP Client function to assign IP address information automatically to the MPR card.

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

2.4.5 Dynamic Host Configuration Protocol (DHCP) Assignment

◆ MAC Address for IPCMPR Card (for KX-NCP500/KX-NCP1000/KX-TDE100/ KX-TDE200)/MAC Address for IPCEMPR Card (for KX-TDE600)

Indicates the MAC address of the MPR card (reference only).

Value Range

00:00:00:00:00:00–FF:FF:FF:FF:FF:FF

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ IP Address for IPCMPR Card (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IP Address for IPCEMPR Card (for KX-TDE600)

Specifies the IP address of the MPR card. This parameter is only available for entering values when DHCP Client is disabled.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ MAC Address for VoIP-DSP

Indicates the MAC address of the DSP card (reference only).

Value Range

00:00:00:00:00:00–FF:FF:FF:FF:FF:FF

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ IP Address for VoIP-DSP

Specifies the IP address of the DSP card. This parameter is only available for entering values when DHCP Client is disabled.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Subnet Mask

Specifies the subnet mask address of the MPR card. This parameter is only available for entering values when DHCP Client is disabled.

Value Range

0–255.0–255.0–255.0–255 (except 0.0.0.0 and 255.255.255.255)

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Default Gateway

Specifies the IP address of the default gateway for the network. This parameter is only available for entering values when DHCP Client is disabled.

Value Range

0.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Speed/Duplex for Main Port

Specifies the connection mode of the main port. The connection is made in 100Mbps/half duplex when Auto Negotiation fails.

Value Range

Auto Negotiation
100Mbps/full duplex
100Mbps/half duplex
10Mbps/full duplex
10Mbps/half duplex

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Speed/Duplex for Maintenance Port

Specifies the connection mode of the maintenance port. The connection is made in 100Mbps/half duplex when Auto Negotiation fails.

Value Range

Auto Negotiation
100Mbps/full duplex
100Mbps/half duplex
10Mbps/full duplex
10Mbps/half duplex

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ LAN Disconnect Decision Time

Specifies the length of time that the PBX waits before disconnecting LAN connection when no communication via the LAN is detected.

Value Range

1–10 s

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ DHCP Port Number

Specifies the port number used by a DHCP server.

Value Range

1–65535

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

2.4.5 Dynamic Host Configuration Protocol (DHCP) Assignment

◆ DHCP Time Out

Specifies the length of time that the PBX waits to receive IP addressing information from a DHCP server.

Value Range

1–30 s

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

2.4.5 Dynamic Host Configuration Protocol (DHCP) Assignment

VoIP-DSP Option

◆ DSP Card Type

Indicates the type of the installed DSP card (reference only).

Value Range

For KX-NCP series:

None, DSP4, DSP16, DSP64

For KX-TDE series:

None, DSP16, DSP64

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ DSP Card Status

Indicates whether the DSP card is enabled for use (reference only).

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ IPCMPR-SVM TS Circuit Availability (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR-SVM TS Circuit Availability (for KX-TDE600)

Specifies whether the built-in ESVM card of the PBX is enabled or disabled.

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ IP Extension Count of BGM

Specifies how many IP-PTs connected to the MPR card can send out BGM.

Value Range

When using the built-in ESVM card:

0–113

When not using the built-in ESVM card:

0–117

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

3.6 [1-1] Slot—OPB3 Card Property—Card Command

Feature Guide References

1.17.4 Background Music (BGM)

◆ Version

Indicates the programme software file version of the installed DSP card (reference only).

Value Range

Version number

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Compensation Operation for G.711

Enables the use of a jitter buffer feature for voice communications using the G.711 codec.

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Compensation Operation for G.711 FAX

Enables the use of a jitter buffer feature for fax communications using the G.711 codec.

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Compensation Operation for G.729A

Enables the use of a jitter buffer feature for communications using the G.729A codec.

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Min. for Voice

Specifies the minimum size of the jitter buffer for voice communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Max. for Voice

Specifies the maximum size of the jitter buffer for voice communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Init. for Voice

Specifies the initial size of the jitter buffer for voice communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Adaptation Period for Voice

Specifies the length of time that the jitter buffer is applied for voice communications.

Value Range

1000–65530 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Min. for FAX

Specifies the minimum size of the jitter buffer for fax communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Max. for FAX

Specifies the maximum size of the jitter buffer for fax communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Delay Init. for FAX

Specifies the initial size of the jitter buffer for fax communications.

Value Range

0–200 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Jitter Buffer Adaptation Period for FAX

Specifies the length of time that the jitter buffer is applied for fax communications.

Value Range

1000–65530 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ DTMF Detection Level for G.711A

Specifies the level of DTMF detection for the G.711A codec.

Value Range

-45– -12 dB

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ DTMF Detection Level for G.711μ

Specifies the level of DTMF detection for the G.711μ codec.

Value Range

-39– -6 dB

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ CNG Signal Effective Detection Width 1 (ON)

Specifies the length of time that the PBX detects the CNG signal.

Value Range

20–5000 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ CNG Signal Effective Detection Width 2 (OFF)

Specifies the length of time that the PBX waits until another CNG signal is detected.

Value Range

20–5000 ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ CNG Signal Fixation Detection Counter

Specifies the number of times the CNG signal must be detected before the PBX proceeds the fax operation.

Value Range

1–3

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ CED Signal Fixation Detection Time

Specifies the minimum length of time required for the CED (called station identification) signal to be detected by the PBX.

Value Range

50 × n (n=1–100) ms

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX Transmit Level (Network to PBX) A-Law

Specifies the transmission level of G3 fax signals after being converted from T.38 protocol packets, when the codec used is G.711A.

Value Range

-13–2 dB

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX Transmit Level (Network to PBX) µ-Law

Specifies the transmission level of G3 fax signals after being converted from T.38 protocol packets, when the codec used is G.711µ.

Value Range

-7–8 dB

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ DSP CODEC G.711 only (SIP extension)

Specifies whether or not to only use the G.711 codec for SIP extension calls.

Value Range

Enable, Disable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Feature Guide References

None

◆ DSP CODEC G.711 only (IP-GW)

Specifies whether or not to only use the G.711 codec for IP trunk calls.

Value Range

Enable, Disable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Feature Guide References

None

◆ DSP CODEC Priority-1 value only (others)

Specifies whether or not to only use the priority 1 codec set for the following types of calls:

- IP extension calls
- SIP trunk calls

Value Range

Enable, Disable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

3.15 [1-1] Slot—Port Property - Virtual IP Extension
3.21 [1-1] Slot—Port Property - Virtual IPCS

Feature Guide References

None

Port Number

◆ Maintenance Port Number

Specifies the port number used to operate Maintenance Console via the LAN.

Value Range

1–65535

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ LOGIN Port Number

Specifies the port number used to login to the PBX via the LAN.

Value Range

1–65535

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ CTI Port Number

Specifies the port number used to operate CTI via the LAN. Selecting "0" disables the 3rd Party CTI feature.

Value Range

0–65535

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

1.32 Computer Telephony Integration (CTI) Features

◆ Built-in Communication Assistant Server

Specifies the port number for the Communication Assistant (CA) application.

Value Range

1024–65535

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 9—◆ Built-in Communication Assistant
6.10 [4-2-1] Portable Station—Extension Settings—Option 9—◆ Built-in Communication Assistant

Feature Guide References

1.32.3 CA (Communication Assistant)

LAN Status

◆ LINK for Main Port

Indicates the current connection status of the main port (reference only).

Value Range

Disconnect, Connect

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ LINK for Maintenance Port

Indicates the current connection status of the maintenance port (reference only).

Value Range

Disconnect, Connect

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

DHCP

◆ DHCP Client

Indicates the DHCP client function status of the MPR card (reference only).

Value Range

Disable, Enable

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

2.4.5 Dynamic Host Configuration Protocol (DHCP) Assignment

◆ IP Address for IPCMPR Card (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IP Address for IPCEMPR Card (for KX-TDE600)

Indicates the IP address of the MPR card (reference only).

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ IP Address for VoIP-DSP

Indicates the IP address of the DSP card (reference only).

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Subnet Mask

Indicates the subnet mask address of the MPR card (reference only).

Value Range

0–255.0–255.0–255.0–255 (except 0.0.0.0 and 255.255.255.255)

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

◆ Default Gateway

Indicates the IP address of the default gateway for the network (reference only).

Value Range

0.0.0.0–223.255.255.255

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

None

IPCMPR (for KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

◆ Memory Version (KX-TDE series only)

Indicates the hardware version of the IPCMEC card when it is mounted on the MPR card (reference only).

Value Range

None: Not mounted
2: Standard IPCMEC card
3: Optional IPCMEC card (6M)

Maintenance Console Location

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Programming Manual References

None

Feature Guide References

2.3.8 Software Upgrading

3.5 [1-1] Slot—OPB3 Card Property

The properties of the built-in SVM (Simplified Voice Message) and OGM (Outgoing Message) features can be specified. To change the status of the built-in ESVM card, click **Command**.
Only the following parameters can be set. Other parameters on this screen are only applicable for the Optional Base card. See **3.58 [1-1] Slot—OPB3 Card Property** for details.

Note

To reach this screen, move the mouse pointer over the MPR card and click **SVM Property**.

◆ Slot

Indicates the slot type (reference only).

Value Range

Not applicable.

Maintenance Console Location

3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Sub-Slot

Indicates the sub-slot number (reference only).

Value Range

Sub-slot number

Maintenance Console Location

3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Feature Card Type

Indicates the feature type of each sub-slot (reference only).

Value Range

In sub-slot 1–2:

Reserve: No feature is installed.

In sub-slot 3:

ESVM2: Built-in ESVM card is installed.

Maintenance Console Location

3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Status

Indicates the status of the feature type of each slot (reference only).
The sub-slot 3 column offers two ways to open the screen to select the card command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

For sub-slot 1–2:

Not applicable.

For sub-slot 3:

INS: Built-in ESVM card is activated.
OUS: Built-in ESVM card is not activated.

Maintenance Console Location

3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

3.6 [1-1] Slot—OPB3 Card Property—Card Command

Feature Guide References

None

◆ Port Number

Indicates the port number of the built-in ESVM card (reference only).

Value Range
Port number

Maintenance Console Location
3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References
None

Feature Guide References
None

◆ Port Status
Indicates the port status of the built-in ESVM card (reference only).

Value Range
For sub-slot 1–2:
Not applicable.

For sub-slot 3:
INS: The card is activated.
OUS: The card is not activated.

Maintenance Console Location
3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References
None

Feature Guide References
None

◆ SVM Feature
Specifies whether or not to use the ESVM card for the SVM feature. It is possible to use the ESVM card for the SVM feature, as an MSG card (OGM feature), or both.

Value Range
Disable, Enable

Maintenance Console Location
3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

3.58 [1-1] Slot—OPB3 Card Property—◆ SVM Feature

Feature Guide References

1.17.5 Outgoing Message (OGM)
1.17.7 Built-in Simplified Voice Message (SVM)

◆ MSG Feature

Specifies whether or not to use the ESVM card as an MSG card (OGM feature). It is possible to use the ESVM card for the SVM feature, as an MSG card (OGM feature), or both.

Value Range

Disable, Enable

Maintenance Console Location

3.5 [1-1] Slot—OPB3 Card Property

Programming Manual References

3.58 [1-1] Slot—OPB3 Card Property—◆ MSG Feature

Feature Guide References

1.17.5 Outgoing Message (OGM)
1.17.7 Built-in Simplified Voice Message (SVM)

3.6 [1-1] Slot—OPB3 Card Property—Card Command

Commands for the built-in ESVM card can be programmed.

◆ INS

Puts the feature in service.

Value Range

Not applicable.

Maintenance Console Location

3.6 [1-1] Slot—OPB3 Card Property—Card Command

Programming Manual References

None

Feature Guide References

None

◆ OUS

Takes the feature out of service.

Value Range

Not applicable.

Maintenance Console Location

3.6 [1-1] Slot—OPB3 Card Property—Card Command

Programming Manual References

None

Feature Guide References

None

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Various settings can be programmed for each virtual IP Gateway port.
To change the status of virtual IP Gateway ports, click **Command**.

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Programming Manual References

None

Feature Guide References

None

◆ Call Distribution Port Group

Specifies a call distribution port group to which incoming trunk calls are directed through the virtual VoIP gateway port.

Value Range

1–16

Maintenance Console Location

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Programming Manual References

None

Feature Guide References

1.30.2.3 Call Distribution Port Group

3.8 [1-1] Slot—Port Property - Virtual IP Gateway Port—Connection Command

Commands for the virtual IP gateway ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.8 [1-1] Slot—Port Property - Virtual IP Gateway Port—Connection Command

Programming Manual References

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Feature Guide References

None

◆ OUS

Takes the port out of service.

Value Range

Not applicable.

Maintenance Console Location

3.8 [1-1] Slot—Port Property - Virtual IP Gateway Port—Connection Command

Programming Manual References

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port

Feature Guide References

None

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Common settings for all of the V-IPGW cards installed in the Virtual Shelf can be programmed.

Main

◆ Gatekeeper Available

Specifies whether to use a gatekeeper. This setting can only be changed when all V-IPGW cards are set to OUS.

Value Range

Disable, Enable

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Call Signalling Model

Specifies whether to carry out a call control (H.225) process directly between the cards or through a gatekeeper.

Value Range

Direct, GateKeeper

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Gatekeeper Connection Checking Interval (*60s)

Specifies the time between periodic checks of connection to the gatekeeper.

Value Range

0 (disabled), 1–1440

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Primary Gatekeeper IP Address

Specifies the IP address of the primary gatekeeper.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Primary Gatekeeper Port Number

Specifies the port number of the primary gatekeeper.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Secondary Gatekeeper IP Address

Specifies the IP address of the secondary gatekeeper.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Secondary Gatekeeper Port Number

Specifies the port number of the secondary gatekeeper.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ H.225 Port Number

Specifies the port number for the H.225 protocol (call control) in an H.323 protocol suite.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RAS Port Number

Specifies the port number for the H.225 protocol (RAS) in an H.323 protocol suite.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ QSIG Connectionless Tunneling TCP Port Number

Specifies the TCP port number for connectionless tunnelling between gateway devices at different locations in a QSIG network.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ QSIG Connectionless Tunneling UDP Port Number

Specifies the UDP port number for connectionless tunnelling between gateway devices at different locations in a QSIG network.

Value Range

1–65535

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ H.323 Dynamic Port Number

Specifies the starting port number from which 448 contiguous ports are used as dynamic ports.

Value Range

1–65000

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTCP Packet Sending Ability

Specifies whether to enable the PBX to send RTCP packets.

Value Range

Disable, Enable

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTCP Packet Interval

Specifies the length of time until the PBX retries to send RTCP packets when no reply is received.

Value Range

5–60 s

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTP QoS Available

Specifies the type of value to be stored in the ToS field of the packet.

Value Range

ToS, DSCP, HEX

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTP QoS-ToS Priority

Specifies the priority level in the ToS field.

Value Range

0–7

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTP QoS-ToS Type

Specifies the ToS type in the ToS field.

Value Range

Normal, Monetary Cost, Reliability, Throughput, Delay

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTP QoS-DSCP

Specifies the value in the ToS field by a DSCP for DiffServ.

Value Range

0–63

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ RTP QoS-HEX

Specifies the value in the ToS field by a hexadecimal number.

Value Range

00–FF

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Echo Canceller Ability

Specifies the echo canceller ability time.

Value Range

OFF, 48 ms, 128 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Down)

Specifies the DSP Digital Gain for the down voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Up)

Specifies the DSP Digital Gain for the up voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ EC Gain

Specifies the Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ NLP Setting

Specifies the NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ QSIG-CT

Enables a call to be transferred to a destination extension at another PBX in a QSIG network.

Value Range

No, Yes

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.30.4.4 Call Transfer (CT)—by QSIG

◆ QSIG-CF

Enables a call to be forwarded to a destination extension at another PBX in a QSIG network. When using the Centralised VM feature, set this to "No".

Value Range

No, Yes

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

1.30.4.3 Call Forwarding (CF)—by QSIG

◆ Trunk Property

Indicates the networking type of each trunk.

Value Range

Public, Private, VPN

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

Outgoing Call

◆ First-digit Timer (T302-1)

Specifies the length of time within which the first digit of a dial number must be dialled after seizing a virtual IP trunk.

Value Range

5–30 s

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Inter-digit Timer (T302-2)

Specifies the length of time within which subsequent digits of a dial number must be dialled.

Value Range

1–10 s

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Dial End Code

Specifies the delimiter code to be used to signal the end of a dialled number.

Value Range
0–9, #, *

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References
None

Feature Guide References
None

Incoming Call

◆ Voice Activity Detection for G.711

Enables the use of the Voice Activity Detection feature for the G.711 codec. This feature conserves bandwidth by detecting silent periods during a call and suppressing the packets of silence from being sent to the network.

Value Range
Disable, Enable

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References
None

Feature Guide References
None

◆ Voice Codec Priority 1st

Specifies the highest priority codec type. For fax communications, it is necessary to specify **G.711A** or **G.711µ** for this parameter.

Value Range
G.711A, G.711µ, G.729A

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Voice Codec Priority 2nd

Specifies the second highest priority codec type.

Value Range

None, G.711A, G.711μ, G.729A

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Voice Codec Priority 3rd

Specifies the third highest priority codec type.

Value Range

None, G.711A, G.711μ, G.729A

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time for G.711A

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range
10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References
None

Feature Guide References
None

◆ Packet Sampling Time for G.711µ

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range
10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References
None

Feature Guide References
None

◆ Packet Sampling Time for G.729A

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range
10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location
3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References
None

Feature Guide References

None

◆ FAX Detection Ability

Enables the use of the FAX Detection Ability feature. Since fax signals using a codec other than G.711 cannot be received accurately at the destination, this feature automatically switches the codec to G.711 to enable end-to-end fax signal relay over the network.

Value Range

Disable, Enable

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway—Incoming Call—◆ Voice Codec Priority 1st

Feature Guide References

None

◆ DTMF

Specifies the type of DTMF tone to be sent out.

Value Range

Inband, Outband (RFC2833), Outband (H.245)

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ Payload Type

Specifies the payload type for DTMF tones using RFC2833. Programming this parameter is only necessary if **DTMF** is set to **Outband (RFC2833)**.

Value Range

96–127

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX Max Datagram

Specifies the maximum datagram size when using the T.38 protocol.

Value Range

272–512

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX UDPTL Error Correction – Redundancy

Specifies whether to enable the redundancy feature when using the T.38 protocol.

Value Range

Disable, Enable

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX UDPTL Redundancy count for T.30 messages

Specifies the redundancy count for T.30 messages when using the T.38 protocol.

Value Range

0–7

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX UDPTL Redundancy count for data

Specifies the redundancy count for data when using the T.38 protocol.

Value Range

0–3

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T38 FAX Rate Management Method

Specifies the rate management method when using the T.38 protocol.

Value Range

Transferred TCF, Local TCF

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

Timer

◆ T301

Specifies the maximum time that the PBX waits for a reply after making a call.

Value Range

0–18000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T302

Specifies the maximum time allowed between each digit on an incoming call. Applies to overlap receiving.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T303

Specifies the maximum time that the PBX waits for a reply after sending the SETUP (call setting) message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T304

Specifies the maximum time allowed between each digit on an outgoing call. Applies to overlap sending.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T305

Specifies the maximum time that the PBX waits for a reply after sending the DISC (disconnection) message.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

T308

Specifies the maximum time that the PBX waits for a reply after receiving the Release message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

T309

Specifies the length of time after which the PBX tries to disconnect the data link, before disconnecting the call.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

T310

Specifies the maximum time that the PBX waits for a continuance message after receiving the Incoming Call Proceeding message.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T313

Specifies the maximum time that the PBX waits for a reply after sending the Connect message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T316

Specifies the maximum time that the PBX waits for a reply after sending the Restart message.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T318

Specifies the maximum time that the PBX waits for a reply after sending the Resume message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T319

Specifies the maximum time that the PBX waits for a reply after sending the Suspend message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T322

Specifies the maximum time that the PBX waits for a reply after sending the Status enquiry message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T3D3

Specifies the length of time after which the PBX tries to establish L2 in "Permanent" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

◆ T3D9

Specifies the length of time after which the PBX tries to disconnect L2 in "Call by Call" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway

Programming Manual References

None

Feature Guide References

None

3.10 [1-1] Slot—Shelf Property - Virtual IP Gateway—GK Settings

Gatekeeper registration information can be programmed.

◆ Destination Number

Specifies a telephone number to register with a gatekeeper.

Value Range

Max. 30 digits (consisting of 0–9)

Maintenance Console Location

3.10 [1-1] Slot—Shelf Property - Virtual IP Gateway—GK Settings

Programming Manual References

None

Feature Guide References

None

◆ Device Name

Specifies the name of the device for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

3.10 [1-1] Slot—Shelf Property - Virtual IP Gateway—GK Settings

Programming Manual References

None

Feature Guide References

None

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

The settings related to destination gateway devices can be programmed. The following parameters can be specified for a maximum of 100 destination gateway devices.

Main

◆ GW Name

Specifies the name of the destination gateway device for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ GW IP Address

Specifies the IP address of the destination gateway device.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ GW Group

Specifies the number of the gateway group to which the gateway entry belongs. A maximum of 256 gateway groups can be created.

Value Range
1–256, None

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
None

Feature Guide References
None

◆ Connection for IP-GW16
Enables the use of the Voice Activity Detection feature between the V-IPGW and KX-TDE/KX-TDA IP-GW cards.

Value Range
Disable (TDE), Enable (TDA)

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
None

Feature Guide References
None

◆ Protocol
Specifies the type of protocol for connectionless tunnelling between gateway devices at different locations in a QSIG network.

Value Range
TCP, UDP

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
None

Feature Guide References

None

◆ Progress Tone Send Mode

Specifies whether to send call progress tones to the destination. When selecting **External**, call progress tones are audible at the destination.

Value Range

External, Internal

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

Option 1

◆ GW Name

Specifies the name of the destination gateway device for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ IP Codec Priority—1st, 2nd, 3rd

Specifies the priority of the codecs to be used. For fax communications, it is necessary to specify **G.711A** or **G.711Mu** for **1st** priority.

Value Range

For 1st:

G.711A, G.711Mu, G.729A

For 2nd and 3rd:

None, G.711A, G.711Mu, G.729A

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time (G.711A)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time (G.711Mu)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time (G.729A)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

Option 2

◆ GW Name

Specifies the name of the destination gateway device for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

◆ Voice Activity Detection for G.711

Enables the use of the Voice Activity Detection feature for the G.711 codec. This feature conserves bandwidth by detecting silent periods during a call and suppressing the packets of silence from being sent to the network.

Value Range
Disable, Enable

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
None

Feature Guide References
None

◆ FAX Detection Ability

Enables the use of the FAX Detection Ability feature. Since fax signals using a codec other than G.711 cannot be received accurately at the destination, this feature automatically switches the codec to G.711 to enable end-to-end fax signal relay over the network.

Value Range
Disable, Enable

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings—Option 1—◆ IP Codec Priority—1st, 2nd, 3rd

Feature Guide References
None

◆ DTMF

Specifies the method to transport DTMF tones.

Value Range
Inband, Outband (RFC2833), Outband (H.245)

Maintenance Console Location
3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References
None

Feature Guide References

None

◆ Payload Type

Specifies the payload type for DTMF tones using RFC2833. Programming this parameter is only necessary if **DTMF** is set to **Outband (RFC2833)**.

Value Range

96–127

Maintenance Console Location

3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings

Programming Manual References

None

Feature Guide References

None

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

The related settings of the address translation of telephone numbers and IP addresses can be programmed.

◆ Leading Number

Specifies the leading digits in dialled numbers by which to associate calls with the appropriate destination.

Value Range

Max. 30 digits (consisting of 0–9)

Maintenance Console Location

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

Programming Manual References

None

Feature Guide References

None

◆ Remaining Number of Digits

Specifies the number of digits to be dialled following the leading number to access the destination.

Value Range

0–29

Maintenance Console Location

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

Programming Manual References

None

Feature Guide References

None

◆ GW No./GW Group Selection

Specifies the type of destination when making calls: a gateway device or a gateway group.

Value Range

GW Group, GW No.

Maintenance Console Location

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

Programming Manual References

None

Feature Guide References

None

◆ GW Group

Specifies the number of the destination gateway group. This setting is only available when **GW No./GW Group Selection** on this screen is set to **GW Group**.

Value Range

1–256

Maintenance Console Location

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

Programming Manual References

None

Feature Guide References

None

◆ GW No.

Specifies the number of the destination gateway device. This setting is only available when **GW No./GW Group Selection** on this screen is set to **GW No.**.

Value Range

1–100

Maintenance Console Location

3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP

Programming Manual References

None

Feature Guide References

None

3.13 [1-1] Slot—Shelf Property - Virtual IP Gateway—Hunt Pattern

The related settings of hunt patterns can be programmed. The hunt pattern determines how to route incoming calls through virtual IP trunks to the PBX.
A maximum of 32 hunt patterns can be programmed.

Hunt Pattern 1–16

◆ Leading Number

Specifies the leading digits of dialled numbers by which to determine the call distribution port group to direct incoming calls.

Value Range

Max. 30 digits (consisting of 0–9)

Maintenance Console Location

3.13 [1-1] Slot—Shelf Property - Virtual IP Gateway—Hunt Pattern

Programming Manual References

None

Feature Guide References

None

◆ Call Distribution Port Group—1st–16th

Specifies the number of the call distribution port group to which incoming calls are directed in priority.

Value Range

For 1st:
CDPG1–CDPG16

For 2nd–16th:
None, CDPG1–CDPG16

Maintenance Console Location

3.13 [1-1] Slot—Shelf Property - Virtual IP Gateway—Hunt Pattern

Programming Manual References

3.7 [1-1] Slot—Port Property - Virtual IP Gateway Port—◆ Call Distribution Port Group

Feature Guide References

1.30.2.3 Call Distribution Port Group

3.14 [1-1] Slot—Card Property - Virtual IP Extension

The properties of the V-IPEXT card can be specified.

◆ Signalling (PTAP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPEXT card to transmit and receive PTAP (Panasonic Telephony Administration Protocol) data. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1024–65535

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Signalling (MGCP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPEXT card to transmit and receive MGCP (Media Gateway Control Protocol) data. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1024–65535

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Signalling (MGCP) UDP Port No. (IP-PT)

Specifies the UDP port used to transmit and receive MGCP (Media Gateway Control Protocol) data on the IP-PT side. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65535

Maintenance Console Location
3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Voice (RTP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPEXT card to transmit and receive RTP (Realtime Transfer Protocol) data. This must be changed if another network application is using the same port.
For voice communications, the V-IPEXT card uses 128 contiguous UDP ports, starting from the port number specified here.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65024

Maintenance Console Location
3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Voice (RTP) UDP Port No. (IP-PT)

Specifies the UDP port used to transmit and receive RTP (Realtime Transfer Protocol) data on the IP-PT side. This must be changed if another network application is using the same port.
For voice communications, an IP-PT uses 128 contiguous UDP ports, starting from the port number specified here.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65024

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Keep Alive Time-Out

Specifies the length of time that the PBX will continue to consider an IP-PT to be active even if it receives no transmissions from that IP-PT. The PBX constantly confirms the status of IP-PTs. If no communications are received from an IP-PT for the duration specified here, the PBX considers the IP-PT to be unreachable, and sets the port status to **Fault**.
During operation, set between 10 s and 60 s. Settings over 60 s, and **Disable**, are used for debugging purposes, and IP-PTs cannot be guaranteed to function normally in these circumstances. Do not use debugging settings unless instructed to do so.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

Disable, 10–120 s

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ First Resending Time (PTAP)

Specifies the length of time that the PBX waits before starting to resend PTAP (Panasonic Telephony Administration Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

500 × n (n=1–16) ms

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Resending Time Out (PTAP)

Specifies the length of time after which the PBX terminates resending PTAP (Panasonic Telephony Administration Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

150–240 s

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ First Resending Time (MGCP)

Specifies the length of time that the PBX waits before starting to resend MGCP (Media Gateway Control Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

500 × n (n=1–8) ms

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Resending Time Out (MGCP)

Specifies the length of time after which the PBX terminates resending MGCP (Media Gateway Control Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

75–120 s

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Echo Canceller Ability

Specifies the echo canceller ability time.

Value Range

OFF, 48 ms, 128 ms

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Down)

Specifies the DSP Digital Gain for the down voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Up)

Specifies the DSP Digital Gain for the up voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ EC Gain

Specifies the Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ NLP Setting

Specifies the NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ KX-NT500 Parameters—Echo Canceller Ability

Specifies the KX-NT500 Echo Canceller ability.

Value Range

48 ms, 128 ms, OFF

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ KX-NT500 Parameters—DSP Digital Gain (Down)

Specifies the KX-NT500 DSP (From PBX) Gain value.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ KX-NT500 Parameters—DSP Digital Gain (Up)

Specifies the KX-NT500 DSP (To PBX) Gain value.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ KX-NT500 Parameters—EC Gain

Specifies the KX-NT500 Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ KX-NT500 Parameters—NLP Setting

Specifies the KX-NT500 Echo Canceller NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.14 [1-1] Slot—Card Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Various settings can be programmed for each virtual IP extension port.
To change the status of virtual IP extension ports, click **Command**.

IP-PT Registration and De-registration

An IP-PT must be registered to the PBX by programming the PBX and IP-PT before it can be used.
Programming instructions for the PBX are given below.
It is possible to de-register the IP-PT later.

◆ Preparation

Open 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600), and confirm that the IP addresses of the MPR and DSP cards, subnet mask address, and default gateway address are set.

◆ Registration

Follow the steps below to register the IP-PT.

1. Connect the IP-PT to be registered to the network and, if necessary, the power supply.
2. Click **Registration**.
   A dialogue box will appear. Non-registered (available) extension numbers and names are displayed on the left.
3. Highlight numbers and names and click the right arrow to select them for registration. Click **Next**.
4. Click **Next**.
5. If the registration is still in progress, the dialogue box will show "Registration Executing".
   If the registration is successful, the dialogue box will show "Registration Completed". Click **Close**.
   Once the IP-PT is successfully registered, the status of the IP-PT will update to show "Registered".

◆ De-registration

Follow the steps below to de-register the IP-PT.

1. Click **De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "De-registration Succeed".
4. Click **Close**.
   Once the IP-PT is successfully de-registered, the status of the IP-PT will update to show "None".

◆ Forced De-registration

Follow the steps below to forcibly de-register the IP-PT when normal de-registration has been unsuccessful or IP address settings have been changed or deleted only on the IP-PT.

1. Click **Forced De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for forced de-registration. Click **Next**.
   A dialogue box will appear.

3. Click **OK**.
   A dialogue box will appear.
4. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "Forced De-registration Succeed".
5. Click **Close**.
   Once the IP-PT is successfully de-registered, the status of the IP-PT will update to show "None".

Main

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Extension Number

Specifies the extension number of the port.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Extension Name
Specifies the extension name of the port.

Value Range
Max. 20 characters

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Connection
Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:
- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range
INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Status

Indicates whether a certain IP-PT is registered (reference only).

Value Range

None, Registered

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ IP Phone Registration ID (MAC Address)

Specifies the MAC address of the IP-PT.
This parameter can only be modified when **Connection** on this screen is set to **OUS**.

Value Range

00:00:00:00:00:00–FF:FF:FF:FF:FF:FF

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Current IP Address

Indicates the current IP address of the IP-PT (reference only).

Value Range
1.0.0.0–223.255.255.255

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Program Ver.
Indicates the programme software file version of the IP-PT (reference only).

Value Range
Version number

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

Option

◆ Slot
Indicates the slot position (reference only).

Value Range
Slot number

Maintenance Console Location
3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References
None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Extension Number

Specifies the extension number of the port.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Extension Name

Specifies the extension name of the port.

Value Range

Max. 20 characters

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Headset OFF/ON

Turns on or off the use of a headset with the IP-PT.

Value Range

Headset OFF, Headset ON

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Ringing Tone

Selects the dual-tone switching pattern of the ring tone for incoming calls.

Value Range

A: 64 ms (697 Hz), 64 ms (852 Hz)
B: 32 ms (697 Hz), 32 ms (852 Hz)
C: 128 ms (697 Hz), 128 ms (852 Hz)
D: 32 ms (697 Hz), 96 ms (852 Hz)

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ IP Codec Priority

Specifies the codec used for compression and decompression of transmitted data.
Some codecs may become unavailable depending on the value set here, as follows:

– When **G.722** is selected, the priority is **G.722** → **G.711** → **G.729A**.
– When **G.711** is selected, the priority is **G.711** → **G.729A** (**G.722** is unavailable).
– When **G.729A** is selected, both **G.711** and **G.722** are unavailable.

Value Range

G.711, G.729A, G.722

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Packet Sampling Time (G.711/G.722)

Specifies the time interval between measurements (samples) of sound data during a conversation.
The smaller this number, the higher the quality of the transmitted sound.

Value Range

20 ms, 30 ms, 40 ms, 60 ms

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Packet Sampling Time (G.729A)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

20 ms, 30 ms, 40 ms, 60 ms

Maintenance Console Location

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

3.16 [1-1] Slot—Port Property - Virtual IP Extension—Connection Command

Commands for the virtual IP extension ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.16 [1-1] Slot—Port Property - Virtual IP Extension—Connection Command

Programming Manual References

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Feature Guide References

None

◆ OUS

Takes the port out of service.

Value Range

Not applicable.

Maintenance Console Location

3.16 [1-1] Slot—Port Property - Virtual IP Extension—Connection Command

Programming Manual References

3.15 [1-1] Slot—Port Property - Virtual IP Extension

Feature Guide References

None

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

The properties of the virtual SIP Extension card can be specified.

◆ UDP Port No. for SIP Extension Server

Specifies the UDP port number used for the SIP Extension server.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1–65535

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ SIP Location Hold Time Max.

Specifies the maximum length of time that the PBX holds information on the location of SIP Extensions.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

10–3600 s

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ SIP Location Hold Time Min.

Specifies the minimum length of time that the PBX holds information on the location of SIP Extensions.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

10–3600 s

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ SIP Location Hold Time Interval

Specifies the interval time that the PBX waits before starting to hold information on location of SIP Extensions.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1–10 s

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ SIP Session Timer Min.

Specifies the minimum length of time that the PBX waits before disconnecting SIP sessions when no communication is detected.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

90–3600 s

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Echo Canceller Ability

Specifies the echo canceller ability time.

Value Range

OFF, 48 ms, 128 ms

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ DSP Digital Gain (Down)

Specifies the DSP Digital Gain for the down voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ DSP Digital Gain (Up)

Specifies the DSP Digital Gain for the up voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ EC Gain

Specifies the Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ NLP Setting

Specifies the NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ KX-HGT100 Parameters—Echo Canceller Ability

Specifies the KX-HGT100 Echo Canceller ability.

Value Range

48 ms, 128 ms, OFF

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ KX-HGT100 Parameters—DSP Digital Gain (Down)

Specifies the KX-HGT100 DSP (From PBX) Gain value.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ KX-HGT100 Parameters—DSP Digital Gain (Up)

Specifies the KX-HGT100 DSP (To PBX) Gain value.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ KX-HGT100 Parameters—EC Gain

Specifies the KX-HGT100 Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ KX-HGT100 Parameters—NLP Setting

Specifies the KX-HGT100 Echo Canceller NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.17 [1-1] Slot—Card Property - Virtual SIP Extension

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Various settings can be programmed for each virtual SIP extension port.
To change the status of virtual SIP extension ports, click **Command**.

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Extension Number

Specifies the extension number of the port.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Password

Specifies the password used for registering a SIP Extension to the PBX. While it is possible to enter a password manually for each SIP Extension, you can copy ◆ **Extension Number** to ◆ **Password** by clicking the **Copy to** button. This parameter can only be modified when the virtual SIP extension port is set to OUS.

Value Range

3–16 characters (consisting of 0–9, a–z, A–Z)

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Current IP Address

Indicates the current IP address of the SIP Extension (reference only).

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Bearer

Selects the bearer mode. When **Automatic** is selected, the bearer mode is set to **Speech** automatically.

Value Range

Automatic, Speech, Audio

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Packet Sampling Time (G.711/G.722)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Packet Sampling Time (G.729A)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Voice Activity Detection for G.711

Enables the use of the Voice Activity Detection feature for the G.711 codec. This feature conserves bandwidth by detecting silent periods during a call and suppressing the packets of silence from being sent to the network.

Value Range

OFF, ON

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ Voice Activity Detection for G.729A

Enables the use of the Voice Activity Detection feature for the G.729A codec. This feature conserves bandwidth by detecting silent periods during a call and suppressing the packets of silence from being sent to the network.

Value Range

OFF, ON

Maintenance Console Location

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

3.19 [1-1] Slot—Port Property - Virtual SIP Extension Port—Connection Command

Commands for the virtual SIP extension ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.19 [1-1] Slot—Port Property - Virtual SIP Extension Port—Connection Command

Programming Manual References

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ OUS

Takes the port out of service.

Value Range

Not applicable.

Maintenance Console Location

3.19 [1-1] Slot—Port Property - Virtual SIP Extension Port—Connection Command

Programming Manual References

3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

3.20 [1-1] Slot—Card Property - Virtual IPCS

The properties of the V-IPCS card can be specified.

◆ Signalling (PTAP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPCS card to transmit and receive PTAP (Panasonic Telephony Administration Protocol) data. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1024–65535

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Signalling (MGCP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPCS card to transmit and receive MGCP (Media Gateway Control Protocol) data. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

1024–65535

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Signalling (MGCP) UDP Port No. (IP-CS)

Specifies the UDP port used to transmit and receive MGCP (Media Gateway Control Protocol) data on the IP-CS side. This must be changed if another network application is using the same port.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65535

Maintenance Console Location
3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

◆ Voice (RTP) UDP Port No. (Server)

Specifies the UDP port used by the V-IPCS card to transmit and receive RTP (Realtime Transfer Protocol) data. This must be changed if another network application is using the same port.
For voice communications, the V-IPCS card uses 128 contiguous UDP ports, starting from the port number specified here.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65024

Maintenance Console Location
3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

◆ Voice (RTP) UDP Port No. (IP-CS)

Specifies the UDP port used to transmit and receive RTP (Realtime Transfer Protocol) data on the IP-CS side. This must be changed if another network application is using the same port.
For voice communications, an IP-CS uses 128 contiguous UDP ports, starting from the port number specified here.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range
1024–65024

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Keep Alive Time-Out

Specifies the length of time that the PBX will continue to consider an IP-CS to be active even if it receives no transmissions from that IP-CS. The PBX constantly confirms the status of IP-CSs. If no communications are received from an IP-CS for the duration specified here, the PBX considers the IP-CS to be unreachable, and sets the port status to **Fault**.
During operation, set between 10 s and 60 s. Settings over 60 s, and **Disable**, are used for debugging purposes, and IP-CSs cannot be guaranteed to function normally in these circumstances. Do not use debugging settings unless instructed to do so.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

Disable, 10–120 s

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ First Resending Time (PTAP)

Specifies the length of time that the PBX waits before starting to resend PTAP (Panasonic Telephony Administration Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

500 × n (n=1–16) ms

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Resending Time Out (PTAP)

Specifies the length of time after which the PBX terminates resending PTAP (Panasonic Telephony Administration Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

150–240 s

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ First Resending Time (MGCP)

Specifies the length of time that the PBX waits before starting to resend MGCP (Media Gateway Control Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

500 × n (n=1–8) ms

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Resending Time Out (MGCP)

Specifies the length of time after which the PBX terminates resending MGCP (Media Gateway Control Protocol) data.
To change the value displayed here, click **Common Settings** and set the desired value.

Value Range

75–120 s

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Echo Canceller Ability

Specifies the echo canceller ability time.

Value Range

OFF, 48 ms, 128 ms

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ DSP Digital Gain (Down)

Specifies the DSP Digital Gain for the down voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ DSP Digital Gain (Up)

Specifies the DSP Digital Gain for the up voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ EC Gain

Specifies the Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ NLP Setting

Specifies the NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak, Normal, Strong

Maintenance Console Location

3.20 [1-1] Slot—Card Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

3.21 [1-1] Slot—Port Property - Virtual IPCS

Various settings can be programmed for each virtual IP-CS port.
To change the status of virtual IP-CS ports, click **Command**.

IP-CS Registration and De-registration

An IP-CS must be registered to the PBX by programming the PBX and IP-CS before it can be used.
Programming instructions for the PBX are given below.
It is possible to de-register the IP-CS later.

◆ Preparation

Open 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600), and confirm that the IP addresses of the MPR and DSP cards, subnet mask address, and default gateway address are set.

◆ Registration

Follow the steps below to register the IP-CS.

1. Connect the IP-CS to be registered to the network and, if necessary, the power supply.
2. Click **Registration**.
   A dialogue box will appear. Non-registered (available) IP-CSs are displayed on the left.
3. Highlight IP-CSs and click the right arrow to select them for registration. Click **Next**.
4. If the registration is still in progress, the dialogue box will show "Registration Executing".
   If the registration is successful, the dialogue box will show "Registration Completed". Click **Close**.
   Once the IP-CS is successfully registered, the status of the IP-CS will update to show "Registered".

◆ De-registration

Follow the steps below to de-register the IP-CS.

1. Click **De-registration**.
   A dialogue box will appear. Registered IP-CSs are displayed on the left.
2. Highlight IP-CSs and click the right arrow to select them for de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "De-registration Succeed".
4. Click **Close**.
   Once the IP-CS is successfully de-registered, the status of the IP-CS will update to show "None".

◆ Forced De-registration

Follow the steps below to forcibly de-register the IP-CS when normal de-registration has been unsuccessful or IP address settings have been changed or deleted only on the IP-CS.

1. Click **Forced De-registration**.
   A dialogue box will appear. Registered IP-CSs are displayed on the left.
2. Highlight IP-CSs and click the right arrow to select them for forced de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **OK**.
   A dialogue box will appear.

4. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "Forced De-registration Succeed".
5. Click **Close**.
   Once the IP-CS is successfully de-registered, the status of the IP-CS will update to show "None".

Main

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ CS Name

Specifies the CS name of the port.

Value Range

Max. 20 characters

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Status

Indicates whether a certain IP-CS is registered (reference only).

Value Range

None, Registered

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ MAC Address

Indicates the MAC address of the IP-CS (reference only).

Value Range

00:00:00:00:00:00–FF:FF:FF:FF:FF:FF

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Current IP Address

Indicates the current IP address of the IP-CS (reference only).

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Program Ver.

Indicates the programme software file version of the IP-CS (reference only).

Value Range

Version number

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Air Sync Group No

Assigns an Air Synchronisation Group number to the IP-CS.

Value Range

None, 1

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

13.6 [11-5] Air Synchronisation

Feature Guide References

None

Option

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

◆ CS Name
Specifies the CS name of the port.

Value Range
Max. 20 characters

Maintenance Console Location
3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

◆ Connection
Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:
- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range
INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location
3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ IP Codec Priority

Specifies the codec used for compression and decompression of transmitted data.

Value Range

G.711, G.729A

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time (G.711)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range

10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location

3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References

None

Feature Guide References

None

◆ Packet Sampling Time (G.729A)

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.

Value Range
10 ms, 20 ms, 30 ms, 40 ms, 50 ms, 60 ms

Maintenance Console Location
3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

◆ Voice Activity Detection for G.711
Enables the use of the Voice Activity Detection feature for the G.711 codec. This feature conserves bandwidth by detecting silent periods during a call and suppressing the packets of silence from being sent to the network.

Value Range
Disable, Enable

Maintenance Console Location
3.21 [1-1] Slot—Port Property - Virtual IPCS

Programming Manual References
None

Feature Guide References
None

3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command

Commands for the virtual IP-CS ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command

Programming Manual References

3.21 [1-1] Slot—Port Property - Virtual IPCS

Feature Guide References

None

◆ OUS

Takes the port out of service.

Value Range

Not applicable.

Maintenance Console Location

3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command

Programming Manual References

3.21 [1-1] Slot—Port Property - Virtual IPCS

Feature Guide References

None

3.23 [1-1] Slot—Card Property - Extension Type

The property for the extension cards can be specified.

◆ KX-T7250 Transfer/Hold Key Mode

Selects whether the control signals sent by the Transfer and Hold buttons on KX-T7250 PTs are reversed or not.

Value Range

Mode 1: Does not switch the control signals
Mode 2: Switches the control signals

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Pulse Dial Mode

Selects the type of pulse dial transmission appropriate to your area.

Value Range

Normal, Sweden, New Zealand

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Off Hook Time

Specifies the minimum length that a pulse dial sent from an SLT must be for the PBX to recognise it as an off-hook signal.

Value Range

8 × n (n=3–255) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Off Hook Guard Time

Specifies the length of guard time used for off-hook signals from SLTs, to prevent the PBX mistaking them for pulse dials.

Value Range

8 × n (n=12–63) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Pulse Maximum Break Width

Specifies the maximum length of the break signal in a pulse dial.

Value Range

8 × n (n=9–20) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Pulse Minimum Make Width

Specifies the minimum length of the make signal in a pulse dial.

Value Range

8 × n (n=1–5) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Flash Detection

Enables the PBX to detect the flash signal sent when an SLT user presses the hookswitch or the Flash/Recall button.

Value Range

Disable: The PBX disconnects the line to prevent placing the call on hold.
Enable: The PBX places the call on consultation hold.

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

1.13.3 Call Splitting

◆ Flash Timing - Min.

Specifies the minimum length that a signal sent from an SLT must be for the PBX to recognise it as a hookswitch flash signal.

Value Range

8 × n (n=3–63) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ Flash Timing - Range

Specifies the maximum length that a signal sent from an SLT can be for the PBX to recognise it as a hookswitch flash signal.

Value Range

8 × n (n=3–191) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ DTMF-R STD Detection Time

Specifies the minimum length that a DTMF tone must be for the PBX to recognise it as a DTMF tone.

Value Range

2 × n (n=1–31) ms

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ SLT Power Supply (KX-TDE series only)

Selects the voltage that enables an SLT to activate the Message Waiting lamp. When an MCSLC16, MCSLC24, or EMSLC24 card is installed, the value for this setting is fixed at "85 V". This setting is only available for MSLC16 and EMSLC16 cards.

Value Range
85 V, 145 V

Maintenance Console Location
3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References
None

Feature Guide References
1.19.1 Message Waiting

◆ Optional Equipment (KX-TDE series only)
Indicates whether an Extension Caller ID card is mounted on the SLC8 card. (reference only)

Value Range
None, Caller ID

Maintenance Console Location
3.23 [1-1] Slot—Card Property - Extension Type

Installation Manual References
For KX-NCP500/KX-NCP1000:
None
For KX-TDE100/KX-TDE200:
3.6.6 EXT-CID Card (KX-TDA0168)
For KX-TDE600:
3.8.6 EXT-CID Card (KX-TDA0168)

Programming Manual References
None

Feature Guide References
None

◆ APT/SLT Parallel Ring
Enables an SLT connected in parallel to an APT to ring with the APT for calls.

Value Range
Disable, Enable

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

1.11.9 Parallelled Telephone

◆ Hook Threshold PD A-law (KX-TDE series only)

Specifies the current threshold (A-law) for switching from Power Save mode to an active state. Please consult your certified Panasonic dealer for more information.
This setting is only available when an MCSLC16, MCSLC24, or ECSLC24 card is installed.

Value Range

MCSLC16/MCSLC24: 1.5–4.0 mA
ECSLC24: 3.0–4.0 mA

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

◆ Hook Threshold PD μ-law (KX-TDE series only)

Specifies the current threshold (μ-law) for switching from Power Save mode to an active state. Please consult your certified Panasonic dealer for more information.
This setting is only available when an MCSLC16, MCSLC24, or ECSLC24 card is installed.

Value Range

MCSLC16/MCSLC24: 1.5–4.0 mA
ECSLC24: 3.0–4.0 mA

Maintenance Console Location

3.23 [1-1] Slot—Card Property - Extension Type

Programming Manual References

None

Feature Guide References

None

3.24 [1-1] Slot—Port Property - Extension Port

Various settings can be programmed for each extension port.
To change the status of extension ports, click **Command**. To view total numbers of each type of extension connected, click **Port Type View**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port or channel number (reference only).

Value Range

Port or channel number

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

2.1.1 Extension Port Configuration

◆ Port Type

Indicates the port type (reference only).

Value Range

DPT: DPT port (DLC)
SLT: SLT port (SLC/MSLC/CSLC/MCSLC)
S-Hybrid: Super Hybrid port (DHLC)
S-Hybrid(SLT): XDP port of Super Hybrid port (DHLC)
S-Hybrid(S-DPT): Digital XDP port of Super Hybrid port (DHLC)
DPT(S-DPT): Digital XDP port of DPT port (DLC)
IP-EXT: Virtual IP-Extension port (V-IPEXT)
SIP: Virtual SIP Extension port (V-SIPEXT)

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

2.1.1 Extension Port Configuration

◆ Telephone Type

Indicates the connected telephone type (reference only).
The number of all connected telephones and Cell Stations can be viewed by clicking **Port Type View**.

Value Range

DPT (40V): DPT is connected.
APT (15V): APT is connected.
DSS: DSS Console is connected.
VM: VPS is connected.
SLT: SLT is connected (or no telephone is connected to the Super Hybrid or SLT port).
CS: CS is connected.
CS-M: High-density CS is connected with its master port.
CS-S1–3: High-density CS is connected with its slave port.

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

3.26 [1-1] Slot—Port Property - Extension Port—Port Type View

Feature Guide References

2.1.1 Extension Port Configuration

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command as follows:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the PBX.

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Number

Specifies the extension number of the port.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the extension name of the port.

Value Range

Max. 20 characters

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

None

◆ XDP Mode

Turns XDP mode on or off for the port. This setting is only available when **Port Type** on this screen is set to **S-Hybrid**.

Value Range

On: XDP enabled (The main telephone and sub telephone have different extension numbers. This is called XDP Mode.)
Off: XDP disabled (The main telephone and sub telephone both have the main telephone's extension number. This is called Parallel Mode.)

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.11.9 Parallelled Telephone
2.1.1 Extension Port Configuration

◆ Parallel Telephone Ringing

Specifies whether the sub telephone (SLT) rings at the same time as the main telephone (DPT) for an incoming call. This setting is only available when **Port Type** on this screen is set to **S-Hybrid**.

Value Range

Yes, No

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.11.9 Parallelled Telephone

◆ DPT Type—Type

Selects the port type.
To change the port type of an extension port, follow the steps below:

1. Set the status of the extension port to "**OUS**".
2. Change the port type of the extension port, then click **Apply**.
3. Set the status of the extension port to "**INS**".
   When changing the port type of an extension port for which ◆ **Wireless XDP** has been set on the **6.1 [4-1-1] Wired Extension—Extension Settings** screen, the ◆ **Wireless XDP** setting must be deleted first.
   When changing the type of a port for which one or more SDN buttons are set (except when changing between PC Console and Telephone), all SDN buttons customised for that device will be deleted. When you attempt to apply the new settings, a warning message is displayed showing the slot and port number for which SDN buttons will be deleted. If you do not wish to delete SDN buttons for this port, click **Cancel**.

Value Range

Normal: For connecting a DPT or CS
DSS: For connecting a DSS Console (A maximum of 8 [with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200] or 64 [with the KX-TDE600] DSS Consoles can be connected to the PBX.)
VM (DPT): For connecting a Panasonic VPS through DPT Integration
PC Console: For connecting a PC Console (A maximum of 8 PC Consoles can be connected to the PBX.)

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.32.1 Computer Telephony Integration (CTI)

◆ DPT Type—Location No.

Specifies the location number of the connected DSS Console or PC Console. This setting is only available when **DPT Type**—**Type** on this screen is set to **DSS** or **PC Console**.
Note that, depending on system traffic, there may be a limit to the number of PC Consoles that can be supported by a single DLC/DHLC card.
When changing the location number of a DSS Console for which one or more SDN buttons are set, all SDN buttons customised for that device will be deleted. When you attempt to apply the new settings, a warning message is displayed showing the slot and port number for which SDN buttons will be deleted. If you do not wish to delete SDN buttons for this port, click **Cancel**.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

Location number for DSS Console: 1–64
Location number for PC Console: 1–8

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ DPT Type—VM Unit No.

Selects the unit number of the connected VPS. This setting is only available when **DPT Type**—**Type** on this screen is set to **VM (DPT)**.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1, 2

For KX-TDE600:

1–8

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ DPT Type—VM Port No.

Specifies the VM port number for the port. This setting is only available when **DPT Type**—**Type** on this screen is set to **VM (DPT)**.

Value Range

1–12

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ DPT Type—Air Sync Group No

Assigns an Air Synchronisation Group number to the CS. This setting is only available when **DPT Type—Type** on this screen is set to **Normal**.

Value Range

None, 1

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

13.6 [11-5] Air Synchronisation

Feature Guide References

None

◆ Headset OFF/ON

Turns on or off the use of a headset with a DPT. This setting is only available when **Port Type** on this screen is set to **DPT**, **DPT(S-DPT)**, **S-Hybrid**, or **S-Hybrid(S-DPT)**.

Value Range

Headset OFF, Headset ON

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

1.11.4 Headset Operation

◆ Ringing Tone

Selects the dual-tone switching pattern of the ring tone for incoming calls when **Port Type** on this screen is set to **DPT**, **DPT(S-DPT)**, **S-Hybrid**, **S-Hybrid(SLT)**, or **S-Hybrid(S-DPT)**. This setting is not available for the KX-T7200, the KX-T7451, APTs, or SLTs.

Value Range

A: 64 ms (697 Hz), 64 ms (852 Hz)
B: 32 ms (697 Hz), 32 ms (852 Hz)
C: 128 ms (697 Hz), 128 ms (852 Hz)
D: 32 ms (697 Hz), 96 ms (852 Hz)

Maintenance Console Location

3.24 [1-1] Slot—Port Property - Extension Port

Programming Manual References

None

Feature Guide References

None

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Commands for the extension ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

None

3.26 [1-1] Slot—Port Property - Extension Port—Port Type View

Displays the number of connected telephones and Cell Stations (CSs).
This screen can only be accessed in Interactive mode.

◆ Type

Indicates the types of telephone (reference only).

Value Range

New-DPT (KX-DT300 series/KX-T7600 series DPTs), Old-DPT (DPTs other than KX-DT300 series/ KX-T7600 series), APT, SLT, DSS Console, VM, Other, CS, High-density CS, IP-EXT, IP-PT, SIP

Maintenance Console Location

3.26 [1-1] Slot—Port Property - Extension Port—Port Type View

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

None

◆ Total Count

Indicates the total number of each type of telephone and CS connected to the PBX (reference only). CSs are counted on the basis of the number of ports in service plus the number of extension ports to which CSs are connected.

Value Range

Not applicable.

Maintenance Console Location

3.26 [1-1] Slot—Port Property - Extension Port—Port Type View

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port
3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Feature Guide References

None

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

The status of the CSIF ports can be referred to, or set to INS (in-service) or OUS (out-of-service). To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Status

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The Cell Station (CS) is in service.
OUS: The CS is out of service.
Fault: The port is not communicating with the CS.

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

3.28 [1-1] Slot—Port Property - CSI/F Port—Connection Command (KX-TDE series only)

Feature Guide References

None

◆ CS Name

Specifies the name of the CSIF port.

Value Range

Max. 20 characters

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Air Sync Group No

Assigns an Air Synchronisation Group number to the CS.

Value Range

None, 1

Maintenance Console Location

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Programming Manual References

13.6 [11-5] Air Synchronisation

Feature Guide References

None

3.28 [1-1] Slot—Port Property - CSI/F Port—Connection Command (KX-TDE series only)

Commands for the CSIF ports can be programmed.

◆ INS

Puts the Cell Station (CS) in service.

Value Range

Not applicable.

Maintenance Console Location

3.28 [1-1] Slot—Port Property - CSI/F Port—Connection Command (KX-TDE series only)

Programming Manual References

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Feature Guide References

None

◆ OUS

Takes the CS out of service. This enables a temporary non-use of the CS, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.28 [1-1] Slot—Port Property - CSI/F Port—Connection Command (KX-TDE series only)

Programming Manual References

3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)

Feature Guide References

None

3.29 [1-1] Slot—Card Property - LCO type

The properties of the analogue trunk cards can be specified.

◆ Outgoing Guard Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

3–6 s

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ First Dial Timer (CO)

Specifies the minimum time that the PBX waits after seizing a trunk, before sending the dialled digits to the telephone company. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

0.5 × n (n=1–16) s

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ CO Feed Back Tone

Specifies whether the pulse feedback tone is turned on or not. For outgoing trunk calls, audible tones can be heard as the dialled number is sent out, which informs the extension user that the number has been dialled.

Value Range

No, Yes

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Bell Detection—Bell Start Detection Timer

Specifies the minimum length of a bell signal that can be recognised by the PBX as the bell signal sent from the telephone company, before the PBX detects an arriving call.

Value Range

24 × n (n=1–50) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Bell Detection—Bell Off Detection Timer

Specifies the duration of the bell off detection timer. If the PBX receives no bell signal from the telephone company for the length of time specified here, the PBX treats the call as lost.

Value Range

1.0 s–15.0 s

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Pulse / DTMF Dial—DTMF Inter-digit Pause

Specifies the length of the DTMF inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

64 + 16 × n (n=0–11) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Pulse / DTMF Dial—Pulse Inter-digit Pause

Specifies the length of the pulse inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

630 ms, 830 ms, 1030 ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Low Speed Pulse Dial—Pulse % Break

Specifies the % break for a low speed pulse dial. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range

Other, 60 %, 67 %

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

◆ Low Speed Pulse Dial—Break Width

Specifies the maximum length of the break signal in a low speed pulse dial. ◆ **Low Speed Pulse Dial—Pulse % Break** on this screen determines the value that can be specified here.

Value Range

4 × n (n=6–20) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

◆ Low Speed Pulse Dial—Make Width

Specifies the minimum length of the make signal in a low speed pulse dial. ◆ Low Speed Pulse Dial—Pulse % Break on this screen determines the value that can be specified here.

Value Range

4 × n (n=3–15) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

◆ High Speed Pulse Dial—Pulse % Break

Specifies the % break for a high speed pulse dial. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range
Other, 60 %, 67 %

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References
None

◆ High Speed Pulse Dial—Break Width
Specifies the maximum length of the break signal in a high speed pulse dial. ◆ **High Speed Pulse Dial—Pulse % Break** on this screen determines the value that can be specified here.

Value Range
4 × n (n=4–18) ms

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References
None

◆ High Speed Pulse Dial—Make Width
Specifies the minimum length of the make signal in a high speed pulse dial. ◆ **High Speed Pulse Dial—Pulse % Break** on this screen determines the value that can be specified here.

Value Range
4 × n (n=3–15) ms

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

◆ Pulse Type

Selects the type of pulse dial transmission appropriate to your area.

Value Range

Normal, Sweden, New Zealand

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

None

◆ Option Card Equipment—Option 1 and Option 2

Indicates the type of the card that is installed on the LCOT card (reference only).

Value Range

None, Caller ID Card

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port—◆ Caller ID Detection

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID Signalling

Selects the type of Caller ID signalling provided by the telephone company.

Value Range

FSK, FSK (with Visual Caller ID), DTMF

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Max Receive Time

Specifies the maximum number of Caller ID series that are sent from the network.

Value Range

0 (no limit), 1, 2, 3

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (FSK) Carrier Detection

Enables the PBX to detect the carrier when receiving Caller ID. To enable this setting, ◆ **Caller ID—Caller ID Signalling** on this screen should be set to **FSK**.

Value Range

Disable, Enable

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (FSK) END Detection

Selects the method used to detect the end of Caller ID information.

Value Range
Length + Timer, Timer

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
None

Feature Guide References
1.18.1 Caller ID

◆ Caller ID—Caller ID (FSK) Header Examination
Enables the PBX to check the header of received Caller ID information. To enable this setting, ◆ **Caller ID—Caller ID Signalling** on this screen should be set to **FSK**.

Value Range
Disable, Enable

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
None

Feature Guide References
1.18.1 Caller ID

◆ Caller ID—Caller ID (FSK) Detection Start Timer
Specifies the length of time that the PBX waits before attempting to detect Caller ID information, after receiving a call. To enable this setting, ◆ **Caller ID—Caller ID Signalling** on this screen should be set to **FSK**.

Value Range
None, 80 × n (n=1–15) ms

Maintenance Console Location
3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References
None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (FSK) Detection Timer

Specifies the total time required by the PBX to detect Caller ID information. To enable this setting, ◆ **Caller ID—Caller ID Signalling** on this screen should be set to **FSK**.

Value Range

80 × n (n=13–50) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (DTMF) Start Code 1 and Start Code 2

Selects the DTMF code used to detect the beginning of a Caller ID series. Start Code 1 is prior to Start Code 2.

Value Range

None, *, #, A, B, C, D

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (DTMF) Information Start Code

Selects the DTMF code used to detect the beginning of the information segment of a Caller ID series.

Value Range

None, *, #, A, B, C, D

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (DTMF) End Code

Selects the DTMF code used to detect the end of a Caller ID series.

Value Range

None, *, #, A, B, C, D

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID (DTMF) Information Code-PRIVATE, OUT OF AREA, TECHNICAL REASON, UNKNOWN NUMBER, RESTRICTED NUMBER

Specifies the number used to identify each type of information code.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID Header[03]

Selects the type of the 3rd header in a Caller ID signal.

Value Range

DDN, Caller ID

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Pay Tone—Pay Tone Frequency

Selects the frequency of the pay tone appropriate to your telephone company.

Value Range

12kHz, 16kHz

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pay Tone—Pay Tone Gain

Specifies the signal strength of the pay tone.

Value Range

0–31 dB

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pay Tone—Pay Tone Pulse - MIN

Specifies the minimum length that a received pay tone signal must be for the PBX to recognise it as a pay tone signal.

Value Range

8 × n (n=1–250) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pay Tone—Pay Tone Pulse - MAX

Specifies the maximum length that a received pay tone signal can be for the PBX to recognise it as a pay tone signal.

Value Range

None, 8 × n (n=1–250) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pay Tone—Pay Tone Pulse - Interval

Specifies the maximum length of time between pay tone signals.

Value Range

8 × n (n=1–250) ms

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pay Tone—Sending Flash while end talk

Enables the PBX to send a flash signal at the end of call to demand a pay tone signal.

Value Range

Disable, Enable

Maintenance Console Location

3.29 [1-1] Slot—Card Property - LCO type

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

3.30 [1-1] Slot—Port Property - LCO Port

Various settings can be programmed for each analogue trunk port.
To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

3.31 [1-1] Slot—Port Property - LCO Port—Connection Command

Feature Guide References

None

◆ Busy Out Status

Indicates the Busy Out status (reference only).

Value Range

Normal, Busy Out

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.5.4.6 Trunk Busy Out

◆ Dialling Mode

Selects the type of signal used to dial out to the analogue trunk.

Value Range

DTMF, Pulse

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ CPC Signal Detection Time—Outgoing, Incoming

Specifies the length of time required by the PBX to detect a CPC signal on outgoing or incoming trunk calls before disconnecting the line. When **None** is selected here, the line will not be disconnected when a CPC signal is not detected.

Value Range

None, 6.5 ms, 8 × n (n=1–112) ms

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

◆ DTMF Width

Selects the length of the DTMF tone sent to the analogue trunk.

Value Range

80 ms, 160 ms

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

None

◆ Pulse Speed

Selects the speed at which pulse dials are sent to the analogue trunk.

Value Range

Low, High

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

None

◆ Reverse Detection

Selects the type of trunk call for which the reverse signal from the telephone company is detected.

Value Range

Disable: For no trunk call
Outgoing: For outgoing trunk calls only
Both Call: For both outgoing and incoming trunk calls

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.5.4.5 Reverse Circuit

◆ Caller ID Detection

Enables the PBX to detect a Caller ID signal from the analogue trunk.

Value Range

Disable, Enable

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

3.29 [1-1] Slot—Card Property - LCO type

Feature Guide References

1.18.1 Caller ID

◆ Paytone Detection

Enables the PBX to receive a pay tone signal from the telephone company.

Value Range

Disable, Enable

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services

◆ Pause Time

Specifies the length of a pause.

Value Range

1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.5.4.9 Special Carrier Access Code

◆ Flash Time

Specifies the length of a flash signal.

Value Range

None, 16 × n (n=1–255) ms

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.11.7 External Feature Access (EFA)

◆ Disconnect Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

0.5 s, 1.5 s, 2.0 s, 4.0 s, 12.0 s

Maintenance Console Location

3.30 [1-1] Slot—Port Property - LCO Port

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate

3.31 [1-1] Slot—Port Property - LCO Port—Connection Command

Commands for the LCO ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.31 [1-1] Slot—Port Property - LCO Port—Connection Command

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.31 [1-1] Slot—Port Property - LCO Port—Connection Command

Programming Manual References

3.30 [1-1] Slot—Port Property - LCO Port

Feature Guide References

None

3.32 [1-1] Slot—Card Property - BRI type/PRI type

The properties of the BRI or PRI card can be specified.

◆ ISDN CO / QSIG Master / QSIG Slave—T200

Specifies the maximum time that the PBX waits for a reply after sending the L2 command to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T202

Specifies the maximum time that the PBX waits for a reply after resending the request to use an ISDN line as a TIE line.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

◆ ISDN CO / QSIG Master / QSIG Slave—T203

Specifies the length of time to detect no communication status of L2.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T301

Specifies the maximum time that the PBX waits for a reply after making a call to ISDN.

Value Range

0–18000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T302

Specifies the maximum time allowed between each digit on an incoming call. Applies to overlap receiving.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T303

Specifies the maximum time that the PBX waits for a reply after sending the SETUP (call setting) message to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T304

Specifies the maximum time allowed between each digit on an outgoing call. Applies to overlap sending.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T305

Specifies the maximum time that the PBX waits for a reply after sending the DISC (disconnection) message to ISDN.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T308

Specifies the maximum time that the PBX waits for a reply after receiving the Release message from ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T309

Specifies the length of time that the PBX tries to disconnect the data link, before disconnecting the call.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T310

Specifies the maximum time that the PBX waits for a continuance message after receiving the Incoming Call Proceeding message.

Value Range
0–3000 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References
None

◆ ISDN CO / QSIG Master / QSIG Slave—T313
Specifies the maximum time that the PBX waits for a reply after sending the Connect message.

Value Range
0–600 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References
None

◆ ISDN CO / QSIG Master / QSIG Slave—T316
Specifies the maximum time that the PBX waits for a reply after sending the Restart message.

Value Range
0–3000 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T318

Specifies the maximum time that the PBX waits for a reply after sending the Resume message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T319

Specifies the maximum time that the PBX waits for a reply after sending the Suspend message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T322

Specifies the maximum time that the PBX waits for a reply after sending the Status enquiry message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T3D3

Specifies the length of time that the PBX tries to establish L2 in "Permanent" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN CO / QSIG Master / QSIG Slave—T3D9

Specifies the length of time that the PBX tries to disconnect L2 in "Call by Call" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T200

Specifies the maximum time that the PBX waits for a reply after sending the L2 command to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T201

Specifies the maximum time that the PBX waits for a reply after resending the TEI check request to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T203

Specifies the length of time to detect no communication status of L2.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T301

Specifies the maximum time that the PBX waits for a reply after making a call to ISDN.

Value Range

0–18000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T302

Specifies the maximum time allowed between each digit on an incoming call. Applies to overlap receiving.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T303

Specifies the maximum time that the PBX waits for a reply after sending the SETUP (call setting) message to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T304

Specifies the maximum time allowed between each digit on an outgoing call. Applies to overlap sending.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T305

Specifies the maximum time that the PBX waits for a reply after sending the DISC (disconnection) message to ISDN.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T306

Specifies the maximum time that the PBX waits for a reply after sending the DISC (disconnection) message to ISDN. This setting is used when inband tones are supplied.

Value Range
0–3000 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References
None

◆ ISDN Extension—T307
Specifies the maximum time that the PBX maintains a suspended call, before restarting.

Value Range
0–6000 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References
None

◆ ISDN Extension—T308
Specifies the maximum time that the PBX waits for a reply after receiving the Release message from ISDN.

Value Range
0–600 × 100 ms

Maintenance Console Location
3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References
None

Feature Guide References

None

◆ ISDN Extension—T309

Specifies the length of time that the PBX tries to disconnect the data link, before disconnecting the call.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T310

Specifies the maximum time that the PBX waits for a reply after receiving the Incoming Call Proceeding message.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T312

Specifies the maximum time that the PBX waits for a reply after sending the SETUP (call setting) message to ISDN.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T316

Specifies the maximum time that the PBX waits for a reply after sending the Restart message.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T320

Specifies the maximum time that the PBX waits for packet protocol.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T322

Specifies the maximum time that the PBX waits for a reply after sending the Status enquiry message.

Value Range

0–600 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T3D3

Specifies the length of time that the PBX tries to establish L2 in "Permanent" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

◆ ISDN Extension—T3D9

Specifies the length of time that the PBX tries to disconnect L2 in "Call by Call" mode.

Value Range

0–3000 × 100 ms

Maintenance Console Location

3.32 [1-1] Slot—Card Property - BRI type/PRI type

Programming Manual References

None

Feature Guide References

None

3.33 [1-1] Slot—Port Property - BRI Port

Various settings can be programmed for each BRI port.
To change the status of ports, click **Command**.

Main

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY
1.30.4.1 QSIG Standard Features—SUMMARY

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ LLC Information

Enables the PBX to send LLC (Low Level Compatibility) information to the network when an outgoing call is made when the ISDN bearer mode is speech.

Value Range

Disable, Enable

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Status Message

Specifies whether the Status Message is sent to the network.

Value Range

No Transmission: Status Message is not sent.
When Mandatory error detection: Send the Status Message when an error (Mandatory) is detected.
When Option / Mandatory error detection: Send the Status Message when an error (Option or Mandatory) is detected.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Status Receive

Selects what happens to a call when the Status Message from the network does not match the actual status of the call.

Value Range

Ignore: Ignore the Status Message from the network.
Disconnect: Disconnect the call.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

ISDN CO

Parameters for ISDN CO are not applicable for the BRI extension port.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ Subscriber Number

Specifies the number used as the CLIP number.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone.

Value Range
Disable, Enable

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References
None

◆ ISDN Outgoing Call Type
Selects the method used to send dialled digits to the network.

Value Range
En-bloc: The PBX sends all of the dialled digits at once after the extension user completes dialling. The PBX recognises the end of dialling when (1) # is dialled, if programmed, (2) a preprogrammed telephone number is dialled, or (3) the inter-digit timer expires.
Overlap: The PBX sends dialled digits one at a time.

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
3.1 [1-1] Slot
4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Extension Inter-digit
4.18 [2-9] System Options—Option 2—◆ ISDN en Bloc Dial—[#] as End of Dial for en Bloc mode
5.4 [3-1-4] Dialling Plan

Feature Guide References
1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ ISDN Centrex
Enables the use of the telephone company's ISDN Centrex Service features.

Value Range
Disable, Enable

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ BRI Data Link (P-MP) Mode

Assigns one or two TEIs (Terminal Endpoint Identifier) to the BRI CO port. To use the ISDN Hold supplementary service with point-to-multipoint configuration, this parameter should be set to **2-link** in some countries/areas.

Value Range

1-link: One TEI is assigned to the BRI CO port.
2-link: Two TEIs are assigned to the BRI CO port. (Available when ◆ **Access Mode** on the **Network** tab is set to **P-MP**.)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Networking Data Transfer

Enables transmission of extension status data to connected PBXs in a network. This setting is only available when ◆ **Port Type** on this screen has been set to **QSIG-Slave** or **QSIG-Master**.
A maximum of two ports of each BRI card can be assigned to transmit extension status information.

Value Range

No, Yes

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

Section 11 [9] Private Network

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

ISDN Extension

Parameters for ISDN Extension are not applicable for BRI ports assigned as CO ports.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

◆ Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

1.21.1.11 ISDN Extension

◆ ISDN TE Power

Enables the PBX to supply power to the ISDN TE (Terminal Equipment). This setting is only available when **Port Type** on this screen is set to **Extension**.

Value Range

Disable, Enable

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

◆ Ring Mode (ISDN MSN Last No. 0 or 00)

Selects the ring mode when receiving an incoming call with an MSN ending with "0" or "00". This setting is only available when **Port Type** on this screen is set to **Extension**.

Value Range

Ring All Extension for MSN: Ring all ISDN extensions that are addressed with MSN.
Ring an Extension for MSN: Ring only one of the ISDN extensions that are addressed with MSN.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

◆ ISDN Extension Progress Tone

Enables the PBX to send call progress tones to the ISDN extension. This setting is only available when **Port Type** on this screen is set to **Extension**.

Value Range

Disable, Enable

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

Network

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.

OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ Network Type

Selects the network type of the port.

Value Range

0–56
(2 UK (Domestic), 5 Netherlands, 6 SwissNET2, 7 SwissNET3, 8 Euro ISDN (Standard), 14 France (Domestic), 19 Finland, 20 Norway, 27 Australia, 51 US National ISDN 2)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ L1 Mode

Selects the active mode of L1 (Layer 1) on the BRI port.

Value Range

Call, Permanent

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ L2 Mode

Selects the active mode of L2 (Layer 2) on the BRI port.

Value Range

Call, Permanent

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ Access Mode

Selects the configuration of the BRI port.

Value Range

P-P: Point-to-Point
P-MP: Point-to-multipoint

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ TEI Mode

Specifies the TEI mode assigned to the BRI port.

Value Range

Automatic, Fix 0–Fix 63

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

Network Numbering Plan

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.

OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ Trunk Property

Selects the trunk property of the port.

Value Range

Public: Public network
VPN: Virtual Private Network

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

◆ Calling Party number—Numbering Plan ID—Public, Private

Selects the numbering plan ID that applies to outgoing trunk calls routed through public and private networks.

Value Range

Unknown, ISDN-Telephony, National Standard, Private

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Calling Party number—Type of Number—Public, Private

Selects the type of number that applies to outgoing trunk calls routed through public or private networks.

Value Range

Unknown, International, National, Network, Subscriber

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Called Party number—Numbering Plan ID—Public, Private

Selects the numbering plan ID that applies to incoming trunk calls routed through public and private networks.

Value Range

Unknown, ISDN-Telephony, National Standard, Private

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Called Party number—Type of Number—Public, Private

Selects the type of number that applies to incoming trunk calls routed through public and private networks.

Value Range

Unknown, International, National, Network, Subscriber

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

Supplementary Service

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References
None

Port Type
Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range
CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References
None

Connection
Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:
- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range
INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY

Specifies whether each ISDN or QSIG supplementary service is used.
When using the Centralised VM feature, set CF (Rerouting) to "No".

Value Range

For COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E:
No, Yes

For 3PTY:
No, Yes-3Pty

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.21.1.3 Advice of Charge (AOC)
1.21.1.5 Call Forwarding (CF)—by ISDN (P-P)
1.21.1.7 Call Transfer (CT)—by ISDN
1.21.1.8 Three-party Conference (3PTY)—by ISDN
1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)
1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG
1.30.4.3 Call Forwarding (CF)—by QSIG
1.30.4.4 Call Transfer (CT)—by QSIG
1.30.4.5 Completion of Calls to Busy Subscriber (CCBS)—by QSIG

CCBS Option

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range
Shelf number

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References
None

◆ Slot
Indicates the slot position (reference only).

Value Range
Slot number

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References
None

◆ Port
Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References
None

Feature Guide References

None

◆ Port Type

Selects the port type.
Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX. ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Feature Guide References

None

◆ CCBS Type

Selects the type of the call from the network initiated by the CCBS (Completion of Calls to Busy Subscriber) feature, from which the specified number of digits are deleted.
◆ **CCBS Delete Digits** on this screen specifies the number of digits to delete from the received number.

Value Range

ALL, Unknown, International, National, Network specific, Subscriber, Abbreviated

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)

◆ CCBS Delete Digits

Specifies the number of digits to delete from the received number when receiving a call of the specified type initiated by the CCBS feature from the network. ◆ **CCBS Type** on this screen specifies the applicable type of call.

Value Range

0–15

Maintenance Console Location

3.33 [1-1] Slot—Port Property - BRI Port

Programming Manual References

None

Feature Guide References

1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Commands for the BRI ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.34 [1-1] Slot—Port Property - BRI Port—Connection Command

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

None

3.35 [1-1] Slot—Port Property - PRI Port

Various settings can be programmed for each PRI port.

Main

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY
1.30.4.1 QSIG Standard Features—SUMMARY

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Feature Guide References

None

◆ Status Message

Specifies whether the Status Message is sent to the network.

Value Range

No Transmission: Status Message is not sent.
When error detection (Mandatory): Send the Status Message when an error (Mandatory) is detected.
When error detection (Option / Mandatory): Send the Status Message when an error (Option or Mandatory) is detected.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Status Receive

Selects what happens to a call when the Status Message from the network does not match the actual status of the call.

Value Range

Ignore: Ignore the Status Message from the network.
Disconnect: Disconnect the call.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ CRC4 Mode

Enables the use of CRC4 for error checking. CRC (Cyclic Redundancy Check) is an error checking control technique that uses a specific binary prime divisor that results in a unique remainder. It is usually a 16- to 32-bit character. (Assignable only when using the PRI30 card.)

Value Range

Disable, Enable

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Line Coding

Selects the line coding type of the PRI PCM (Pulse Code Modulation) for the port. This setting is only available when using the PRI23 card.

Value Range

B8ZS, AMI

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Frame Sequence

Selects the type of frame sequence for the port. This setting is only available when using the PRI23 card.

Value Range

Extend Multi frame (ESF), 4-Frame Multi frame (F4), 12-Frame Multi frame (F12)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

CO Setting

CO Setting parameters are not applicable to ports assigned as **Extension** in ◆ **Port Type**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Feature Guide References

None

◆ Subscriber Number

Specifies the number used as the CLIP number.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ ISDN Outgoing Call Type

Selects the method used to send dialled digits to the network.

Value Range

En-bloc: The PBX sends all of the dialled digits at once after the extension user completes dialling. The PBX recognises the end of dialling when (1) # is dialled, if programmed, (2) a preprogrammed telephone number is dialled, or (3) the inter-digit timer expires.
Overlap: The PBX sends dialled digits one at a time.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

3.1 [1-1] Slot
4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Extension Inter-digit
4.18 [2-9] System Options—Option 2—◆ ISDN en Bloc Dial—[#] as End of Dial for en Bloc mode
5.4 [3-1-4] Dialling Plan

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ ISDN Centrex

Enables the use of the telephone company's ISDN Centrex Service features.

Value Range

Disable, Enable

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ Networking Data Transfer

Enables transmission of extension status data to connected PBXs in a network. This setting is only available when ◆ **Port Type** on this screen has been set to **QSIG-Slave** or **QSIG-Master**.

Value Range

No, Yes

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

Section 11 [9] Private Network

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Loopback Test started by Network

Enables a loopback test started from the network side, to be performed on the PRI23 card.

Note

The version of the PRI23 card must be 2.000 or later.

Value Range

Disable, Enable

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

Network Loopback Test

Feature Guide References

None

Extension Setting

Extension Setting parameters are applicable only for the PRI extension port.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the type of the port.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Feature Guide References

None

◆ Ring Mode (ISDN MSN Last No. 0 or 00)

Selects the ring mode when receiving an incoming call with an MSN ending with "0" or "00".

Value Range

Ring All Extension for MSN: Ring all ISDN extensions that are addressed with MSN.
Ring AN Extension for MSN: Ring only one of the ISDN extensions that are addressed with MSN.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.11 ISDN Extension

Network Configuration

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Feature Guide References

None

◆ Network Type

Selects the network type of the port.

Value Range

0–56
(2 UK (Domestic), 5 Netherlands, 6 SwissNET2, 7 SwissNET3, 8 Euro ISDN (Standard), 14 France (Domestic), 19 Finland, 20 Norway, 27 Australia, 51 US National ISDN 2)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

Network Numbering Plan

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Trunk Property

Selects the trunk property of the port.

Value Range

Public: Public network
VPN: Virtual Private Network

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

◆ Calling Party Number—Numbering Plan ID—Public, Private

Selects the numbering plan ID that applies to outgoing trunk calls routed through public and private networks.

Value Range

Unknown, ISDN-Telephony, National Standard, Private

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Calling Party Number—Type of Number—Public, Private

Selects the type of number that applies to outgoing trunk calls routed through public or private networks.

Value Range
Unknown, International, National, Network, Subscriber

Maintenance Console Location
3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References
None

Feature Guide References
None

◆ Called Party Number—Numbering Plan ID—Public, Private
Selects the numbering plan ID that applies to incoming trunk calls routed through public and private networks.

Value Range
Unknown, ISDN-Telephony, National Standard, Private

Maintenance Console Location
3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References
None

Feature Guide References
None

◆ Called Party Number—Type of Number—Public, Private
Selects the type of number that applies to incoming trunk calls routed through public and private networks.

Value Range
Unknown, International, National, Network, Subscriber

Maintenance Console Location
3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References
None

Feature Guide References

None

Supplementary Service

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Port Type

Selects the port type.

Note

- Each ISDN connection in a QSIG network must have a master port on one PBX and a slave port on another PBX.
- ISDN extensions can belong to an incoming call distribution group or idle extension hunting group. In this case, an MSN can be assigned.

Value Range

CO: For connecting to public network
Extension: For connecting to extension
QSIG-Slave: For connecting to private network (slave port)
QSIG-Master: For connecting to private network (master port)

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

None

◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Specifies whether each ISDN or QSIG supplementary service is used.
The available services depend on the setting of ◆ **Port Type** on this screen.
When using the Centralised VM feature, set CF (Rerouting) to "No".

Value Range

For COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911:
No, Yes

For 3PTY:
No, Yes-3Pty

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.21.1.3 Advice of Charge (AOC)
1.21.1.5 Call Forwarding (CF)—by ISDN (P-P)
1.21.1.7 Call Transfer (CT)—by ISDN
1.21.1.8 Three-party Conference (3PTY)—by ISDN
1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)
1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG
1.30.4.3 Call Forwarding (CF)—by QSIG
1.30.4.4 Call Transfer (CT)—by QSIG
1.30.4.5 Completion of Calls to Busy Subscriber (CCBS)—by QSIG

◆ CCBS Type

Selects the type of call from the network initiated by the CCBS (Completion of Calls to Busy Subscriber) feature, from which the specified number of digits are deleted.
◆ **CCBS Delete Digits** on this screen specifies the number of digits to delete from the received number.

Value Range

ALL, Unknown, International, National, Network specific, Subscriber, Abbreviated

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)

◆ CCBS Delete Digits

Specifies the number of digits to delete from the received number when receiving a call of the specified type initiated by the CCBS feature from the network. ◆ **CCBS Type** on this screen specifies the applicable type of call.

Value Range

0–15

Maintenance Console Location

3.35 [1-1] Slot—Port Property - PRI Port

Programming Manual References

None

Feature Guide References

1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Commands for the PRI ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.36 [1-1] Slot—Port Property - PRI Port—Connection Command

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port

Feature Guide References

None

3.37 [1-1] Slot—Card Property - T1 type

The properties of the T1 card can be specified.

◆ Line Coding

Selects the line coding type of T1 PCM (Pulse Code Modulation) used.

Value Range

B8ZS, AMI

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Frame Sequence

Selects the type of frame sequence used for communications.

Value Range

D4, ESF

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ ESF Frame Sequence

Selects the values for C-bit and D-bit. To enable this setting, ◆ **Frame Sequence** on this screen should be set to **ESF**.

Value Range

"C=A, D=B; "C=0, D=0; "C=0, D=1; "C=1, D=0; "C=1, D=1

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ LIU Send Option

Selects the transmitting level (Transmit Pulse Amplitude) of LIU.

Value Range

Mode-1–Mode-8

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ LIU Receive Option

Selects the receiving level (Receive Equalisation) of LIU.

Value Range

Automatic, 6 dB, 12 dB, 18 dB, 24 dB

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ First Dial Timer (CO)

Specifies the minimum time that the PBX waits after seizing a trunk, before sending the dialled digits to the telephone company. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

0.5 × n (n=1–16) s

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ First Dial Timer (DDI/DID/TIE)

Specifies the minimum time that the PBX waits after seizing a DDI/DID or TIE line, before sending the dialled digits to the telephone company or to another PBX. This allows the telephone company or the other PBX to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Answer Detection Timer

Specifies the length of time required by the PBX to recognise the answer signal. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Wink Signal Width

Specifies the length of a wink signal.

Value Range

32 × n (n=4–9) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Inter-digit Pause

Specifies the length of the DTMF inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

64 + 16 × n (n=0–11) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Transmit

Specifies the volume of the DTMF tone to be transmitted.

Value Range

3-n (n=0–15) dB

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Receive

Specifies the volume of the DTMF tone to be received.

Value Range

n-42–0 (n=0–31) dB

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse % Break

Specifies the % break for pulse digits. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range

60 %, 67 %

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Type

Selects the type of pulse dial transmission appropriate to your area.

Value Range

Normal, Sweden, New Zealand

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Inter-digit Pause

Specifies the length of the pulse inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

630 ms, 830 ms, 1030 ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—CO Feed Back Tone

Specifies whether the pulse feedback tone is turned on or not. For outgoing trunk calls, audible tones can be heard as the dialled number is sent out, which informs the extension user that the number has been dialled.

Value Range
No, Yes

Maintenance Console Location
3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References
None

Feature Guide References
None

◆ Pulse Dial—Maximum BREAK Width
Specifies the maximum length of the break signal in a pulse dial.

Value Range
8 × n (n=9–20) ms

Maintenance Console Location
3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References
None

Feature Guide References
None

◆ Pulse Dial—Minimum MAKE Width
Specifies the minimum length of the make signal in a pulse dial.

Value Range
8 × n (n=1–5) ms

Maintenance Console Location
3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References
None

Feature Guide References

None

◆ Flash—Flash Signal Detection (OPX)

Enables the PBX to detect hookswitch flash signals from an SLT connected to an OPX.

Value Range

Disable, Enable

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Minimum BREAK Width (OPX)

Specifies the minimum length of the break signal in a flash signal from an SLT connected to an OPX.

Value Range

8 × n (n=3–63) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Width (OPX)

Specifies the maximum length of a flash signal sent from an SLT connected to an OPX that the PBX can recognise as a hookswitch flash signal.

Value Range

8 × n (n=3–191) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Signal Detection (TIE)

Enables the PBX to detect a hookswitch flash signal sent from a TIE line.

Value Range

Disable, Enable

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Minimum BREAK Width (TIE)

Specifies the minimum length of the break signal in a flash signal sent from a TIE line.

Value Range

8 × n (n=3–63) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Width (TIE)

Specifies the maximum length of a flash signal received from a TIE line that the PBX can recognise as a hookswitch flash signal.

Value Range

8 × n (n=3–191) ms

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

None

◆ Caller ID—Caller ID Start Code

Selects the DTMF code used to detect the beginning of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID Information End Code

Selects the delimiter used to separate multiple parameters in a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID End Code

Selects the DTMF code used to detect the end of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.37 [1-1] Slot—Card Property - T1 type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

3.38 [1-1] Slot—Port Property - T1 Port

Various settings can be programmed for each T1 channel.
To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ CH

Indicates the channel number (reference only).

Value Range

Channel number

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the channel status (reference only).
This column offers two ways to open the screen to select the channel command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The channel is in service.
OUS: The channel is out of service.
Fault: The channel is not communicating with the network.

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Subscriber Number

Specifies the number used as the CLIP number.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ CO Dial Mode

Selects the type of signal used to dial out to a trunk.

Value Range

DTMF, Pulse

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ Channel Type

Selects the channel type.

Value Range

Undefined: Not assigned
GCOT: Ground Start Central Office
LCOT: Loop Start Central Office
DDI/DID: Direct Dialling In/Direct Inward Dialling
TIE: TIE Line
OPX: Off Premise Extension

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.23.1 T1 Line Service

◆ Trunk Property

Selects the trunk property of the TIE channel.

Value Range

Public: Use the DIL/DDI/DID method to distribute incoming trunk calls.

Private: Use the TIE line service between two or more PBXs.

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY
1.30.1 TIE Line Service

◆ CPC Signal Detection (DID)—Outgoing, Incoming

Specifies the length of time required by the PBX to detect a CPC signal on outgoing or incoming trunk calls before disconnecting the line. When **None** is selected here, the line will not be disconnected when a CPC signal is not detected.
This setting is only available when **Channel Type** on this screen is set to **DDI/DID**.

Value Range

None, 80 × n (n=2–75) ms

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

◆ CPC Signal Detection (LCO/GCO)—Outgoing, Incoming

Specifies the length of time required by the PBX to detect a CPC signal on outgoing or incoming trunk calls before disconnecting the line. When **None** is selected here, the line will not be disconnected when a CPC signal is not detected.
This setting is only available when **Channel Type** on this screen is set to **GCOT** or **LCOT**.

Value Range

None, 8 × n (n=2–112) ms

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

◆ DTMF Width

Selects the length of the DTMF tone sent to the T1 channel.

Value Range

80 ms, 160 ms

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ CO Pulse Speed

Selects the speed at which pulse dials are sent to the T1 channel.

Value Range

10 pulse/s, 20 pulse/s

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ Wink Signal Time-Out

Specifies the length of time that the PBX waits to receive a wink signal after seizing a trunk. If a wink signal is not received before this timer expires, the trunk is released.

Value Range
64 × n (n=1–128) ms

Maintenance Console Location
3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References
None

Feature Guide References
None

◆ Start Signal Type
Selects the type of the start signal.

Value Range
Immediate: Sends the dialled digits to the trunk when the First Dial Timer expires.
Wink: Sends the dialled digits to the trunk when the wink signal is received.

Maintenance Console Location
3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References
None

Feature Guide References
None

◆ Sending Caller ID to TIE
Specifies whether Caller ID information is sent when the channel type is TIE.

Value Range
Yes, No

Maintenance Console Location
3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References
None

Feature Guide References

None

◆ Receiving Caller ID from TIE

Specifies whether Caller ID information is received when the channel type is TIE.

Value Range

Yes, No

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone. This setting is only available when **Channel Type** on this screen is set to **DDI/DID**.

Value Range

Disable, Enable

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Dial Tone to Extension

Enables the PBX to send a dial tone to an extension making a call when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

None

◆ Pause Time

Specifies the length of a pause.

Value Range

1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.5.4.9 Special Carrier Access Code

◆ Flash Time

Specifies the length of a flash signal.

Value Range

None, 16 × n (n=1–255) ms

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.11.7 External Feature Access (EFA)

◆ Disconnect Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

0.5 s, 1.5 s, 2.0 s, 4.0 s, 12.0 s

Maintenance Console Location

3.38 [1-1] Slot—Port Property - T1 Port

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate

3.39 [1-1] Slot—Port Property - T1 Port—Connection Command

Commands for the T1 channels can be programmed.

◆ INS

Puts the channel in service.

Value Range

Not applicable.

Maintenance Console Location

3.39 [1-1] Slot—Port Property - T1 Port—Connection Command

Programming Manual References

3.38 [1-1] Slot—Port Property - T1 Port

Feature Guide References

None

◆ OUS

Takes the channel out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.39 [1-1] Slot—Port Property - T1 Port—Connection Command

Programming Manual References

3.38 [1-1] Slot—Port Property - T1 Port

Feature Guide References

None

3.40 [1-1] Slot—Card Property - E1 type

The properties of the E1 card can be specified.
To adjust related settings, click **Line Signal Setting**, **MFC-R2 Setting 1**, and **MFC-R2 Setting 2**.

◆ Line Coding

Selects the line coding type of E1 PCM (Pulse Code Modulation) for the E1 card.

Value Range

HDB3, AMI

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Frame Sequence

Selects the type of frame sequence for the E1 card.

Value Range

PCM30, PCM30-CRC

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Frame Option

Selects the value for C-bit and D-bit.

Value Range

"C=A, D=B; "C=0, D=0; "C=0, D=1; "C=1, D=0; "C=1, D=1

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ First Dial Timer (DDI/DID/TIE)

Specifies the minimum time that the PBX waits after seizing a DDI/DID or TIE line, before sending the dialled digits to the telephone company or to another PBX. This allows the telephone company or the other PBX to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Answer Detection Timer

Specifies the length of time required by the PBX to recognise the answer signal. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Seizure ACK Wait Timer

Specifies the length of time that the PBX waits for the seizure ACK signal.

Value Range

0.5 × n (n=1–20) s

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ LIU Send Option

Indicates the transmitting level (Transmit Pulse Amplitude) of LIU (reference only).

Value Range

Mode 1–Mode 8

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ LIU Receive Option

Selects the receiving level (Receive Equalisation) of LIU.

Value Range

Automatic, 6 dB, 12 dB, 18 dB, 24 dB

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ RAI Signal Detection Mode

Selects the RAI signal detection mode.

Value Range

Type 1, Type 2

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Inter-digit Pause

Specifies the length of the DTMF inter-digit pause.

Value Range

64 + 16 × n (n=0–11) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse % Break

Specifies the % break for pulse digits. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range

60 %, 67 %

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Type

Selects the type of pulse dial transmission appropriate to your area.

Value Range

Normal, Sweden, New Zealand

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Inter-digit Pause

Specifies the length of the pulse inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

630 ms, 830 ms, 1030 ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—CO Feed Back Tone

Specifies whether the pulse feedback tone is turned on or not. For outgoing trunk calls, audible tones can be heard as the dialled number is sent out, which informs the extension user that the number has been dialled.

Value Range

No, Yes

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Maximum BREAK Width

Specifies the maximum length of the break signal in a pulse dial.

Value Range

8 × n (n=9–20) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Minimum MAKE Width

Specifies the minimum length of the make signal in a pulse dial.

Value Range

8 × n (n=1–5) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Detection

Enables the PBX to detect a hookswitch flash signal sent from an E1 line.

Value Range

Disable, Enable

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Minimum BREAK Width

Specifies the minimum length of the break signal in a flash signal sent from an E1 line.

Value Range

8 × n (n=3–63) ms

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Width

Specifies the maximum length of a flash signal sent from an E1 line that the PBX can recognise as a hookswitch flash signal.

Value Range
8 × n (n=3–191) ms

Maintenance Console Location
3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References
None

Feature Guide References
None

◆ Caller ID—Caller ID Start Code
Selects the DTMF code used to detect the beginning of a Caller ID series.

Value Range
*, #, A–D

Maintenance Console Location
3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References
None

Feature Guide References
1.18.1 Caller ID

◆ Caller ID—Caller ID Information End Code
Selects the delimiter used to separate multiple parameters in a Caller ID series.

Value Range
*, #, A–D

Maintenance Console Location
3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References
None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID End Code

Selects the DTMF code used to detect the end of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.40 [1-1] Slot—Card Property - E1 type

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

◆ DR2 Setting Type

Selects the control type of the DR2 (Digital System R2) signal.

Value Range

Normal, Option-1, Option-3

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Inter-digit Timer

Specifies the pseudo-answer time. This setting is available only when **Option-1** or **Option-3** is selected in ◆ **DR2 Setting Type** on this screen.

Value Range

3–15

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Bit Position for Dial Pulse

Selects the position of the pulse dial control bit in a DR2 signal.

Value Range

A-bit, B-bit

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Bit Position for Clear Back

Selects the position of the clear-back signal control bit in a DR2 signal.

Value Range

A-bit, B-bit, A&B-bit

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Forced Release

Enables the PBX to send a forced release signal.

Value Range

Disable, Enable

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Forced Release Pattern

Selects the bit pattern for a forced release signal.

Value Range

A=0/B=0, A=0/B=1, A=1/B=0, A=1/B=1

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ E&M Signalling Type

Selects the control bit of an E & M signal.

Value Range

Type-1:A bit=0, Type-2:A bit=1, Type-3:B bit=0, Type-4:B bit=1, "Type-5:A bit=1,B bit=1

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Wink Signal Width

Specifies the length of a wink signal.

Value Range

32 × n (n=4–9) ms

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ E&M-P Pulse Length—Seizure

Specifies the length of a seizure signal.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ E&M-P Pulse Length—Answer

Specifies the length of an answer signal.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ E&M-P Pulse Length—Clear

Specifies the length of a clear signal.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ E&M-P Pulse Length—E&M-P Seizure ACK

Specifies whether the PBX waits for an E & M-P seizure ACK signal.

Value Range

No, Yes

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Meter Pulse Detection—Mode

Specifies the mode for call charge meter pulses.

Value Range

No Detection: Meter pulses are not sent or received.
Outgoing call only: Sends a call charge meter pulse for outgoing trunk calls.
Both calls: Sends and receives call charge meter pulses.

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Meter Pulse Detection—Bit Position

Specifies the bit position of a call charge meter pulse.

Value Range
A-bit, B-bit, C-bit, D-bit

Maintenance Console Location
3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References
None

Feature Guide References
None

◆ Meter Pulse Detection—Length
Specifies the length that a call charge meter pulse must be for the PBX to recognise it as a call charge meter pulse.

Value Range
8 × n (n=1–80) ms

Maintenance Console Location
3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References
None

Feature Guide References
None

◆ DSP Gain Adjustment—DTMF Transmit
Specifies the output power of the DTMF signal sent from the DSP (Digital Signal Processor).

Value Range
-12 dB–3 dB

Maintenance Console Location
3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References
None

Feature Guide References

None

◆ DSP Gain Adjustment—DTMF Receive

Specifies the strength range within which a DTMF signal must be for the DSP to recognise it as a DTMF signal.

Value Range

-42 - 0 dB – -11- 0 dB

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ DSP Gain Adjustment—MFC-R2 Transmit

Specifies the output power of MFC-R2 signals sent from the DSP.

Value Range

-31 dB–0 dB

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ DSP Gain Adjustment—MFC-R2 Receive

Specifies the strength range within which an MFC-R2 signal must be for the DSP to recognise it as an MFC-R2 signal.

Value Range

-38 - 0 dB – -23 - 0 dB

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Frame Error Detection—Error Detection

Specifies whether the PBX detects frame synchronisation errors.

Value Range

No, Yes

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

◆ Frame Error Detection—Error Rate

Specifies the number of frame errors per second which the PBX needs to recognise a remote alarm. To enable this setting, ◆ **Frame Error Detection—Error Detection** on this screen should be set to **Yes**.

Value Range

No limit, 16 × n (n=1–7) errors/s

Maintenance Console Location

3.41 [1-1] Slot—Card Property - E1 type—Line Signal Setting

Programming Manual References

None

Feature Guide References

None

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

◆ ANI Service—Mode

Selects the ANI (Automatic Number Identification) service mode.

Value Range

None: ANI service is not activated.
Incoming call only: Receives the caller's number from the E1 line.
Outgoing call only: Sends the caller's number to the E1 line.
Both calls: Sends and receives the caller's number through the E1 line.

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ ANI Service—ANI Max. digits

Specifies the maximum number of digits to be received via ANI when receiving a call with ANI.

Value Range

None, 1–16

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ MFC-R2 Timer—Forward

Specifies the maximum time that the PBX waits for an MFC-R2 forward signal sent from the telephone company.

Value Range

1–30 s

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ MFC-R2 Timer—Backward

Specifies the maximum time that the PBX waits for an MFC-R2 backward signal sent from the telephone company.

Value Range

1–30 s

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ MFC-R2 Timer—Disappearance

Specifies the maximum time that the PBX waits for an MFC-R2 disappearance signal sent from the telephone company.

Value Range

1–30 s

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-I Code Assignment—ANI Start

Specifies the code used to indicate the beginning of an ANI number.

Value Range

Undefined, 1–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-I Code Assignment—ANI Complete (1)–(4)

Specifies the code used to indicate the end of an ANI number.

Value Range

ANI Complete (1): 1–15
ANI Complete (2)–(4): Undefined, 1–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-I Code Assignment—ANI Reject

Specifies the code used to reject an ANI number.

Value Range

1–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-I Code Assignment—End of Digit

Specifies the code used to recognise the end of each digit in an ANI number.

Value Range

Undefined, 1–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-I Code Assignment—End of Digit Timer

Specifies the length of time that the PBX waits for further signal before detecting the end of digit of an ANI number.

Value Range

1–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ Group-II Code Assignment—G-II Code Outgoing Call

Specifies the code for sending Group-II code to the telephone company.

Value Range
1–15

Maintenance Console Location
3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References
None

Feature Guide References
None

◆ Group-II Code Assignment—G-II Code Incoming Call [1]–[15]
Specifies the destination of incoming trunk calls for each Group-II code respectively.

Value Range
Undefined, Subscriber, Operator, Collect Call

Maintenance Console Location
3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References
None

Feature Guide References
None

◆ Group-II Code Assignment—Group-II ANI
Specifies the Group-II ANI start code.

Value Range
1–15

Maintenance Console Location
3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References
None

Feature Guide References

None

◆ MFC-R2 Group-1[*][#]—E1 MFC-R2 Group1[*] code

Specifies the code value of the Group-1 code when the received Group-1 code is [*].

Value Range

11–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

◆ MFC-R2 Group-1[*][#]—E1 MFC-R2 Group1[#] code

Specifies the code value of the Group-1 code when the received Group-1 code is [#].

Value Range

11–15

Maintenance Console Location

3.42 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 1

Programming Manual References

None

Feature Guide References

None

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

◆ Group-A Code Assignment—Address Complete

Specifies the address complete (completion of dial reception) code sent to the telephone company.

Value Range

1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—ANI Request

Specifies the code used to request the telephone company to send an ANI number.

Value Range

1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—ANI (N+1)

Specifies the code used to request the telephone company to send the (N+1)th digit of an ANI number.

Value Range

1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—ANI (N+1) Additional Code

Specifies the second code when two codes are needed to request the telephone company to send the (N+1)th digit of an ANI number.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—Set up Speech Path

Specifies the setup speech path code sent to the telephone company.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—(First) Request

Specifies the code used to request the telephone company to send the first digit of an ANI number.

Value Range
Undefined, 1–15

Maintenance Console Location
3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References
None

Feature Guide References
None

◆ Group-A Code Assignment—(N) Request
Specifies the code used to request the telephone company to send the (N)th digit of an ANI number.

Value Range
Undefined, 1–15

Maintenance Console Location
3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References
None

Feature Guide References
None

◆ Group-A Code Assignment—(N-1) Request
Specifies the code used to request the telephone company to send the (N-1)th digit of an ANI number.

Value Range
Undefined, 1–15

Maintenance Console Location
3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References
None

Feature Guide References

None

◆ Group-A Code Assignment—(N-2) Request

Specifies the code used to request the telephone company to send the (N-2)th digit of an ANI number.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-A Code Assignment—(N-3) Request

Specifies the code used to request the telephone company to send the (N-3)th digit of an ANI number.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Idle (1)

Specifies the code used normally to inform the telephone company that the status of the called destination is idle.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Idle (2)

Specifies the code used in special circumstances, such as an international call, to inform the telephone company that the status of the called destination is idle.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Idle (3)

Specifies the code used to inform the telephone company that the status of the called destination is idle when the call is disconnected by the caller.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Busy

Specifies the code used to inform the telephone company that the status of the called destination is busy.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Unallocated

Specifies the code used to inform the telephone company that the received number is not defined.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Congestion

Specifies the code used to inform the telephone company that the network is congested.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Out-of-Service

Specifies the code used to inform the telephone company that the status of the called destination is out of service.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—No Billing

Specifies the code used to inform the telephone company that the call is not charged.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

◆ Group-B Code Assignment—Collect Call Reject

Specifies the code used to inform the telephone company that the collect call has been rejected.

Value Range

Undefined, 1–15

Maintenance Console Location

3.43 [1-1] Slot—Card Property - E1 type—MFC-R2 Setting 2

Programming Manual References

None

Feature Guide References

None

3.44 [1-1] Slot—Port Property - E1 Port

Various settings can be programmed for each E1 channel.
To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ CH

Indicates the channel number (reference only).

Value Range

channel number

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the channel status (reference only).
This column offers two ways to open the screen to select the channel command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The channel is in service.
OUS: The channel is out of service.
Fault: The channel is not communicating with the network.

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Subscriber Number

Specifies the number used as the CLIP number.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Channel Type

Selects the channel type.

Value Range

Undefined: Not assigned
DR2: Digital System R2
E&M-P: Pulsed E & M
E&M-C: Continuous E & M

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.22.1 E1 Line Service

◆ Trunk Property

Selects the trunk property of the E & M channel.

Value Range

Public: Use the DIL/DDI/DID method to distribute incoming trunk calls.
Private: Use the TIE line service between two or more PBXs.

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY
1.30.1 TIE Line Service

◆ CO Dial Mode

Selects the type of signal used to dial out to a trunk.
If **MFC-R2** is selected, the PBX (not the telephone company) sends a dial tone to the caller when making a trunk call using an E1 line.

Value Range
DTMF, Pulse, MFC-R2

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References
None

Feature Guide References
1.5.4.4 Dial Type Selection
1.22.1 E1 Line Service

◆ E1 Receiver Type

Selects the type of signal the PBX receives from the E1 line.
This should be set to **MFC-R2** when receiving ANI (Automatic Number Identification) numbers from the E1 line.

Value Range
DTMF, Pulse, MFC-R2, Undefined

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References
None

Feature Guide References
1.22.1 E1 Line Service

◆ Receive Digits

Specifies the maximum number of digits to be received from a DDI/DID number when receiving a call with the DDI/DID number.

Value Range
0–15

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ CPC Detection Time—Out, In

Specifies the length of time required by the PBX to detect a CPC signal on outgoing or incoming trunk calls before disconnecting the line. When **None** is selected here, the line will not be disconnected when a CPC signal is not detected.

Value Range

None, 80 × n (n=2–75) ms

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

◆ DTMF Width

Selects the length of the DTMF tone sent to the E1 channel.

Value Range

80 ms, 160 ms

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ CO Pulse Speed

Selects the speed at which pulse dials are sent to the E1 channel.

Value Range
10 pulse/s, 20 pulse/s

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References
None

Feature Guide References
1.5.4.4 Dial Type Selection

◆ Wink Signal Time-Out
Specifies the length of time that the PBX waits to receive a wink signal after seizing a trunk. If a wink signal is not received before this timer expires, the trunk is released.

Value Range
64 × n (n=1–128) ms

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References
None

Feature Guide References
None

◆ Start Signal Type
Selects the type of the start signal.

Value Range
Immediate: Sends the dialled digits to the trunk when the First Dial Timer expires.
Wink: Sends the dialled digits to the trunk when the wink signal is received.

Maintenance Console Location
3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References
None

Feature Guide References

None

◆ Sending Caller ID to TIE

Specifies whether Caller ID information is sent when ◆ **Channel Type** on this screen is set to **E&M-P** or **E&M-C**.

Value Range

No, Yes

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Receiving Caller ID from TIE

Specifies whether Caller ID information is received when ◆ Channel Type on this screen is set to **E&M-P** or **E&M-C**.

Value Range

No, Yes

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Dial Tone to Extension

Enables the PBX to send a dial tone to an extension making a call when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Answer Wait Timer (*60s)

Selects the length of time that the PBX waits for the called outside party to answer an outgoing trunk call. The line will be disconnected automatically when this timer expires.

Value Range

None, 1–4

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Pause Time

Specifies the length of a pause.

Value Range

1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.5.4.9 Special Carrier Access Code

◆ Flash Time

Specifies the length of a flash signal.

Value Range

None, 16 × n (n=1–255) ms

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

None

◆ Disconnect Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

0.5 s, 1.5 s, 2.0 s, 4.0 s, 12.0 s

Maintenance Console Location

3.44 [1-1] Slot—Port Property - E1 Port

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate

3.45 [1-1] Slot—Port Property - E1 Port—Connection Command

Commands for the E1 channels can be programmed.

◆ INS

Puts the channel in service.

Value Range

Not applicable.

Maintenance Console Location

3.45 [1-1] Slot—Port Property - E1 Port—Connection Command

Programming Manual References

3.44 [1-1] Slot—Port Property - E1 Port

Feature Guide References

None

◆ OUS

Takes the channel out of service. This enables a temporary non-use of the channel, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.45 [1-1] Slot—Port Property - E1 Port—Connection Command

Programming Manual References

3.44 [1-1] Slot—Port Property - E1 Port

Feature Guide References

None

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

The properties for the E & M card can be specified.

◆ Interface

Selects E & M signal type.

Value Range

Continuous, Pulsed with Answer, Pulsed without Answer, Continuous No Answer

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ First Dial Timer (TIE)

Specifies the minimum time that the PBX waits after seizing a DDI/DID or TIE line, before sending the dialled digits to the telephone company or to another PBX. This allows the telephone company or the other PBX to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Answer Detection Timer

Specifies the length of time required by the PBX to recognise the answer signal. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Inter-digit Timer

Specifies the pseudo-answer time.

Value Range

3–15 s

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Inter-digit Pause

Specifies the length of the DTMF inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

64 + 16 × n (n=0–11) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse % Break

Specifies the % break for pulse digits. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range

60 %, 67 %

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Type

Selects the type of pulse dial transmission appropriate to your area.

Value Range

Normal, Sweden, New Zealand

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Inter-digit Pause

Specifies the length of the pulse inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

630 ms, 830 ms, 1030 ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Feed Back Tone

Specifies whether the pulse feedback tone is turned on or not. For outgoing trunk calls, audible tones can be heard as the dialled number is sent out, which informs the extension user that the number has been dialled.

Value Range

No, Yes

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Maximum BREAK Width

Specifies the maximum length of the break signal in a pulse dial.

Value Range

8 × n (n=9–20) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Minimum MAKE Width

Specifies the minimum length of the make signal in a pulse dial.

Value Range

8 × n (n=1–5) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Detection

Enables the PBX to detect hookswitch flash signals.

Value Range

Disable, Enable

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Flash—Minimum Break Width

Specifies the minimum length of the break signal in a flash signal.

Value Range

8 × n (n=3–63) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Flash—Flash Width

Specifies the maximum length of a hookswitch signal sent from an SLT that can be recognised by the PBX as a flash signal.

Value Range

8 × n (n=3–191) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—E&M-P Pulse Length—Seizure

Selects the length of a seizure pulse.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—E&M-P Pulse Length—Answer

Selects the length of an answer pulse.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—E&M-P Pulse Length—Clear

Selects the length of a clear pulse.

Value Range

150 ms, 600 ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—E&M-P Pulse Length—E&M-P Seizure ACK

Enables the PBX to wait for an E & M-P seizure ACK signal.

Value Range

No, Yes

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—E&M-P Pulse Length—Wink Signal Width

Specifies the length of a wink signal.

Value Range

32 × n (n=4–9) ms

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Caller ID—Caller ID Start Code

Selects the DTMF code used to detect the beginning of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID Information End Code

Selects the delimiter used to separate multiple parameters in a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID End Code

Selects the DTMF code used to detect the end of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.46 [1-1] Slot—Card Property - EM type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Various settings can be programmed for each E & M channel.
To change the status of channels, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ CH

Indicates the channel number (reference only).

Value Range

Channel number

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the channel status (reference only).
This column offers two ways to open the screen to select the channel command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The channel is in service.
OUS: The channel is out of service.
Fault: The channel is not communicating with the network.

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

3.48 [1-1] Slot—Port Property - EM Port—Connection Command (KX-TDE series only)

Feature Guide References

None

◆ Trunk Property

Selects the trunk property of the channel.

Value Range

Public: Use the DIL method to distribute incoming trunk calls.
Private: Use the TIE line service between two or more PBXs.

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY
1.30.1 TIE Line Service

◆ Dialling Mode

Selects the type of signal used to dial out to the E & M line.

Value Range

DTMF, Pulse

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ Gain Adjustment

Indicates the value for hardware adjustment (fixed, reference only).

Value Range

1

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ DTMF Width

Selects the length of the DTMF tone sent to the E & M line.

Value Range

80 ms, 160 ms

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ CO Pulse Speed

Selects the speed at which pulse dials are sent to the E & M line.

Value Range

10 pulse/s, 20 pulse/s

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ Wink Signal Time-Out

Specifies the length of time that the PBX waits to receive a wink signal after seizing a trunk. If a wink signal is not received before this timer expires, the trunk is released.

Value Range

64 × n (n=1–128) ms

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Start Signal Type

Selects the type of the start signal.

Value Range

Immediate: Sends the dialled digits to the trunk when the First Dial Timer expires.
Wink: Sends the dialled digits to the trunk when the wink signal is received.

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ E&M TIE Line Type

Selects the type of the voice path for an E & M line.

Value Range

2 wires, 4 wires

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Sending Caller ID to TIE

Specifies whether Caller ID information is sent when ◆ **Trunk Property** on this screen is set to **Private**.

Value Range

No, Yes

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Receiving Caller ID from TIE

Specifies whether Caller ID information is received when ◆ **Trunk Property** on this screen is set to **Private**.

Value Range

No, Yes

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Send Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Dial Tone to Extension

Enables the PBX to send a dial tone to an extension making a call when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pause Time

Specifies the length of a pause.

Value Range

1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.5.4.9 Special Carrier Access Code

◆ Flash Time

Specifies the length of a flash signal.

Value Range

None, 16 × n (n=1–255) ms

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.7 External Feature Access (EFA)

◆ Disconnect Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

0.5 s, 1.5 s, 2.0 s, 4.0 s, 12.0 s

Maintenance Console Location

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate

3.48 [1-1] Slot—Port Property - EM Port—Connection Command (KX-TDE series only)

Commands for the E & M channels can be programmed.

◆ INS

Puts the channel in service.

Value Range

Not applicable.

Maintenance Console Location

3.48 [1-1] Slot—Port Property - EM Port—Connection Command (KX-TDE series only)

Programming Manual References

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Feature Guide References

None

◆ OUS

Takes the channel out of service. This enables a temporary non-use of the channel, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.48 [1-1] Slot—Port Property - EM Port—Connection Command (KX-TDE series only)

Programming Manual References

3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)

Feature Guide References

None

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

The property for the DID card can be specified.

◆ First Dial Timer

Specifies the minimum time that the PBX waits after seizing a DID line, before sending the dialled digits to the telephone company or to another PBX. This allows the telephone company or the other PBX to have enough time to accept the dialled digits correctly.

Value Range

32 × n (n=1–255) ms

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ DTMF Tone—DTMF Inter-digit Pause

Specifies the length of the DTMF inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range

64 + 16 × n (n=0–11) ms

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse % Break

Specifies the % break for pulse digits. This is the ratio between the break (on-hook) signal and make (off-hook) signal in a pulse dial.

Value Range
60 %, 67 %

Maintenance Console Location
3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References
None

Feature Guide References
None

◆ Pulse Dial—Pulse Type
Selects the type of pulse dial transmission appropriate to your area.

Value Range
Normal, Sweden, New Zealand

Maintenance Console Location
3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References
None

Feature Guide References
None

◆ Pulse Dial—Pulse Inter-digit Pause
Specifies the length of the pulse inter-digit pause. This allows the telephone company to have enough time to accept the dialled digits correctly.

Value Range
630 ms, 830 ms, 1030 ms

Maintenance Console Location
3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References
None

Feature Guide References

None

◆ Pulse Dial—Pulse Feed Back Tone

Specifies whether the pulse feedback tone is turned on or not. For outgoing trunk calls, audible tones can be heard as the dialled number is sent out, which informs the extension user that the number has been dialled.

Value Range

No, Yes

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Maximum BREAK Width

Specifies the maximum length of the break signal in a pulse dial.

Value Range

8 × n (n=9–20) ms

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pulse Dial—Pulse Minimum MAKE Width

Specifies the minimum length of the make signal in a pulse dial.

Value Range

8 × n (n=1–5) ms

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Line Signal Setting—Wink Signal Width

Specifies the length of a wink signal.

Value Range

32 × n (n=4–9) ms

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Caller ID—Caller ID Start Code

Selects the DTMF code used to detect the beginning of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID Information End Code

Selects the delimiter used to separate multiple parameters in a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Caller ID End Code

Selects the DTMF code used to detect the end of a Caller ID series.

Value Range

*, #, A–D

Maintenance Console Location

3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Various settings can be programmed for each DID port.
To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

3.51 [1-1] Slot—Port Property - DID Port—Connection Command (KX-TDE series only)

Feature Guide References

None

◆ Dialling Mode

Selects the type of signal used to dial out to the DID line.

Value Range

DTMF, Pulse

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ DTMF Width

Selects the length of the DTMF tone sent to the DID line.

Value Range

80 ms, 160 ms

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ CO Pulse Speed

Selects the speed at which pulse dials are sent to the line.

Value Range

10 pulse/s, 20 pulse/s

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.4 Dial Type Selection

◆ Wink Signal Time Out

Specifies the length of time that the PBX waits to receive a wink signal after seizing a trunk. If a wink signal is not received before this timer expires, the trunk is released.

Value Range

64 × n (n=1–128) ms

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Start Signal Type

Selects the type of the start signal.

Value Range

Immediate: Sends the dialled digits to the trunk when the First Dial Timer expires.
Wink: Sends the dialled digits to the trunk when the wink signal is received.

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ CPC Detection Time—Out (DID), In (DID)

Specifies the length of time required by the PBX to detect a CPC signal on outgoing or incoming trunk calls before disconnecting the line. When **None** is selected here, the line will not be disconnected when a CPC signal is not detected.

Value Range

None, 80 × n (n=2–75) ms

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.10 Calling Party Control (CPC) Signal Detection

◆ Sending Caller ID to CO

Specifies whether Caller ID information is sent to an analogue trunk.

Value Range

No, Yes

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Receiving Caller ID from CO

Specifies whether Caller ID information is received from an analogue trunk.

Value Range

No, Yes

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Send Ringback Tone to Outside Caller

Enables the PBX to send a ringback tone to an outside caller when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Dial Tone to Extension

Enables the PBX to send a dial tone to an extension making a call when the network cannot send the tone.

Value Range

Disable, Enable

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Pause Time

Specifies the length of a pause.

Value Range

1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.5.4.9 Special Carrier Access Code

◆ Flash Time

Specifies the length of a flash signal.

Value Range

None, 16 × n (n=1–255) ms

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.7 External Feature Access (EFA)

◆ Disconnect Time

Specifies the length of time after a trunk is disconnected, during which the PBX cannot seize the line.

Value Range

0.5 s, 1.5 s, 2.0 s, 4.0 s, 12.0 s

Maintenance Console Location

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate

3.51 [1-1] Slot—Port Property - DID Port—Connection Command (KX-TDE series only)

Commands for the DID ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.51 [1-1] Slot—Port Property - DID Port—Connection Command (KX-TDE series only)

Programming Manual References

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.51 [1-1] Slot—Port Property - DID Port—Connection Command (KX-TDE series only)

Programming Manual References

3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)

Feature Guide References

None

3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)

The properties of the VoIP Gateway card can be specified.

◆ En-bloc Dialling setting

Selects the call dialling mode.

Value Range

En-bloc: The PBX sends all of the dialled digits at once after the extension user completes dialling. The PBX recognises the end of dialling when (1) # is dialled, if programmed, (2) a preprogrammed telephone number is dialled, or (3) the inter-digit timer expires.
Overlap: The PBX sends dialled digits one at a time.

Maintenance Console Location

3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Extension Inter-digit
4.18 [2-9] System Options—Option 2—◆ ISDN en Bloc Dial—[#] as End of Dial for en Bloc mode
5.4 [3-1-4] Dialling Plan

Feature Guide References

1.30.2 Voice over Internet Protocol (VoIP) Network

◆ QSIG-CT

Enables a call to be transferred to a destination extension at another PBX in a QSIG network.

Value Range

Yes, No

Maintenance Console Location

3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.30.4.4 Call Transfer (CT)—by QSIG

◆ QSIG-CF

Enables a call to be forwarded to a destination extension at another PBX in a QSIG network.

When using the Centralised VM feature, set this to "No".

Value Range

Yes, No

Maintenance Console Location

3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.30.4.3 Call Forwarding (CF)—by QSIG

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Status of the IP-GW ports can be referred to, or set to INS (in service) or OUS (out of service).
To change the status of ports, click **Command**.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:

- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Programming Manual References

3.54 [1-1] Slot—Port Property - IP-GW Port—Connection Command (KX-TDE series only)

Feature Guide References

None

3.54 [1-1] Slot—Port Property - IP-GW Port—Connection Command (KX-TDE series only)

Commands for the IP-GW ports can be programmed.

◆ INS

Puts the port in service.

Value Range

Not applicable.

Maintenance Console Location

3.54 [1-1] Slot—Port Property - IP-GW Port—Connection Command (KX-TDE series only)

Programming Manual References

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Feature Guide References

None

◆ OUS

Takes the port out of service. This enables a temporary non-use of the port, for example, for the purpose of repair.

Value Range

Not applicable.

Maintenance Console Location

3.54 [1-1] Slot—Port Property - IP-GW Port—Connection Command (KX-TDE series only)

Programming Manual References

3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)

Feature Guide References

None

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

The properties of the VoIP Extension card can be specified.
To adjust settings related to IP-PT network data transmission, click **Common Settings** (see 3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)).

◆ IP Address

Specifies the IP address of the card.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Subnet Mask

Specifies the subnet mask of the card.

Value Range

0–255.0–255.0–255.0–255 (except 0.0.0.0 and 255.255.255.255)

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Gateway Address [Common Settings]

Displays the default gateway address of the network for IP-PTs (reference only).
To change the value displayed here, click **Common Setting**, and set the desired value for ◆ Gateway Address.

Value Range
0.0.0.0–223.255.255.255

Maintenance Console Location
3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References
3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Keep Alive Time Out

Specifies the length of time that the PBX will continue to consider an IP-PT to be active even if it receives no transmissions from that IP-PT. The PBX constantly confirms the status of IP-PTs. If no communications are received from an IP-PT for the duration specified here, the PBX considers the IP-PT to be unreachable, and sets the port status to **Fault**.
During operation, set between 10 s and 60 s. Settings over 60 s, and **Disable**, are used for debugging purposes, and IP-PTs cannot be guaranteed to function normally in these circumstances. Do not use debugging settings unless instructed to do so.

Value Range
Disable, 10–120 s

Maintenance Console Location
3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Echo Canceller Ability

Specifies the echo canceller ability time.

Value Range
OFF, 48 ms, 128 ms

Maintenance Console Location
3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Down)

Specifies the DSP Digital Gain for the down voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ DSP Digital Gain (Up)

Specifies the DSP Digital Gain for the up voice path.

Value Range

-14–6 dB

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ EC Gain

Specifies the Echo Canceller Gain.

Value Range

-14–6 dB

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ NLP Setting

Specifies the NLP (Non-Linear Processor) setting to control echo sound quality.

Value Range

Disable, Weak

Maintenance Console Location

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)

IP-PT network data transmission settings can be programmed. To activate any changes made to settings on this screen, it is necessary to set all installed IP-EXT cards to OUS, then back to INS.

◆ Gateway Address

Specifies the default gateway address of the network for IP-PTs.

Value Range

0.0.0.0–223.255.255.255

Maintenance Console Location

3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)

Programming Manual References

3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)—◆ Gateway Address [Common Settings]

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Voice (RTP) UDP Port No. (Server)

Specifies the UDP port used by the IP-EXT card to transmit and receive RTP (Realtime Transfer Protocol) data. This must be changed if another network application is using the same port.
For voice communications, an IP-EXT card uses 128 contiguous UDP ports, starting from the port number specified here.

Value Range

1024–65472

Maintenance Console Location

3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Voice (RTP) UDP Port No. (IP-PT)

Specifies the UDP port used to transmit and receive RTP (Realtime Transfer Protocol) data on the IP-PT side. This must be changed if another network application is using the same port.

For voice communications, an IP-PT uses 128 contiguous UDP ports, starting from the port number specified here.

Value Range

1024–65472

Maintenance Console Location

3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Various settings can be programmed for each IP extension port.
To change the status of extension ports, click **Command**.

IP-PT Registration and De-registration

An IP-PT must be registered to the PBX by programming both the PBX and IP-PT before it can be used.
Programming instructions for the PBX are given below.
It is possible to de-register the IP-PT later.

◆ Preparation

Follow the steps below to prepare before registering an IP-PT.

1. Open **3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)**, and confirm that the IP address and subnet mask settings of the IP-EXT16 card are correct.
2. Open **3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)** and set the gateway address.

◆ Registration

Follow the steps below to register the IP-PT.

1. Connect the IP-PT to be registered to the network and, if necessary, the power supply.
2. Click **Registration**.
   A dialogue box will appear. Non-registered (available) extension numbers and names are displayed on the left.
3. Highlight numbers and names and click the right arrow to select them for registration. Click **Next**.
4. If the registration is still in progress, the dialogue box will show "Registration Executing".
   If the registration is successful, the dialogue box will show "Registration Completed". Click **Close**.
   Once the IP-PT is successfully registered, the status of the IP-PT will update to show "Registered".

◆ De-registration

Follow the steps below to de-register the IP-PT.

1. Click **De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "De-registration Succeed".
4. Click **Close**.
   Once the IP-PT is successfully de-registered, the status of the IP-PT will update to show "None".

◆ Forced De-registration

Follow the steps below to forcibly de-register the IP-PT when normal de-registration has been unsuccessful or IP address settings have been changed or deleted only on the IP-PT.

1. Click **Forced De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.

2. Highlight numbers and names and click the right arrow to select them for forced de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **OK**.
   A dialogue box will appear.
4. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "Forced De-registration Succeed".
5. Click **Close**.
   Once the IP-PT is successfully de-registered, the status of the IP-PT will update to show "None".

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Port

Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Extension Number
Specifies the extension number of the port.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References
None

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Connection
Indicates the port status (reference only).
This column offers two ways to open the screen to select the port command:
- Click the desired cell in the column.
- Select the desired cell in the column, and then click **Command**.

Value Range
INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location
3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Status

Indicates whether a certain IP-PT is registered (reference only).

Value Range

None, Registered

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ IP Address

Indicates the IP address of the IP-PT (reference only).

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Headset OFF/ON

Turns on or off the use of a headset with the IP-PT.

Value Range

Headset OFF, Headset ON

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.11.4 Headset Operation
1.31.1 IP Proprietary Telephone (IP-PT)

◆ Ringing Tone

Selects the dual-tone switching pattern of the ring tone for incoming calls.

Value Range

A: 64 ms (697 Hz), 64 ms (852 Hz)
B: 32 ms (697 Hz), 32 ms (852 Hz)
C: 128 ms (697 Hz), 128 ms (852 Hz)
D: 32 ms (697 Hz), 96 ms (852 Hz)

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ IP Codec

Specifies the codec used for compression and decompression of transmitted data.

Value Range

G.711, G.729

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

◆ Packet Sampling Time

Specifies the time interval between measurements (samples) of sound data during a conversation. The smaller this number, the higher the quality of the transmitted sound.
When ◆ **IP Codec** on this screen is set to **G.711**, only **20 ms** and **30 ms** are available.

Value Range

20 ms, 30 ms, 40 ms, 60 ms

Maintenance Console Location

3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Programming Manual References

None

Feature Guide References

1.31.1 IP Proprietary Telephone (IP-PT)

3.58 [1-1] Slot—OPB3 Card Property

The properties of the Optional Base card can be specified.
To change the status of slots on the OPB card, click **Command**.
The properties of the built-in SVM (Simplified Voice Message) and OGM (Outgoing Message) features can also be specified on this screen. See **3.5 [1-1] Slot—OPB3 Card Property** for details.

◆ Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Sub-Slot

Indicates the sub-slot number (reference only).

Value Range

Sub-slot number

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Feature Card Type

Indicates the type of option card that is installed or pre-installed in each sub-slot (reference only).
Note that only one ECHO16 card can be installed per OPB3 card.

Value Range

MSG4: 4-Channel Message Card
DPH4: 4-Port Doorphone Card
DPH2: 2-Port Doorphone Card
ECHO16: 16-Channel Echo Canceller Card
EIO4: 4-Port External Input/Output Card
ESVM2: 2-Channel Simplified Voice Message Card
ESVM4: 4-Channel Simplified Voice Message Card

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Installation Manual References

For KX-NCP500/KX-NCP1000:

1.2.1 Optional Equipment

For KX-TDE100/KX-TDE200:

1.2.1 Optional Equipment

For KX-TDE600:

1.2.1 Optional Equipment

Programming Manual References

None

Feature Guide References

None

◆ Status

Indicates the status of the option card in each slot (reference only).
This column offers two ways to open the screen to select the card command:

- Click the desired cell in the column.

- Select the desired cell in the column, and then click **Command**.

Value Range

INS: The card is in service.
OUS: The card is out of service.
Fault: The card has been removed from the sub-slot, or is not communicating with the PBX.
Pre-Install: There is no card in the sub-slot, but the card type is programmed for the sub-slot.
Idle: There is no card in the sub-slot, no programming of the card type for the sub-slot.

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Feature Guide References

None

◆ Port Number

Indicates the port number of the mounted option card (reference only).

Value Range

Port number

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Port Status

Indicates the port status of the mounted option card (reference only).

Value Range

INS: The card is in service.
OUS: The card is out of service.
Fault: The card is pulled out from the sub-slot, or is not communicating with the PBX.

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

None

◆ Device Type

Selects the type of connected output device (for output ports only).

Value Range

Relay, Ringer

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

1.17.10 External Relay Control

◆ Input Signal Decision Time

Specifies the minimum duration of continuous input from the triggered sensor before the PBX recognises the input and makes a sensor call.

Value Range

32 × n (n=2–255) ms

Maintenance Console Location

3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References

None

Feature Guide References

1.17.9 External Sensor

◆ Input Signal Detection Reopening Time

Specifies the length of time after the sensor has been triggered during which any further input from the sensor will be ignored.

Value Range
10 × n (n=1–255) s

Maintenance Console Location
3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References
None

Feature Guide References
1.17.9 External Sensor

◆ SVM Feature
Specifies whether or not to use the ESVM card for the SVM feature. It is possible to use the ESVM card for the SVM feature, as an MSG card (OGM feature), or both.

Value Range
Disable, Enable

Maintenance Console Location
3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References
None

Feature Guide References
1.17.5 Outgoing Message (OGM)
1.17.7 Built-in Simplified Voice Message (SVM)

◆ MSG Feature
Specifies whether or not to use the ESVM card as an MSG card (OGM feature). It is possible to use the ESVM card for the SVM feature, as an MSG card (OGM feature), or both.

Value Range
Disable, Enable

Maintenance Console Location
3.58 [1-1] Slot—OPB3 Card Property

Programming Manual References
None

Feature Guide References

1.17.5 Outgoing Message (OGM)
1.17.7 Built-in Simplified Voice Message (SVM)

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Commands for the service cards installed on the OPB card can be programmed.

◆ INS

Puts the card in service.

Value Range

Not applicable.

Maintenance Console Location

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Programming Manual References

None

Feature Guide References

None

◆ OUS

Takes the card out of service.

Value Range

Not applicable.

Maintenance Console Location

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Programming Manual References

None

Feature Guide References

None

◆ Pre-INS

Assigns the card type to a certain sub-slot (Pre-installation).

Value Range

MSG4: 4-Channel Message Card
DPH4: 4-Port Doorphone Card
DPH2: 2-Port Doorphone Card

ECHO16: 16-Channel Echo Canceller Card
EIO4: 4-Port External Input/Output Card
ESVM2: 2-Channel Simplified Voice Message Card
ESVM4: 4-Channel Simplified Voice Message Card

Maintenance Console Location

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Installation Manual References

For KX-NCP500/KX-NCP1000:

1.2.1 Optional Equipment

For KX-TDE100/KX-TDE200:

1.2.1 Optional Equipment

For KX-TDE600:

1.2.1 Optional Equipment

Programming Manual References

None

Feature Guide References

None

◆ Delete

Assigns the card type to be deleted from the sub-slot.

Value Range

Not applicable.

Maintenance Console Location

3.59 [1-1] Slot—OPB3 Card Property—Card Command

Programming Manual References

None

Feature Guide References

None

3.60 [1-1] Slot—OPB3 Option Card Setup

Option cards can be installed to and removed from the OPB3 cards installed in the PBX.
Click the right and left arrow buttons (">", "<") to add or remove option cards.

◆ Option Card Type

Selects the type of option card to install to the OPB3 card.

Value Range

MSG4: 4-Channel Message Card
DPH4: 4-Port Doorphone Card
DPH2: 2-Port Doorphone Card
ECHO16: 16-Channel Echo Canceller Card
EIO4: 4-Port External Input/Output Card
ESVM2: 2-Channel Simplified Voice Message Card
ESVM4: 4-Channel Simplified Voice Message Card

Maintenance Console Location

3.60 [1-1] Slot—OPB3 Option Card Setup

Installation Manual References

For KX-NCP500/KX-NCP1000:

1.2.1 Optional Equipment

For KX-TDE100/KX-TDE200:

1.2.1 Optional Equipment

For KX-TDE600:

1.2.1 Optional Equipment

Programming Manual References

3.1 [1-1] Slot
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ Slot 1–Slot 3

Selects the slot on the OPB3 card to install or remove the option card for.

Value Range

Not applicable.

Maintenance Console Location

3.60 [1-1] Slot—OPB3 Option Card Setup

Programming Manual References

3.1 [1-1] Slot
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ Card Inserted

Displays the type of option card currently installed to each slot of the OPB3 card

Value Range

MSG4: 4-Channel Message Card
DPH4: 4-Port Doorphone Card
DPH2: 2-Port Doorphone Card
ECHO16: 16-Channel Echo Canceller Card
EIO4: 4-Port External Input/Output Card
ESVM2: 2-Channel Simplified Voice Message Card
ESVM4: 4-Channel Simplified Voice Message Card

Maintenance Console Location

3.60 [1-1] Slot—OPB3 Option Card Setup

Programming Manual References

3.1 [1-1] Slot
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

3.61 [1-2] Portable Station

Various portable station (PS) settings can be programmed. A maximum of 64 (with the KX-NCP500/KX-NCP1000), 128 (with the KX-TDE100/KX-TDE200), or 512 (with the KX-TDE600) PSs can be registered. Information on 32 PSs is displayed at a time. To display other PSs, click the applicable tab.

PS Registration and De-registration

A PS must be registered to the PBX by programming both the PBX and PS before it can be used. Programming instructions of the PBX are given below; programming instructions of the PS are found in the Installation Manual.
It is possible to de-register the PS later.

◆ Registration

Follow the steps below to register the PS.

1. Click **Registration**.
   A dialogue box will appear. Non-registered (available) extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for registration. Click **Next**.
3. If the registration is still in progress, the dialogue box will show "Registration Executing".
   If the registration is successful, the dialogue box will show "Registration Completed". Click **Close**.
   Once a PS is successfully registered, the status of the PS will update to show "Registered".

◆ De-registration

Follow the steps below to de-register the PS.

1. Click **De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "De-registration Succeed".
4. Click **Close**.
   Once the PS is successfully de-registered, the status of the PS will update to show "None".

◆ Forced De-registration

Follow the steps below to forcibly de-register the PS when normal de-registration has been unsuccessful or de-registration has been performed only on the PS.

1. Click **Forced De-registration**.
   A dialogue box will appear. Registered extension numbers and names are displayed on the left.
2. Highlight numbers and names and click the right arrow to select them for forced de-registration. Click **Next**.
   A dialogue box will appear.
3. Click **OK**.
   A dialogue box will appear.
4. Click **Confirm**.
   If the de-registration is successful, the dialogue box will show "Forced De-registration Succeed".
5. Click **Close**.
   Once the PS is successfully de-registered, the status of the PS will update to show "None".

◆ Personal Identification Number

Specifies the Personal Identification Number (PIN) of the PBX, used to avoid registering a PS to the wrong PBX.
Note that the same PIN should be entered at the PS, before the PS is registered to the PBX.

Value Range

4 digits (consisting of 0–9)

Maintenance Console Location

3.61 [1-2] Portable Station

Programming Manual References

None

Feature Guide References

1.25.1 Portable Station (PS) Connection

◆ Index

Indicates the PS number (reference only).

Value Range

For KX-NCP500/KX-NCP1000:

1–64

For KX-TDE100/KX-TDE200:

1–128

For KX-TDE600:

1–512

Maintenance Console Location

3.61 [1-2] Portable Station

Programming Manual References

None

Feature Guide References

1.25.1 Portable Station (PS) Connection

◆ Extension No.

Specifies the extension number of the PS.
In Wireless XDP Parallel Mode, the PS can be used as a sub telephone with a wired main telephone (PT/SLT), and two of them will share one extension number of the main telephone. However, note that the PS extension

number specified here will not be altered by the extension number of the main telephone even if the PS is in Wireless XDP Parallel Mode.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

3.61 [1-2] Portable Station

Programming Manual References

None

Feature Guide References

1.25.1 Portable Station (PS) Connection
1.25.5 Wireless XDP Parallel Mode

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

3.61 [1-2] Portable Station

Programming Manual References

6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ Extension Name

Feature Guide References

1.25.1 Portable Station (PS) Connection

◆ Status

Indicates whether a certain PS is registered (reference only).

Value Range

None, Registered

Maintenance Console Location

3.61 [1-2] Portable Station

Programming Manual References

None

Feature Guide References

1.25.1 Portable Station (PS) Connection

3.62 [1-3] Option

System options can be programmed.
It is possible to clear the master CS information (Master CS Port and Radio System ID) by following the procedure below in batch mode:

1. Click **Clear Master CS**.
2. Click **Yes**. To abort the procedure, click **No**.

If the system data is downloaded to the PBX after the master CS information has been cleared, it is necessary to register all PSs again in the interactive mode. Master CS information will be assigned automatically when a CS is connected to the PBX. Without the Radio System ID, PSs cannot be registered.

◆ System Wireless—System ID

Indicates the radio system ID used to register a PS (reference only).

Value Range

Not applicable.

Maintenance Console Location

3.62 [1-3] Option

Programming Manual References

None

Feature Guide References

None

◆ New Card Installation—Card Status for any Card

Selects the initial status of cards after installation.

Value Range

In Service, Out of Service

Maintenance Console Location

3.62 [1-3] Option

Programming Manual References

None

Feature Guide References

None

◆ New Card Installation—Automatic Extension Number Set for Extension Card

Selects whether extension numbers are assigned to extension ports automatically or manually.

Value Range

Disable, Enable

Maintenance Console Location

3.62 [1-3] Option

Programming Manual References

None

Feature Guide References

None

◆ New Card Installation—ISDN Standard Mode for PRI23 Card

Specifies whether a PRI23 card is automatically set to ISDN Standard mode or T1-LCOT mode when it is installed for the first time.

Value Range

ISDN Standard mode: The CCBS, CF, CT, and Centralised VM features are supported. DIL and DID call distribution are available for the D channel.
T1-LCOT mode: DIL and DID call distribution are available for all 23B channels. The CCBS, CF, CT, and Centralised VM features are not available in this mode.

Maintenance Console Location

3.62 [1-3] Option

Programming Manual References

None

Feature Guide References

1.1.1.2 Direct In Line (DIL)
1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.30.4.3 Call Forwarding (CF)—by QSIG
1.30.4.4 Call Transfer (CT)—by QSIG
1.30.4.5 Completion of Calls to Busy Subscriber (CCBS)—by QSIG
1.30.5.2 Centralised Voice Mail

3.63 [1-4] Clock Priority

◆ Slot Number (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200), Shelf-Slot Number (for KX-TDE600)

Selects and prioritises slot numbers for the BRI, PRI, T1, and E1 cards that are used to forward a clock pulse from an external source to the PBX.
Obtain the master clock time from the outside line that the telephone company provides.
To change Clock Priority, follow the steps below:

1. Assign a Clock Priority to each BRI, PRI, T1 and/or E1 card.
2. Set the status of the present clock source card to "**OUS**", then "**INS**".

Note

If multiple PBXs are used to establish a private network (TIE line service, QSIG network, etc.) without being connected through the telephone company, assign only one PBX as the clock source on the network. That PBX should have a card connected to a telephone company line selected as its clock source. All other PBXs should have cards connected to the network selected as the clock source. This enables all PBXs on the network to synchronise their timing.

Value Range

For KX-NCP series:

None, BRI2, PRI23, PRI30, T1, E1

For KX-TDE series:

None, BRI4, BRI8, PRI23, PRI30, T1, E1

Maintenance Console Location

3.63 [1-4] Clock Priority

Feature Guide References

None

Section 4

[2] System

4.1 [2-1-1] Date & Time—Date & Time Setting

The date and time of the PBX can be programmed. The date and time will be shown on the display of extensions (e.g., PT, PS).
This option is only available in Interactive mode.

◆ Date & Time

Indicates the current date and time. Values can be entered by clicking the parameter you want to change and typing the new value, or by clicking the up/down arrows beside the date and time.

Value Range

Year: 2000–2099
Month: 01–12
Day: 01–31
Hour: 00–23
Minute: 00–59
Second: 00–59

Maintenance Console Location

4.1 [2-1-1] Date & Time—Date & Time Setting

Programming Manual References

None

Feature Guide References

None

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Automatic clock adjustment and Summer time (daylight saving time) settings of the PBX can be programmed. Automatic clock adjustment can be performed using one of two methods, ISDN & Caller ID or SNTP (Simple Network Time Protocol).
To set Summer time, click **4.3 [2-1-2] Date & Time—SNTP / Daylight Saving—Daylight Saving**.

◆ Automatic Time Adjustment

Enables the PBX to automatically adjust its clock every day according to the time information provided by the network.

Value Range

Disable, ISDN & Caller ID (FSK), SNTP

Maintenance Console Location

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Programming Manual References

None

Feature Guide References

2.3.5 Automatic Setup

◆ SNTP—SNTP Server—IP Address

Specifies the IP address of an SNTP server.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Programming Manual References

None

Feature Guide References

2.3.5 Automatic Setup

◆ SNTP—SNTP Server—Port Number

Specifies the port number used for communication with an SNTP server.

Value Range

1–65535

Maintenance Console Location

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Programming Manual References

None

Feature Guide References

2.3.5 Automatic Setup

◆ SNTP—Time Zone—Time Zone

Specifies your local UTC (Coordinated Universal Time) time zone using the up and down arrows.

Value Range

-14:00–+14:00

Maintenance Console Location

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Programming Manual References

None

Feature Guide References

2.3.5 Automatic Setup

◆ SNTP—Time Zone—Time Zone for PC

Indicates the UTC (Coordinated Universal Time) time zone of the PC (reference only).

Value Range

-14:00–+14:00

Maintenance Console Location

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Programming Manual References

None

Feature Guide References

2.3.5 Automatic Setup

4.3 [2-1-2] Date & Time—SNTP / Daylight Saving—Daylight Saving

Summer time can be programmed. Summer time sets the clock one hour forward at 2:00 AM on the start date, and one hour back at 2:00 AM on the end date. The start and end dates of a maximum of 20 different summer times can be programmed.

◆ Setting

Enables Summer time.

Value Range

Disable, Enable

Maintenance Console Location

4.3 [2-1-2] Date & Time—SNTP / Daylight Saving—Daylight Saving

Programming Manual References

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Feature Guide References

2.3.5 Automatic Setup

◆ Start Date—Year, Month, Day

Specifies the start date of daylight savings time.

Value Range

Year: 2000–2099
Month: 1–12
Day: 1–31

Maintenance Console Location

4.3 [2-1-2] Date & Time—SNTP / Daylight Saving—Daylight Saving

Programming Manual References

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Feature Guide References

2.3.5 Automatic Setup

◆ End Date—Year, Month, Day

Specifies the end date of daylight savings time.

Value Range

Year: 2000–2099
Month: 1–12
Day: 1–31

Maintenance Console Location

4.3 [2-1-2] Date & Time—SNTP / Daylight Saving—Daylight Saving

Programming Manual References

4.2 [2-1-2] Date & Time—SNTP / Daylight Saving

Feature Guide References

2.3.5 Automatic Setup

4.4 [2-2] Operator & BGM

Settings related to the PBX operator and audio sources can be specified.

◆ PBX Operator—Day, Lunch, Break, Night

Specifies the extension number or floating extension number of incoming call distribution group to be designated as the PBX operator in each time mode (day/lunch/break/night). To select an extension number, click **Destination Setting** (see **2.1.6 Extension Number Setting**).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

4.6 [2-4] Week Table
4.9 [2-6-1] Numbering Plan—Main
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

2.2.5 Operator Features

◆ BGM and Music on Hold—Music Source of BGM (for KX-NCP series)/Music Source of BGM2 (for KX-TDE series)

Selects the audio source of BGM (for KX-NCP series)/BGM2 (for KX-TDE series).

Value Range

For KX-NCP series:

External BGM, Internal BGM 1, Internal BGM 2

For KX-TDE series:

External BGM Port 2, Internal BGM 1, Internal BGM 2

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

None

Feature Guide References

1.13.4 Music on Hold
1.17.4 Background Music (BGM)

◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—OGM No.

Selects the OGM number and name of the audio source of BGM.

Note

To use this feature it is necessary to disable the **SVM Feature** setting for the corresponding card.

Value Range

None, OGM1–OGM64

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

3.5 [1-1] Slot—OPB3 Card Property—◆ SVM Feature
3.58 [1-1] Slot—OPB3 Card Property—◆ SVM Feature

Feature Guide References

1.13.4 Music on Hold
1.17.4 Background Music (BGM)
1.17.5 Outgoing Message (OGM)

◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—Card

Selects the card (MPR [ESVM Circuit] or ESVM) of the audio source of BGM. Cards must have the **MSG Feature** setting enabled to be available for selection.

Value Range

Available cards

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

3.5 [1-1] Slot—OPB3 Card Property—◆ MSG Feature
3.58 [1-1] Slot—OPB3 Card Property—◆ MSG Feature

Feature Guide References

1.13.4 Music on Hold
1.17.4 Background Music (BGM)
1.17.5 Outgoing Message (OGM)

◆ BGM and Music on Hold—Music on Hold

Selects the audio source for Music on Hold.

Value Range

For KX-NCP series:

Tone, BGM, BGM2, BGM3, BGM4, BGM5, BGM6, BGM7

For KX-TDE series:

Tone, BGM, BGM2, BGM3, BGM4, BGM5, BGM6, BGM7, BGM8

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

None

Feature Guide References

1.13.4 Music on Hold

◆ BGM and Music on Hold—Sound on Transfer

Selects the audio source for Music for Transfer (either the same music source chosen for the Music on Hold, or ringback tone).

Value Range

Same as Music on Hold, Ringback Tone

Maintenance Console Location

4.4 [2-2] Operator & BGM

Programming Manual References

None

Feature Guide References

1.12.1 Call Transfer

4.5 [2-3] Timers & Counters

Various system timers and counters can be programmed.

Dial / IRNA / Recall / Tone

◆ Automatic Redial—Repeat Counter

Specifies the number of times Automatic Redial is attempted before being cancelled.

Value Range

0–15

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Automatic Redial—Repeat Interval

Specifies the length of time between repeated Automatic Redial attempts.

Value Range

10 × n (n=1–360) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Automatic Redial—Redial Call Ring Duration

Specifies the length of time that the PBX waits for the called party to answer an Automatic Redial attempt. This is the length of time that the called party's extension will ring for each attempt.

Value Range

10 × n (n=1–30) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Automatic Redial—Analogue CO Mute / Busy Detection Timer

Specifies the length of time before the PBX stops muting the caller's voice and cancels busy tone detection when Automatic Redial to analogue trunk is performed.

Value Range

0–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Dial—Hot Line (Pickup Dial) Start

Specifies the length of time between going off-hook and the start of automatic dialling when the Hot Line feature is set.

Value Range

0–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.6.1.7 Hot Line

◆ Dial—Extension First Digit

Specifies the length of time after going off-hook within which the first digit of a feature number or destination must be dialled before a reorder tone is heard.

Value Range

1–250 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.5.2 Automatic Extension Release

◆ Dial—Extension Inter-digit

Specifies the length of time within which subsequent digits must be dialled before the PBX sends a reorder tone.

Value Range

1–250 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.5.2 Automatic Extension Release

◆ Dial—Analogue CO First Digit

Specifies the length of time within which the first digit of a telephone number must be sent to an analogue trunk. If no digit is sent before this time expires, the PBX recognises end of dialling and stops muting the caller's voice over the analogue trunk.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

None

◆ Dial—Analogue CO Inter-digit

Specifies the length of time within which subsequent digits of a telephone number must be sent to an analogue trunk. If no digit is sent before this time expires, the PBX recognises end of dialling and stops muting the caller's voice over the analogue trunk.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

None

◆ Dial—Analogue CO Call Duration Start

Specifies the length of time between the end of dialling and the start of the SMDR timer for outgoing analogue trunk calls.

Value Range

0–60 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Intercept Routing No Answer (IRNA)—Day, Lunch, Break, Night

Specifies the length of time until an unanswered trunk call is redirected to the intercept routing destination in each time mode.
Note that this setting is only valid for extensions whose ◆ **Intercept No Answer Time—Day, Lunch, Break, Night** is set to "0".

Value Range

1–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Intercept No Answer Time—◆ Intercept No Answer Time—Day, Lunch, Break, Night

Feature Guide References

1.1.1.6 Intercept Routing

◆ Recall—Hold Recall

Specifies the length of time until the holding extension receives a Hold Recall ring or alarm tone when a held call remains unretrieved.

Value Range

0 (disable the Hold Recall)–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ Recall—Transfer Recall

Specifies the length of time that a transferred call waits to be answered, before being redirected to the Transfer Recall destination assigned to the original transferring extension.

Value Range

1–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.12.1 Call Transfer

◆ Recall—Call Park Recall

Specifies the length of time that a parked call waits to be retrieved, before the Transfer Recall destination assigned to the extension that parked the call hears a Call Park Recall ring.

Value Range

1–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.13.2 Call Park

◆ Recall—Disconnect after Recall

Specifies the length of time after an extension with a trunk call on hold receives a Hold Recall tone that the held call is disconnected.

Value Range

60 × n (n = 1–30) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ Tone Length—Busy Tone / DND Tone

Specifies the length of time that a busy/DND tone is heard when a call is made to an extension in busy status or DND mode. A reorder tone will be sent when this timer expires. (For a call through DISA, the call will be disconnected when this timer expires.)

Value Range

0 (continuous)–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.3.1.3 Do Not Disturb (DND)
1.8 Busy Line/Busy Party Features

◆ Tone Length—Reorder Tone for PT Handset

Specifies the length of time that a reorder tone is heard when using a PT handset. The PT will return to idle status when this timer expires.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.5.2 Automatic Extension Release

◆ Tone Length—Reorder Tone for PT Hands-free

Specifies the length of time that a reorder tone is heard from the built-in speaker of a PT in hands-free mode. The PT will return to idle status when this timer expires. This setting is applied to PSs as well as PTs.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.5.2 Automatic Extension Release
1.11.1 Hands-free Operation

DISA / Door / Reminder / U. Conf

◆ DISA—Delayed Answer Timer

Specifies the length of time that the caller hears a ringback tone before hearing an OGM.

Value Range

0–30 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—Mute & OGM Start Timer after answering

Specifies the length of time until the caller hears an OGM after reaching the DISA line.

Value Range

0.0–12.0 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—No Dial Intercept Timer

Specifies the length of time after the OGM finishes playing in which the caller must begin dialling before the call is redirected to the operator.

Value Range

0–120 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

4.4 [2-2] Operator & BGM
7.4 [5-3-2] Voice Message—DISA Message
8.6 [6-6] Tenant—◆ Operator (Extension Number)

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—2nd Dial Timer for AA

Specifies the length of time in which the caller must dial the second digit before the DISA AA Service activates.

Value Range

0–5 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—Intercept Timer—Day, Lunch, Break, Night

Specifies the length of time until an unanswered DISA call is intercepted and redirected to the intercept routing destination after the original destination receives the call in each time mode.

Value Range

0–60 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night
6.10 [4-2-1] Portable Station—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night
7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.1.1.6 Intercept Routing
1.17.6 Direct Inward System Access (DISA)

◆ DISA—Disconnect Timer after Intercept

Specifies the length of time that an intercepted DISA call rings at the intercept routing destination before being disconnected.

Value Range

0–60 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—CO-to-CO Call Prolong Counter

Specifies the number of times that the caller can prolong a trunk-to-trunk call on a DISA line. (Selecting "0" enables the caller to prolong the trunk-to-trunk call without restriction.)

Value Range

0–15

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—CO-to-CO Call Prolong Time

Specifies the length of time that a trunk-to-trunk call on a DISA line is prolonged each time that the caller prolongs the call. (Selecting "0" prevents the caller from prolonging the trunk-to-trunk call.)

Value Range

60 × n (n = 0–7) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA—Progress Tone Continuation Time before Recording Message

Specifies the length of time that a progress tone is sent to the manager extension before recording an OGM.

Value Range

0–60 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.5 Outgoing Message (OGM)

◆ DISA—Reorder Tone Duration

Specifies the length of time that a reorder tone is sent to the caller before the call is disconnected.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ Doorphone—Call Ring Duration

Specifies the length of time that a call from a doorphone rings until the call is cancelled when there is no answer.

Value Range

10 × n (n=1–15) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.1 [5-1] Doorphone

Feature Guide References

1.17.1 Doorphone Call

◆ Doorphone—Call Duration

Specifies the length of time until an answered doorphone call is disconnected.

Value Range

10 × n (n=0–30) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.1 [5-1] Doorphone

Feature Guide References

1.17.1 Doorphone Call

◆ Doorphone—Open Duration

Specifies the length of time that a door stays unlocked after being opened from an extension.

Value Range

2–7 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

7.1 [5-1] Doorphone

Feature Guide References

1.17.2 Door Open

◆ Timed Reminder—Repeat Counter

Specifies the number of times that an alarm is repeated.

Value Range

1–15

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.28.4 Timed Reminder

◆ Timed Reminder—Interval Time

Specifies the length of time between the repeated alarms.

Value Range

10 × n (n=1–120) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.28.4 Timed Reminder

◆ Timed Reminder—Alarm Ringing Duration

Specifies the length of time that an alarm rings.

Value Range

10 × n (n=1–30) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.28.4 Timed Reminder

◆ Unattended Conference—Recall Start Timer

Specifies the length of time until the conference originator receives an Unattended Conference Recall tone.

Value Range

60 × n (n = 0–60) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference

◆ Unattended Conference—Warning Tone Start Timer

Specifies the length of time until the parties involved in an Unattended Conference receive a warning tone after the conference originator receives the Unattended Conference Recall tone but does not return to the conference.

Value Range

0–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference

◆ Unattended Conference—Disconnect Timer

Specifies the length of time until an Unattended Conference is disconnected after the parties involved in the conference receive a warning tone but the conference originator does not return to the conference.

Value Range

0–240 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference

Miscellaneous

◆ Caller ID—Waiting to receive

Specifies the length of time that the PBX waits to receive Caller ID from an analogue trunk. If the Caller ID is received through an analogue trunk card on which no Caller ID card is mounted or through a port to which Caller ID Detection is disabled, this timer is not applicable.

Value Range

0–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

5.3 [3-1-3] Caller ID Modification
8.1 [6-1] System Speed Dial

Feature Guide References

1.18.1 Caller ID

◆ Caller ID—Visual Caller ID Display

Specifies the length of time that a Caller ID number, with the Call Waiting tone offered by an analogue line from the telephone company, is shown on the display. The Caller ID number flashes on the display for five seconds, followed by a 10-second pause, then flashes again for five seconds.

Value Range

0–250 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting
1.8.5.2 Call Waiting Tone
1.18.1 Caller ID

◆ Extension PIN—Lock Counter

Specifies the number of successive incorrect PIN entries allowed before the extension PIN is locked. A locked extension PIN cannot be used until reset from the extension assigned as manager. (Specifying "None" disables this counter.)

Value Range

None, 1–15

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.9.5 Walking COS
1.9.6 Verification Code Entry
1.28.1 Extension Personal Identification Number (PIN)

◆ External Sensor—Ring Duration

Specifies the length of time that the PBX waits for the called party to answer before cancelling a sensor call.

Value Range

10 × n (n=1–15) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.17.9 External Sensor

◆ Incoming Call Inter-digit Timer—DDI / DID

Specifies the length of time between digits when receiving a DDI/DID number from a public network. The call will be redirected to a PBX operator when this timer expires.

Value Range

0–30 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Incoming Call Inter-digit Timer—TIE

Specifies the length of time between digits when receiving a dialled number from a TIE line. The call will be redirected to a PBX operator when this timer expires.

Value Range

3–30 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

11.1 [9-1] TIE Table

Feature Guide References

1.30.1 TIE Line Service

◆ PT Display—PT Last Display Duration in Idle Mode

Specifies the length of time that the current information remains on the display after the extension returns to idle status.

Value Range

1–15 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

None

◆ Air Synchronisation—Watching Degeneracy

Specifies the length of time that a Slave CS can maintain an ongoing call after air synchronisation is lost.

Value Range

60 × n (n=0–300) s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

13.6 [11-5] Air Synchronisation

Feature Guide References

None

◆ Voice Mail (Caller from VM to CO)—On-hook Wait Time

Specifies the length of time from when the VPS seizes a trunk (for example, to transfer a call) until the VPS goes on hook. If the time specified here is too short, the VPS will be unable to dial the number and make a connection.

Value Range

1–30 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

1.24 Voice Mail Features

◆ During Conversation—DTMF Signal Length

Specifies the length of time that a DTMF signal is sent when a number is dialled from a PT or PS during a conversation.

Value Range

80 ms, 160 ms, 240 ms, 320 ms

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

None

◆ During Conversation—DTMF Inter-digit Pause

Specifies the length of time between DTMF signals when numbers are dialled in succession from a PT or PS during a conversation.

Value Range

64 + 16 × n (n=0–15) ms

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

None

Feature Guide References

None

◆ During Conversation—Pause Signal Time

Specifies the length of the pause inserted when the PAUSE button is pressed during a conversation.

Value Range
1.5 s, 2.5 s, 3.5 s, 4.5 s

Maintenance Console Location
4.5 [2-3] Timers & Counters

Programming Manual References
None

Feature Guide References
1.5.4.7 Pause Insertion

◆ System Wireless—PS Out of Range Timer
When the destination of an incoming call is a PS, specifies the length of time the PBX searches for the PS before setting its status to Out of Range.
If "0" is assigned, the timer is controlled by the cell station.

Value Range
0 s, 4 s, 8 s

Maintenance Console Location
4.5 [2-3] Timers & Counters

Programming Manual References
4.18 [2-9] System Options—◆ System Wireless—Out of Range Registration

Feature Guide References
1.30.6.1 PS Roaming by Network ICD Group

◆ SVM—Recording Time
Specifies the maximum length of a message recorded by the SVM feature.

Value Range
1–600 s

Maintenance Console Location
4.5 [2-3] Timers & Counters

Programming Manual References
6.9 [4-1-7] Wired Extension—Simplified Voice Message
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM—Dial Tone Continuous Time

Specifies the length of time that dial tone 3 is heard after all messages stored by the SVM feature for an extension are finished playing.

Value Range

1–60 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

6.9 [4-1-7] Wired Extension—Simplified Voice Message
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ Conference Group Call—Ring Duration

Specifies the length of time that a conference group call will ring. The conference group call will be established with members who answer within this time. If no members answer the call before this timer expires, the call is cancelled.

Value Range

0–120 s

Maintenance Console Location

4.5 [2-3] Timers & Counters

Programming Manual References

4.9 [2-6-1] Numbering Plan—Main—Features—◆ Conference Group Call Operation
4.12 [2-7-1] Class of Service—COS Settings—Miscellaneous—◆ Conference Group Call Operation
5.27 [3-10] Conference Group

Feature Guide References

1.15.1 Conference Group Call

4.6 [2-4] Week Table

A specific time mode (day, night, lunch, or break) can be selected for operation depending on the time of day. The time mode can be switched either automatically or manually. Select the desired switching mode from the **Time Service Switching Mode** option.
Time Table numbers correspond to tenant numbers (for example, Tenant 1 uses Time Table 1). Select the desired Time Table from the **Time Table No.** list.
When in Automatic Switching mode, the time modes of the tenant are switched as programmed in the corresponding Time Table. Manual switching is possible only from an authorised extension (determined by COS).

- To adjust the currently displayed Time Table, click and drag the divisions between two time periods.
- To programme the time blocks of the currently displayed Time Table, including adding or deleting time blocks, click **Time Setting**.

4.7 [2-4] Week Table—Time Setting

The start times of 4 different time blocks can be programmed for each day of the week, for the selected Time Table, as well as the start and end times of up to 3 break periods.

◆ 1. Day/Lunch/Night—Day1 Start, Lunch Start, Day2 Start, Night Start—Setting

Enables the setting of the start time for each time block.

Value Range

Disable, Enable

Maintenance Console Location

4.7 [2-4] Week Table—Time Setting

Programming Manual References

None

Feature Guide References

2.2.3 Tenant Service
2.2.4 Time Service

◆ 1. Day/Lunch/Night—Day1 Start, Lunch Start, Day2 Start, Night Start—Hour, Minute

Specifies the start time for each time block. Times can only be set when ◆ **1. Day/Lunch/Night—Day1 Start, Lunch Start, Day2 Start, Night Start—Setting** is set to **Enable**.

Value Range

00:00–23:59

Maintenance Console Location

4.7 [2-4] Week Table—Time Setting

Programming Manual References

None

Feature Guide References

2.2.3 Tenant Service
2.2.4 Time Service

◆ 2. Break—Break 1–3 Start—Setting

Enables the setting of the start time for each break period.

Value Range
Disable, Enable

Maintenance Console Location
4.7 [2-4] Week Table—Time Setting

Programming Manual References
None

Feature Guide References
2.2.3 Tenant Service
2.2.4 Time Service

◆ 2. Break—Break 1–3 Start—Hour, Minute
Specifies the start time for each break period. Times can only be set when ◆ **2. Break—Break 1–3 Start—Setting** is set to **Enable**.

Value Range
00:00–23:59

Maintenance Console Location
4.7 [2-4] Week Table—Time Setting

Programming Manual References
None

Feature Guide References
2.2.3 Tenant Service
2.2.4 Time Service

◆ 2. Break—Break 1–3 End—Hour, Minute
Specifies the end time for each break period. Times can only be set when ◆ **2. Break—Break 1–3 Start—Setting** is set to **Enable**.

Value Range
00:00–23:59

Maintenance Console Location
4.7 [2-4] Week Table—Time Setting

Programming Manual References

None

Feature Guide References

2.2.3 Tenant Service
2.2.4 Time Service

4.8 [2-5] Holiday Table

A specific time mode (day, night, lunch, or break) can be selected for operation during holidays. Select the desired time mode from the **Holiday Mode** list.
The start and end dates of a maximum of 24 different holidays can be programmed.

◆ Holiday Table—Setting

Enables the setting of the holiday.

Value Range

Disable, Enable

Maintenance Console Location

4.8 [2-5] Holiday Table

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Holiday Table—Start Date—Month

Specifies the month of the holiday start date.

Value Range

1–12

Maintenance Console Location

4.8 [2-5] Holiday Table

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Holiday Table—Start Date—Day

Specifies the day of the holiday start date.

Value Range

1–31

Maintenance Console Location

4.8 [2-5] Holiday Table

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Holiday Table—End Date—Month

Specifies the month of the holiday end date.

Value Range

1–12

Maintenance Console Location

4.8 [2-5] Holiday Table

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Holiday Table—End Date—Day

Specifies the day of the holiday end date.

Value Range

1–31

Maintenance Console Location

4.8 [2-5] Holiday Table

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

4.9 [2-6-1] Numbering Plan—Main

Details of the extension numbering schemes, feature access numbers, numbers to access other PBXs in a network, and KX-T7710 One-touch Dialling numbers can be programmed here.
For more information on flexible numbering, see "2.3.6 Flexible Numbering/Fixed Numbering" in the Feature Guide.

Extension

The leading numbers and the number of additional digits of the extension numbers for a maximum of 64 different extension numbering schemes can be programmed.

◆ Leading Number

Specifies the leading number of extension numbers and floating extension numbers.

Value Range

Max. 3 digits (consisting of 0–9)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
5.20 [3-7-2] VM(DPT) Group—Unit Settings
5.23 [3-8-2] VM(DTMF) Group—Group Settings
6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings
7.4 [5-3-2] Voice Message—DISA Message
13.1 [11-1] Main

Feature Guide References

None

◆ No. of Additional Digits

Specifies the number of additional digits following the leading number.

Value Range

None: 0 digit
X: 1 digit
XX: 2 digits

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

None

Features

Feature numbers to access various PBX features can be programmed. The following features are available while hearing a dial tone.

◆ Operator Call

Specifies the feature number used to call the operator.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.4 [2-2] Operator & BGM
8.6 [6-6] Tenant

Feature Guide References

2.2.5 Operator Features

◆ Idle Line Access (Local Access)

Specifies the feature number used to make a trunk call by Idle Line Access (selects an idle trunk automatically).

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.2 [3-1-2] Trunk Group—Local Access Priority

Feature Guide References

1.5.5.3 Trunk Access

◆ Trunk Group Access

Specifies the feature number used to make a trunk call using an idle trunk from a certain trunk group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

None

◆ TIE Line Access

Specifies the feature number used to make a TIE line call.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

11.1 [9-1] TIE Table

Feature Guide References

1.30.1 TIE Line Service

◆ Redial

Specifies the feature number used to redial the last number dialled.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ System Speed Dialling / Personal Speed Dialling

Specifies the feature number used to make a call using a System/Personal Speed Dialling number.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

6.4 [4-1-3] Wired Extension—Speed Dial
8.1 [6-1] System Speed Dial

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

◆ Personal Speed Dialling - Programming

Specifies the feature number used to programme Personal Speed Dialling numbers at an extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

◆ Doorphone Call

Specifies the feature number used to make a call to a doorphone.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

7.1 [5-1] Doorphone

Feature Guide References

1.17.1 Doorphone Call

◆ Group Paging

Specifies the feature number used to page a certain paging group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.10 [3-4] Paging Group

Feature Guide References

1.16.1 Paging

◆ External BGM On / Off

Specifies the feature number, available for manager extensions, used to turn on or off the external BGM.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.4 [2-2] Operator & BGM
4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager

Feature Guide References

1.17.4 Background Music (BGM)

◆ OGM Record / Clear / Playback

Specifies the feature number, available for manager extensions, used to record, clear, or play back a certain OGM.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message
4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager

Feature Guide References

1.17.5 Outgoing Message (OGM)

◆ Single CO Line Access

Specifies the feature number used to make a trunk call using a certain trunk.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

1.5.5.3 Trunk Access

◆ Parallel Telephone (Ring) Mode Set / Cancel

Specifies the feature number used to set or cancel an SLT connected in parallel with a DPT to ring when receiving an incoming call.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.11.9 Parallelled Telephone

◆ Group Call Pickup

Specifies the feature number used to answer a call ringing at a certain call pickup group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.8 [3-3] Call Pickup Group

Feature Guide References

1.4.1.3 Call Pickup

◆ Directed Call Pickup

Specifies the feature number used to answer a call ringing at a certain extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Call Pickup Deny
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Call Pickup Deny

Feature Guide References

1.4.1.3 Call Pickup

◆ TAFAS Answer

Specifies the feature number used to answer a trunk call notified through an external pager.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
7.2 [5-2] External Pager

Feature Guide References
1.17.3 Trunk Answer From Any Station (TAFAS)

◆ Group Paging Answer
Specifies the feature number used to answer a page to a paging group.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
5.10 [3-4] Paging Group

Feature Guide References
1.16.1 Paging

◆ Automatic Callback Busy Cancel
Specifies the feature number used to cancel Automatic Callback Busy.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
None

Feature Guide References

1.8.1 Automatic Callback Busy (Camp-on)

◆ User Remote Operation / Walking COS / Verification Code

Specifies the feature number used to change the COS of an extension temporarily, and also change the feature settings (for example, FWD, DND) of an extension from another extension or through DISA.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Remote Operation by Other Extension

Feature Guide References

1.9.5 Walking COS
1.9.6 Verification Code Entry

◆ Wireless XDP Parallel Mode Set / Cancel

Specifies the feature number used to set or cancel Wireless XDP Parallel mode.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Accept Wireless XDP Parallel Mode Set by PS

Feature Guide References

1.25.5 Wireless XDP Parallel Mode

◆ Account Code Entry

Specifies the feature number used to enter an Account Code.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.5.4.3 Account Code Entry

◆ Call Hold / Call Hold Retrieve

Specifies the feature number used to hold a call or retrieve a call on hold from the holding extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ Call Hold Retrieve : Specified with a Holding Extension Number

Specifies the feature number used to retrieve a held call from a different extension by specifying a holding extension number.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ Call Park / Call Park Retrieve

Specifies the feature number used to hold a call in a parking zone or retrieve a call held in a parking zone.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Hold Retrieve : Specified with a Held CO Line Number

Specifies the feature number used to retrieve a held trunk call from a different extension by specifying the held trunk number.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ Door Open

Specifies the feature number used to open a door.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

7.1 [5-1] Doorphone

Feature Guide References

1.17.2 Door Open

◆ External Relay Access

Specifies the feature number used to activate a relay.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

7.6 [5-4] External Relay

Feature Guide References

1.17.10 External Relay Control

◆ External Feature Access

Specifies the feature number used to access the features of a host PBX or the telephone company.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.11.7 External Feature Access (EFA)

◆ SIP Refer (Blind)

Specifies the feature number used to perform a blind transfer from a SIP extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.31.2 SIP (Session Initiation Protocol) Extension

◆ ISDN Hold

Specifies the feature number used to hold a call using the ISDN service of the telephone company, instead of the PBX feature.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.21.1.6 Call Hold (HOLD)—by ISDN

◆ COLR Set / Cancel

Specifies the feature number used to set or cancel COLR, which suppresses the presentation of the called party's number to the caller.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

◆ CLIR Set / Cancel

Specifies the feature number used to set or cancel CLIR, which suppresses the presentation of the caller's number to the called party.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

◆ Switch CLIP of CO Line / Extension

Specifies the feature number used to send either the CLIP number of the trunk in use (subscriber's number) or the extension to the network.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ Subscriber Number
3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ Subscriber Number
6.1 [4-1-1] Wired Extension—Extension Settings—ISDN CLIP—◆ CLIP ID
6.10 [4-2-1] Portable Station—Extension Settings—ISDN CLIP—◆ CLIP ID

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ MCID

Specifies the feature number used to ask the telephone company to trace a malicious call. This feature can be used during a call or while hearing a reorder tone after the caller hangs up.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.21.1.9 Malicious Call Identification (MCID)

◆ ISDN-FWD (MSN) Set / Cancel / Confirm

Specifies the feature number used to set or cancel the FWD of incoming ISDN calls to an outside party using the ISDN service of the telephone company (instead of the PBX), or confirm the FWD setting.
Extension users can set the FWD destination to the network on an MSN basis.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.21.1.4 Call Forwarding (CF)—by ISDN (P-MP)
1.21.1.5 Call Forwarding (CF)—by ISDN (P-P)

◆ Message Waiting Set / Cancel / Call Back

Specifies the feature number used to set or cancel Message Waiting, or call back the caller.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.19.1 Message Waiting

◆ FWD/DND Set / Cancel: Call from CO & Extension

Specifies the feature number used to set or cancel FWD/DND for incoming trunk and intercom calls.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1 Call Forwarding (FWD)/Do Not Disturb (DND)

◆ FWD/DND Set / Cancel: Call from CO

Specifies the feature number used to set or cancel FWD/DND for incoming trunk calls.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1 Call Forwarding (FWD)/Do Not Disturb (DND)

◆ FWD/DND Set / Cancel: Call from Extension

Specifies the feature number used to set or cancel FWD/DND for incoming intercom calls.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References
1.3.1 Call Forwarding (FWD)/Do Not Disturb (DND)

◆ FWD No Answer Timer Set
Specifies the feature number used to set the length of time before a call is forwarded.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References
1.3.1.2 Call Forwarding (FWD)

◆ Group FWD Set / Cancel: Call from CO & Extension
Specifies the feature number used to set or cancel FWD for incoming trunk and intercom calls to an incoming call distribution group.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features
1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

◆ Group FWD Set / Cancel: Call from CO

Specifies the feature number used to set or cancel FWD for incoming trunk calls to an incoming call distribution group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features
1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

◆ Group FWD Set / Cancel: Call from Extension

Specifies the feature number used to set or cancel FWD for incoming intercom calls to an incoming call distribution group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features
1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

◆ Call Pickup Deny Set / Cancel

Specifies the feature number used to set or cancel Call Pickup Deny (i.e., preventing other extensions from picking up calls to your extension).

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
None

Feature Guide References
1.4.1.3 Call Pickup

◆ Paging Deny Set / Cancel
Specifies the feature number used to set or cancel Paging Deny (i.e., preventing other extensions from paging your extension).

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
5.10 [3-4] Paging Group

Feature Guide References
1.16.1 Paging

◆ Walking Extension
Specifies the feature number used to use the same extension settings at a new extension.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
None

Feature Guide References

1.28.3 Walking Extension Features

◆ Data Line Security Set / Cancel

Specifies the feature number used to set or cancel Data Line Security (i.e., preventing signals from other extensions during data transmission).

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.11.5 Data Line Security

◆ Manual Call Waiting for Extension Call

Specifies the feature number used to set or change the method of receiving a Call Waiting notification from an extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting

◆ Automatic Call Waiting

Specifies the feature number used to set or cancel a Call Waiting notification from a trunk, doorphone, or a call via an incoming call distribution group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting

◆ Executive Override Deny Set / Cancel

Specifies the feature number used to set or cancel Executive Busy Override (i.e., preventing other extensions from joining your conversation).

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Executive—◆ Executive Busy Override
4.12 [2-7-1] Class of Service—COS Settings—Executive—◆ Executive Busy Override Deny

Feature Guide References

1.8.2 Executive Busy Override

◆ Not Ready (Manual Wrap-up) Mode On / Off

Specifies the feature number used to enter or leave Not Ready mode.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Log-in / Log-out

Specifies the feature number used to join or leave an incoming call distribution group.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Incoming Call Queue Monitor

Specifies the feature number, available only for extensions assigned as a supervisor, used to monitor the status of an incoming call distribution group with the extension display.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ Supervisor Extension Number

Feature Guide References

1.2.2.8 Supervisory Feature

◆ Hot Line (Pickup Dial) Program Set / Cancel

Specifies the feature number used to set/cancel the Hot Line feature, or programme the number to be automatically dialled.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Hot Line (Pickup Dial) Start

Feature Guide References

1.6.1.7 Hot Line

◆ Absent Message Set / Cancel

Specifies the feature number used to set or cancel the display of an Absent Message.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.19.2 Absent Message

◆ BGM Set / Cancel

Specifies the feature number used to set or cancel the BGM heard through the telephone speaker while on-hook.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.4 [2-2] Operator & BGM

Feature Guide References

1.17.4 Background Music (BGM)

◆ Remote Timed Reminder (Remote Wakeup Call)

Specifies the feature number used to set or cancel a Timed Reminder remotely (Wake-up Call).

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
None

Feature Guide References
1.28.4 Timed Reminder

◆ Timed Reminder Set / Cancel
Specifies the feature number used to set or cancel a Timed Reminder.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
None

Feature Guide References
1.28.4 Timed Reminder

◆ Printing Message
Specifies the feature number used to select a Printing Message to be output on SMDR.

Value Range
Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location
4.9 [2-6-1] Numbering Plan—Main

Programming Manual References
8.2 [6-2] Hotel & Charge—Main—◆ SMDR for External Hotel Application 2—Printing Message 1–8

Feature Guide References

1.26.2 Printing Message

◆ Extension Dial Lock Set / Cancel

Specifies the feature number used to lock or unlock an extension to make certain trunk calls and change the forwarding destination, using the Extension Dial Lock feature.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.9.3 Extension Dial Lock

◆ Time Service (Day / Lunch / Break / Night) Switch

Specifies the feature number, available for manager extensions, used to change the time mode manually.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Time Service Switch
4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager

Feature Guide References

2.2.4 Time Service

◆ Remote Extension Dial Lock Off

Specifies the feature number, available for manager extensions, used to unlock other extensions using the Extension Dial Lock feature.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager

Feature Guide References

1.9.3 Extension Dial Lock

◆ Remote Extension Dial Lock On

Specifies the feature number, available for manager extensions, used to lock other extensions using the Extension Dial Lock feature.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager

Feature Guide References

1.9.3 Extension Dial Lock

◆ Extension Feature Clear

Specifies the feature number used to reset certain features of an extension to the default values.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.28.2 Extension Feature Clear

◆ Extension PIN Set / Cancel

Specifies the feature number used to set a PIN for an extension.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

◆ Dial Information (CTI)

Specifies the feature number used to send dial information to the CTI feature instead of the PBX.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ Conference Group Call Operation

Specifies the feature number used to make a conference group call.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.5 [2-3] Timers & Counters—Miscellaneous—◆ Conference Group Call—Ring Duration

4.12 [2-7-1] Class of Service—COS Settings—Miscellaneous—◆ Conference Group Call Operation
5.27 [3-10] Conference Group

Feature Guide References

1.15.1 Conference Group Call

◆ Centralised BLF Monitor Cancel

Specifies the feature number used to cancel monitoring of an extension using an NDSS button.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

11.1 [9-1] TIE Table

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Busy Out Cancel

Specifies the feature number used to cancel the Busy Out status of an analogue trunk.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.18 [2-9] System Options—Option 5—◆ Busy Out—Busy Out for Analogue CO

Feature Guide References

1.5.4.6 Trunk Busy Out

◆ Simplified Voice Message Access

Specifies the feature number used to access the SVM feature to record, listen to and delete messages.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

6.9 [4-1-7] Wired Extension—Simplified Voice Message
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

Other PBX Extension

Other PBX extension numbers can be used to easily call extensions connected to PBXs at different locations in a TIE line network. The leading numbers of all PBXs in the network that will be called should be entered in this table. A maximum of 16 leading numbers can be programmed.

◆ Dial

Specifies the leading extension number of the other PBX.

Value Range

Max. 3 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

11.1 [9-1] TIE Table—◆ Leading Number

Feature Guide References

1.30.1 TIE Line Service

KX-T7710

The settings of the MESSAGE button and One-touch buttons on the KX-T7710 can be programmed.

◆ Dial

Indicates the DTMF tone dial required by the PBX to recognise it and dial the preprogrammed number for each button (reference only).

Value Range

B: For MESSAGE button
A1: For One-touch button 1
A2: For One-touch button 2
A3: For One-touch button 3

A4: For One-touch button 4
A5: For One-touch button 5
A6: For One-touch button 6
A7: For One-touch button 7
A8: For One-touch button 8

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.6.1.3 KX-T7710 One-touch Dialling

◆ Message Key—Phone Number

Specifies the feature number or telephone number dialled when the MESSAGE button on the KX-T7710 is pressed. By default, this is set to the feature number used to call back a caller who left a message waiting indication, ◆ **Message Waiting Set / Cancel / Call Back**.
This is available only when the position of the Mode switch lever on the KX-T7710 is set to "PBX".

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

4.9 [2-6-1] Numbering Plan—Main—Features—◆ Message Waiting Set / Cancel / Call Back

Feature Guide References

1.6.1.3 KX-T7710 One-touch Dialling

◆ One-touch Dial 01–08—Phone Number

Specifies the number dialled when a one-touch button on the KX-T7710 is pressed.
This is available only when the position of the Mode switch lever on the KX-T7710 is set to "PBX".

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

4.9 [2-6-1] Numbering Plan—Main

Programming Manual References

None

Feature Guide References

1.6.1.3 KX-T7710 One-touch Dialling

4.10 [2-6-2] Numbering Plan—Quick Dial

Quick Dialling numbers are used to call extensions or outside parties, or access certain features without having to dial their full numbers. It is possible to register Quick Dialling numbers that overlap with other registered numbers (refer to "**Automatic Rerouting of VoIP Calls to Public Trunks**" in the Feature Guide).
A maximum of 80 Quick Dialling numbers can be programmed in Basic Memory, and a maximum of 4000 Quick Dialling numbers can be programmed in Expansion. To display other sets of numbers, click the applicable tab.
For more information on flexible numbering, see "2.3.6 Flexible Numbering/Fixed Numbering" in the Feature Guide.

◆ Use quick dial for rerouting to public CO when TIE line does not work

Specifies whether to check if the quick dial numbering plan is compatible (does not overlap) with the main numbering plan.

Value Range

Disable: Checks whether the quick dial numbering plan is compatible with the main numbering plan.
Enable: Does not check whether the quick dial numbering plan is compatible with the main numbering plan.

Maintenance Console Location

4.10 [2-6-2] Numbering Plan—Quick Dial

Programming Manual References

None

Feature Guide References

1.6.1.6 Quick Dialling
1.30.2 Voice over Internet Protocol (VoIP) Network
2.3.6 Flexible Numbering/Fixed Numbering

◆ Dial

Specifies the Quick Dialling number.

Value Range

Basic Memory: Max. 4 digits (consisting of 0–9, *, and #)
Expand 1–4000: Max. 8 digits (consisting of 0–9, *, and #)

Maintenance Console Location

4.10 [2-6-2] Numbering Plan—Quick Dial

Programming Manual References

None

Feature Guide References

1.6.1.6 Quick Dialling
1.30.2 Voice over Internet Protocol (VoIP) Network
2.3.6 Flexible Numbering/Fixed Numbering

◆ Phone Number

Specifies the number to be dialled when the corresponding Quick Dialling number is used.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

4.10 [2-6-2] Numbering Plan—Quick Dial

Programming Manual References

None

Feature Guide References

1.6.1.6 Quick Dialling
1.30.2 Voice over Internet Protocol (VoIP) Network
2.3.6 Flexible Numbering/Fixed Numbering

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Feature numbers used to access various PBX features can be programmed. The following features are available while hearing a busy, DND, or ringback tone. Each feature must have a unique feature number. For more information on flexible numbering, see "2.3.6 Flexible Numbering/Fixed Numbering" in the Feature Guide.

◆ BSS / OHCA / Whisper OHCA / DND Override

Specifies the feature number used to notify a busy extension of a second call by Call Waiting, or call an extension in DND mode.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 2—◆ Manual C. Waiting for Extension Call
6.10 [4-2-1] Portable Station—Extension Settings—Option 2—◆ Manual C. Waiting for Extension Call

Feature Guide References

1.1.3.3 Call Waiting
1.3.1.3 Do Not Disturb (DND)
1.8.5.2 Call Waiting Tone
1.8.5.3 Off-hook Call Announcement (OHCA)
1.8.5.4 Whisper OHCA

◆ Executive Busy Override

Specifies the feature number used to interrupt an existing call to establish a three-party conference call.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Executive—◆ Executive Busy Override
6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Executive Override Deny
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Executive Override Deny

Feature Guide References

1.8.2 Executive Busy Override

◆ Alternate Calling - Ring / Voice

Specifies the feature number used to allow a caller to change the called extension's preset call receiving method to ring tone or voice.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

None

Feature Guide References

1.5.3 Intercom Call

◆ Message Waiting Set

Specifies the feature number used to leave a Message Waiting notification.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

None

Feature Guide References

1.19.1 Message Waiting

◆ Call Monitor

Specifies the feature number used to listen to a busy extension's conversation.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Executive—◆ Call Monitor
6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Executive Override Deny
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Executive Override Deny

Feature Guide References

1.8.3 Call Monitor

◆ Automatic Callback Busy

Specifies the feature number used to reserve a busy line and receive callback ringing when the line becomes idle.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

None

Feature Guide References

1.8.1 Automatic Callback Busy (Camp-on)

◆ BSS / OHCA / Whisper OHCA / DND Override-2

Specifies the feature number used to notify a busy extension of a second call by Call Waiting, or call an extension in DND mode. This is the same setting as ◆ **BSS / OHCA / Whisper OHCA / DND Override** on this screen, and can be used to provide two methods of activating the specified features. This can be useful, for example, if users prefer to use a separate feature number to activate DND Override.

Value Range

1 digit (0–9, *, or #)

Maintenance Console Location

4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 2—◆ Manual C. Waiting for Extension Call
6.10 [4-2-1] Portable Station—Extension Settings—Option 2—◆ Manual C. Waiting for Extension Call

Feature Guide References

1.1.3.3 Call Waiting
1.3.1.3 Do Not Disturb (DND)

1.8.5.2 Call Waiting Tone
1.8.5.3 Off-hook Call Announcement (OHCA)
1.8.5.4 Whisper OHCA

4.12 [2-7-1] Class of Service—COS Settings

Each extension, doorphone port, incoming call distribution group, and trunk group is assigned a Class of Service (COS). Certain features can be programmed to behave differently depending on the COS. A maximum of 64 COS levels can be programmed.

TRS

Restrictions to features related to making trunk calls can be programmed for each COS.

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ TRS Level—Day, Lunch, Break, Night

Specifies the Toll Restriction (TRS)/Call Barring (Barring) level for making trunk calls in each time mode.

Value Range

1: Allows all trunk calls
2–6: Restricts trunk calls according to the combination of the Denied and Exception Code Tables
7: Restricts all trunk calls

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.6 [2-4] Week Table
5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ COS
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ COS
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
7.1 [5-1] Doorphone—◆ COS
9.1 [7-1] Denied Code
9.2 [7-2] Exception Code

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

◆ TRS Level on Extension Lock

Specifies the TRS/Barring level for making trunk calls when an extension is locked using the Extension Dial Lock feature.

Value Range

1: Allows all trunk calls
2–6: Restricts trunk calls according to the combination of the Denied and Exception Code Tables
7: Restricts all trunk calls

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
9.1 [7-1] Denied Code
9.2 [7-2] Exception Code

Feature Guide References

1.9.3 Extension Dial Lock

◆ TRS Level for System Speed Dialling

Specifies the TRS/Barring level for making a trunk call using System Speed Dialling numbers, which overrides the TRS/Barring set for the current time mode.

Value Range

1: Allows all trunk calls
2–6: Restricts trunk calls according to the combination of the Denied and Exception Code Tables
7: Restricts all trunk calls

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
8.1 [6-1] System Speed Dial
9.5 [7-5] Miscellaneous—◆ TRS Override by System Speed Dialling

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

CO & SMDR

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ Extension-CO Line Call Duration Limit

Enables the extension-to-trunk call duration feature. The maximum call duration can be set using ◆ **Extension-CO Duration Time (*60s)** on **5.1 [3-1-1] Trunk Group—TRG Settings**.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.18 [2-9] System Options—Option 2—◆ Extension - CO Call Limitation—For Incoming Call
5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ COS
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.11.8 Trunk Call Limitation

◆ Transfer to CO

Enables the transferring of calls to trunks.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.12.1 Call Transfer

◆ Call Forward to CO

Enables the forwarding of calls to trunks.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.3 [4-1-2] Wired Extension—FWD/DND
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Account Code Mode

Specifies whether the entry of an account code is optional or mandatory when making a trunk call.

Value Range

Option, Forced

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.5.4.3 Account Code Entry

◆ CF (MSN)

Enables forwarding of ISDN calls to an outside party using the ISDN service of the telephone company, instead of the PBX, on an MSN basis.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

1.21.1.4 Call Forwarding (CF)—by ISDN (P-MP)
1.21.1.5 Call Forwarding (CF)—by ISDN (P-P)

◆ Outgoing CO Call Printout (SMDR)

Enables the automatic recording of information about outgoing trunk calls on SMDR.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
13.1 [11-1] Main

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

Assistant

◆ COS Name

Specifies the name of the COS.

Value Range
Max. 20 characters

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References
None

Feature Guide References
2.2.1 Class of Service (COS)

◆ Call Pickup by DSS
Enables using a DSS button to pick up a call to a specified extension.

Value Range
Disable, Enable

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.5 [4-1-4] Wired Extension—Flexible Button
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
6.13 [4-2-3] Portable Station—Flexible Button
6.17 [4-3] DSS Console

Feature Guide References
1.4.1.3 Call Pickup

◆ DND Override
Enables making a call to an extension in DND mode by entering the feature number.

Value Range
Disable, Enable

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.3 [4-1-2] Wired Extension—FWD/DND
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

◆ OHCA / Whisper OHCA

Enables using OHCA/Whisper OHCA as a method of second call notification by entering the feature number.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.8.5 Second Call Notification to Busy Extension
1.8.5.3 Off-hook Call Announcement (OHCA)
1.8.5.4 Whisper OHCA

◆ Transfer to busy Extension w/o BSS Operation

Enables a transferred call to be queued when the transfer destination is busy.

Value Range

Disable: The call is not transferred. (If the transfer destination has enabled the call waiting notification feature, it is possible to inform the destination about the call transfer.)
Enable: The transferred call is queued for the time period specified in ◆ **Recall—Transfer Recall** in **4.5 [2-3] Timers & Counters**.

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.5 [2-3] Timers & Counters—◆ Recall—Transfer Recall

Feature Guide References

1.12.1 Call Transfer

◆ Automatic Answer (Caller)

Enables a caller to have calls automatically answered when the destination has set Hands-free Answerback.

Value Range

Disable: Even if the destination has set Hands-free Answerback, the call will not be automatically answered.
Enable: The call will be automatically answered.

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

1.4.1.4 Hands-free Answerback

Executive

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ Call Monitor

Enables listening to a busy extension’s conversation.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.8.3 Call Monitor

◆ Executive Busy Override

Enables interrupting an existing call to establish a three-party conference call.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.8.2 Executive Busy Override

◆ Executive Busy Override Deny

Enables preventing other extensions from interrupting calls.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

2.2.1 Class of Service (COS)

Manager

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ Group Forward Set

Enables setting call forwarding for calls to an incoming call distribution group.

Value Range

Disable: An extension cannot set call forwarding for any group.
Enable-All: An extension can set call forwarding for all groups.
Enable-Group: An extension can only set call forwarding for the group to which the extension belongs.

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Programming Mode Level

Specifies the level of authorisation for performing PT programming.

Value Range

Disable: A PT user cannot perform any programming.
PROG Only: A PT user can perform only personal programming.
PROG and PROG **/*#: A PT user can perform both personal and system programming.

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

2.3.2 PT Programming

◆ Manager

Specifies the authorisation to use manager features.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

2.2.6 Manager Features

◆ Time Service Switch

Enables manual switching of time modes.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.6 [2-4] Week Table
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

2.2.4 Time Service

PDN/SDN

An SDN button allows a PT user to see the current status of the corresponding PDN extension, and to pick up or transfer calls to that extension easily. The settings here control how SDN buttons operate for extensions at each COS level.

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ SDN Key Mode

Selects what happens when an extension user presses an SDN button while on hook.

Value Range

Enhanced DSS: The registered (owner) extension is called.
Standard SDN: A dial tone is heard.

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Making call by COS of SDN key's owner

Selects whether an extension that uses an SDN button to make calls is given the COS of the SDN button's registered (owner) extension.
This setting is only available when ◆ **SDN Key Mode** above is set to "Standard SDN".

Value Range
Disable, Enable

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References
4.12 [2-7-1] Class of Service—COS Settings—PDN/SDN—◆ COS Name

Feature Guide References
1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ SDN Key Assignment by PT Program
Selects whether PT users can create SDN buttons on their own extensions using PT programming.

Value Range
Disable, Enable

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References
None

Feature Guide References
1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

Optional Device & Other Extensions

◆ COS Name
Specifies the name of the COS.

Value Range
Max. 20 characters

Maintenance Console Location
4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References
None

Feature Guide References

2.2.1 Class of Service (COS)

◆ Door Unlock

Enables using the door opener feature.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.17.2 Door Open

◆ External Relay Access

Enables access to external relays.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

7.6 [5-4] External Relay

Feature Guide References

1.17.10 External Relay Control

◆ Accept the Call from DISA

Enables reception of calls from DISA.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ Remote Operation by Other Extension

Allows the Walking COS feature to be used from a remote location (inside the PBX, or outside the PBX using DISA).

Value Range

Allow, Deny

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References

1.9.5 Walking COS

◆ Accept Wireless XDP Parallel Mode Set by PS

Allows Wireless XDP Parallel Mode to be set by a PS.

Value Range

Allow, Deny

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS

Feature Guide References

1.25.5 Wireless XDP Parallel Mode

CA

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ CA Chat

Enables the chat feature when using Communication Assistant (CA) Client.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—CA—◆ CA ICD Group Log Out

Feature Guide References

1.32.3 CA (Communication Assistant)

◆ CA ICD Group Log Out

Enables logging out of ICD groups when using Communication Assistant (CA) Client.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—CA—◆ CA Chat

Feature Guide References

1.32.3 CA (Communication Assistant)

Miscellaneous

◆ COS Name

Specifies the name of the COS.

Value Range

Max. 20 characters

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

2.2.1 Class of Service (COS)

◆ Conference Group Call Operation

Enables making conference group calls.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

4.5 [2-3] Timers & Counters—Miscellaneous—◆ Conference Group Call—Ring Duration
4.9 [2-6-1] Numbering Plan—Main—Features—◆ Conference Group Call Operation
5.27 [3-10] Conference Group

Feature Guide References

1.15.1 Conference Group Call

◆ Accept a collect call (for Brazil)

Enables accepting collect calls.

Value Range

Disable, Enable

Maintenance Console Location

4.12 [2-7-1] Class of Service—COS Settings

Programming Manual References

None

Feature Guide References

None

4.13 [2-7-2] Class of Service—External Call Block

Each COS can have different trunk groups available for making trunk calls, depending on the time mode (day/lunch/break/night). Select the desired time mode from the list.

◆ Outgoing Trunk Group 1–64 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 1–96 (for KX-TDE600)

Specifies the available trunk groups.

Value Range

Block (blue), Non Block

Maintenance Console Location

4.13 [2-7-2] Class of Service—External Call Block

Programming Manual References

4.6 [2-4] Week Table
6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings
12.1 [10-1] CO Line Settings

Feature Guide References

1.5.5.3 Trunk Access

4.14 [2-7-3] Class of Service—Internal Call Block

Internal Call Block determines the restrictions placed on making intercom calls. The extensions, incoming call distribution groups, and doorphones belonging to a certain COS can be programmed to not receive intercom calls from those belonging to a certain COS.

◆ COS Number of the Extension Which Receive the Call from Other Extension 1–64

Specifies the combinations of COS levels for which intercom calls are blocked.

Value Range

Block (blue), Non Block

Maintenance Console Location

4.14 [2-7-3] Class of Service—Internal Call Block

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ COS
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
7.1 [5-1] Doorphone—◆ COS

Feature Guide References

1.1.2.2 Internal Call Block

4.15 [2-8-1] Ring Tone Patterns—Call from CO

Different ring tone patterns can be selected for incoming trunk calls depending on the trunk group that the calls are received on. A maximum of 8 Ring Tone Pattern Tables can be programmed, and any pattern table can be selected for use by an extension.

◆ Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for incoming trunk calls.

Value Range

Single, Double, Triple, Option1, Option2

Maintenance Console Location

4.15 [2-8-1] Ring Tone Patterns—Call from CO

Programming Manual References

12.1 [10-1] CO Line Settings—◆ Trunk Group Number
6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

1.1.3.2 Ring Tone Pattern Selection

4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone

Different ring tone patterns can be selected for incoming doorphone calls depending on the doorphone port that the calls originate from. A maximum of 8 Ring Tone Pattern Tables can be programmed, and any pattern table can be selected for use by an extension.

◆ Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for incoming doorphone calls.

Value Range

Single, Double, Triple, S-Double, Option 1, Option 2

Maintenance Console Location

4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table
7.1 [5-1] Doorphone

Feature Guide References

1.1.3.2 Ring Tone Pattern Selection
1.17.1 Doorphone Call

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Different ring tone patterns can be selected for incoming intercom calls and ringing triggered by certain PBX features (Timed Reminder, Call Back, and Live Call Screening). A maximum of 8 Ring Tone Pattern Tables can be programmed, and any pattern table can be selected for use by an extension.
For more information on ring tone patterns, see "1.1.3.2 Ring Tone Pattern Selection" in the Feature Guide.

◆ Extension—Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for incoming intercom calls.

Value Range

Single, Double, Triple, Option 1, Option 2

Maintenance Console Location

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

None

◆ Timed Reminder—Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for Timed Reminder alarms.

Value Range

Single, Double, Triple, Option 1, Option 2

Maintenance Console Location

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

None

◆ Call Back—Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for callback ringing by Automatic Callback Busy.

Value Range

Single, Double, Triple, S-Double, Option 1, Option 2

Maintenance Console Location

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

None

◆ Live Call Screening—Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for LCS warning tones.

Value Range

Single, Double, Triple, Option 1, Option 2

Maintenance Console Location

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

None

◆ External Sensor—Ring Tone Pattern Plan 1–8

Specifies the ring tone pattern for calls from an external sensor.

Value Range

Single, Double, Triple, Option 1, Option 2

Maintenance Console Location

4.17 [2-8-3] Ring Tone Patterns—Call from Others

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References

None

4.18 [2-9] System Options

Various system settings can be programmed.

Option 1

◆ PT LCD—Date Display

Selects the order that the month and date are shown on the displays of extensions.

Value Range

Date-Month, Month-Date

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ PT LCD—Time Display

Selects the time format shown on the displays of extensions. The time display format assigned here applies when setting the Timed Reminder feature.

Value Range

12H, 24H

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.28.4 Timed Reminder

◆ PT LCD—Password / PIN Display

Selects whether passwords and PINs (Personal Identification Number) are hidden or shown on the displays of extensions while being entered.

Value Range

Hide, Display

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

◆ PT Fwd / DND—Fwd LED

Selects the light pattern of the FWD/DND button while the FWD feature is activated.

Value Range

On (Solid): Red on
Flash: Slow red flashing

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features
1.20.3 LED Indication

◆ PT Fwd / DND—DND LED

Selects the light pattern of the FWD/DND button while the DND feature is activated.

Value Range

On (Solid): Red on
Flash: Slow red flashing

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features
1.20.3 LED Indication

◆ PT Fwd / DND—Fwd/DND key mode when Idle

Selects the function of the FWD/DND button (fixed button) when it is pressed in idle status. (A FWD/DND button customised on a flexible button is always in FWD/DND Cycle Switch mode, and the mode cannot be changed.)

Value Range

FWD/DND Setting Mode: Enter programming mode for the FWD/DND setting.
FWD/DND Cycle Switch: Switch the FWD on/DND on/Off mode instead of entering the programming mode for the FWD/DND setting. (When there are separate FWD/DND settings for calls from trunks and calls from extensions, mode switching cannot be performed.)

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ PT Fwd / DND—Paging to DND Extension

Specifies whether extensions can receive paging when in DND mode.

Value Range

Do Not Page, Page

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND
5.10 [3-4] Paging Group

Feature Guide References

1.16.1 Paging

◆ PT Operation—Off Hook Monitor for KX-T74xx/T75xx/T76xx

Enables the use of Off-Hook Monitor with KX-T7400, KX-T7500, KX-T7600, or KX-DT300 series telephones and IP-PTs.

Value Range

Disable: The PT user's voice is sent through the handsfree microphone. The other party's voice is heard through the hands-free speaker.
Enable: The PT user's voice is sent through the handset microphone. The other party's voice is heard through both the hands-free speaker and the handset.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.11.2 Off-hook Monitor

◆ PT Operation—Privacy Release by SCO key

Selects the function of the S-CO button during a trunk call.

Value Range

Enable: Pressing the S-CO button activates the Privacy Release feature
Disable: Pressing the S-CO button switches the information shown on the PT display.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.14.1.3 Privacy Release

◆ PT Operation—One-touch Busy Override by SCO key

Specifies whether calls in progress can be joined (Executive Busy Override) simply by pressing the S-CO button.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.8.2 Executive Busy Override

◆ PT Operation—JOG Dial Speed

Selects the speed at which items scroll on the display when the Jog Dial is used.

Value Range

Normal, High Speed

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ PT Operation—PT Ring Off Setting

Specifies whether incoming call ringing can be turned off at individual extensions. If disabled, users cannot prevent incoming calls from ringing.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.1.3.2 Ring Tone Pattern Selection

◆ PT Operation—Automatic Answer for Call from CO after

Specifies the number of times a PT in Hands-free Answerback mode will ring before a conversation is established automatically when it receives a call from a trunk.

Value Range

No Ring, 1 Ring, 2 Rings, 3 Rings

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.4 Hands-free Answerback

◆ PT Operation—Automatic Hold by ICM / CO / ICD Group key

Selects whether calls are disconnected or held when an INTERCOM, PDN, CO, or ICD Group button is pressed while having a conversation.

Value Range

Disable (Disconnect), Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button
6.13 [4-2-3] Portable Station—Flexible Button

Feature Guide References

1.13.1 Call Hold

◆ PT Operation—Hold Key Mode

Selects which extensions can retrieve a held call or a call that is transferred by Call Transfer without Announcement feature.

Value Range

Hold: Any extension can retrieve a held call.
Exclusive Hold: Only the holding extension can retrieve a held call.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

Option 2

◆ Extension Clear—Call Waiting

Specifies whether the Call Waiting setting is cleared when Extension Feature Clear is performed.

Value Range

Clear, Do not clear

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.28.2 Extension Feature Clear

◆ Extension Clear—Fwd/DND

Specifies whether the FWD/DND setting is cleared when Extension Feature Clear is performed.

Value Range

Clear, Do not clear

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.28.2 Extension Feature Clear

◆ Extension Clear—Hot Line (Pickup Dial)

Specifies whether the Hot Line setting is cleared when Extension Feature Clear is performed.

Value Range
Clear, Do not clear

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
1.28.2 Extension Feature Clear

◆ CODEC—System CODEC
Selects the codec type for DPTs and PSs.

Value Range
A-Law, μ-Law

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
None

◆ CODEC—Network CODEC
Selects the codec type for ISDN or T1/E1 lines.

Value Range
A-Law, μ-Law

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References

None

◆ CODEC—Priority Notification from SIP Network (for Incoming Call)

Specifies whether the priority notification from the SIP network is used in place of the PBX's codec priority for SIP trunks.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ ISDN en Bloc Dial—[#] as End of Dial for en Bloc mode

Specifies whether to automatically send "#" as an end code when dialling to an ISDN line; if used as the end code, "#" will not be dialled out as part of a number even when the "#" key is pressed.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ ISDN Outgoing Call Type
3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ ISDN Outgoing Call Type

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ Redial—Automatic Redial when No Answer (ISDN)

Selects whether Automatic Redial to an ISDN line is performed when the called party does not answer within a preprogrammed time period.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

4.5 [2-3] Timers & Counters—◆ Automatic Redial—Redial Call Ring Duration

Feature Guide References

1.6.1.4 Last Number Redial

◆ Redial—Automatic Redial for Analogue CO

Selects whether Automatic Redial to an analogue trunk is performed when the called party does not answer within a preprogrammed time period.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

4.5 [2-3] Timers & Counters—◆ Automatic Redial—Redial Call Ring Duration

Feature Guide References

1.6.1.4 Last Number Redial

◆ Redial—Save Dial After Connection to Redial Memory

Specifies whether any digits dialled after the called party answers (for example, to access a specific extension within another company) are also saved as part of the redial number.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Redial—Call Log by Redial key

Enables display of the Outgoing Call Log on a DPT by pressing the REDIAL button while on hook.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ Extension - CO Call Limitation—For Incoming Call

Selects whether the time limit for extension-to-trunk calls applies to outgoing calls only or for both outgoing and incoming calls. COS determines the use of this feature, and the length of the time limit can be assigned on a trunk group basis.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Extension-CO Line Call Duration Limit
5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ Extension-CO Duration Time (*60s)

Feature Guide References

1.11.8 Trunk Call Limitation

◆ CO - CO Call Limitation—After Conference

Selects whether to allow a call between 2 outside destinations to continue after the originator of the conference has left the conference.

Value Range

Enable: The call will be disconnected.
Disable: The call will continue.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference
1.30.5 QSIG Enhanced Features

Option 3

◆ Confirmation Tone—Tone 1 : Called by Voice

Enables the PBX to send Confirmation Tone 1. Confirmation Tone 1 is heard from a PT when it receives a call in voice-calling mode.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call
1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 2 : Paged / Automatic Answer

Enables the PBX to send Confirmation Tone 2. Confirmation Tone 2 is heard from a PT when it receives a call in Hands-free Answerback mode, or paging.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.4 Hands-free Answerback
1.16.1 Paging
1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 3-1 : Start Talking after Making Call / Call from Doorphone

Enables the PBX to send Confirmation Tone 3-1. Confirmation Tone 3-1 is heard from an extension when, for example, it pages another extension, or from a doorphone when the doorphone button is pressed.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 3-2 : Start Talking after Answering Call

Enables the PBX to send Confirmation Tone 3-2. Confirmation Tone 3-2 is heard from an extension when answering a call by, for example, the Call Pickup feature.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 4-1 : Start Conference

Enables the PBX to send Confirmation Tone 4-1. Confirmation Tone 4-1 is heard from an extension when a new party joins a conference call.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference
1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 4-2 : Finish Conference

Enables the PBX to send Confirmation Tone 4-2. Confirmation Tone 4-2 is heard from an extension when a party leaves a conference call.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference
1.29.2 Confirmation Tone

◆ Confirmation Tone—Tone 5 : Hold

Enables the PBX to send Confirmation Tone 5. Confirmation Tone 5 is heard from an extension when it holds a call.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.29.2 Confirmation Tone

◆ Dial Tone—Distinctive Dial Tone

Enables the PBX to send dial tones at different frequencies depending on the setting of the extension.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.29.1 Dial Tone

◆ Dial Tone—Dial Tone for Extension

Selects the dial tone the PBX sends to extensions to inform about the features activated on them.

Value Range

Type A, Type B

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.29.1 Dial Tone

◆ Dial Tone—Dial Tone for ARS

Selects the dial tone the PBX (instead of the network) sends to the caller when a call is made using the ARS feature, or ISDN En Bloc dialling.

Value Range

Type A, Type B

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port
3.35 [1-1] Slot—Port Property - PRI Port
10.1 [8-1] System Setting

Feature Guide References

1.10.1 Automatic Route Selection (ARS)
1.29.1 Dial Tone

◆ Echo Cancel—Conference

Enables the use of the ECHO/EECHO card for conference calls.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.14.1.2 Conference

◆ Echo Cancel—CO-to-CO

Enables the use of the ECHO/EECHO card for trunk-to-trunk calls.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ Echo Cancel—Extension to Analogue Line

Enables the use of the ECHO/EECHO card for extension-to-analogue trunk calls.

Value Range
Disable, Enable

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
None

◆ Echo Cancel—Extension to Digital Line

Enables the use of the ECHO/EECHO card for extension-to-ISDN/T1/E1 line calls.
If set to "Enable", the echo canceller card is used for extension-to-ISDN/T1/E1 line calls.
If set to "Disable", the echo canceller card is not used for extension-to-ISDN/T1/E1 line calls.

Value Range
Disable, Enable

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
None

Option 4

◆ DSS Key—DSS key mode for Incoming Call

Enables the use of a DSS button to pick up an incoming call to another extension or an ICD group.

Value Range
ON or Flash, OFF

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup
1.20.3 LED Indication

◆ DSS Key—Call Pick-up by DSS key for Direct Incoming Call

Specifies whether a DSS button will light up or flash when a call rings at the specified extension. To enable this setting, ◆ **DSS Key—DSS key mode for Incoming Call** on this screen must be set to **ON or Flash**.

Value Range

Enable: The DSS button will flash when a call arrives, and pressing it will pick up the call.
Disable: The DSS button will light up when a call arrives, but pressing it will not pick up the call.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup

◆ DSS Key—Call Pick-up by DSS key for ICD Group Call

Specifies whether a DSS button will light up or flash when a call rings at the specified incoming call distribution group.
To enable this setting, ◆ **DSS Key—DSS key mode for Incoming Call** on this screen must be set to **ON or Flash**.

Value Range

Enable: The DSS button will flash when a call arrives, and pressing it will pick up the call.
Disable: The DSS button will light up when a call arrives, but pressing it will not pick up the call.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup

◆ DSS Key—Automatic Transfer for Extension Call

Specifies whether pressing a DSS or SDN button during an extension-to-extension call disconnects the current call or places the call on consultation hold.

Value Range

Enable: The PBX places the current call on consultation hold.
Disable: The PBX disconnects the current call, and calls the extension assigned to the DSS or SDN button.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.12.1 Call Transfer

◆ DSS Key—Caller Information Display before Call Pick-up

Specifies whether incoming caller information is displayed after pressing the DSS button when a call is ringing at the designated extension, instead of answering the call.

Value Range

Enable: Pressing the DSS button displays the caller's information.
Disable: Pressing the DSS button answers the call.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup

◆ Private Network—Public Call through Private Network—Minimum Public Caller ID Digits

Specifies the minimum length of Caller ID required for a call from a private network to be considered as a call from a public network.

Value Range

0–15

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Private Network—TIE Call by Extension Numbering (Activation Key Required)

Enables extensions at two PBXs connected in a network to have the same leading number. For example, extension 101 is registered at PBX 1, and extension 102 is registered at PBX 2. Only the Extension Number Method is supported.
If disabled, different leading numbers need to be assigned for extensions at each PBX.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

11.1 [9-1] TIE Table—◆ Leading Number

Feature Guide References

1.30.1 TIE Line Service

◆ Send CLIP of CO Caller—when call is transferred to CO (CLIP of Held Party)

Enables the transfer of related CLIP information when a party on hold is transferred. When set to "Enable", the transfer destination will receive the original caller's CLIP information, not the information of the extension that performed the transfer.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Send CLIP of CO Caller—when call is forwarded to CO

Selects whether the CLIP number of the calling party or the CLIP number of the forwarding extension or virtual PS is sent to the forwarding destination to identify the origin of a trunk call.

Value Range

Disable: The CLIP number assigned to the forwarding extension or virtual PS is sent.
Enable: The CLIP number of the calling party is sent.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.2.2.3 Outside Destinations in Incoming Call Distribution Group
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.30.6 Network ICD Group

◆ Send CLIP of Extension Caller—when call is forwarded to CO

Selects whether the CLIP number of the calling extension or the CLIP number of the forwarding extension or virtual PS is sent to the forwarding destination to identify the origin of a call.

Value Range

Disable: The CLIP number assigned to the forwarding extension or virtual PS is sent.
Enable: The CLIP number of the calling extension is sent.

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.2.2.3 Outside Destinations in Incoming Call Distribution Group
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)
1.30.6 Network ICD Group

◆ System Wireless—Out of Range Registration

Selects whether the PBX can set the status of a PS to Out of Range if no signal is received from the PS for a preset length of time. This feature must be enabled to allow PS roaming.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

4.5 [2-3] Timers & Counters—◆ System Wireless—PS Out of Range Timer

Feature Guide References

1.30.6.1 PS Roaming by Network ICD Group

◆ System Wireless—SDN Delayed Ringing with LCD

Selects whether call information (such as Caller ID) is shown on the display of a PDN extension PS (i.e., a PS with one or more PDN buttons) when a call is received while delayed ringing is set.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—◆ Parameter Selection (for SDN)

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Transfer—Automatic Answer for Transferred Call

Enables transferred calls (including direct extension calls) to be automatically answered, when using the Hands-free Answerback feature.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.4.1.4 Hands-free Answerback

Option 5

◆ SLT—SLT Hold Mode

Selects how to hold a line and transfer a call with an SLT. For details of each mode, see "1.13.1 Call Hold" in the Feature Guide.

Value Range

Mode 1, Mode 2, Mode 3, Mode 4

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.13.1 Call Hold

◆ SLT—Message Waiting Lamp Pattern (KX-TDE series only)

Specifies the Message Waiting Lamp light pattern of SLTs.

Value Range

1–12

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.19.1 Message Waiting

◆ Whisper OHCA—for SLT / APT / KX-T72xx

Enables the use of Whisper OHCA to SLTs and IP-PTs, and DPTs other than KX-T7400 series, KX-T7500 series, KX-T7600 series, or KX-DT300 series.

Value Range
Disable, Enable

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
1.8.5.4 Whisper OHCA

◆ Call Waiting—Automatic Call Waiting for Extension Call

Selects whether Busy Station Signalling (BSS) is automatically performed when an extension user calls a busy extension.

Value Range
Disable, Enable

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References
1.1.3.3 Call Waiting

◆ Busy Out—Busy Out for Analogue CO

Enables the PBX to automatically set a trunk to Busy Out status when a loop current is not detected, preventing that trunk from being used.

Value Range
Disable, Enable

Maintenance Console Location
4.18 [2-9] System Options

Programming Manual References
None

Feature Guide References

1.5.4.6 Trunk Busy Out

◆ ISDN Voice Path Connection—Connect when "Alert" is sent from ISDN

Enables the voice path of an ISDN line to connect even when an "Alert" signal is received from the telephone company.

Value Range

Disable, Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ PT Feature Access—No. 1–8

Specifies the System Feature Access Menu (1–8) shown on the display of an extension.

Value Range

None, Call Back Cancel, Call Pickup Direct, Call Pickup Group, Doorphone Call, Door Open, Relay On, External BGM, Paging

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ ISDN Option—Fwd from ISDN to ISDN

Specifies whether alert messages are sent to the ISDN network. This setting should be enabled for networks that disconnect a call if an alert message is not received.

Value Range

Mode1: Disable
Mode2: Enable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ ISDN Option—Calling Party Name Presentation to PRI23

Specifies whether the name of the calling party is displayed when making a call to the ISDN network.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ ISDN Option—Calling Party Name Sending Format

Specifies the sending format of the calling party name when making a call to the ISDN network.

Value Range

Display, Facility

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

Option 6 (CTI)

◆ Built-in Communication Assistant—System status retry interval timer

Specifies the length of time until the alive check is retried when no response is received, for First Party Call Control CTI such as Communication Assistant (CA).

Value Range

0–60 s

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ Built-in Communication Assistant—System status retry counter

Specifies the number of times that the alive check is repeated for First Party Call Control CTI such as Communication Assistant (CA). When the alive check has been attempted the programmed number times without success, the PBX assumes that the logical connection with the CTI application software has been lost.

Value Range

0–10

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ 3rd Party CTI—System status retry interval timer

Specifies the length of time until the alive check is retried when no response is received, for Third Party Call Control CTI.

Value Range

0–60 s

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ 3rd Party CTI—System status retry counter

Specifies the number of times that the alive check is repeated for Third Party Call Control CTI. When the alive check has been attempted the programmed number of times without success, the PBX assumes that the logical connection with the CTI application software has been lost.

Value Range

0–10

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ 3rd Party CTI—CDR retry interval timer

Specifies the length of time until the alive check of CDR is retried when no response is received, for Third Party Call Control CTI.

Value Range

0–60 s

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ 3rd Party CTI—CDR retry counter

Specifies the number of times that the alive check of CDR is repeated for Third Party Call Control CTI. When the alive check has been attempted the programmed number times, the association is released automatically.

Value Range

0–10

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.32.1 Computer Telephony Integration (CTI)

◆ CTI Multi PBX Control—PBX Name

Specifies the name of the PBX, for network programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ CTI Multi PBX Control—USB Serial Number

Specifies the serial number assigned to this PBX's USB data transfers, used when multiple PBXs are connected via USB to one PC (for example, for CTI).

Value Range

1–8

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ CTI Make Call—SLT Ring

Specifies whether to ring an SLT when a call is made from CTI, instead of the SLT.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

None

◆ CTI Hold—Forced Idle when Hold by PDN/SDN Key

Selects whether to force an extension (e.g., KX-NT400) to become idle while having a call held on a PDN/SDN button.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

Option 7

◆ Incoming Call Log—Busy / Intercept (when Called Party is Busy)

Specifies whether the following types of calls are recorded in the incoming call log of the original destination.

- Calls received when the extension is busy.

- Calls rerouted via the Intercept Routing—Busy feature.

If this setting is enabled, calls are recorded as "Not Answered".

Value Range

Enable (Not Answered), Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log

◆ Incoming Call Log—Fwd All / Fwd Busy

Specifies whether the following types of calls are recorded in the incoming call log of the original destination.

- Calls rerouted via the FWD—All Calls feature.
- Calls rerouted via the FWD—Busy feature.

If this setting is enabled, calls are recorded as "Not Answered".

Value Range

Enable (Not Answered), Disable

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log

◆ Incoming Call Log—Call Pickup

Specifies how calls answered using the Call Pickup feature are recorded in the incoming call log of the original destination.

Value Range

Answered, Not Answered

Maintenance Console Location

4.18 [2-9] System Options

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log

◆ Incoming Call Log—Extension/TIE Call

Specifies whether extension/TIE calls are recorded in the answering extension's incoming call log.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

◆ Outgoing Call Log—Extension Call

Specifies whether extension/TIE calls are recorded in the calling extension's outgoing call log.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

◆ CLIP Modification (Outgoing)—"0" Delete from CLIP

Specifies whether "0" is removed from CLIP information.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

◆ CLIP Modification (Outgoing)—"00" Delete from CLIP

Specifies whether "00" is removed from CLIP information.

Value Range

Enable, Disable

Maintenance Console Location

4.18 [2-9] System Options

4.19 [2-10] Extension CID Settings

Various settings for extension Caller ID can be programmed.

◆ Extension Caller ID Modulation Type

Specifies the modulation frequency to be used when sending Caller ID information to an SLT.

Value Range

V.23(ETSI), Bell202(Bellcore)

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Channel Seizure Signal Bits

Specifies the number of seizure bits to send when sending Caller ID information to an SLT.

Value Range

10 × n (n=3–40) bits

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Mark Signal Bits

Specifies the number of mark bits to send when sending Caller ID information to an SLT.

Value Range

10 × n (n=3–40) bits

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Channel Seizure Wait Time

Specifies the length of time that the PBX waits before starting to send the seizure signal following the first ring when sending Caller ID information to an SLT.

Value Range

64 × n (n=5–35) ms

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Caller ID Signal Type

Specifies the type of signal modulation to be used when sending Caller ID information to an SLT (reference only).

Value Range

FSK

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Additional Local Trunk Access Code to Extension Caller ID

Enables the PBX to automatically add a Trunk Access number to the received telephone number when sending the Caller ID number of an incoming trunk call to an SLT.

Value Range

Disable, Enable

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Send Caller ID Date & Time to Extension

Enables the PBX to send the date and time of an incoming call when sending Caller ID information to an SLT.

Value Range

Disable, Enable

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Send Caller ID Name to Extension

Enables the PBX to send the caller's name when sending Caller ID information to an SLT.

Value Range

Disable, Enable

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Send Caller ID Long Distance to Extension

Enables the PBX to send a call qualifier (Long Distance) (if received from the trunk) when sending Caller ID information to an SLT.

Value Range

Disable, Enable

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ FSK Transmission Level

Specifies the transmission level for FSK signal modulation.

Value Range

-14 dB, -12 dB, -10 dB, -8 dB, -6 dB, -4 dB, -2 dB, 0 dB

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ FSK Transmission Level (for MCSLC Card)

Specifies the transmission level for FSK signal modulation for MCSLC cards.

Value Range

-14 dB, -12 dB, -10 dB, -8 dB, -6 dB, -4 dB, -2 dB, 0 dB

Maintenance Console Location

4.19 [2-10] Extension CID Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

4.20 [2-11-1] Audio Gain—Paging/MOH

Gain levels for the External Pager/External BGM ports can be programmed.

◆ Paging—EPG (External Pager) (for KX-NCP series)/EPG 1 (External Pager 1) (for KX-TDE series)

Specifies the paging volume for External Pager port 1. KX-NCP series PBXs have only one External Pager port.

Value Range

-15–15 dB

Maintenance Console Location

4.20 [2-11-1] Audio Gain—Paging/MOH

Programming Manual References

5.10 [3-4] Paging Group

Feature Guide References

1.16.1 Paging

◆ Paging—EPG 2 (External Pager 2) (KX-TDE series only)

Specifies the paging volume for External Pager port 2.

Value Range

-15–15 dB

Maintenance Console Location

4.20 [2-11-1] Audio Gain—Paging/MOH

Programming Manual References

5.10 [3-4] Paging Group

Feature Guide References

1.16.1 Paging

◆ Paging—Paging Level from PT Speaker

Specifies the volume when paging is broadcast through the speaker of a PT.

Value Range

-15dB, -12dB, -9dB, -6dB, -3dB, 0dB, 3dB, 6dB

Maintenance Console Location

4.20 [2-11-1] Audio Gain—Paging/MOH

Programming Manual References

5.10 [3-4] Paging Group

Feature Guide References

1.16.1 Paging

◆ MOH—MOH (Music On Hold) (for KX-NCP series)/MOH 1 (Music On Hold 1) (for KX-TDE series)

Specifies the music volume for External BGM port 1. KX-NCP series PBXs have only one External BGM port.

Value Range

-11–11 dB

Maintenance Console Location

4.20 [2-11-1] Audio Gain—Paging/MOH

Programming Manual References

4.4 [2-2] Operator & BGM

Feature Guide References

1.13.4 Music on Hold
1.17.4 Background Music (BGM)

◆ MOH—MOH 2 (Music On Hold 2) (KX-TDE series only)

Specifies the music volume for External BGM port 2.

Value Range

-11–11 dB

Maintenance Console Location

4.20 [2-11-1] Audio Gain—Paging/MOH

Programming Manual References

4.4 [2-2] Operator & BGM

Feature Guide References

1.13.4 Music on Hold
1.17.4 Background Music (BGM)

4.21 [2-11-2] Audio Gain—Card

Gain levels can be programmed for each type of card.

◆ Up Gain (To PBX)

Specifies the volume for audio signals from the selected type of card to the PBX.

Value Range

-15–15 dB

Maintenance Console Location

4.21 [2-11-2] Audio Gain—Card

Programming Manual References

None

Feature Guide References

None

◆ Down Gain (From PBX)

Specifies the volume for audio signals from the PBX to the selected type of card.

Value Range

-15–15 dB

Maintenance Console Location

4.21 [2-11-2] Audio Gain—Card

Programming Manual References

None

Feature Guide References

None

Section 5

[3] Group

5.1 [3-1-1] Trunk Group—TRG Settings

Trunks can be organised into trunk groups. The settings of each trunk group determine the settings of the trunks within that group. A maximum of 64 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 96 (with the KX-TDE600) trunk groups can be programmed.
For more information on trunk groups, see "2.2.2 Group" in the Feature Guide.

Main

◆ Group Name

Specifies the name of the trunk group for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

None

◆ COS

Specifies the COS of the trunk group, applied when making a call from a trunk to another trunk with TIE Line Service.
If you wish to prevent such calls from being made, ensure that the COS specified here has a TRS level of "7" assigned for all relevant time modes in **4.12 [2-7-1] Class of Service—COS Settings**.

Value Range

1–64

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings
12.1 [10-1] CO Line Settings

Feature Guide References

1.30.1 TIE Line Service

◆ Line Hunting Order

Specifies the trunk hunting sequence for the trunk group. The hunting sequence can be programmed to start from the lowest or highest numbered trunks, or to rotate uniformly among all trunks.

Value Range

High -> Low, Low -> High, Rotation

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

1.5.5.3 Trunk Access

◆ CO-CO Duration Time (*60s)

Specifies the length of time that a trunk-to-trunk call can be maintained before being disconnected.

Value Range

None, 60 × n (n = 1–60) s

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

1.11.8 Trunk Call Limitation

◆ Extension-CO Duration Time (*60s)

Specifies the length of time that an extension-to-trunk call can be maintained before being disconnected.

Value Range

None, 60 × n (n = 1–60) s

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings
4.18 [2-9] System Options
12.1 [10-1] CO Line Settings

Feature Guide References

1.11.8 Trunk Call Limitation

◆ Caller ID Modification Table

Specifies the table to be used for modifying caller information (telephone number).

Value Range

1–4

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

5.3 [3-1-3] Caller ID Modification
12.1 [10-1] CO Line Settings

Feature Guide References

1.18.1 Caller ID

◆ Dialling Plan Table

Specifies the table to be used for en-bloc dialling.

Value Range

1–4

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

5.4 [3-1-4] Dialling Plan

Feature Guide References

None

Tone Detection

◆ Group Name

Specifies the name of the trunk group for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

None

◆ DISA Tone Detection—Silence

Enables the disconnection of a DISA-originated trunk-to-trunk call by silence detection.

Value Range

Disable, Enable

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System
12.1 [10-1] CO Line Settings

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA Tone Detection—Continuous

Enables the disconnection of a DISA-originated trunk-to-trunk call by continuous signal detection.

Value Range

Disable, Enable

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System
12.1 [10-1] CO Line Settings

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ DISA Tone Detection—Cyclic

Enables the disconnection of a DISA-originated trunk-to-trunk call by cyclic signal detection.

Value Range

Disable, Enable

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System
12.1 [10-1] CO Line Settings

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ Simplified Voice Message Tone Detection—Silence

Enables the disconnection of an SVM-originated trunk-to-trunk call by silence detection.

Value Range

Disable, Enable

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ Simplified Voice Message Tone Detection—Continuous

Enables the disconnection of an SVM-originated trunk-to-trunk call by continuous signal detection.

Value Range
Disable, Enable

Maintenance Console Location
5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References
None

Feature Guide References
1.17.7 Built-in Simplified Voice Message (SVM)

◆ Simplified Voice Message Tone Detection—Cyclic
Enables the disconnection of an SVM-originated trunk-to-trunk call by cyclic signal detection.

Value Range
Disable, Enable

Maintenance Console Location
5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References
None

Feature Guide References
1.17.7 Built-in Simplified Voice Message (SVM)

Host PBX Access Code

◆ Group Name
Specifies the name of the trunk group for programming reference.

Value Range
Max. 20 characters

Maintenance Console Location
5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References
12.1 [10-1] CO Line Settings

Feature Guide References

None

◆ Host PBX Access Code 1–10

Specifies the feature number used to access a trunk from the host PBX.

Value Range

Max. 10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

Collect Call Reject (For Brazil)

◆ Group Name

Specifies the name of the trunk group for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

None

◆ Collect Call Reject (for Brazil)—Mode

Enables the PBX to automatically reject collect calls. This setting is only for users in Brazil.

Value Range

Disable, Enable

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

None

Feature Guide References

None

◆ Collect Call Reject (for Brazil)—Wait Time

Selects the length of time that the PBX waits before sending a flash signal to reject a collect call. This setting is only for users in Brazil.

Value Range

500 ms, 1000 ms, 1500 ms, 2000 ms

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

None

Feature Guide References

None

◆ Collect Call Reject (for Brazil)—Flashing Time

Selects the length of the flash signal that the PBX sends to reject a collect call. This setting is only for users in Brazil.

Value Range

1000 ms, 1500 ms, 2000 ms, 2500 ms

Maintenance Console Location

5.1 [3-1-1] Trunk Group—TRG Settings

Programming Manual References

None

Feature Guide References

None

5.2 [3-1-2] Trunk Group—Local Access Priority

Trunk groups can be assigned a priority for Idle Line Access. When making a trunk call by Idle Line Access, the PBX will search trunk groups for an idle trunk according to the priority assigned here.

◆ Trunk Group No. & Name

Specifies the trunk group assigned to the corresponding priority level.
Select the blank option to not assign a trunk group to the priority.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Trunk Group No. 1–64

For KX-TDE600:

Trunk Group No. 1–96

Maintenance Console Location

5.2 [3-1-2] Trunk Group—Local Access Priority

Programming Manual References

12.1 [10-1] CO Line Settings

Feature Guide References

1.5.5.3 Trunk Access

5.3 [3-1-3] Caller ID Modification

The telephone numbers of incoming callers can be modified automatically according to preprogrammed modification tables, and then recorded for calling back.

Leading Digits

After the caller's number is modified by the Length of Digits Modification Tables or CLIP Modification Tables, the PBX checks the leading digits of the modified number for an area code programmed in the Caller ID Modification Table assigned to that trunk group. If it finds such a code, it removes digits and adds a number to the modified number. If this number is stored as a System Speed Dialling number, the caller's name can be shown on a PT display and the call can be routed to a certain extension (CLI destination). A maximum of 4 Caller ID Modification Tables, each containing 10 local/international call data and 1 long distance code, can be programmed. Each trunk group can select a table for use. Select the desired table from the **Modification Table** list.
If the modified number does not contain an area code programmed here, the PBX applies the Long Distance Code settings to the modified number.

◆ Area Code (for Local / International Call Data 1–10)

Specifies the leading number (area code) to look for in the incoming caller's number.

Value Range

Max. 6 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Removed Number of Digits

Specifies the number of digits to be removed from the beginning of the incoming caller's number.

Value Range

0–9

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

5.1 [3-1-1] Trunk Group—TRG Settings—◆ Caller ID Modification Table
8.1 [6-1] System Speed Dial

Feature Guide References

1.18.1 Caller ID

◆ Added Number

Specifies the number to be added to the incoming caller's number in the place of the removed digits.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

5.1 [3-1-1] Trunk Group—TRG Settings—◆ Caller ID Modification Table
8.1 [6-1] System Speed Dial

Feature Guide References

1.18.1 Caller ID

Length of Digits

The PBX adds a certain number of digits to the caller's number depending on the length of digits, as programmed in the Length of Digits Modification Tables assigned to the trunk group. This modification is applied to incoming trunk calls routed through public networks when the type of network numbering plan is Unknown or not specified.
A maximum of 4 Length of Digits Modification Tables can be programmed. Select the desired table from the **Modification Table** list.
If the length of digits of an incoming trunk call is less than the ◆ **Minimum Caller ID Digits (for National)**, the caller's number is not modified.

◆ Minimum Caller ID Digits (for International)

Specifies the minimum number of digits required in the caller's number for it to be recognised as an international call. The value specified here must be larger than ◆ **Minimum Caller ID Digits (for National)**.

Value Range

1–31

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

◆ Minimum Caller ID Digits (for National)

Specifies the minimum number of digits required in the caller's number for it to be recognised as a national call. The value specified here must be smaller than ◆ **Minimum Caller ID Digits (for International)**.

Value Range

0–30

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

◆ Added Number (for International)

Specifies the number to be added to the incoming telephone number when the total number of digits exceeds ◆ **Minimum Caller ID Digits (for International)**.

Value Range

Max. 8 digits (0–9, *, and #)

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

◆ Added Number (for National)

Specifies the number to be added to the incoming telephone number when the total number of digits exceeds ◆ **Minimum Caller ID Digits (for National)** but does not exceed ◆ **Minimum Caller ID Digits (for International)**.

Value Range

Max. 8 digits (0–9, *, and #)

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

CLIP

When incoming caller information is sent through an ISDN line and the type of the network numbering plan is International, National, or Subscriber, the caller's number can be modified as programmed in the Modification Tables assigned to the trunk group. The modified number will then be recorded, and it is used for sending to the network as a CLIP number.
A maximum of 4 CLIP Modification Tables can be programmed. Select the desired table from the **Modification Table** list.

◆ Removed Number of Digits

Specifies the number of leading digits to be removed from the incoming caller's number for each type of network numbering plan.

Value Range

0–9

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party Number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party Number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

◆ Added Number

Specifies the number to be added to the incoming caller's number in the place of the removed digits for each type of network numbering plan.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.3 [3-1-3] Caller ID Modification

Programming Manual References

3.35 [1-1] Slot—Port Property - PRI Port—◆ Calling Party Number—Type of Number—Public, Private
3.35 [1-1] Slot—Port Property - PRI Port—◆ Called Party Number—Type of Number—Public, Private

Feature Guide References

1.18.1 Caller ID

5.4 [3-1-4] Dialling Plan

The PBX sends all of the dialled digits at once after an extension user completes dialling. The PBX can recognise the end of dialling when the dialled telephone number starts with the programmed leading number and contains the programmed total number of digits.
When the PBX recognises the end of dialling to an analogue trunk, the PBX cancels the muting of the caller's voice sent to the analogue trunk immediately. If the PBX cannot recognise the end of dialling, the PBX mutes the caller's voice sent to an analogue trunk from the time at which the last digit is dialled until the analogue trunk inter-digit timer expires.
4 tables can be programmed, each with a maximum of 50 leading numbers. Select the table to programme from the **Dialling Plan Table** list.
To assign a set of leading numbers automatically, click **Auto Assign**.

◆ Leading Number

Specifies the leading number to be regarded as the beginning of dialling.

Value Range

Max. 32 digits (consisting of 0–9, *, #, N [2,3,4,5,6,7,8,9], P [0, 1], and X [0-9, *, and #])

Maintenance Console Location

5.4 [3-1-4] Dialling Plan

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Analogue CO First Digit
4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Analogue CO Inter-digit
5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ Dialling Plan Table

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ Removed Number of Digits

Specifies the number of leading digits to be removed from the number dialled by en-bloc dialling.

Value Range

0–15

Maintenance Console Location

5.4 [3-1-4] Dialling Plan

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

◆ Added Number

Specifies the number to be added to the number dialled by en-bloc dialling in the place of the removed digits.

Value Range

Max. 32 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.4 [3-1-4] Dialling Plan

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

5.5 [3-1-4] Dialling Plan—Auto Assign

It is possible to assign a set of leading numbers automatically.

◆ Select Auto Assigning Table

Selects the set of preset leading number values to assign to the active dialling plan table. When Type D is selected, you will be prompted to enter a 3-digit area code, and 7 "X"s, in cells 1 through 47 of the dialling plan table.

Value Range

Type A: 1:N11, 2:NXX XXXX, 3:1NXX NXX XXXX, 4-50: Not stored
Type B: 1:N11, 2:NNX XXXX, 3:1NPX NXX XXXX, 4-50: Not stored
Type C: 1:N11, 2:NXX XXXX, 3:1NNX XXXX, 4:1NPX NXX XXXX, 5-50: Not stored
Type D: 1-47: Not stored, 48:N11, 49:NXX XXXX, 50:1NXX NXX XXXX
Type E: 1:N11, 2:NXX NXX XXXX, 3:1NXX NXX XXXX, 4-50: Not stored

Maintenance Console Location

5.5 [3-1-4] Dialling Plan—Auto Assign

Programming Manual References

5.4 [3-1-4] Dialling Plan

Feature Guide References

None

5.6 [3-1-5] Trunk Group—Charge Rate

The rate charged per pay tone signal (sent from the telephone company) can be assigned for each trunk group.

◆ Trunk Group Name

Indicates the name of the trunk group (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.6 [3-1-5] Trunk Group—Charge Rate

Programming Manual References

None

Feature Guide References

None

◆ Rate

Specifies the call charge rate.
The number of decimal places that can be specified here depends on the value set in ◆ **Charge Options—Digits After Decimal Point** in **8.2 [6-2] Hotel & Charge**.

Value Range

0–9999999

Maintenance Console Location

5.6 [3-1-5] Trunk Group—Charge Rate

Programming Manual References

8.2 [6-2] Hotel & Charge

Feature Guide References

1.26.3 Call Charge Services

5.7 [3-2] User Group

Extensions can be assigned to a tenant according to their extension user groups. An extension user group can belong to only one tenant. However, one extension user group can belong to several call pickup groups and several paging groups. A maximum of 8 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 32 (with the KX-TDE600) tenants can be programmed.

◆ User Group Name

Specifies the name of the extension user group.

Value Range

Max. 20 characters

Maintenance Console Location

5.7 [3-2] User Group

Programming Manual References

5.8 [3-3] Call Pickup Group
5.10 [3-4] Paging Group
6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ User Group
6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ User Group

Feature Guide References

2.2.2 Group

◆ Tenant Number

Specifies the tenant to which the extension user group belongs.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

5.7 [3-2] User Group

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

2.2.2 Group

2.2.3 Tenant Service

5.8 [3-3] Call Pickup Group

Extensions can be assigned to a call pickup group according to their extension user groups. One extension user group can belong to up to 8 call pickup groups. A maximum of 64 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 96 (with the KX-TDE600) call pickup groups can be programmed.
To assign extension user groups to call pickup groups easily, click **All Setting**.

◆ User Group Name

Indicates the name of the extension user group (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.8 [3-3] Call Pickup Group

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.4.1.3 Call Pickup
2.2.2 Group

◆ Pickup Group—1st–8th

Selects the call pickup groups that the extension user group belongs to. One extension user group can be assigned to a maximum of 8 call pickup groups on this screen. To assign an extension user group to more than 8 call pickup groups, click **All Setting**.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

None, 01–64

For KX-TDE600:

None, 01–96

Maintenance Console Location

5.8 [3-3] Call Pickup Group

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.4.1.3 Call Pickup
2.2.2 Group

5.9 [3-3] Call Pickup Group—All Setting

Extensions can be assigned to a call pickup group according to their extension user groups. One extension user group can belong to multiple call pickup groups.

◆ Call Pickup Group Name

Specifies the name of the call pickup group.

Value Range

Max. 20 characters

Maintenance Console Location

5.9 [3-3] Call Pickup Group—All Setting

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.4.1.3 Call Pickup
2.2.2 Group

◆ User Group 1–32 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 1–96 (for KX-TDE600)

Specifies whether the extension user group belongs to the corresponding pickup group.

Value Range

ON (blue), OFF

Maintenance Console Location

5.9 [3-3] Call Pickup Group—All Setting

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.4.1.3 Call Pickup
2.2.2 Group

5.10 [3-4] Paging Group

Extensions can be assigned to a paging group according to their extension user groups. External pagers can also be assigned to a paging group. One extension user group or external pager can belong to multiple paging groups. A maximum of 32 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 96 (with the KX-TDE600) paging groups can be programmed.
To assign external pagers to paging groups, click **External Pager**. To assign extension user groups to paging groups easily, click **All Setting**.

◆ User Group Name

Indicates the name of the extension user group (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.10 [3-4] Paging Group

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

◆ Paging Group—1st–8th

Selects the paging groups that the extension user group belongs to. One extension user group can be assigned to a maximum of 8 paging groups on this screen. To assign an extension user group to more than 8 paging groups, click **All Setting**.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

None, 01–32

For KX-TDE600:

None, 01–96

Maintenance Console Location

5.10 [3-4] Paging Group

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

5.11 [3-4] Paging Group—All Setting

Extensions can be assigned to a paging group according to their extension user groups. One extension user group or external pager can belong to multiple paging groups.

◆ Paging Group Name

Specifies the name of the paging group.

Value Range

Max. 20 characters

Maintenance Console Location

5.11 [3-4] Paging Group—All Setting

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

◆ User Group 1–32 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 1–96 (for KX-TDE600)

Specifies whether the extension user group belongs to the corresponding paging group.

Value Range

ON (blue), OFF (white)

Maintenance Console Location

5.11 [3-4] Paging Group—All Setting

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

5.12 [3-4] Paging Group—External Pager

External pagers can be assigned to a paging group. One external pager can belong to multiple paging groups.

◆ Paging Group Name

Indicates the name of the paging group (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.12 [3-4] Paging Group—External Pager

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

◆ External Pager 1

Specifies whether the external pager belongs to the corresponding paging group.

Value Range

ON (blue), OFF

Maintenance Console Location

5.12 [3-4] Paging Group—External Pager

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

◆ External Pager 2 (KX-TDE series only)

Specifies whether the external pager belongs to the corresponding paging group.

Value Range

ON (blue), OFF

Maintenance Console Location

5.12 [3-4] Paging Group—External Pager

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.16.1 Paging
2.2.2 Group

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Extensions can be assigned as members of an incoming call distribution group. Calls to an incoming call distribution group are distributed to its member extensions as programmed. A maximum of 128 incoming call distribution groups can be programmed.
To set the Call Forwarding (FWD) settings of ICD groups easily, click **Group FWD**. To assign extensions to ICD groups and change extension settings, click **Member List**.
For more information on ICD Groups, see "1.2.2.1 Incoming Call Distribution Group Features—SUMMARY" in the Feature Guide.

Main

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range

Max. 20 characters

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Distribution Method

Selects the method for distributing calls to idle extensions of the incoming call distribution group.

Value Range

Ring, UCD, Priority Hunting

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution

◆ Call Waiting Distribution

Specifies whether call waiting distribution is enabled for the incoming call distribution group.

Value Range

Enable, Disable

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution

◆ FWD Mode

Specifies whether extensions in FWD mode ring when a call is received at the incoming call distribution group.

Value Range

No Ring, Ring

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.2.2.2 Group Call Distribution

◆ DND Mode

Specifies whether extensions in DND mode ring when a call is received at the incoming call distribution group.

Value Range

No Ring, Ring

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND
6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.2.2.2 Group Call Distribution

◆ Tenant Number

Specifies the tenant to which the incoming call distribution group belongs, to determine the Time Table and the audio source for the group. (The tenant number corresponds to the Time Table number.)

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

4.4 [2-2] Operator & BGM
4.6 [2-4] Week Table
8.6 [6-6] Tenant—◆ Music On Hold

Feature Guide References

1.13.4 Music on Hold
2.2.3 Tenant Service

◆ COS

Specifies the COS of the incoming call distribution group. Depending on the COS, calls from certain extensions are restricted as determined by the Internal Call Block feature. Also, when calls are forwarded or overflowed to a trunk, the TRS/Barring assigned for the COS of the incoming call distribution group applies.

Value Range

1–64

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings
4.13 [2-7-2] Class of Service—External Call Block
4.14 [2-7-3] Class of Service—Internal Call Block

Feature Guide References

1.1.2.2 Internal Call Block

◆ CLIP on ICD Group Button

Specifies the CLIP number sent to the network when making calls using the ICD Group button.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

Overflow Queuing Busy

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range

Max. 20 characters

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Queuing Busy—Destination-Day, Lunch, Break, Night

Specifies the overflow destination of calls that cannot be queued in each time mode.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.2.2.6 Overflow Feature

◆ Queuing Busy—Queue Call Capacity

Specifies the number of calls that can wait in a queue.

Value Range

None, 1–100

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature

Overflow No Answer

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range

Max. 20 characters

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Time out & Manual Queue Redirection—Destination-Day, Lunch, Break, Night

Specifies the overflow destination of queued calls when they are not answered or are redirected by Manual Queue Redirection in each time mode.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.2.2.4 Queuing Feature
1.2.2.6 Overflow Feature

◆ Time out & Manual Queue Redirection—Overflow Time

Specifies the length of time calls wait in a queue before they are redirected to the overflow destination.

Value Range

None, 10 × n (n=1–125) s

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature
1.2.2.6 Overflow Feature

◆ Hurry-up Level

Specifies the number of calls to hold in the queue before prompting Manual Queue Redirection by flashing the Hurry-up button.

Value Range

None, 1–30

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button
6.13 [4-2-3] Portable Station—Flexible Button

Feature Guide References

1.2.2.4 Queuing Feature

Queuing Time Table

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range

Max. 20 characters

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Queuing Time Table—Day, Lunch, Break, Night

Specifies the Queuing Time Table to be used in each time mode.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

None, Table 1–Table 64

For KX-TDE600:

None, Table 1–Table 128

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.2.2.4 Queuing Feature

◆ Queuing Time Table When Extension Ringing

Enables the PBX to play messages/BGM to the caller according to the Queuing Time Table, when the call arrives at an extension without being queued or after being queued.

Value Range

Disable (Ringback Tone), Enable

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

Miscellaneous

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range

Max. 20 characters

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Extension No Answer Redirection Time

Specifies the length of time that a call queues at an extension before it is redirected to the next member extension of the incoming call distribution group, in UCD or Priority Hunting distribution method.

Value Range

None, 10 × n (n=1–15) s

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution
1.2.2.4 Queuing Feature

◆ No. of Unanswered Calls for Automatic Log-out

Specifies the number of consecutive unanswered calls before a member extension is automatically logged out from the incoming call distribution group.

Value Range

None, 1–15

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Maximum No. of Busy Extension

Specifies the number of extensions that can accept calls simultaneously in the incoming call distribution group.

Value Range

Max.: Call arrives at an idle extension.
1–32: Call will not arrive at an idle extension when the number of busy extensions exceeds the assigned number.

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution

◆ Last Extension Log-out

Specifies whether the last extension logged-in to the incoming call distribution group is allowed to log out.

Value Range

Disable, Enable

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ VIP Call Mode

Enables VIP Call mode, to prioritise calls received from multiple incoming call distribution groups.

Value Range

Disable, Enable

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.5 VIP Call

◆ Supervisor Extension Number

Specifies the extension number of the incoming call distribution group's supervisor. The supervisor can monitor and control the status of each member of the group using a 6-line display PT. The supervisor extension need not belong to the group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.2.2.8 Supervisory Feature

◆ Programmed Mailbox No.

Specifies the mailbox number of the incoming call distribution group's mailbox for Voice Processing Systems (VPS) with DTMF Integration.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.24.2 Voice Mail DTMF Integration

Group Log / Group FWD

◆ Floating Extension Number

Specifies the floating extension number of the incoming call distribution group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

None

◆ Group Name

Specifies the name of the incoming call distribution group.

Value Range
Max. 20 characters

Maintenance Console Location
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References
None

Feature Guide References
None

◆ Incoming Call Log Memory
Specifies the number of unanswered calls to the incoming call distribution group that can be logged in the call log memory.

Value Range
0–100

Maintenance Console Location
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References
None

Feature Guide References
1.18.2 Incoming Call Log

◆ Group FWD Call from CO—Setting
Indicates the current FWD status for incoming trunk calls (reference only).

Value Range
Off, On

Maintenance Console Location
5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References
None

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Group FWD Call from CO—Destination

Specifies the forward destination of incoming trunk calls directed to the incoming call distribution group.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Group FWD Call from Extension—Setting

Indicates the current FWD status for incoming intercom calls (reference only).

Value Range

Off, On

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Group FWD Call from Extension—Destination

Specifies the forward destination of incoming intercom calls directed to the incoming call distribution group.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret] and P [Pause])

Maintenance Console Location

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings

Programming Manual References

None

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List

Each incoming call distribution group can have a maximum of 128 members (extensions) assigned to it, and each member can have its own delayed ringing and Wrap-up time settings. An extension can be a member of multiple incoming call distribution groups. An ICD Group can also contain cellular phones, and network ICD groups (ICD groups at other PBXs in a network) using virtual PS (see "**1.25.6 Virtual PS**" in the Feature Guide). The forward destination assigned to a virtual PS (e.g., a cellular phone) can act as a member of an ICD group. Select the desired ICD group (1–128) from the **ICD Group No.** list.
To assign members to the group, enter directly or click **Extension No. Setting** (see **2.1.6 Extension Number Setting**). To copy the members to another group, click **Member list copy**, select the group, and click **OK**.

◆ Extension Number

Specifies the extension number of each member. In addition to the extension numbers of PT, SLT, PS, and T1-OPX extensions, floating extension numbers of PS Ring groups can also be specified.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List

Programming Manual References

5.25 [3-9] PS Ring Group

Feature Guide References

1.2.2.1 Incoming Call Distribution Group Features—SUMMARY

◆ Extension Name

Indicates the name of the extension (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List

Programming Manual References

5.25 [3-9] PS Ring Group

Feature Guide References

1.2.2.1 Incoming Call Distribution Group Features—SUMMARY

◆ Delayed Ring

Specifies the delayed ringing setting of each member. (Applicable when the call distribution method of the incoming call distribution group is set to **Ring**.)

Value Range

Immediate, 1–6 Rings, No Ring

Maintenance Console Location

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution

◆ Wrap-up Timer

Specifies the length of time that must pass after completing a call before the member extension can accept another call.
This timer is used when "◆ **Options—Wrap-up Timer based on**" is set to **"ICD Group Member"** in **5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous**.

Value Range

10 × n (n=0–300) s

Maintenance Console Location

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List

Programming Manual References

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Wrap-up Timer based on
6.1 [4-1-1] Wired Extension—Extension Settings—Option 8—◆ Wrap-up Timer
6.10 [4-2-1] Portable Station—Extension Settings—Option 8—◆ Wrap-up Timer

Feature Guide References

1.2.2.7 Log-in/Log-out

5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table

A Queuing Time Table can contain up to 16 sequences which control how calls waiting in a queue are handled. A maximum of 64 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 128 (with the KX-TDE600) Queuing Time Tables can be programmed.

◆ Queuing Sequence—Sequence 01–16

Specifies the command activated by the corresponding sequence.

Value Range

None: Redirects the call to the next sequence.
Overflow: Redirects the call to the overflow destination when there is no answer.
Disconnect: Disconnects the line.
Sequence 01–16: Redirects the call to a different sequence.
Wait 5 × n (n=1–16) s: If preceded by an OGM, plays the Music on Hold for the specified period of time; if not preceded by an OGM, sends a ringback tone for the specified period of time.
OGM 01–64: Sends a certain OGM.

Maintenance Console Location

5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature
1.2.2.6 Overflow Feature
1.13.4 Music on Hold
1.17.5 Outgoing Message (OGM)

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Optional settings related to Incoming Call Distribution Groups can be programmed.

◆ Options—Call Log to ICD Group when ICD Member Answered

Selects whether answered calls to an ICD Group are also logged in the Incoming Call Log for the group, in addition to the log of the extension that answered the call.

Value Range

Disable, Enable

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

None

Feature Guide References

1.2.2.1 Incoming Call Distribution Group Features—SUMMARY

◆ Options—Call Log to ICD Group when Overflow Destination Answered

Selects whether the calls to an ICD Group that are redirected and are answered by the overflow destination are also logged in the Incoming Call Log for the group, in addition to the log of the extension that answered the call.

Value Range

Disable, Enable

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

None

Feature Guide References

1.2.2.1 Incoming Call Distribution Group Features—SUMMARY

◆ Options—ICD Group Key Mode

Selects whether ICD Group buttons at extensions operate as normal or in Enhanced Phantom button mode.

When set to Enhanced Phantom mode, creating an ICD Group button at an extension using PT personal programming automatically registers the extension as a member of the relevant ICD Group. The extension user can also specify the delayed ringing settings.

Value Range

Group DN, Enhanced Phantom

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Delayed Ring

Feature Guide References

1.2.2.1 Incoming Call Distribution Group Features—SUMMARY

◆ Options—Longest Idle Distribution (Activation Key Required)

Selects whether incoming calls are distributed to idle extensions evenly in order (UCD), or to the extension that has been idle the longest (ACD).

Value Range

Disable (UCD), Enable (ACD)

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

None

Feature Guide References

1.2.2.2 Group Call Distribution

◆ Options—Wrap-up Timer based on

Selects whether the ICD Group member wrap-up timer or extension wrap-up timer is used.
If **Extension** is selected here, ◆ **Wrap-up Timer** on **5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List** becomes unavailable. If **ICD Group Member** is selected, ◆ **Wrap-up Timer** on **6.1 [4-1-1] Wired Extension—Extension Settings** and **6.10 [4-2-1] Portable Station—Extension Settings** become unavailable.

Value Range

Extension: The timer is activated after all calls to or from the extension, including a retrieved call on hold.
ICD Group Member: The timer is only activated after calls to the extension through an ICD Group.

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Wrap-up Timer
6.1 [4-1-1] Wired Extension—Extension Settings—Option 8—◆ Wrap-up Timer
6.10 [4-2-1] Portable Station—Extension Settings—Option 8—◆ Wrap-up Timer

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Options—Overflow immediately when All Logout

Selects whether incoming calls are redirected to the Overflow Queuing Busy destination when all extensions are logged out of the ICD Group.
The Queuing Time Table must be assigned in order for calls to be redirected.

Value Range

Enable (Queuing Busy Destination), Disable (Keep Queuing)

Maintenance Console Location

5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Programming Manual References

5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table

Feature Guide References

1.2.2.6 Overflow Feature

5.17 [3-6] Extension Hunting Group

If an extension within an idle extension hunting group is called when it is busy or in DND mode, the call can be redirected to another extension in the same hunting group, according to a preprogrammed hunting type. If there is no idle extension in the group, the call can then be redirected to the overflow destination, which can be different depending on the time mode (day/lunch/break/night). A maximum of 64 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 128 (with the KX-TDE600) hunting groups can be programmed, each containing up to 16 extensions.
To assign members to the group, click **Member List**. To assign extensions as overflow destinations easily, click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ Hunting Group Name

Specifies the name of the hunting group.

Value Range

Max. 20 characters

Maintenance Console Location

5.17 [3-6] Extension Hunting Group

Programming Manual References

None

Feature Guide References

1.2.1 Idle Extension Hunting

◆ Hunting Type

Specifies the hunting type for the hunting group.

Value Range

Circular: Circulates until the call is answered or overflowed
Terminated: Terminates at the last extension

Maintenance Console Location

5.17 [3-6] Extension Hunting Group

Programming Manual References

None

Feature Guide References

1.2.1 Idle Extension Hunting
2.2.2 Group

◆ Overflow—Day, Lunch, Break, Night

Specifies the overflow destination of an unanswered call in each time mode.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

5.17 [3-6] Extension Hunting Group

Programming Manual References

None

Feature Guide References

1.2.1 Idle Extension Hunting

5.18 [3-6] Extension Hunting Group—Member List

Each hunting group can contain up to 16 extensions. Select the hunting group to programme from the **Hunting Group No.** list.
To assign members to the group, enter the extension numbers in ◆ **Extension Number** or click **Extension No. Setting** (see **2.1.6 Extension Number Setting**).

◆ Extension Number

Specifies the extension number of the hunting group member.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.18 [3-6] Extension Hunting Group—Member List

Programming Manual References

5.17 [3-6] Extension Hunting Group

Feature Guide References

1.2.1 Idle Extension Hunting

◆ Extension Name

Indicates the name of the extension, when an extension number is specified in ◆ **Extension Number** above (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.18 [3-6] Extension Hunting Group—Member List

Programming Manual References

5.17 [3-6] Extension Hunting Group

Feature Guide References

1.2.1 Idle Extension Hunting

5.19 [3-7-1] VM(DPT) Group—System Settings

A Panasonic Voice Processing System (VPS) with DPT Integration can be connected to DPT ports of the PBX. The DPT ports that are connected to the VPS are called a VM (DPT) Group.
With the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200, 2 VM (DPT) Groups can be programmed; and with the KX-TDE600, 8 VM (DPT) groups can be programmed.

◆ Call Waiting on VM Group

Enables the queuing of calls when all extension ports of the VM (DPT) group are busy. (Call Waiting tone is not sent to any VM port.)

Value Range

Disable, Enable

Maintenance Console Location

5.19 [3-7-1] VM(DPT) Group—System Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

1.2.2.4 Queuing Feature
1.24.1 Voice Mail (VM) Group

◆ Intercept to Mailbox for Call to Extension

Enables the PBX to send the mailbox number of the called extension to the VPS when a call is redirected to the VM (DPT) group by Intercept Routing. When the VPS receives the mailbox number, the VPS answers the call with the appropriate mailbox.

Value Range

Disable, Enable

Maintenance Console Location

5.19 [3-7-1] VM(DPT) Group—System Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port
6.1 [4-1-1] Wired Extension—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night
6.10 [4-2-1] Portable Station—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night

Feature Guide References

1.24.1 Voice Mail (VM) Group

1.24.3 Voice Mail DPT (Digital) Integration

◆ Overflow to Mailbox for Call to ICD Group

Enables the PBX to send the mailbox number of the called extension to the VPS when a call is redirected from an incoming call distribution group to the VM (DPT) group by Intercept Routing. When the VPS receives the mailbox number, the VPS answers the call with the appropriate mailbox.

Value Range

Disable, Enable

Maintenance Console Location

5.19 [3-7-1] VM(DPT) Group—System Settings

Programming Manual References

None

Feature Guide References

1.2.2 Incoming Call Distribution Group Features

◆ Transfer Recall to Mailbox

Enables the PBX to send the mailbox number of the transfer destination extension to the VPS in these situations: (1) when a call is transferred to an extension by the Call Transfer without Announcement feature using the Automated Attendant (AA) service of the VPS, and the call is not answered within a programmed time period; (2) when the VPS is assigned as the Transfer Recall destination of a certain extension. When the VPS receives the mailbox number, the VPS answers the call with the appropriate mailbox.

Value Range

Disable, Enable

Maintenance Console Location

5.19 [3-7-1] VM(DPT) Group—System Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration

5.20 [3-7-2] VM(DPT) Group—Unit Settings

A VM (DPT) group has a floating extension number, which can be assigned as the destination for redirected calls and incoming calls.
To assign extension numbers to the group, click **Member List**. To view a list of all programmed extension numbers and types, click **Extension List View**.

◆ Floating Extension No.

Specifies the floating extension number of the VM (DPT) group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.20 [3-7-2] VM(DPT) Group—Unit Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration

◆ Group Name

Specifies the name of the VM (DPT) group, which will be shown on the display of extensions that call the VM (DPT) group.

Value Range

Max. 20 characters

Maintenance Console Location

5.20 [3-7-2] VM(DPT) Group—Unit Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration

Centralised VM Unit Setting

◆ Floating Extension No. (TIE)

Specifies the floating extension number of the centralised VM (DPT) group. This floating extension number must start with the number used to access a TIE line or the extensions of another PBX.

Value Range

Max. 8 digits (consisting of 0–9, *, and #)

Maintenance Console Location

5.20 [3-7-2] VM(DPT) Group—Unit Settings

Programming Manual References

4.9 [2-6-1] Numbering Plan—Main—Features—◆ TIE Line Access
4.9 [2-6-1] Numbering Plan—Main—Other PBX Extension

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration
1.30.5.2 Centralised Voice Mail

◆ Group Name

Specifies the name of the centralised VM (DPT) group, which will be shown on the display of extensions that call the VM (DPT) group.

Value Range

Max. 20 characters

Maintenance Console Location

5.20 [3-7-2] VM(DPT) Group—Unit Settings

Programming Manual References

None

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration
1.30.5.2 Centralised Voice Mail

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Displays information on the settings of all relevant ports. Only ports set to **VM(DPT)** in ◆ **DPT Type—Type** of **3.24 [1-1] Slot—Port Property - Extension Port** will be displayed. In addition, the other information displayed here can also be set in **3.24 [1-1] Slot—Port Property - Extension Port**.

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings

Feature Guide References

2.1.1 Extension Port Configuration

◆ VM Unit No.

Indicates the unit number of the connected VPS (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1, 2

For KX-TDE600:

1–8

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ VM Port No.

Indicates the VM port number for the port (reference only).

Value Range

1–12

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ Extension No.

Indicates the extension number assigned to the VM port (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings
5.23 [3-8-2] VM(DTMF) Group—Group Settings

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Name

Indicates the name of the extension (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.21 [3-7-2] VM(DPT) Group—Unit Settings—Member List

Programming Manual References

◆ DPT Type—Type
5.20 [3-7-2] VM(DPT) Group—Unit Settings

Feature Guide References

1.24.1 Voice Mail (VM) Group
1.24.3 Voice Mail DPT (Digital) Integration

5.22 [3-8-1] VM(DTMF) Group—System Settings

A Panasonic Voice Processing System (VPS) with DTMF Integration can be connected to SLT ports of the PBX. The SLT ports that are connected to the VPS are called a VM (DTMF) Group. A maximum of 2 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 8 (with the KX-TDE600) VM (DTMF) Groups can be programmed.
For more information on Voice Mail groups and DTMF integration, see "1.24.1 Voice Mail (VM) Group" and "1.24.2 Voice Mail DTMF Integration" in the Feature Guide.

◆ VM DTMF Status Signal—Ringback Tone

Specifies the DTMF status signal the PBX sends to the VPS when the called extension is ringing.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—Busy Tone

Specifies the DTMF status signal the PBX sends to the VPS when the called extension is busy.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—Reorder Tone

Specifies the DTMF status signal the PBX sends to the VPS when the dialled number is invalid.

Value Range
Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location
5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References
None

Feature Guide References
None

◆ VM DTMF Status Signal—DND Tone
Specifies the DTMF status signal the PBX sends to the VPS when the called extension is in DND mode.

Value Range
Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location
5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References
None

Feature Guide References
None

◆ VM DTMF Status Signal—Answer
Specifies the DTMF status signal the PBX sends to the VPS when the called extension has answered the call.

Value Range
Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location
5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References
None

Feature Guide References

None

◆ VM DTMF Status Signal—Confirm

Specifies the DTMF status signal the PBX sends to the VPS when a certain feature (e.g., Message Waiting) has been successfully set or cancelled on an extension.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—Disconnect

Specifies the DTMF status signal the PBX sends to the VPS when the caller hangs up.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—FWD to VM Ringback Tone

Specifies the DTMF status signal the PBX sends to the VPS when the call has been forwarded to the VPS and the PBX is calling another port of the VPS.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—FWD to VM Busy Tone

Specifies the DTMF status signal the PBX sends to the VPS when the call has been forwarded to the VPS and all ports of the VPS are busy.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Status Signal—FWD to Extension Ringback Tone

Specifies the DTMF status signal the PBX sends to the VPS when the call has been forwarded to another extension and the PBX is calling the destination extension.

Value Range

Max. 4 digits (consisting of 0–9, *, #, and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Command—Recording Message

Specifies the DTMF command the PBX sends to the VPS when a call is forwarded, intercepted, or transferred to the VPS, so that the caller can leave a message in a certain mailbox.

Value Range

Max. 16 digits (consisting of 0–9, *, #, H [mailbox number], and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Command—Listening Message

Specifies the DTMF command the PBX sends to the VPS when an extension user answers a message waiting notification from the VPS, so that the extension user can retrieve a new message in a certain mailbox without having to dial the mailbox number manually.

Value Range

Max. 16 digits (consisting of 0–9, *, #, H [mailbox number], and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

1.19.1 Message Waiting

◆ VM DTMF Command—Switching to AA

Specifies the DTMF command the PBX sends to the VPS to switch from VM Service Mode to AA Service Mode.

Value Range

Max. 16 digits (consisting of 0–9, *, #, H [mailbox number], and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ VM DTMF Command—Switching to VM

Specifies the DTMF command the PBX sends to the VPS to switch from AA Service Mode to VM Service Mode.

Value Range

Max. 16 digits (consisting of 0–9, *, #, H [mailbox number], and P [pause])

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Timing—DTMF Length for VM

Specifies the length of DTMF signals the PBX sends to the VPS.

Value Range

80 ms, 160 ms

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Timing—Inter-digit Time

Specifies the length of pause time between DTMF signals the PBX sends to the VPS.

Value Range

80 ms, 160 ms

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Timing—Waiting Time before Sending Follow on ID

Specifies the length of time that the PBX waits before sending the Follow on ID to the VPS after the VPS has answered a call.

Value Range

0.5 s, 1.0 s, 1.5 s, 2.0 s

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Timing—Waiting Time before Sending VM DTMF Status Signal

Specifies the length of time that the PBX waits before sending the DTMF status signal to the VPS after the VPS has finished dialling.

Value Range

0.5 s, 1.0 s, 1.5 s, 2.0 s

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Others—Call Waiting on VM Group

Enables the queuing of calls when all extension ports of the VM (DTMF) group are busy. (Call Waiting tone is not sent to any VM port.)

Value Range

Disable, Enable

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature

◆ Others—FWD to the VPS Sequence

Specifies which DTMF commands the VPS receives from the PBX when a call is forwarded to the VPS, so that the VPS can answer the call either with a mailbox or in the AA service mode. It is also possible to send no DTMF signal to the VPS.

Value Range

None, Answer by Mailbox, AA

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Others—Intercept Routing to the VPS Sequence

Specifies which DTMF commands the VPS receives from the PBX when a call is intercepted to the VPS, so that the VPS can answer the call either with a mailbox or in the AA service mode. It is also possible to send no DTMF signal to the VPS.

Value Range

None, Answer by Mailbox, AA

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

◆ Others—Mailbox for Extension

Specifies whether the mailboxes use the same numbers as the extensions and incoming call distribution groups, or use different numbers as programmed for each extension or incoming call distribution group.

Value Range

Extension Number, Programmed Mailbox Number

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ Programmed Mailbox No.
6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Programmed Mailbox No.
6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Programmed Mailbox No.

Feature Guide References

None

◆ Others—Message Waiting Lamp Control

Specifies whether the PBX or VPS cancels the Message Waiting feature (e.g., turning off the MESSAGE button light) when an extension user answers the message waiting notification from the VPS.

Value Range

By PBX, By VM

Maintenance Console Location

5.22 [3-8-1] VM(DTMF) Group—System Settings

Programming Manual References

None

Feature Guide References

None

5.23 [3-8-2] VM(DTMF) Group—Group Settings

A VM (DTMF) group has a floating extension number, and can be assigned as the destination for redirected calls and incoming calls.
To assign members to the group, click **Member List**. To view a list of all programmed extension numbers and types, click **Extension List View**.

◆ Floating Ext. No.

Specifies the floating extension number of the VM (DTMF) group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.23 [3-8-2] VM(DTMF) Group—Group Settings

Programming Manual References

None

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ Group Name

Specifies the name of the VM (DTMF) group, which will be shown on the display of extensions that call the VM (DTMF) group.

Value Range

Max. 20 characters

Maintenance Console Location

5.23 [3-8-2] VM(DTMF) Group—Group Settings

Programming Manual References

None

Feature Guide References

1.24.1 Voice Mail (VM) Group

◆ Type

Specifies the initial service mode in which the VPS answers calls.

Value Range

AA, VM

Maintenance Console Location

5.23 [3-8-2] VM(DTMF) Group—Group Settings

Programming Manual References

None

Feature Guide References

1.24.2 Voice Mail DTMF Integration

5.24 [3-8-2] VM(DTMF) Group—Group Settings—Member List

Select the group to programme from the **VM(DTMF) Group Number** list.
To assign members to the group, enter directly or click **Extension No. Setting** (see **2.1.6 Extension Number Setting**). To copy members to another group, click **Member list copy**, select the group, and click **OK**.

◆ Extension Number of the SLT Port Connected to VM

Specifies the extension number assigned to the SLT port that is connected to the VPS.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.24 [3-8-2] VM(DTMF) Group—Group Settings—Member List

Programming Manual References

5.23 [3-8-2] VM(DTMF) Group—Group Settings

Feature Guide References

1.24.2 Voice Mail DTMF Integration

◆ Extension Name

Indicates the name of the extension (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.24 [3-8-2] VM(DTMF) Group—Group Settings—Member List

Programming Manual References

5.23 [3-8-2] VM(DTMF) Group—Group Settings

Feature Guide References

1.24.2 Voice Mail DTMF Integration

5.25 [3-9] PS Ring Group

A PS ring group is a group of PS extensions that receives incoming calls. Each group has a floating extension number and name. One PS can belong to multiple PS ring groups. A maximum of 32 PS ring groups can be programmed, each containing up to 64 (with the KX-NCP500/KX-NCP1000), 128 (with the KX-TDE100/KX-TDE200), or 512 (with the KX-TDE600) PS extensions.
To add PSs to the PS Ring Group, click **Member List**.

◆ Floating Extension Number

Specifies the floating extension number of the PS ring group.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

5.25 [3-9] PS Ring Group

Programming Manual References

None

Feature Guide References

1.25.2 PS Ring Group

◆ Group Name

Specifies the name of the PS ring group, which will be shown on the display of extensions that call the PS ring group when ◆ **Incoming Trunk Call Information Display** on this screen is set to **Called Number**.

Value Range

Max. 20 characters

Maintenance Console Location

5.25 [3-9] PS Ring Group

Programming Manual References

None

Feature Guide References

1.25.2 PS Ring Group

◆ Incoming Trunk Call Information Display

Specifies the information of the incoming trunk call to be shown on the displays of the PSs that belong to the PS ring group. If the caller's name or called party's name is not recognised, the telephone number will be shown.

Value Range

Caller ID, Called Number

Maintenance Console Location

5.25 [3-9] PS Ring Group

Programming Manual References

None

Feature Guide References

1.25.2 PS Ring Group

5.26 [3-9] PS Ring Group—Member List

Each PS Ring Group can have up to 64 (with the KX-NCP500/KX-NCP1000), 128 (with the KX-TDE100/KX-TDE200), or 512 (with the KX-TDE600) PS extensions assigned. Select the group to programme from the **PS Ring Group Number** list.
To assign members to the PS Ring Group, enter directly or click **Extension No. Setting** (see **2.1.6 Extension Number Setting**). To copy members to another group, click **Member list copy**, select the group, and click **OK**.

◆ Extension Number

Specifies the extension number of the PS assigned to the PS Ring Group.

Value Range

Max. 5 digits

Maintenance Console Location

5.26 [3-9] PS Ring Group—Member List

Programming Manual References

5.25 [3-9] PS Ring Group
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.25.2 PS Ring Group

◆ Extension Name

Indicates the name of the PS (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.26 [3-9] PS Ring Group—Member List

Programming Manual References

5.25 [3-9] PS Ring Group
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.25.2 PS Ring Group

5.27 [3-10] Conference Group

A conference group is a group of telephones (extensions or outside destinations) that ring when a conference group call is made. One destination number can be assigned to multiple conference groups. Up to 31 members can be assigned to each of 8 conference groups. To assign members to a group, click **Member List**.
When ◆ **Broadcast Mode** is set to "Disable", only up to 7 members can be assigned to a group. All of these members are automatically allowed to speak when the call starts.

◆ Conference Group Name

Specifies the name of the conference group.

Value Range

Max. 20 characters

Maintenance Console Location

5.27 [3-10] Conference Group

Programming Manual References

None

Feature Guide References

1.15.1 Conference Group Call

◆ Broadcast Mode

Specifies whether only the original caller can speak or up to 8 people can speak at the start of a conference group call.

Value Range

Disable: The original caller and up to 7 participants can speak at the start of a conference group call.
Enable: Only the original caller can speak at the start of a conference group call.

Maintenance Console Location

5.27 [3-10] Conference Group

Programming Manual References

None

Feature Guide References

1.15.1 Conference Group Call

◆ Ability to Talk

Enables extension users to use the push-to-talk feature during a conference group call, when ◆ **Broadcast Mode** is set to "Enable". The push-to-talk feature allows extension users to speak during the call by pressing any of their dial keys.

Value Range

Disable, Enable

Maintenance Console Location

5.27 [3-10] Conference Group

Programming Manual References

5.27 [3-10] Conference Group—◆ Broadcast Mode

Feature Guide References

1.15.1 Conference Group Call

◆ Automatic Answer w/o Extension Setting

Specifies if the extensions of the conference will automatically answer a conference group call, even if Hands-free Answerback is not set for those extensions. This setting can be used with PTs and KX-WT125/KX-TCA175/KX-TCA275/KX-TCA185/KX-TCA285/KX-TCA385 PSs.

Value Range

Disable, Enable

Maintenance Console Location

5.27 [3-10] Conference Group

Programming Manual References

5.27 [3-10] Conference Group—◆ Broadcast Mode

Feature Guide References

1.15.1 Conference Group Call

5.28 [3-10] Conference Group—Member List

Up to 31 members can be assigned to each conference group. Select the group to programme from the **Conference Group No.** list.
When ◆ **Broadcast Mode** is set to "Disable", only up to 7 members can be assigned to a group. All of these members are automatically allowed to speak when the call starts.
To copy the numbers to another group, click **Member list copy**, select the group to copy to, and click **OK**.
To assign destinations for conference groups easily, click **Extension No. Setting** (see **2.1.6 Extension Number Setting**).

◆ Dial Number

Specifies the destination number of each member of the conference group.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

5.28 [3-10] Conference Group—Member List

Programming Manual References

5.27 [3-10] Conference Group

Feature Guide References

1.15.1 Conference Group Call

◆ Extension Name

Indicates the name of the extension, when an extension number is specified in ◆ **Dial Number** above (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

5.28 [3-10] Conference Group—Member List

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References

1.15.1 Conference Group Call

Section 6

[4] Extension

6.1 [4-1-1] Wired Extension—Extension Settings

For each slot in which an extension card is installed, a certain number of extension ports are displayed. For each extension port, various extension settings can be assigned.
To search for a specific extension, enter the extension number or the extension name in the search box and click **Find Next**.
To copy the settings of an extension to another extension, click **Copy to**. The copied data includes FWD/DND, personal speed dialling, and flexible button settings.
To assign a set of CLIP numbers automatically, click **CLIP Generate**.

Main

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Shelf

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of each extension card (reference only).

Value Range

Slot number

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.24 [1-1] Slot—Port Property - Extension Port

Feature Guide References

None

◆ Port Type

Indicates the extension port type (reference only).

Value Range

DPT: DPT port (DLC)
SLT: SLT port (SLC/MSLC/CSLC/MCSLC)
S-Hybrid: Super Hybrid port (DHLC)
S-Hybrid(SLT): XDP port of Super Hybrid port (DHLC)
S-Hybrid(S-DPT): Digital XDP port of Super Hybrid port (DHLC)
DPT(S-DPT): Digital XDP port of DPT port (DLC)
ISDN: ISDN port (BRI/PRI)
OPX: T1-OPX port (T1)
IP-EXT: IP-Extension port (IP-EXT/V-IPEXT)
SIP: Virtual SIP Extension port (V-SIPEXT)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

2.1.1 Extension Port Configuration

◆ Telephone Type

Indicates the type of telephone connected to the extension port (reference only).

Value Range

DPT (15V)/DPT (40V): DPT is connected.
APT (15V): APT is connected.
DSS: DSS Console is connected.
VM: VPS is connected.
SLT: SLT is connected (or no telephone is connected to the Super Hybrid or SLT port).
ISDN-Ext: ISDN telephone is connected.
No Connection: No telephone is connected.
CS: CS is connected.
CS-M: High-density CS is connected with its master port.
CS-S1–3: High-density CS is connected with its slave port.
IP-EXT (KX-TDE series only): IP-PT belonging to the IP-EXT card is connected.
IP-PT: IP-PT belonging to the V-IPEXT card is connected.

SIP: SIP Extension is connected.

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ User Group

Specifies the extension user group to which the extension belongs. Extension user groups are used to compose tenants, call pickup groups and paging groups.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–32

For KX-TDE600:

1–96

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

2.2.2 Group
2.2.3 Tenant Service

◆ COS

Specifies the COS of the extension.

Value Range

1–64

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings

Feature Guide References

2.2.1 Class of Service (COS)

◆ Extension PIN

Specifies the PIN of the extension.

CAUTION

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.
The cost of such calls will be billed to the owner/renter of the PBX.
To protect the PBX from this kind of fraudulent use, we strongly recommend:

a. Keeping PINs secret.
b. Selecting complex, random PINs that cannot be easily guessed.
c. Changing PINs frequently.

Value Range

Max. 10 digits (consisting of 0-9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

Intercept Destination

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night

Specifies the Intercept Routing destination of calls in each time mode for Intercept Routing–No Answer and Intercept Routing–DND.
Note that Intercept Routing–Busy calls are routed using ◆ **Intercept Destination—When Called Party is Busy** below.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Intercept Destination—◆ Intercept Destination—When Called Party is Busy

Feature Guide References

1.1.1.6 Intercept Routing

◆ Intercept Destination—When Called Party is Busy

Specifies the Intercept Routing destination of calls when the extension is busy.

Value Range
Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
None

Feature Guide References
1.1.1.6 Intercept Routing

Intercept No Answer Time

◆ Extension Number
Specifies the extension number of the extension.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References
None

◆ Extension Name
Specifies the name of the extension.

Value Range
Max. 20 characters

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
None

Feature Guide References

None

◆ Intercept No Answer Time—Day, Lunch, Break, Night

Specifies the length of time until an unanswered call is redirected to the intercept routing destination in each time mode.
When this setting is set to "0", the system timer is used.

Value Range

0–240 s

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Intercept Routing No Answer (IRNA)—Day, Lunch, Break, Night

Feature Guide References

1.1.1.6 Intercept Routing

ISDN CLIP

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ CLIP ID

Specifies the CLIP number sent to the public network to show on the called party's telephone display when making a trunk call.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ CLIP on Extension/CO

Selects the CLIP number to show on the called party's telephone.

Value Range

Extension: Show the CLIP number specified in ◆ **CLIP ID** on the **Option 1** tab.
CO: Show the CLIP number specified in ◆ **Subscriber Number** in **3.33 [1-1] Slot—Port Property - BRI Port** or **3.35 [1-1] Slot—Port Property - PRI Port**.

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ Subscriber Number
3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ Subscriber Number
6.1 [4-1-1] Wired Extension—Extension Settings—ISDN CLIP—◆ CLIP ID

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ ARS Itemised Code/2nd CLIP (10 digits)

Specifies the itemised billing code or 2nd CLIP number used by the ARS feature for identifying calls made from the extension for accounting and billing purposes.

Value Range

Max. 10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

10.6 [8-5] Carrier

Feature Guide References

1.9.6 Verification Code Entry
1.10.1 Automatic Route Selection (ARS)

◆ CLIR

Specifies whether to restrict the display of the CLIP number on the called party's telephone when making a public network trunk call.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ COLR

Specifies whether to restrict the display of the CLIP number of the extension on the caller's telephone display when answering a call.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

Option 1

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Wireless XDP

Specifies the extension number of the PS with which Wireless XDP Parallel Mode is established. To enable Wireless XDP Parallel Mode, the PS must be turned off once and then turned on after assigning this setting. When changing the port type of an extension port in ◆ **DPT Type—Type** on the **3.24 [1-1] Slot—Port Property - Extension Port** screen, the ◆ **Wireless XDP** setting must be deleted first.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.25.5 Wireless XDP Parallel Mode

◆ Ring Pattern Table

Specifies the Ring Tone Pattern Table to be used by the extension.

Value Range

1–8

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

4.15 [2-8-1] Ring Tone Patterns—Call from CO
4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone
4.17 [2-8-3] Ring Tone Patterns—Call from Others

Feature Guide References

1.1.3.2 Ring Tone Pattern Selection

◆ Automatic Recording

Specifies the floating extension number to use for the Automatic Recording feature to automatically record calls for the extension. The floating extension numbers and names displayed here are specified in **5.20 [3-7-2] VM(DPT) Group—Unit Settings**.

Value Range

None, Floating Extension No.

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

5.20 [3-7-2] VM(DPT) Group—Unit Settings—◆ Floating Extension No.

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

◆ Programmed Mailbox No.

Specifies the mailbox number of the extension's mailbox for Voice Processing Systems (VPS) with DTMF Integration, or specifies a mailbox number for the Automatic Recording feature.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

Feature Guide References

1.24.2 Voice Mail DTMF Integration

◆ Transfer Recall Destination

Specifies the transfer recall destination when an extension user transfers a call with the Call Transfer without Announcement feature and the transferred call is not answered within a certain time period.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.12.1 Call Transfer

Option 2

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Manual C. Waiting for Extension Call

Selects the method of receiving call waiting notification from other extensions.

Value Range

Off: No notification
BSS: Tone from the handset or built-in speaker
OHCA: Voice from the built-in speaker
W-OHCA: Voice from the handset

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting
1.8.5.1 Second Call Notification to Busy Extension—SUMMARY

◆ Automatic C. Waiting

Specifies whether to receive call waiting notifications for calls from a trunk, doorphone calls, and calls via an incoming call distribution group.

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting

◆ Pickup Dial Set

Sets or cancels the Hot Line feature. The number specified in ◆ **Pickup Dial No.** on this screen is dialled automatically after going off-hook when the Hot Line feature is active.

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Hot Line (Pickup Dial) Start

Feature Guide References

1.6.1.7 Hot Line

◆ Pickup Dial No.

Specifies the number to be dialled automatically after going off-hook when the Hot Line feature is active.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.6.1.7 Hot Line

◆ Data Mode

Sets or cancels the protection against tones or interruptions from other extensions during communication.

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.11.5 Data Line Security

Option 3

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Call Pickup Deny

Specifies whether calls can be picked up by other extensions.

Value Range

Disable: Allows other extension users to pick up calls to your extension
Enable: Prevents other extension users from picking up calls to your extension

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup

◆ Executive Override Deny

Specifies whether calls can be interrupted by other extensions.

Value Range

Disable: Allows other extension users to interrupt an existing call
Enable: Prevents other extension users from interrupting an existing call

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.8.2 Executive Busy Override

◆ Absent Message

Specifies the Personal Absent Message which, unlike the System Absent Message, can be customised for each extension.

Value Range

Max. 16 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.19.2 Absent Message

◆ Charge Limit

Specifies the maximum limit of call charges allowed for the extension. When this limit is reached, the extension cannot be used to make further trunk calls.
The number of decimal places that can be specified here depends on the value set in ◆ **Charge Options—Digits After Decimal Point** in **8.2 [6-2] Hotel & Charge**.

Value Range

0–9999999

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

8.2 [6-2] Hotel & Charge

Feature Guide References

1.9.2 Budget Management

◆ Intercom Call by Voice

Selects the method of receiving intercom calls. When **Deny Voice Call** is selected, the extension will always ring when receiving calls, regardless of how the caller wants to make the call.

Value Range

Tone Call, Voice Call, Deny Voice Call

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.5.3 Intercom Call

Option 4

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Outgoing Preferred Line

Selects the line to be seized after going off-hook to make a call.

Value Range

No Line: No line is seized.
Idle: An idle trunk is seized automatically from the programmed trunk groups.
ICM/PDN: An extension line is seized, or, for a PDN extension, an idle PDN button is selected.
F-1–F-84: A trunk programmed for a flexible button (F-1–F-84) is seized. A flexible button customised as a Single-CO, Group-CO, Loop-CO, or ICD Group button must be selected.

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button

Feature Guide References

1.5.5.2 Line Preference—Outgoing

◆ Incoming Preferred Line

Selects the line on which an incoming call is answered after going off-hook.
Note that even if a specific PDN button is selected here, a call ringing at any PDN button on the extension will be answered when going off-hook.

Value Range

No Line: No line is selected. Select a line by pressing the desired Line Access button to answer a call.
Ringing Line: The longest ringing call is selected.
PDN: The call arriving at any PDN button is selected.
F-1–F-84: The call arriving at a flexible button (F-1–F-84) is selected. A flexible button customised as a Single-CO, Group-CO, Loop-CO, or ICD Group button must be selected.

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button

Feature Guide References

1.4.1.2 Line Preference—Incoming

◆ Call Waiting Tone Type

Selects the type of Call Waiting tone sent to the busy extension.

Value Range

CW Tone 1, CW Tone 2

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.8.5.2 Call Waiting Tone

◆ LCS Recording Mode

Specifies whether to continue or stop recording the message in the extension's mailbox when the extension user answers a call that was being monitored.

Value Range

Stop Record, Keep Record

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

◆ LCS Answer Mode

Specifies whether the extension's mailbox is monitored in Hands-free or Private mode.

Value Range

Hands free: Monitor through the built-in speaker
Private: Monitor through the handset or the built-in speaker after hearing a warning tone

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.11.1 Hands-free Operation
1.24.3 Voice Mail DPT (Digital) Integration

Option 5

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Display Language

Selects the display language of the extension telephone.

Value Range

Language1–Language5

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Incoming Call Display

Selects which caller information is shown on the first line of the extension's display.

Value Range

Caller ID Name, CO Line Name, DDI/DID Name

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Automatic LCD Switch when Start Talking

Enables the first line of the display to show the call duration automatically after answering a trunk call.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Key Pad Tone

Specifies whether key pad tones are heard when dialling.

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Automatic Answer for CO Call

Enables the extension to answer an incoming trunk call automatically after a certain number of rings without going off-hook, when Hands-free Answerback has been set on the extension. This setting is only effective when ◆ **Forced Automatic Answer** on this screen has been set to **Off**.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.4.1.4 Hands-free Answerback

Option 6

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Forced Automatic Answer

Specifies whether the extension automatically answers all incoming calls (both intercom and trunk calls) without going off-hook, regardless of the Hands-free Answerback setting.

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Flexible Button Programming Mode

Specifies whether the extension user can modify all flexible buttons without limitation, or only the One-touch Dialling buttons. When the mode is set to **One-touch Dial**, there is no need to enter "2" before the number when customising a One-touch Dialling button.

Value Range

No Limitation, One-touch Dial

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ ICM Tone

Selects the ring tone for incoming calls arriving at the INTERCOM button or PDN buttons. Note that the ring tone specified here is applied to all PDN buttons on an extension.

Value Range

KX-DT300 series (except KX-DT321)/KX-T7600 series (except KX-T7665)/IP-PT (except KX-NT265/KX-NT321): 1–30
KX-DT321/KX-T7665/KX-NT265/KX-NT321: 1–8 (Even if ring tone 9–30 is selected, ring tone 1 is heard.)
Other telephones: 1–8 (Even if ring tone 9–30 is selected, ring tone 2 is heard.)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Display Lock / SVM Lock

Locks or unlocks the Incoming Call Log and Simplified Voice Message Log display (i.e., specifies whether other extension users can see the Incoming Call Log and SVM Log information at the extension).

Value Range

Unlock, Lock

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log
1.17.7 Built-in Simplified Voice Message (SVM)

◆ Paging Deny

Specifies whether paging of the extension from other extensions is enabled.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.16.1 Paging

Option 7

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Character Input Mode

Selects the character table to be used for entering characters.

Value Range

Table 1: Standard mode
Table 2: Option mode

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Flash Mode during CO Conversation

Selects the function of the FLASH/RECALL button during a trunk conversation.

Value Range

EFA, Terminate, Flash Recall

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate
1.11.7 External Feature Access (EFA)

◆ Incoming Call Log Memory

Specifies the number of incoming trunk calls that are retained in the extension's Incoming Call Log memory.

Value Range

0–100

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log

◆ Outgoing Call Log Memory

Specifies the number of telephone numbers dialled by the extension that are retained in the extension's Outgoing Call Log memory.

Value Range

1–100

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ ISDN Bearer

Selects the ISDN bearer mode. When **Automatic** is selected, the bearer mode is set automatically depending on the extension's telephone type as follows:

PT: Speech
SLT: Audio

Value Range

Automatic, Speech, Audio

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

Option 8

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Group CW w/o Tone (Ring after Call)

Enables an incoming call to an incoming call distribution group to arrive at a previously busy extension at the moment that the extension goes on-hook for the previous call.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Extension Caller ID Sending

Enables the extension to send Caller ID information to an SLT.

Value Range

Disable, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ Incoming Call Wait Timer for Extension Caller ID

Specifies the length of time that the ringing for a call is delayed when the call follows immediately after the previous unanswered call. When receiving two calls in quick succession (e.g., when a call waiting in a queue

is directed to an extension immediately after the previous unanswered call stops ringing), some SLTs require a pause, after the first call stops ringing, to receive the second call's Caller ID information.

Value Range

0–15 s

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.18.1 Caller ID

◆ SLT MW Mode (KX-TDE series only)

Enables the use of the Message Waiting Lamp on an SLT extension connected to the extension port.

Value Range

Disable, MW-Lamp

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.19.1 Message Waiting

◆ Wrap-up Timer

Specifies the length of time that must pass after completing a call before an extension will accept another call when logged in as a member of an Incoming Call Distribution Group.
This timer is used when "◆ **Options—Wrap-up Timer based on**" is set to "**Extension**" in **5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous**.

Value Range

0–3000 s

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Wrap-up Timer
5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Wrap-up Timer based on

Feature Guide References

1.2.2.7 Log-in/Log-out

Option 9

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ PDN Delayed Ringing

Specifies the delayed ringing setting for calls to a PDN extension (an extension with one or more PDN buttons).

Value Range

Immediate, 1 Ring, 2 Rings, 3 Rings, 4 Rings, 5 Rings, 6 Rings

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Built-in Communication Assistant

Specifies whether to enable or disable the Communication Assistant (CA) application for each extension. This setting is not available when the corresponding extension is a SIP extension.

Value Range

Disable, Basic Only, Enable

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)—Port Number—◆ Built-in Communication Assistant Server

Feature Guide References

1.32.3 CA (Communication Assistant)

FWD / DND

Call Forwarding (FWD) and Do Not Disturb (DND) settings for each extension can be referred. FWD and DND settings can be programmed separately for each extension in **6.3 [4-1-2] Wired Extension—FWD/DND**.

◆ Extension Number

Specifies the extension number of the extension.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

3.25 [1-1] Slot—Port Property - Extension Port—Connection Command

Feature Guide References

None

◆ Extension Name

Specifies the name of the extension.

Value Range

Max. 20 characters

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ FWD No Answer Time

Specifies the length of time that an incoming call rings at the extension before the call is forwarded.

Value Range

0–120 s

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Keep ring after FWD NA to CO

Specifies whether an extension continues to ring after forwarding an incoming call to an outside destination via FWD N/A or FWD Busy N/A.

Value Range
Disable, Enable

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References
1.3.1.2 Call Forwarding (FWD)

◆ FWD Availability for FWD/DND Key (CO)
Indicates the current FWD status for incoming trunk calls (reference only).

Value Range
Off, On

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References
1.3.1.2 Call Forwarding (FWD)

◆ DND Availability for FWD/DND Key (CO)
Indicates the current DND status for incoming trunk calls (reference only).

Value Range
Off, On

Maintenance Console Location
6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References
6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

◆ FWD Mode for Call from CO

Indicates the forwarding type of incoming trunk calls (reference only).

Value Range

None, FWD All, FWD Busy, FWD N/A, FWD Busy N/A

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Destination for Call from CO

Indicates the forwarding destination of incoming trunk calls (reference only).

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Availability for FWD/DND Key (Extension)

Indicates the current FWD status for incoming intercom calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ DND Availability for FWD/DND Key (Extension)

Indicates the current DND status for incoming intercom calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

◆ FWD Mode for Call from Extension

Indicates the forwarding type of incoming intercom calls (reference only).

Value Range

None, FWD All, FWD Busy, FWD N/A, FWD Busy N/A

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Destination for Call from Extension

Indicates the forwarding destination of incoming intercom calls (reference only).

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.1 [4-1-1] Wired Extension—Extension Settings

Programming Manual References

6.3 [4-1-2] Wired Extension—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

CLIP Generate allows the CLIP numbers for a set of locations in series to be programmed together.
Pre-assigned CLIP numbers for those locations will be overwritten.
If a number generated here is longer than 16 digits, the additional digits will be discarded.

◆ Location Entry—Beginning Entry Location (Ext. Number)

Specifies the extension number of the first location to be programmed.

Value Range

Wired extension number

Maintenance Console Location

6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Location Entry—Number to Generate

Specifies the number of locations to be programmed.
A CLIP number will only be assigned to connected wired extensions, even if the number entered here is larger than the total number of wired extensions.

Value Range

1–total number of connected wired extensions

Maintenance Console Location

6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Deleting Digits

Specifies the number of digits to be deleted from the start of an extension number when using it as part of the CLIP number.

Value Range
0–5

Maintenance Console Location
6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

Programming Manual References
6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Head of ID
Specifies a prefix number to be applied to all generated CLIP numbers.

Value Range
Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location
6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

Programming Manual References
6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Tail of ID
Specifies a suffix number to be applied to all generated CLIP numbers.

Value Range
Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location
6.2 [4-1-1] Wired Extension—Extension Settings—CLIP Generate

Programming Manual References
6.1 [4-1-1] Wired Extension—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

6.3 [4-1-2] Wired Extension—FWD/DND

For each extension, separate Call Forwarding (FWD) and Do Not Disturb (DND) settings can be programmed for incoming intercom and trunk calls. Select the desired extension from the **Extension Number / Name** list. To copy the FWD/DND settings of an extension to another extension, click **Copy to**.

◆ Forward / DND—For external calls

Specifies the FWD/DND setting for external calls.
If **Always (All)**, **Busy**, **No Answer**, or **Busy / No Answer** is selected, the FWD destination field can be set.

Value Range

Always (All), Busy, No Answer, Busy / No Answer, Do Not Disturb, Off

Maintenance Console Location

6.3 [4-1-2] Wired Extension—FWD/DND

Programming Manual References

None

Feature Guide References

1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

◆ Forward / DND—For internal calls

Specifies the FWD/DND setting for internal calls.
If **Always (All)**, **Busy**, **No Answer**, or **Busy / No Answer** is selected, the FWD destination field can be set.
If **For both external calls and internal calls** is checked, this setting becomes unavailable, and the value set for external calls is applied to internal calls.

Value Range

Always (All), Busy, No Answer, Busy / No Answer, Do Not Disturb, Off

Maintenance Console Location

6.3 [4-1-2] Wired Extension—FWD/DND

Programming Manual References

None

Feature Guide References

1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

6.4 [4-1-3] Wired Extension—Speed Dial

Personal Speed Dialling allows extension users to dial frequently dialled numbers using two-digit speed dialling numbers (00–99). A maximum of 100 Personal Speed Dialling numbers can be programmed for each extension. Select the desired extension from the **Extension Number / Name** list.
The available speed dialling numbers are shown in sets of 20. Select the desired set from the **Personal Speed Dialling No.** list.

◆ Speed Dialling Name

Specifies the name of the Personal Speed Dialling number to call using the Personal Speed Dialling Directory shown on the extension's display.

Value Range

Max. 20 characters

Maintenance Console Location

6.4 [4-1-3] Wired Extension—Speed Dial

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

◆ Dialling Number

Specifies the number to be dialled by the Personal Speed Dialling number.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.4 [4-1-3] Wired Extension—Speed Dial

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System

6.5 [4-1-4] Wired Extension—Flexible Button

Each flexible button can be customised to allow one-touch access to a certain feature. A maximum of 84 flexible buttons can be customised for each extension. The settings can then be printed out as a key label template and attached to your extension for quick reference. Select the desired extension from the **Extension Number / Name** list.
To copy the flexible button settings of an extension to another extension, click **Copy to**.
To print the flexible button settings of an extension or output them to a PDF file, click **Key Label Print**.
The key label settings related to display - Label, Colour of Font, Colour of Background, Font Size, and Telephone Type - can be saved for future use. Select an action from the **Key Label File** drop-down list. Note that it is necessary to save these settings separately from system data.
For more information on flexible buttons, see "1.20.2 Flexible Buttons" in the Feature Guide.

Display Option—Key Setting

◆ Type

Specifies the feature to be assigned to the flexible button.

Value Range

Not Stored, Loop CO, Single CO, Group CO, DSS, One-touch, ICD Group, Message Waiting, FWD/DND (Both), FWD/DND (External), FWD/DND (Internal), Group Fwd (Both), Group Fwd (External), Group Fwd (Internal), Account, Conference, Terminate, EFA, Charge, Call Park, Call Log, Log-in/Log-out, Hurry-up, Wrap-up, System Alarm, Time Service, Answer, Release, TRS Level Change, ISDN Service, CLIR, COLR, ISDN Hold, Headset, Time Service - Automatic/Manual, Check In, Check Out, Cleaned Up, Two-way Record, Two-way Transfer, LCS, Voice Mail Transfer, NDSS, CTI, PDN, SDN

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.6 [4-1-4] Wired Extension—Flexible Button—Flexible button data copy

Feature Guide References

None

◆ Parameter Selection (for Single CO)

Specifies the trunk to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–128

For KX-TDE600:

1–640

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Group CO)

Specifies the trunk group to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–64

For KX-TDE600:

1–96

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Call Park)

Specifies whether a call is parked in an idle parking zone automatically or in a specific parking zone.

Value Range

Automatic, Specific

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Parameter Selection (for Log-in/Log-out)

Specifies which incoming call distribution groups that the extension belongs to are logged in to or logged out from.

Value Range

None: The incoming call distribution group is selected manually.
All: All incoming call distribution groups that the extension belongs to.
Incoming Group: A pre-specified incoming call distribution group

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Parameter Selection (for Time Service)

Selects which time modes are switched manually.

Value Range

All (Day/Night/Lunch/Break), Day/Night/Break, Day/Night/Lunch, Day/Night

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for TRS Level Change)

Specifies the TRS/Barring level to be used temporarily on a certain extension.

Value Range

1–7

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)
1.9.4 Dial Tone Transfer

◆ Parameter Selection (for Time Service - Automatic/Manual)

Specifies the Time Table to be used when the Time Service Switching Mode is set to Automatic.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for SDN)

Specifies the delayed ringing setting for calls arriving at an SDN button.

Value Range

Immediate, 1 Ring, 2 Rings, 3 Rings, 4 Rings, 5 Rings, 6 Rings, No Ring

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Extension Number (for DSS)

Specifies the number of an extension to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for ICD Group)

Specifies the floating extension number of an incoming call distribution group to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Message Waiting)

Specifies the number of an extension or floating extension number of an incoming call distribution group for which messages are checked. If this cell is left empty, the extension will check its own messages only.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Group Fwd (Both))

Specifies the floating extension number of an incoming call distribution group for which both intercom and trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (External))

Specifies the floating extension number of an incoming call distribution group for which trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (Internal))

Specifies the floating extension number of an incoming call distribution group for which intercom calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Call Log)

Specifies the extension's own number or the floating extension number of an incoming call distribution group for which call log information is displayed. If the cell is left empty, the extension will display its own call log information.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Log-in/Log-out)

Specifies the floating extension number of an incoming call distribution group to log-in to or log-out from.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Extension Number (for Hurry-up)

Specifies the floating extension number of the incoming call distribution group whose longest waiting call will be redirected (Manual Queue Redirection).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature

◆ Extension Number (for Two-way Record)

Specifies the floating extension number of the VM (DPT) group containing the extension's mailbox.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Two-way Transfer)

Specifies the floating extension number of the VM (DPT) group containing the desired mailbox.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Voice Mail Transfer)
Specifies the floating extension number of the VM (DTMF/DPT) group containing the desired mailbox.

Value Range
Max. 8 digits (consisting of 0–9)

Maintenance Console Location
6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References
None

Feature Guide References
1.24.2 Voice Mail DTMF Integration
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for SDN)
Specifies the floating extension number of the PDN extension corresponding to this SDN button.
Note that the extension specified here must have a PDN button registered for the SDN button to function.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References
None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Extension Name

Indicates the name of the extension, when an extension number is specified (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Dial (for One-touch)

Specifies the number to be dialled. The PBX can have a maximum of 2000 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 5000 (with the KX-TDE600) One-touch Dialling buttons for extensions and DSS Consoles.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.6.1.2 One-touch Dialling

◆ Dial (for ISDN Service)

Specifies the number required to access the telephone company's ISDN service.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.21.1.12 ISDN Service Access by Keypad Protocol

◆ Dial (for NDSS)

Specifies the network extension number of the extension to be accessed using Network Direct Station Selection.
Note that only extension numbers that have been previously registered in **11.4 [9-4] NDSS Key Table** can be specified here.

Value Range

Max. 16 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Label Name

Specifies the name of each flexible button on the KX-NT366/KX-NT560 IP-PT. The name specified here is displayed on the LCD for each button.

Value Range

Max. 12 characters

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.31.4 Self Labelling (KX-NT366/KX-NT560)

◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)

Specifies the Time Table to be used for changing time modes in the Automatic Switching mode.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)

Specifies the ring tone type.

Value Range

KX-DT300 series (except KX-DT321)/KX-T7600 series (except KX-T7665)/IP-PT (except KX-NT265/KX-NT321): 1–30
KX-DT321/KX-T7665/KX-NT265/KX-NT321: 1–8 (Even if ring tone 9–30 is selected, ring tone 1 is heard.)
Other telephones: 1–8 (Even if ring tone 9–30 is selected, ring tone 2 is heard.)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)

Specifies the number of the parking zone a call is to be parked in when a Call Park button with ◆ **Parameter Selection (for Call Park)** on this screen set to **Specific** is pressed.

Value Range

0–99

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Ext No. of Mailbox (for Two-way Transfer)

Specifies the number of the extension whose mailbox will be used to record conversations using One-touch Two-way Transfer. (For example, a secretary can record a conversation into the mailbox of a boss.) If the cell is left empty, the extension user must specify the number of an extension each time.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

Display Option—Key Setting & Key Label Name

The Key Label Name function allows you to print out a key label template for flexible buttons, according to the telephone you are using. Click a flexible button to display a **Change—Flexible Button 01–84** screen and edit the button's settings.

◆ Type

This parameter is equivalent to **Type** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting—◆ Type

Feature Guide References

None

◆ Extension Number

This parameter is equivalent to **Extension Number** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting
→◆ Extension Number (for DSS)
→◆ Extension Number (for ICD Group)
→◆ Extension Number (for Message Waiting)
→◆ Extension Number (for Group Fwd (Both))
→◆ Extension Number (for Group Fwd (External))
→◆ Extension Number (for Group Fwd (Internal))
→◆ Extension Number (for Call Log)
→◆ Extension Number (for Log-in/Log-out)
→◆ Extension Number (for Hurry-up)
→◆ Extension Number (for Two-way Record)
→◆ Extension Number (for Two-way Transfer)
→◆ Extension Number (for Voice Mail Transfer)
→◆ Extension Number (for SDN)

Feature Guide References

None

◆ Dial

This parameter is equivalent to **Dial** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting
→◆ Dial (for One-touch)
→◆ Dial (for ISDN Service)
→◆ Dial (for NDSS)

Feature Guide References

None

◆ Parameter 1

This parameter is equivalent to **Parameter Selection** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting
→◆ Parameter Selection (for Single CO)
→◆ Parameter Selection (for Group CO)
→◆ Parameter Selection (for Call Park)
→◆ Parameter Selection (for Log-in/Log-out)
→◆ Parameter Selection (for Time Service)
→◆ Parameter Selection (for TRS Level Change)
→◆ Parameter Selection (for Time Service - Automatic/Manual)
→◆ Parameter Selection (for SDN)

Feature Guide References

None

◆ Parameter 2

This parameter is equivalent to **Optional Parameter (Ringing Tone Type Number)** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting
→◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)
→◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)
→◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)

Feature Guide References

None

◆ Mailbox Number

This parameter is equivalent to **Ext No. of Mailbox** on the **Key Setting** screen.

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting—◆ Ext No. of Mailbox (for Two-way Transfer)

Feature Guide References

None

◆ Label

Specifies the label that will be printed next to the corresponding button.

Value Range

Max. 20 characters

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Colour of Font

Specifies the colour used for the label text for the corresponding button. Click **Choose** to select a colour.

Value Range

Any colour

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Colour of Background

Specifies the colour used for the label background for the corresponding button. Click **Choose** to select a colour.

Value Range

Any colour

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Font Size

Specifies the size of the font on the label for the corresponding button.

Value Range

4–15

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

Telephone Type

◆ Telephone Type

Selects the type of telephone for which you want to print a key label template.

Value Range

T7633 / T7636
T7625 / T7630 / NT136
T7665 / NT265 / NT321
T7667 / APT
NT543 / NT546
NT343 / NT346 / DT346 / DT343 / DT333
NT343 / NT346 with 60CO

Other

Maintenance Console Location

6.5 [4-1-4] Wired Extension—Flexible Button

Programming Manual References

None

Feature Guide References

None

6.6 [4-1-4] Wired Extension—Flexible Button—Flexible button data copy

The flexible button settings (including key label settings) of an extension can be copied to different extensions.

◆ Destination Extension Line

Select the number and name of the extension that will receive the copied settings. Multiple extensions can be selected. To select all extensions at once, click **Select All**.
When selecting multiple extensions, note that if the source extension has an SDN button, the copy operation cannot be performed.

Maintenance Console Location

6.6 [4-1-4] Wired Extension—Flexible Button—Flexible button data copy

Programming Manual References

6.5 [4-1-4] Wired Extension—Flexible Button

Feature Guide References

None

6.7 [4-1-5] Wired Extension—PF Button

Each Programmable Feature (PF) button can be customised to access a certain feature with one touch. A maximum of 12 PF buttons can be customised for each extension. Select the desired extension from the **Extension Number / Name** list.

◆ Type

Specifies whether to store a dialling number for the one-touch access.

Value Range

Not Stored, One Touch

Maintenance Console Location

6.7 [4-1-5] Wired Extension—PF Button

Programming Manual References

None

Feature Guide References

1.20.2 Flexible Buttons

◆ Dial

Specifies the number to be dialled.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.7 [4-1-5] Wired Extension—PF Button

Programming Manual References

None

Feature Guide References

1.20.2 Flexible Buttons

6.8 [4-1-6] Wired Extension—NDSS Link Data - Send

It is possible to cancel the transmission of an extension's status data over the network. Select the desired extension from the **Extension Number / Name** list.

◆ Network BLF Data to NDSS Key of Other PBX - Other PBX (Network PBX ID=1)

Selects whether extension status data is transmitted over the network for the selected extension. This setting is automatically set to **ON** when the feature is used, and can only be manually changed from **ON** to **OFF**, to cancel data transmission.

Value Range

OFF, ON

Maintenance Console Location

6.8 [4-1-6] Wired Extension—NDSS Link Data - Send

Programming Manual References

11.1 [9-1] TIE Table

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

6.9 [4-1-7] Wired Extension—Simplified Voice Message

The built-in Simplified Voice Message feature can be provided for each extension.
This screen allows you to specify which extension uses this feature, and the maximum number of messages that can be stored for each extension.
For more information on Simplified Voice Message, see "1.17.7 Built-in Simplified Voice Message (SVM)" in the Feature Guide.

◆ Shelf

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

None

Feature Guide References

None

◆ Extension Number

Indicates the extension number (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

3.61 [1-2] Portable Station

Feature Guide References

None

◆ Extension Name

Indicates the name of the extension (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension Name

Feature Guide References

None

◆ Simplified Voice Message

Selects which card (MPR or ESVM) to use to store and play back greetings and messages for the extension. Each extension must be assigned to a specific card and block within the card, and can only use the assigned card/block. If two cards are used in the PBX, you should assign a number of extensions to each card, to ensure that the necessary resources, such as message recording space, are available for each extension.

Value Range

None, Card1(A), Card1(B), Card2(A), Card2(B)

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

None

Feature Guide References

None

◆ Maximum SVM Log

Specifies the maximum number of voice messages (not including greeting messages) that can be stored for the extension.

Value Range

1–100

Maintenance Console Location

6.9 [4-1-7] Wired Extension—Simplified Voice Message

Programming Manual References

None

Feature Guide References

None

6.10 [4-2-1] Portable Station—Extension Settings

For each Portable Station (PS), various extension settings can be assigned. A maximum of 64 (with the KX-NCP500/KX-NCP1000), 128 (with the KX-TDE100/KX-TDE200), or 512 (with the KX-TDE600) PSs can be programmed.
To copy the settings of an extension to another extension, click **Copy to**. The copied data includes FWD/DND and flexible button settings.
To assign a set of CLIP numbers automatically, click **CLIP Generate**. To assign names and tenants to extension user groups, click **Extension User Group Table**. See **5.7 [3-2] User Group** for more details.

Main

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Property

Indicates the property (reference only).

Value Range

Portable Station

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ User Group

Specifies the extension user group to which the PS belongs. The extension user group is used to compose tenants, call pickup groups and paging groups.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–32

For KX-TDE600:

1–96

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

2.2.2 Group
2.2.3 Tenant Service

◆ COS

Specifies the COS of the PS.

Value Range

1–64

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings

Feature Guide References

2.2.1 Class of Service (COS)

◆ Extension PIN

Specifies the PIN of the PS.

CAUTION

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.
The cost of such calls will be billed to the owner/renter of the PBX.
To protect the PBX from this kind of fraudulent use, we strongly recommend:

a. Keeping PINs secret.
b. Selecting complex, random PINs that cannot be easily guessed.
c. Changing PINs frequently.

Value Range

Max. 10 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

Intercept Destination

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night

Specifies the Intercept Routing destination of calls in each time mode for Intercept Routing–No Answer and Intercept Routing–DND.
Note that Intercept Routing–Busy calls are routed using ◆ **Intercept Destination—When Called Party is Busy** below.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.10 [4-2-1] Portable Station—Extension Settings—Intercept Destination—◆ Intercept Destination—When Called Party is Busy

Feature Guide References

1.1.1.6 Intercept Routing

◆ Intercept Destination—When Called Party is Busy

Specifies the Intercept Routing destination of calls when the extension is busy.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.1.1.6 Intercept Routing

Intercept No Answer Time

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Intercept No Answer Time—Day, Lunch, Break, Night

Specifies the length of time until an unanswered call is redirected to the intercept routing destination in each time mode.
When this setting is set to "0", the system timer is used.

Value Range

0–240 s

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Intercept Routing No Answer (IRNA)—Day, Lunch, Break, Night

Feature Guide References

1.1.1.6 Intercept Routing

ISDN CLIP

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ CLIP ID

Specifies the CLIP number sent to the public network to show on the called party's telephone display when making a trunk call.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ CLIP on Extension/CO

Selects the CLIP number to show on the called party's telephone.

Value Range

Extension: Show the CLIP number specified in ◆ **CLIP ID** on the **Option 1** tab.
CO: Show the CLIP number specified in ◆ **Subscriber Number** in **3.33 [1-1] Slot—Port Property - BRI Port** or **3.35 [1-1] Slot—Port Property - PRI Port**.

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ Subscriber Number
3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ Subscriber Number
6.10 [4-2-1] Portable Station—Extension Settings—ISDN CLIP—◆ CLIP ID

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ ARS Itemised Code/2nd CLIP (10 digits)

Specifies the itemised billing code or 2nd CLIP number used by the ARS feature for identifying the calls made from the PS for accounting and billing purposes.

Value Range

Max. 10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

10.6 [8-5] Carrier

Feature Guide References

1.9.6 Verification Code Entry
1.10.1 Automatic Route Selection (ARS)

◆ CLIR

Specifies whether to restrict the display of the CLIP number on the called party's telephone when making a public network trunk call.

Value Range

Disable, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ COLR

Specifies whether to restrict the display of the CLIP number of the PS on the caller's telephone display when answering a call.

Value Range

Disable, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

Option 1

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Ring Pattern Table

Specifies the Ring Tone Pattern Table to be used by the PS.

Value Range

1–8

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

4.15 [2-8-1] Ring Tone Patterns—Call from CO
4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone
4.17 [2-8-3] Ring Tone Patterns—Call from Others

Feature Guide References

1.1.3.2 Ring Tone Pattern Selection

◆ Automatic Recording

Specifies the floating extension number to use for the Automatic Recording feature to automatically record calls for the PS. The floating extension numbers and names displayed here are specified in **5.20 [3-7-2] VM(DPT) Group—Unit Settings**.

Value Range

None, Floating Extension No.

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

5.20 [3-7-2] VM(DPT) Group—Unit Settings—◆ Floating Extension No.

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

◆ Programmed Mailbox No.

Specifies the mailbox number of the PS's mailbox for Voice Processing Systems (VPS) with DTMF Integration, or specifies a mailbox number for the Automatic Recording feature.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.24.2 Voice Mail DTMF Integration

◆ Transfer Recall Destination

Specifies the transfer recall destination when an extension user transfers a call with the Call Transfer without Announcement feature and the transferred call is not answered within a certain time period.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.12.1 Call Transfer

Option 2

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Manual C. Waiting for Extension Call

Selects the method of receiving call waiting notification from other extensions.

Value Range

Off: No notification
BSS: Tone from the handset or built-in speaker

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.1.3.3 Call Waiting

◆ Automatic C. Waiting

Specifies whether to receive call waiting notification for a call from trunk, a doorphone call or a call via an incoming call distribution group.

Value Range
Off, On

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
None

Feature Guide References
1.1.3.3 Call Waiting

◆ Pickup Dial Set
Sets or cancels the Hot Line feature. The number specified in ◆ **Pickup Dial No.** on this screen is dialled automatically after going off-hook when the Hot Line feature is active.

Value Range
Off, On

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Hot Line (Pickup Dial) Start

Feature Guide References
1.6.1.7 Hot Line

◆ Pickup Dial No.
Specifies the number to be dialled automatically after going off-hook when the Hot Line feature is active.

Value Range
Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
None

Feature Guide References

1.6.1.7 Hot Line

Option 3

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Call Pickup Deny

Specifies whether calls can be picked up by other extensions.

Value Range

Disable: Allows other extension users to pick up calls to your PS
Enable: Prevents other extension users from picking up calls to your PS

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.4.1.3 Call Pickup

◆ Executive Override Deny

Specifies whether calls can be interrupted by other extensions.

Value Range

Disable: Allows other extension users to interrupt an existing call
Enable: Prevents other extension users from interrupting an existing call

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.8.2 Executive Busy Override

◆ Absent Message

Specifies the Personal Absent Message which, unlike the System Absent Message, can be customised for each PS.

Value Range

Max. 16 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.19.2 Absent Message

◆ Charge Limit

Specifies the maximum limit of call charges allowed for the PS. When this limit is reached, the PS cannot be used to make further trunk calls.
The number of decimal places that can be specified here depends on the value set in ◆ **Charge Options—Digits After Decimal Point** in **8.2 [6-2] Hotel & Charge**.

Value Range

0–9999999

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

8.2 [6-2] Hotel & Charge

Feature Guide References

1.9.2 Budget Management

Option 4

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Outgoing Preferred Line

Selects the line to be seized after going off-hook to make a call.

Value Range

No Line: No line is seized.
Idle: An idle trunk is seized automatically from the programmed trunk groups.
ICM/PDN: An extension line is seized, or, for a PDN extension, an idle PDN button is selected.
F-1–F-12: A trunk programmed for a flexible button (F-1–F-12) is seized. A flexible button customised as a Single-CO, Group-CO, Loop-CO, or ICD Group button must be selected.

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button

Feature Guide References

1.5.5.2 Line Preference—Outgoing

◆ Incoming Preferred Line

Selects the line on which an incoming call is answered after going off-hook.
Note that even if a specific PDN button is selected here, a call ringing at any PDN button on the extension will be answered when going off-hook.

Value Range

No Line: No line is selected. Select a line by pressing the desired Line Access button to answer a call.
Ringing Line: The longest ringing call is selected.
PDN: The call arriving at any PDN button is selected.
F-1–F-12: The call arriving at a flexible button (F-1–F-12) is selected. A flexible button customised as a Single-CO, Group-CO, Loop-CO, or ICD Group button must be selected.

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button

Feature Guide References

1.4.1.2 Line Preference—Incoming

◆ Call Waiting Tone Type

Selects the type of Call Waiting tone sent to the busy extension.

Value Range

CW Tone 1, CW Tone 2

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.8.5.2 Call Waiting Tone

◆ LCS Recording Mode

Specifies whether to continue or stop recording the message in the PS's mailbox when the PS user answers a call that was being monitored.

Value Range

Stop Record, Keep Record

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

Option 5

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Display Language

Selects the display language of the PS.

Value Range

Language1–Language5

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Incoming Call Display

Selects which caller information is shown on the first line of the PS's display.

Value Range

Caller ID Name, CO Line Name, DDI/DID Name

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Automatic LCD Switch when Start Talking

Enables the first line of the display to show the call duration automatically after answering a trunk call.

Value Range

Disable, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

Option 6

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Flexible Button Programming Mode

Specifies whether the PS user can modify all flexible buttons without limitation, or only the One-touch Dialling buttons. When the mode is set to **One-touch Dial**, there is no need to enter "2" before the number when customising a One-touch Dialling button.

Value Range

No Limitation, One-touch Dial

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.6.1.2 One-touch Dialling

◆ SVM Lock

Selects whether Simplified Voice Message Log information can be displayed at the extension or other extensions.

Value Range
Lock, Unlock

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References
1.17.7 Built-in Simplified Voice Message (SVM)

Option 7

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References
None

◆ Extension Name

Specifies the name of the PS.

Value Range
Max. 20 characters

Maintenance Console Location
6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References
3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Character Input Mode

Selects the character table to be used for entering characters.

Value Range

Table 1: Standard mode
Table 2: Option mode

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Flash Mode during CO Conversation

Selects the function of the FLASH/RECALL button during a trunk conversation.

Value Range

EFA, Terminate, Flash Recall

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.11.6 Flash/Recall/Terminate
1.11.7 External Feature Access (EFA)

◆ Incoming Call Log Memory

Specifies the number of incoming trunk calls that are retained in the PS's Incoming Call Log memory.

Value Range

0–100

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.18.2 Incoming Call Log

◆ Outgoing Call Log Memory

Specifies the number of telephone numbers dialled by the PS that are retained in the PS's Outgoing Call Log memory.

Value Range

1–100

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.6.1.4 Last Number Redial

◆ ISDN Bearer

Selects the ISDN bearer mode. When **Automatic** is selected, the bearer mode is set automatically depending on the type of the PS.

Value Range

Automatic, Speech, Audio

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.21.1.1 Integrated Services Digital Network (ISDN)—SUMMARY

Option 8

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ Group CW w/o Tone (Ring after Call)

Enables an incoming call to an incoming call distribution group to arrive at a previously busy extension at the moment that the extension goes on-hook for the previous call.

Value Range

Disable, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

None

◆ Wrap-up Timer

Specifies the length of time that must pass after completing a call before a PS will accept another call when logged in as a member of an Incoming Call Distribution Group.
This timer is used when "◆ **Options—Wrap-up Timer based on**" is set to "**Extension**" in **5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous**.

Value Range

0–3000 s

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Wrap-up Timer
5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Wrap-up Timer based on

Feature Guide References

1.2.2.7 Log-in/Log-out

Option 9

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ PDN Delayed Ringing

Specifies the delayed ringing setting for calls to a PDN extension (an extension with one or more PDN buttons).

Value Range

Immediate, 1 Ring, 2 Rings, 3 Rings, 4 Rings, 5 Rings, 6 Rings

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Built-in Communication Assistant

Specifies whether to enable or disable the Communication Assistant (CA) application for each extension.

Value Range

Disable, Basic Only, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)—Port Number—◆ Built-in Communication Assistant Server

Feature Guide References

1.32.3 CA (Communication Assistant)

FWD / DND Reference

Call Forwarding (FWD) and Do Not Disturb (DND) settings for each PS can be referred. FWD and DND settings can be programmed separately for each PS in **6.12 [4-2-2] Portable Station—FWD/DND**.

◆ Extension Number

Indicates the extension number of the PS (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension No.

Feature Guide References

None

◆ Extension Name

Specifies the name of the PS.

Value Range

Max. 20 characters

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name

Feature Guide References

None

◆ FWD No Answer Time

Specifies the length of time that an incoming call rings at the PS before the call is forwarded.

Value Range

0–120 s

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ Keep ring after FWD NA to CO

Specifies whether a PS continues to ring after forwarding an incoming call to an outside destination via FWD N/A or FWD Busy N/A.

Value Range

Disable, Enable

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Availability for FWD/DND Key (CO)

Indicates the current FWD status for incoming trunk calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ DND Availability for FWD/DND Key (CO)

Indicates the current DND status for incoming trunk calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

◆ FWD Mode for Call from CO

Indicates the forwarding type of incoming trunk calls (reference only).

Value Range

None, FWD All, FWD Busy, FWD N/A, FWD Busy N/A

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Destination for Call from CO

Indicates the forwarding destination of incoming trunk calls (reference only).

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Availability for FWD/DND Key (Extension)

Indicates the current FWD status for incoming intercom calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ DND Availability for FWD/DND Key (Extension)

Indicates the current DND status for incoming intercom calls (reference only).

Value Range

Off, On

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.3 Do Not Disturb (DND)

◆ FWD Mode for Call from Extension

Indicates the forwarding type of incoming intercom calls (reference only).

Value Range

None, FWD All, FWD Busy, FWD N/A, FWD Busy N/A

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

◆ FWD Destination for Call from Extension

Indicates the forwarding destination of incoming intercom calls (reference only).

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

6.10 [4-2-1] Portable Station—Extension Settings

Programming Manual References

6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References

1.3.1.2 Call Forwarding (FWD)

6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

CLIP Generate allows the CLIP numbers for a set of locations in series to be programmed together. Pre-assigned CLIP numbers for those locations will be overwritten.
If a number generated here is longer than 16 digits, the additional digits will be discarded.

◆ Location Entry—Beginning Entry Location (Ext. Number)

Specifies the extension number of the first location to be programmed.

Value Range

PS extension number

Maintenance Console Location

6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

Programming Manual References

6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Location Entry—Number to Generate

Specifies the number of locations to be programmed.
A CLIP number will only be assigned to programmed PS extensions, even if the number entered here is larger than the total number of PS extensions.

Value Range

1–total number of PS extensions

Maintenance Console Location

6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

Programming Manual References

6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Deleting Digits

Specifies the number of digits to be deleted from the start of an extension number when using it as part of the CLIP number.

Value Range
0–4

Maintenance Console Location
6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

Programming Manual References
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Head of ID
Specifies a prefix number to be applied to all generated CLIP numbers.

Value Range
Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location
6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

Programming Manual References
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

◆ Parameter—Tail of ID
Specifies a suffix number to be applied to all generated CLIP numbers.

Value Range
Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location
6.11 [4-2-1] Portable Station—Extension Settings—CLIP Generate

Programming Manual References
6.10 [4-2-1] Portable Station—Extension Settings

Feature Guide References

1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

6.12 [4-2-2] Portable Station—FWD/DND

For each PS, separate Call Forwarding (FWD) and Do Not Disturb (DND) settings can be programmed for incoming intercom and trunk calls. Select the desired PS from the **Extension Number / Name** list.
To copy FWD/DND values from one location to another, click **Copy to**.

◆ Forward / DND—For external calls

Specifies the FWD/DND setting for external calls.
If **Always (All)**, **Busy**, **No Answer**, or **Busy / No Answer** is selected, the FWD destination field can be set.

Value Range

Always (All), Busy, No Answer, Busy / No Answer, Do Not Disturb, Off

Maintenance Console Location

6.12 [4-2-2] Portable Station—FWD/DND

Programming Manual References

None

Feature Guide References

1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

◆ Forward / DND—For internal calls

Specifies the FWD/DND setting for internal calls.
If **Always (All)**, **Busy**, **No Answer**, or **Busy / No Answer** is selected, the FWD destination field can be set.
If **For both external calls and internal calls** is checked, this setting becomes unavailable, and the value set for external calls is applied to internal calls.

Value Range

Always (All), Busy, No Answer, Busy / No Answer, Do Not Disturb, Off

Maintenance Console Location

6.12 [4-2-2] Portable Station—FWD/DND

Programming Manual References

None

Feature Guide References

1.3.1.1 Call Forwarding (FWD)/Do Not Disturb (DND)—SUMMARY

6.13 [4-2-3] Portable Station—Flexible Button

Each flexible button can be customised to allow one-touch access to a certain feature. A maximum of 12 flexible buttons can be customised for each PS. Select the desired PS from the **Extension Number / Name** list.
To copy values from one location to another, click the **Copy to** button.
For more information on flexible buttons, see "1.20.2 Flexible Buttons" in the Feature Guide.

Display Option—Key Setting

◆ Type

Specifies the feature to be assigned to the flexible button.

Value Range

Not Stored, Loop CO, Single CO, Group CO, DSS, One-touch, ICD Group, Message Waiting, FWD/DND (Both), FWD/DND (External), FWD/DND (Internal), Group Fwd (Both), Group Fwd (External), Group Fwd (Internal), Account, Conference, Terminate, EFA, Charge, Call Park, Log-in/Log-out, Hurry-up, Wrap-up, Time Service, TRS Level Change, ISDN Service, CLIR, COLR, ISDN Hold, Time Service - Automatic/Manual, Two-way Record, Two-way Transfer, LCS, Voice Mail Transfer, NDSS, CTI, PDN, SDN

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.14 [4-2-3] Portable Station—Flexible Button—Flexible button data copy

Feature Guide References

None

◆ Parameter Selection (for Single CO)

Specifies the trunk to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–128

For KX-TDE600:

1–640

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Group CO)

Specifies the trunk group to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–64

For KX-TDE600:

1–96

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Call Park)

Specifies whether a call is parked in an idle parking zone automatically, or in a specific parking zone.

Value Range

Automatic, Specific

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Parameter Selection (for Log-in/Log-out)

Specifies which incoming call distribution groups that the PS belongs to are logged in to or logged out from.

Value Range

None: The incoming call distribution group is selected manually.

All: All incoming call distribution groups that the PS belongs to.
Incoming Group: A pre-specified incoming call distribution group

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Parameter Selection (for Time Service)

Selects which time modes are switched manually.

Value Range

All (Day/Night/Lunch/Break), Day/Night/Break, Day/Night/Lunch, Day/Night

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for TRS Level Change)

Specifies the TRS/Barring level to be used temporarily on a certain PS.

Value Range

1–7

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

1.9.4 Dial Tone Transfer

◆ Parameter Selection (for Time Service - Automatic/Manual)

Specifies the Time Table to be used when the Time Service Switching Mode is set to Automatic.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for SDN)

Specifies the delayed ringing setting for calls arriving at an SDN button.
The value specified here is only used when ◆ **System Wireless—SDN Delayed Ringing with LCD** on **4.18 [2-9] System Options** is set to "Enable".

Value Range

Immediate, 1 Ring, 2 Rings, 3 Rings, 4 Rings, 5 Rings, 6 Rings, No Ring

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

4.18 [2-9] System Options—Option 4—◆ System Wireless—SDN Delayed Ringing with LCD

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Extension Number (for DSS)

Specifies the number of an extension to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for ICD Group)

Specifies the floating extension number of an incoming call distribution group to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Message Waiting)

Specifies the number of an extension or floating extension number of an incoming call distribution group for which messages are checked. If this cell is left empty, the PS will check its own messages only.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Group Fwd (Both))

Specifies the floating extension number of an incoming call distribution group for which both intercom and trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (External))

Specifies the floating extension number of an incoming call distribution group for which trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (Internal))

Specifies the floating extension number of an incoming call distribution group for which intercom calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Log-in/Log-out)

Specifies the floating extension number of an incoming call distribution group to log-in to or log-out from.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Hurry-up)

Specifies the floating extension number of the incoming call distribution group whose longest waiting call will be redirected (Manual Queue Redirection).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature

◆ Extension Number (for Two-way Record)

Specifies the floating extension number of the VM (DPT) group containing the PS's mailbox.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Two-way Transfer)
Specifies the floating extension number of the VM (DPT) group containing the desired mailbox.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Voice Mail Transfer)
Specifies the floating extension number of the VM (DTMF/DPT) group containing the desired mailbox.

Value Range
Max. 8 digits (consisting of 0–9)

Maintenance Console Location
6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References
None

Feature Guide References

1.24.2 Voice Mail DTMF Integration
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for SDN)

Specifies the floating extension number of the corresponding (owner) extension for the SDN button. Note that the extension specified here must have a PDN button registered for the SDN button to function.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Extension Name

Indicates the name of the extension, when an extension number is specified (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

None

◆ Dial (for One-touch)

Specifies the number to be dialled. The PBX can have a maximum of 500 (with the KX-NCP500/ KX-NCP1000/KX-TDE100/KX-TDE200) or 1000 (with the KX-TDE600) One-touch Dialling buttons for PSs.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.6.1.2 One-touch Dialling

◆ Dial (for ISDN Service)

Specifies the number required to access the telephone company's ISDN service.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.21.1.12 ISDN Service Access by Keypad Protocol

◆ Dial (for NDSS)

Specifies the network extension number of the extension to be accessed using Network Direct Station Selection.
Note that only extension numbers that have been previously registered in **11.4 [9-4] NDSS Key Table** can be specified here.

Value Range

Max. 16 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Optional Parameter (or Ringing Tone Type Number) (for Time Service)

Specifies the Time Table to be used for changing time modes in the Automatic Switching mode.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Optional Parameter (or Ringing Tone Type Number) (for Call Park)

Specifies the number of the parking zone a call is to be parked in when a Call Park button with ◆ **Parameter Selection (for Call Park)** on this screen set to **Specific** is pressed.

Value Range

0–99

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Ext No. of Mailbox (for Two-way Transfer)

Specifies the number of the extension whose mailbox will be used to record conversations using One-touch Two-way Transfer. (For example, a secretary can record a conversation into the mailbox of a boss.) If the cell is left empty, the extension user must specify the number of an extension each time.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

None

Feature Guide References

1.24.3 Voice Mail DPT (Digital) Integration

Display Option—Key Setting & Key Label Name

◆ Type

This parameter is equivalent to **Type** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting—◆ Type

Feature Guide References

None

◆ Extension Number

This parameter is equivalent to **Extension Number** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting
→◆ Extension Number (for DSS)
→◆ Extension Number (for ICD Group)
→◆ Extension Number (for Message Waiting)
→◆ Extension Number (for Group Fwd (Both))
→◆ Extension Number (for Group Fwd (External))
→◆ Extension Number (for Group Fwd (Internal))
→◆ Extension Number (for Log-in/Log-out)
→◆ Extension Number (for Hurry-up)
→◆ Extension Number (for Two-way Record)
→◆ Extension Number (for Two-way Transfer)
→◆ Extension Number (for Voice Mail Transfer)
→◆ Extension Number (for SDN)

Feature Guide References

None

◆ Dial

This parameter is equivalent to **Dial** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting
→◆ Dial (for One-touch)
→◆ Dial (for ISDN Service)
→◆ Dial (for NDSS)

Feature Guide References

None

◆ Parameter 1

This parameter is equivalent to **Parameter Selection** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting
→◆ Parameter Selection (for Single CO)
→◆ Parameter Selection (for Group CO)
→◆ Parameter Selection (for Call Park)
→◆ Parameter Selection (for Log-in/Log-out)
→◆ Parameter Selection (for Time Service)
→◆ Parameter Selection (for TRS Level Change)
→◆ Parameter Selection (for Time Service - Automatic/Manual)
→◆ Parameter Selection (for SDN)

Feature Guide References

None

◆ Parameter 2

This parameter is equivalent to **Optional Parameter (or Ringing Tone Type Number)** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting
→◆ Optional Parameter (or Ringing Tone Type Number) (for Time Service)
→◆ Optional Parameter (or Ringing Tone Type Number) (for Call Park)

Feature Guide References

None

◆ Mailbox Number

This parameter is equivalent to **Ext No. of Mailbox** on the **Key Setting** screen.

Maintenance Console Location

6.13 [4-2-3] Portable Station—Flexible Button

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button—Display Option—Key Setting—◆ Ext No. of Mailbox (for Two-way Transfer)

Feature Guide References

None

6.14 [4-2-3] Portable Station—Flexible Button—Flexible button data copy

The flexible button settings of a PS can be copied to different PSs.

◆ Destination Extension Line

Select the number and name of the PS that will receive the copied settings. Multiple PSs can be selected. To select all PSs at once, click **Select All**.
When selecting multiple extensions, note that if the source extension has an SDN button, the copy operation cannot be performed.

Maintenance Console Location

6.14 [4-2-3] Portable Station—Flexible Button—Flexible button data copy

Programming Manual References

6.13 [4-2-3] Portable Station—Flexible Button

Feature Guide References

None

6.15 [4-2-4] Portable Station—NDSS Link Data - Send

It is possible to cancel the transmission of an extension's status data over the network. Select the desired extension from the **Extension Number / Name** list.

◆ Network BLF Data to NDSS Key of Other PBX - Other PBX (Network PBX ID=1)

Selects whether extension status data is transmitted over the network for the selected extension. This setting is automatically set to **ON** when the feature is used, and can only be manually changed from **ON** to **OFF**, to cancel data transmission.

Value Range

OFF, ON

Maintenance Console Location

6.15 [4-2-4] Portable Station—NDSS Link Data - Send

Programming Manual References

11.4 [9-4] NDSS Key Table

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

6.16 [4-2-5] Portable Station—Simplified Voice Message

The built-in Simplified Voice Message feature can be provided for each PS.
This screen allows you to specify which extension uses this feature, and the maximum number of messages that can be stored for each extension.
For more information on Simplified Voice Message, see "1.17.7 Built-in Simplified Voice Message (SVM)" in the Feature Guide.

◆ Extension Number

Indicates the extension number (reference only).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.16 [4-2-5] Portable Station—Simplified Voice Message

Programming Manual References

3.61 [1-2] Portable Station

Feature Guide References

None

◆ Extension Name

Indicates the name of the extension (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

6.16 [4-2-5] Portable Station—Simplified Voice Message

Programming Manual References

3.61 [1-2] Portable Station—◆ Extension Name
6.10 [4-2-1] Portable Station—Extension Settings—◆ Extension Name

Feature Guide References

None

◆ Simplified Voice Message

Selects which card (MPR or ESVM) to use to store and play back greetings and messages for the extension.

Each extension must be assigned to a specific card and block within the card, and can only use the assigned card/block. If two cards are used in the PBX, you should assign a number of extensions to each card, to ensure that the necessary resources, such as message recording space, are available for each extension.

Value Range

None, Card1(A), Card1(B), Card2(A), Card2(B)

Maintenance Console Location

6.16 [4-2-5] Portable Station—Simplified Voice Message

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ Maximum of SVM Log

Specifies the maximum number of voice messages (not including greeting messages) that can be stored for the extension.

Value Range

1–100

Maintenance Console Location

6.16 [4-2-5] Portable Station—Simplified Voice Message

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

6.17 [4-3] DSS Console

A DSS Console can be used in conjunction with a PT. A maximum of 8 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 64 (with the KX-TDE600) DSS Consoles can be programmed. The ◆ **DPT Type—Type** of the extension port that DSS Console is connected must be set to **DSS** in **3.24 [1-1] Slot—Port Property - Extension Port**.
Each flexible DSS button can be customised to access a certain feature. A maximum of 66 flexible DSS buttons can be customised for each DSS Console. The settings can then be printed out as a key label template and attached to your DSS Console for quick reference. Select the desired DSS Console from the **DSS Console No.** list.
To copy DSS Console setting values from one location to another, click the **Copy to** button.
To print the flexible DSS button settings or output them to a PDF file, click **Key Label Print**.
The key label settings related to display - Label, Colour of Font, Colour of Background, Font Size, and DSS Type - can be saved for future use. Select an action from the **Key Label File** drop-down list. Note that it is necessary to save these settings separately from system data.
For more information on flexible buttons, see "1.20.2 Flexible Buttons" in the Feature Guide.

◆ Pair Extension

Specifies the extension number of the PT to be used in pair with the DSS Console.
Note that if one or more SDN buttons have been set at the DSS Console, they must be deleted before this setting can be changed.

Value Range

None, Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

Display Option—Key Setting

◆ Type

Specifies the feature to be assigned to the flexible DSS button.

Value Range

Not Stored, Loop CO, Single CO, Group CO, DSS, One-touch, ICD Group, Message Waiting, FWD/DND (Both), FWD/DND (External), FWD/DND (Internal), Group Fwd (Both), Group Fwd (External), Group Fwd (Internal), Account, Conference, Terminate, EFA, Charge, Call Park, Call Log, Log-in/Log-out, Hurry-up, Wrap-up, System Alarm, Time Service, Answer, Release, TRS Level Change, ISDN Service, CLIR, COLR, ISDN Hold, Headset, Time Service - Automatic/Manual, Check In, Check Out, Cleaned Up, Two-way Record, Two-way Transfer, LCS, Voice Mail Transfer, NDSS, CTI, SDN

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.18 [4-3] DSS Console—DSS key data copy

Feature Guide References

1.20.2 Flexible Buttons

◆ Parameter Selection (for Single CO)

Specifies the trunk to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–128

For KX-TDE600:

1–640

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Group CO)

Specifies the trunk group to be accessed.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–64

For KX-TDE600:

1–96

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access

◆ Parameter Selection (for Call Park)

Specifies whether a call is parked in an idle parking zone automatically or in a specific parking zone.

Value Range

Automatic, Specific

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.13.2 Call Park

◆ Parameter Selection (for Log-in/Log-out)

Specifies which incoming call distribution groups that the paired extension belongs to are logged in to or logged out from.

Value Range

None: The incoming call distribution group is selected manually.
All: All incoming call distribution groups that the paired extension belongs to.
Incoming Group: A pre-specified incoming call distribution group

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out

◆ Parameter Selection (for Time Service)

Selects which time modes are switched manually.

Value Range

All (Day/Night/Lunch/Break), Day/Night/Break, Day/Night/Lunch, Day/Night

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for TRS Level Change)

Specifies the TRS/Barring level to be used temporarily on a certain extension.

Value Range

1–7

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)
1.9.4 Dial Tone Transfer

◆ Parameter Selection (for Time Service - Automatic/Manual)

Specifies the Time Table to be used when the Time Service Switching Mode is set to Automatic.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Parameter Selection (for SDN)

Specifies the delayed ringing setting for calls arriving at an SDN button.

Value Range

Immediate, 1 Ring, 2 Rings, 3 Rings, 4 Rings, 5 Rings, 6 Rings, No Ring

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

◆ Extension Number (for DSS)

Specifies the number of an extension to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for ICD Group)

Specifies the floating extension number of an incoming call distribution group to be accessed.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Message Waiting)

Specifies the number of an extension or floating extension number of an incoming call distribution group for which messages are checked. If this cell is left empty, the paired extension will check its own messages only.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Group Fwd (Both))

Specifies the floating extension number of an incoming call distribution group for which both intercom and trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (External))

Specifies the floating extension number of an incoming call distribution group for which trunk calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Group Fwd (Internal))

Specifies the floating extension number of an incoming call distribution group for which intercom calls are forwarded.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.3 Call Forwarding (FWD)/Do Not Disturb (DND) Features

◆ Extension Number (for Call Log)

Specifies the paired extension's number or the floating extension number of an incoming call distribution group for which call log information is displayed. If the cell is left empty, the paired extension will display its own call log information.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Log-in/Log-out)

Specifies the floating extension number of an incoming call distribution group to log-in to or log-out from.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Extension Number (for Hurry-up)

Specifies the floating extension number of the incoming call distribution group whose longest waiting call will be redirected (Manual Queue Redirection).

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.2.2.4 Queuing Feature

◆ Extension Number (for Two-way Record)

Specifies the floating extension number of the VM (DPT) group containing the paired extension's mailbox.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Two-way Transfer)
Specifies the floating extension number of the VM (DPT) group containing the desired mailbox.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for Voice Mail Transfer)
Specifies the floating extension number of the VM (DTMF/DPT) group containing the desired mailbox.

Value Range
Max. 8 digits (consisting of 0–9)

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References
None

Feature Guide References

1.24.2 Voice Mail DTMF Integration
1.24.3 Voice Mail DPT (Digital) Integration

◆ Extension Number (for SDN)

Specifies the floating extension number of the PDN extension corresponding to the SDN button.
Note that the extension specified here must have a PDN button registered for the SDN button to function.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.1.1.2 Direct In Line (DIL)

◆ Extension Name

Indicates the name of the extension, when an extension number is specified (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Dial (for One-touch)

Specifies the number to be dialled. The PBX can have a maximum of 2000 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 5000 (with the KX-TDE600) One-touch Dialling buttons for extensions and DSS Consoles.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.6.1.2 One-touch Dialling

◆ Dial (for ISDN Service)

Specifies the number required to access the telephone company's ISDN service.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.21.1.12 ISDN Service Access by Keypad Protocol

◆ Dial (for NDSS)

Specifies the network extension number of the extension to be accessed using Network Direct Station Selection.
Note that only extension numbers that have been previously registered in **11.4 [9-4] NDSS Key Table** can be specified here.

Value Range

Max. 16 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)

Specifies the Time Table to be used for changing time modes in the Automatic Switching mode.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

2.2.4 Time Service

◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)

Specifies the ring tone type.

Value Range

KX-DT300 series (except KX-DT321)/KX-T7600 series (except KX-T7665)/IP-PT (except KX-NT265/KX-NT321): 1–30
KX-DT321/KX-T7665/KX-NT265/KX-NT321: 1–8 (Even if ring tone 9–30 is selected, ring tone 1 is heard.)
Other telephones: 1–8 (Even if ring tone 9–30 is selected, ring tone 2 is heard.)

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)

Specifies the number of the parking zone a call is to be parked in when a Call Park button with ◆ **Parameter Selection (for Call Park)** on this screen set to **Specific** is pressed.

Value Range
0–99

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References
None

Feature Guide References
1.13.2 Call Park

◆ Ext No. of Mailbox (for Two-way Transfer)
Specifies the number of the extension whose mailbox will be used to record conversations using One-touch Two-way Transfer. (For example, a secretary can record a conversation into the mailbox of a boss.) If the cell is left empty, the extension user must specify the number of an extension each time.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References
None

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

Display Option—Key Setting & Key Label Name
The Key Label Name function allows you to print out a key label template for flexible DSS buttons, according to the DSS Console you are using. Click a flexible button to display a **Change—Flexible Button 01–66** screen and edit the button's settings.

◆ Type
This parameter is equivalent to **Type** on the **Key Setting** screen.

Maintenance Console Location
6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting—◆ Type

Feature Guide References

None

◆ Extension Number

This parameter is equivalent to **Extension Number** on the **Key Setting** screen.

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting
→◆ Extension Number (for DSS)
→◆ Extension Number (for ICD Group)
→◆ Extension Number (for Message Waiting)
→◆ Extension Number (for Group Fwd (Both))
→◆ Extension Number (for Group Fwd (External))
→◆ Extension Number (for Group Fwd (Internal))
→◆ Extension Number (for Call Log)
→◆ Extension Number (for Log-in/Log-out)
→◆ Extension Number (for Hurry-up)
→◆ Extension Number (for Two-way Record)
→◆ Extension Number (for Two-way Transfer)
→◆ Extension Number (for Voice Mail Transfer)
→◆ Extension Number (for SDN)

Feature Guide References

None

◆ Dial

This parameter is equivalent to **Dial** on the **Key Setting** screen.

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting
→◆ Dial (for One-touch)
→◆ Dial (for ISDN Service)
→◆ Dial (for NDSS)

Feature Guide References

None

◆ Parameter 1

This parameter is equivalent to **Parameter Selection** on the **Key Setting** screen.

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting
→◆ Parameter Selection (for Single CO)
→◆ Parameter Selection (for Group CO)
→◆ Parameter Selection (for Call Park)
→◆ Parameter Selection (for Log-in/Log-out)
→◆ Parameter Selection (for Time Service)
→◆ Parameter Selection (for TRS Level Change)
→◆ Parameter Selection (for Time Service - Automatic/Manual)
→◆ Parameter Selection (for SDN)

Feature Guide References

None

◆ Parameter 2

This parameter is equivalent to **Optional Parameter (Ringing Tone Type Number)** on the **Key Setting** screen.

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting
→◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)
→◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)
→◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)

Feature Guide References

None

◆ Mailbox Number

This parameter is equivalent to **Ext No. of Mailbox** on the **Key Setting** screen.

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

6.17 [4-3] DSS Console—Display Option—Key Setting—◆ Ext No. of Mailbox (for Two-way Transfer)

Feature Guide References

None

◆ Label

Specifies the label that will be printed next to the corresponding button.

Value Range

Max. 20 characters

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Colour of Font

Specifies the colour used for the label text for the corresponding button. Click **Choose** to select a colour.

Value Range

Any colour

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Colour of Background

Specifies the colour used for the label background for the corresponding button. Click **Choose** to select a colour.

Value Range

Any colour

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

◆ Font Size

Specifies the size of the font on the label for the corresponding button.

Value Range

4–15

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

DSS Type

◆ DSS Type

Selects the type of DSS Console for which you want to print a key label template.

Value Range

T7640, DT390, Other

Maintenance Console Location

6.17 [4-3] DSS Console

Programming Manual References

None

Feature Guide References

None

6.18 [4-3] DSS Console—DSS key data copy

The flexible DSS button settings (including key label settings) of a DSS Console can be copied to different DSS Consoles. Select the DSS Console that has the setting to copy to other DSS Consoles from the **DSS Console No./ Pair Extension** list, then click **Copy to**.

◆ Destination DSS Console

Select the number of the DSS Console and paired extension. Multiple DSS Consoles can be selected. To select all DSS Consoles at once, click **Select All**.
When selecting multiple extensions, note that if the source extension has an SDN button, the copy operation cannot be performed.

Maintenance Console Location

6.18 [4-3] DSS Console—DSS key data copy

Programming Manual References

6.17 [4-3] DSS Console

Feature Guide References

None

Section 7

[5] Optional Device

7.1 [5-1] Doorphone

The settings to establish doorphone calls can be programmed.
To assign destinations for doorphone calls easily, click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ Physical Location—Shelf (KX-TDE600 only)

Indicates the shelf to which the doorphone is connected (reference only).

Value Range

Shelf number

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call

◆ Physical Location—Slot

Indicates the slot to which the doorphone is connected (reference only).

Value Range

Slot and sub-slot number

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call

◆ Physical Location—Port

Indicates the port number to which the doorphone is connected (reference only).

Value Range

Port number

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call

◆ Name

Specifies the doorphone name.

Value Range

Max. 20 characters

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call

◆ Destination—Day, Lunch, Break, Night

Specifies the destination number of doorphone calls for each port in each time mode.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.17.1 Doorphone Call

◆ Tenant Number

Specifies the tenant number for the doorphone port in order to apply the Time Table (day/lunch/break/night).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.17.1 Doorphone Call
2.2.3 Tenant Service

◆ COS

Specifies the Class of Service (COS) number. COS programming determines the doorphone ports that are able to make trunk calls, and sets restrictions on intercom calls from certain extensions (Internal Call Block).

Value Range

1–64

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level—Day, Lunch, Break, Night
4.14 [2-7-3] Class of Service—Internal Call Block

Feature Guide References

1.1.2.2 Internal Call Block
1.17.1 Doorphone Call

◆ VM Trunk Group Number

Specifies the number of the VM trunk group sent to the VPS when the doorphone call destination is the floating extension number of a VM (DPT) group.
The VM trunk group number is used to allow the VPS to send the applicable greeting message to the caller.

Value Range

1–48

Maintenance Console Location

7.1 [5-1] Doorphone

Programming Manual References

None

Feature Guide References

1.17.1 Doorphone Call
1.24.3 Voice Mail DPT (Digital) Integration

7.2 [5-2] External Pager

Settings for external pagers (external speakers) can be specified.
Click **Extension List View** to view a list of all programmed extension numbers and types (see **2.5.8 Tool—Extension List View**).

Note

For KX-NCP series PBXs, only one pager is supported.

◆ "Page Number 1, Page Number 2—Floating Extension Number

Specifies the floating extension number of the external pager.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

7.2 [5-2] External Pager

Programming Manual References

None

Feature Guide References

1.16.1 Paging
1.17.3 Trunk Answer From Any Station (TAFAS)
1.17.4 Background Music (BGM)

◆ "Page Number 1, Page Number 2—Name

Specifies the name of the external pager.

Value Range

Max. 20 characters

Maintenance Console Location

7.2 [5-2] External Pager

Programming Manual References

None

Feature Guide References

1.16.1 Paging
1.17.3 Trunk Answer From Any Station (TAFAS)
1.17.4 Background Music (BGM)

7.3 [5-3-1] Voice Message—DISA System

Direct Inward System Access (DISA) enables outside callers to access specific PBX features as if the caller were using an SLT extension of the PBX.
For more information on DISA, see "1.17.6 Direct Inward System Access (DISA)" in the Feature Guide.

Option 1

◆ DISA Security—DISA Security Mode

Selects the DISA security mode to prevent unauthorised access to the PBX. In Trunk or All Security mode, the caller is required to override security by Walking COS or Verification Code Entry in order to enable the restricted feature temporarily.

Value Range

None: Intercom calls, TIE line calls, and trunk calls can be made.
Trunk: Intercom calls and TIE line calls without PBX code can be made. TIE line calls with PBX code and trunk calls are restricted.
All: All calls are restricted.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

1.9.5 Walking COS
1.9.6 Verification Code Entry

◆ DISA Security—Remote Walking COS through DISA without PIN (Activation Key Required)

Enables registered caller ID numbers to be automatically recognised as PBX extensions when calling through DISA, and to use the Walking COS features without entering a PIN.

Value Range

Disable, Enable (Get DISA)

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

◆ DISA Intercept—Intercept when destination through DISA sets DND

Selects how DISA calls are handled if the destination sets DND, and disables Idle Extension Hunting.

Value Range

Busy Tone, Enable, Busy Message

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

◆ DISA Intercept—Intercept when all DISA ports are busy

Selects how DISA calls are handled if all DISA ports are currently in use.

Value Range

to Operator, to AA-0, to AA-9, Disable (Busy Tone)

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

◆ DISA Intercept—Intercept when No Dial after DISA answers

Selects how DISA calls are handled if the caller does not select any option from the menu.

Value Range

to Operator, to AA-0, to AA-9, Disable (Reorder Tone)

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

◆ CO-CO with DISA—DISA to Public CO

Specifies whether the DISA port of the message card is released when a trunk-to-public trunk call using DISA is established. To enable this setting, "◆ **CO-CO with DISA—Fwd/Transfer to Public CO**" on this screen should be set to "**Enable**".
Setting this to "**Disable**" will free up DISA ports faster, but prevent DISA being used to detect the end of a call and disconnect the trunk quickly.

Value Range

Disable (Release DISA): The DISA port of the message card is released when a trunk-to-public trunk call using DISA is established.
Enable: DISA stays connected for the duration of the call, to allow detection of the end of the call.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System—Option 1—◆ CO-CO with DISA—Fwd/Transfer to Public CO

Feature Guide References

None

◆ CO-CO with DISA—DISA to Private Network

Specifies whether the DISA port of the message card is released when a trunk-to-private trunk call using DISA is established.
To enable this setting, "◆ **CO-CO with DISA—Fwd/Transfer to Private Network**" on this screen should be set to "**Enable**".
Setting this to "**Disable**" will free up DISA ports faster, but prevent DISA being used to detect the end of a call and disconnect the trunk quickly.

Value Range

Disable (Release DISA): The DISA port of the message card is released when a trunk-to-private trunk call using DISA is established.
Enable: DISA stays connected for the duration of the call, to allow detection of the end of the call.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System—Option 1—◆ CO-CO with DISA—Fwd/Transfer to Private Network

Feature Guide References

None

◆ CO-CO with DISA—Fwd/Transfer to Public CO

Enables trunk-to-public trunk calls to be established using DISA.

Value Range

Disable: Trunk-to-public trunk calls are established without using DISA.
Enable (Get DISA): Trunk-to-public trunk calls are established using DISA, and DISA can be used to detect the end of the call.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System—Option 1—◆ CO-CO with DISA—DISA to Public CO

Feature Guide References

None

◆ CO-CO with DISA—Fwd/Transfer to Private Network

Enables trunk-to-private trunk calls to be established using DISA.

Value Range

Disable: Trunk-to-private trunk calls are established without using DISA.
Enable (Get DISA): Trunk-to-private trunk calls are established using DISA, and DISA can be used to detect the end of the call.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

7.3 [5-3-1] Voice Message—DISA System—Option 1—◆ CO-CO with DISA—DISA to Private Network

Feature Guide References

None

◆ CO-CO with DISA—Transfer by DTMF "#" (Activation Key Required)

Specifies whether an outside party such as a cellular phone can transfer a trunk call by dialling "#" + extension (including TIE) number or outside party number.

Value Range

Disable: "#" is ignored if dialled.
Enable (as "Flash"): The current trunk call will be placed on hold, then transferred to the extension (including TIE) or outside party whose number is entered.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

1.17.6 Direct Inward System Access (DISA)

◆ CO-CO with DISA—Return to DISA Top Menu by DTMF "*"

Enables a trunk caller to return to the DISA top menu by pressing "✳" while hearing a ringback, reorder, or busy tone. If disabled, retrying the call is possible by pressing "✳".

Value Range

Disable, Enable

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

Option 2

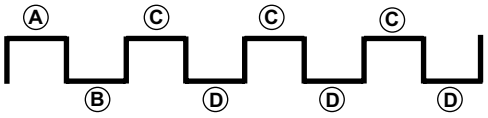
◆ DISA Cyclic Tone Detection

Selects the cyclic tone detection mode. Cyclic tone detection is used to determine the end of a call for a DISA trunk-to-trunk conversation established through an analogue trunk.
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the OPB3 card to "**OUS**", then "**INS**".

Value Range

Fixed: The number of times of a tone pattern (a set of tone-on and tone-off) that the PBX receives is fixed to 4 times in the ranges of:



Ⓐ,Ⓑ = 100–1300 ms, Ⓒ = Ⓐ±90 ms, Ⓓ = Ⓑ±90 ms
Option: The tone pattern that the PBX receives is optional as specified in **DISA Cyclic Tone Option** on this screen.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ DISA Cyclic Tone Option—Tone On Maximum Time

Specifies the maximum duration of the cyclic tone that will be recognised by the PBX. When the tone sent from the telephone company is shorter than the value set here, the PBX recognises it as a tone-on.
Note that this option can only be set when ◆ **DISA Cyclic Tone Detection** on this screen is set to "Option".
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the OPB3 card to "**OUS**", then "**INS**".

Value Range

10 × n (n=11–400) ms

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

3.1 [1-1] Slot
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ DISA Cyclic Tone Option—Tone Off Maximum Time

Specifies the maximum time that the PBX waits for a cyclic tone to be sent from the telephone company before recognising it as a tone-off. When no tone is detected within the time set here, the PBX recognises it as a tone-off.
Note that this option can only be set when ◆ **DISA Cyclic Tone Detection** on this screen is set to "Option".
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the OPB3 card to "**OUS**", then "**INS**"

Value Range

10 × n (n=11–400) ms

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

3.1 [1-1] Slot
3.58 [1-1] Slot—OPB3 Card Property

Feature Guide References

None

◆ DISA Cyclic Tone Option—Repeating Times of ON/OFF for Detection

Specifies the number of times the tone pattern (a set of tone-on and tone-off) must be received to establish reception of the cyclic tone. This determines the end of call.
Note that this option can only be set when ◆ **DISA Cyclic Tone Detection** on this screen is set to "Option".

Value Range

3–16

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

None

◆ Timed Reminder Message—Day, Lunch, Break, Night

Specifies the prerecorded message to play when a Timed Reminder call is answered in each time mode.

Value Range

None, 1–64

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References

1.28.4 Timed Reminder

◆ Recording Mode

Specifies the sound quality of messages recorded on the ESVM card when using it as an MSG card. Increasing the recording quality reduces the total length of recording time available on the card.
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the OPB3 card to "**OUS**", then "**INS**".

Value Range

Low: About 120 minutes of messages can be recorded per card.
Middle: About 60 minutes of messages can be recorded per card.
High: About 20 minutes of messages can be recorded per card.

Maintenance Console Location

7.3 [5-3-1] Voice Message—DISA System

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

7.4 [5-3-2] Voice Message—DISA Message

Outgoing messages (OGM) for DISA calls can be specified. A maximum of 64 OGMs can be programmed. To view a list of all programmed extension numbers and types, click **Extension List View** (see **2.5.8 Tool—Extension List View**). To assign AA destinations easily, click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ Floating Extension Number

Specifies the floating extension number of the OGM.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

7.4 [5-3-2] Voice Message—DISA Message

Programming Manual References

None

Feature Guide References

1.17.5 Outgoing Message (OGM)
1.17.6 Direct Inward System Access (DISA)

◆ Name

Specifies the name of the OGM.

Value Range

Max. 20 characters

Maintenance Console Location

7.4 [5-3-2] Voice Message—DISA Message

Programming Manual References

None

Feature Guide References

1.17.5 Outgoing Message (OGM)
1.17.6 Direct Inward System Access (DISA)

◆ 1 Digit AA Destination (Extension Number)—Dial 0–9

Specifies the destination for each DISA Automated Attendant (AA) number. After listening to an OGM, the caller can be directed to the destination by dialling a 1-digit DISA AA number.

Value Range
Max. 5 digits (consisting of 0–9, *, and #)

Maintenance Console Location
7.4 [5-3-2] Voice Message—DISA Message

Programming Manual References
None

Feature Guide References
1.17.5 Outgoing Message (OGM)
1.17.6 Direct Inward System Access (DISA)

◆ Busy / DND Message No.
Selects the OGM to be played for the caller when the destination party is busy or sets DND.

Value Range
None, 1–64

Maintenance Console Location
7.4 [5-3-2] Voice Message—DISA Message

Programming Manual References
7.3 [5-3-1] Voice Message—DISA System

Feature Guide References
1.17.6 Direct Inward System Access (DISA)

◆ Fax Extension
Specifies the extension number to which to transfer a call when a fax signal is detected.

Value Range
Max. 5 digits (consisting of 0–9)

Maintenance Console Location
7.4 [5-3-2] Voice Message—DISA Message

Programming Manual References
None

Feature Guide References

1.17.8 Automatic Fax Transfer

7.5 [5-3-3] Voice Message—SVM

Settings related to Built-in Simplified Voice Message feature can be specified. This feature can be accessed via the MPR card or ESVM card.

◆ SVM Card No.1, 2—Slot Number

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM Card No.1, 2—Floating Extension Number

Specifies the floating extension number used to access the SVM feature.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM Card No.1, 2—Card Name

Specifies the name of the card, for programming reference.

Value Range

Max. 20 characters

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ Recording Mode

Specifies the sound quality of messages recorded by the SVM feature. Increasing the recording quality reduces the total length of recording time available with this feature.

Value Range

Low: About 120 minutes of messages can be recorded.
Middle: About 60 minutes of messages can be recorded.
High: About 40 minutes (MPR)/20 minutes (ESVM) of messages can be recorded.

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

6.9 [4-1-7] Wired Extension—Simplified Voice Message
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ Remote Access

Selects whether the Walking COS feature can be used while listening to a greeting message from the SVM feature. Using Walking COS, a user can access his or her message box remotely.

Value Range

Disable, Enable

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

6.9 [4-1-7] Wired Extension—Simplified Voice Message
6.16 [4-2-5] Portable Station—Simplified Voice Message

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

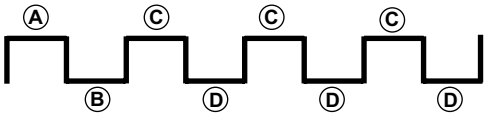
◆ SVM Cyclic Tone Detection

Selects the cyclic tone detection mode. Cyclic tone detection is used to determine the end of a call when an extension user records a greeting message or callers leave voice messages in a message box.
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the MPR card or OPB3 card to "**OUS**", then "**INS**". See **3.5 [1-1] Slot—OPB3 Card Property** or **3.58 [1-1] Slot—OPB3 Card Property**.

Value Range

Fixed: The number of times of a tone pattern (a set of tone-on and tone-off) that the PBX receives is fixed to 4 times in the ranges of:



Ⓐ,Ⓑ = 100–1300 ms, Ⓒ = Ⓐ±90 ms, Ⓓ = Ⓑ±90 ms
Option: The tone pattern that the PBX receives is optional as specified in **SVM Cyclic Tone Option** on this screen.

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM Cyclic Tone Option—Tone On Maximum Time

Specifies the maximum duration of the cyclic tone that will be recognised by the PBX. When the tone sent from the telephone company is shorter than the value set here, the PBX recognises it as a tone-on.
Note that this option can only be set when ◆ **SVM Cyclic Tone Detection** on this screen is set to "Option".
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the MPR card or OPB3 card to "**OUS**", then "**INS**". See **3.5 [1-1] Slot—OPB3 Card Property** or **3.58 [1-1] Slot—OPB3 Card Property**.

Value Range

20 × n (n=6–200) ms

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM Cyclic Tone Option—Tone Off Maximum Time

Specifies the maximum time that the PBX waits for a cyclic tone to be sent from the telephone company before recognising it as a tone-off. When no tone is detected within the time set here, the PBX recognises it as a tone-off.
Note that this option can only be set when ◆ SVM Cyclic Tone Detection on this screen is set to "Option".
To apply changes to this setting, follow the steps below:

1. Change this setting.
2. Set the status of the MPR card or OPB3 card to "**OUS**", then "**INS**". See **3.5 [1-1] Slot—OPB3 Card Property** or **3.58 [1-1] Slot—OPB3 Card Property**.

Value Range

20 × n (n=6–200) ms

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

◆ SVM Cyclic Tone Option—Repeating Times of ON/OFF for Detection

Specifies the number of times the tone pattern (a set of tone-on and tone-off) must be received to establish reception of the cyclic tone. This determines the end of call.
Note that this option can only be set when ◆ **SVM Cyclic Tone Detection** on this screen is set to "Option".

Value Range

3–16

Maintenance Console Location

7.5 [5-3-3] Voice Message—SVM

Programming Manual References

None

Feature Guide References

1.17.7 Built-in Simplified Voice Message (SVM)

7.6 [5-4] External Relay

Settings related to external relays can be programmed.

◆ External Relay No.

Indicates the number of the external relay (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–16

For KX-TDE600:

1–64

Maintenance Console Location

7.6 [5-4] External Relay

Programming Manual References

None

Feature Guide References

1.17.10 External Relay Control

◆ Physical Location—Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

7.6 [5-4] External Relay

Programming Manual References

None

Feature Guide References

1.17.10 External Relay Control

◆ Physical Location—Slot

Indicates the slot position (reference only).

Value Range
Slot and sub-slot number

Maintenance Console Location
7.6 [5-4] External Relay

Programming Manual References
None

Feature Guide References
1.17.10 External Relay Control

◆ Physical Location—Port
Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
7.6 [5-4] External Relay

Programming Manual References
None

Feature Guide References
1.17.10 External Relay Control

◆ Name
Specifies the relay name.

Value Range
Max. 20 characters

Maintenance Console Location
7.6 [5-4] External Relay

Programming Manual References
None

Feature Guide References

1.17.10 External Relay Control

◆ Relay Activate Time

Specifies the length of time that the relay stays on when activated.

Value Range

1–7 s

Maintenance Console Location

7.6 [5-4] External Relay

Programming Manual References

None

Feature Guide References

1.17.10 External Relay Control

◆ COS Number

Specifies the Class of Service (COS) number. COS programming determines the extensions that are able to activate relays.

Value Range

1–64

Maintenance Console Location

7.6 [5-4] External Relay

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ External Relay Access

Feature Guide References

1.1.2.2 Internal Call Block
1.17.10 External Relay Control

7.7 [5-5] External Sensor

Settings related to external sensors can be programmed.
To assign destinations for sensor calls easily, click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ External Sensor No.

Indicates the number of the external sensor (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–16

For KX-TDE600:

1–64

Maintenance Console Location

7.7 [5-5] External Sensor

Programming Manual References

None

Feature Guide References

1.17.9 External Sensor

◆ Physical Location—Shelf (KX-TDE600 only)

Indicates the shelf position (reference only).

Value Range

Shelf number

Maintenance Console Location

7.7 [5-5] External Sensor

Programming Manual References

None

Feature Guide References

1.17.9 External Sensor

◆ Physical Location—Slot

Indicates the slot position (reference only).

Value Range
Slot and sub-slot number

Maintenance Console Location
7.7 [5-5] External Sensor

Programming Manual References
None

Feature Guide References
1.17.9 External Sensor

◆ Physical Location—Port
Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
7.7 [5-5] External Sensor

Programming Manual References
None

Feature Guide References
1.17.9 External Sensor

◆ Name
Specifies the sensor name.

Value Range
Max. 20 characters

Maintenance Console Location
7.7 [5-5] External Sensor

Programming Manual References
None

Feature Guide References

1.17.9 External Sensor

◆ Destination—Day, Lunch, Break, Night

Specifies the destination number of sensor calls for each port in each time mode.

Value Range

Max. 32 digits (consisting of 0–9, *, #, [ ] [Secret], and P [Pause])

Maintenance Console Location

7.7 [5-5] External Sensor

Programming Manual References

None

Feature Guide References

1.17.9 External Sensor

◆ Tenant No.

Specifies the tenant to which the sensor belongs, to determine the Time Table for the sensor. (The tenant number corresponds to the Time Table number.)

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

7.7 [5-5] External Sensor

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.17.9 External Sensor
2.2.3 Tenant Service

Section 8

[6] Feature

8.1 [6-1] System Speed Dial

The System Speed Dialling Table is used to store frequently dialled numbers as well as callers who should be automatically routed to certain extensions when they call (Calling Line Identification [CLI] distribution). The System Speed Dialling Table is available for all extension users when making or receiving a call.
A maximum of 1000 System Speed Dialling numbers (e.g., telephone numbers, feature numbers) can be programmed with other related parameters. 100 numbers are displayed at a time. To display other sets of numbers, click the applicable tab.

◆ Memory

Selects the System Speed Dialling Table to be programmed. Whether a tenant uses the basic System Speed Dialling Table or the additional table depends on the setting of ◆ **System Speed Dial** in **8.6 [6-6] Tenant**.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Basic Memory: the standard table
Expansion for Tenant 1–8: additional tables

For KX-TDE600:

Basic Memory: the standard table
Expansion for Tenant 1–32: additional tables

Maintenance Console Location

8.1 [6-1] System Speed Dial

Programming Manual References

8.6 [6-6] Tenant—◆ System Speed Dial

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System
1.18.1 Caller ID
2.2.3 Tenant Service

◆ Name

Specifies a name for the System Speed Dialling number.

Value Range

Max. 20 characters

Maintenance Console Location

8.1 [6-1] System Speed Dial

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System
1.18.1 Caller ID

◆ CO Line Access Number + Telephone Number

Specifies the telephone number (including the Trunk Access number) or feature number assigned to the System Speed Dialling number.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], [ ] [Secret], P [Pause], and F [Flash])

Maintenance Console Location

8.1 [6-1] System Speed Dial

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System
1.18.1 Caller ID

◆ CLI Destination

Specifies the CLI destination (extension) to which incoming calls from the programmed telephone number are routed. If a Caller ID Modification Table is being used, the modified number must match the telephone number above (**CO Line Access Number + Telephone Number**) in order for the call to be routed correctly.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

8.1 [6-1] System Speed Dial

Programming Manual References

12.2 [10-2] DIL Table & Port Settings—CLI for DIL—◆ CLI Ring for DIL—Day, Lunch, Break, Night
12.3 [10-3] DDI / DID Table—◆ CLI Ring for DDI/DID—Day, Lunch, Break, Night

Feature Guide References

1.1.1.5 Calling Line Identification (CLI) Distribution
1.18.1 Caller ID

8.2 [6-2] Hotel & Charge

Various settings related to the hospitality features of the PBX can be set.

Main

◆ Hotel Operator—Extension 1–4

Specifies the numbers of the extensions designated as hotel operators.

Value Range

100–699

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.1 Hospitality Features—SUMMARY
1.27.2 Room Status Control

◆ SMDR for External Hotel Application 1—Room Status Control

Selects whether check-in and check-out data is output on SMDR.

Value Range

No Print, Print

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

13.1 [11-1] Main

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
1.27.2 Room Status Control

◆ SMDR for External Hotel Application 1—Timed Reminder (Wake-up Call)

Selects whether Timed Reminder data is output on SMDR.

Value Range

No Print, Print

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

13.1 [11-1] Main

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
1.28.4 Timed Reminder

◆ SMDR for External Hotel Application 2—Printing Message 1–8

Specifies the text of the message output on SMDR when this Printing Message is selected from an extension. The "%" character can be used in a message, and requires a number to be entered in its place when the message is selected from an extension. This character can be used a maximum of seven times in a Printing Message.

Value Range

Max. 16 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

13.1 [11-1] Main

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
1.26.2 Printing Message

Bill

◆ Checkout Billing—Billing for Guest

Activates call billing features for the PBX.

Value Range

OFF, ON

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/IPCEMPR (for KX-TDE600)

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—LCD for "Telephone"

Specifies the name of charge item 1 as shown on the display of the hotel operator extension when entering room charges.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—LCD for "Minibar"

Specifies the name of charge item 2 as shown on the display of the hotel operator extension when entering room charges.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—LCD for "Others"

Specifies the name of charge item 3 as shown on the display of the hotel operator extension when entering room charges.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—Bill (SMDR) for "Telephone"

Specifies the name of charge item 1 as printed on the guest bill.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—Bill (SMDR) for "Minibar"

Specifies the name of charge item 2 as printed on the guest bill.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Checkout Billing—Bill (SMDR) for "Others"

Specifies the name of charge item 3 as printed on the guest bill.

Value Range

Max. 12 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ SMDR for External Hotel Application—Language for Bill (SMDR)

Specifies the language used for standard items shown on guest bills printed out using the Call Billing feature.

Value Range

Language 1–Language 5

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ SMDR for External Hotel Application—Header 1–3

Specifies the text printed at the top of the guest bill.

Value Range

Max. 80 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ SMDR for External Hotel Application—Footer 1–3

Specifies the text printed at the bottom of the guest bill.

Value Range

Max. 80 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

Charge

◆ Margin & Tax—Margin Rate for "Telephone" (%)

Specifies the percentage margin to be added to telephone charges displayed on the guest bill.

Value Range

0.00–99.99 %

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.26.3 Call Charge Services
1.27.3 Call Billing for Guest Room

◆ Margin & Tax—Tax Rate for "Telephone" (%)

Specifies the percentage tax rate to be used when calculating guest telephone charges.

Value Range

0.00–99.99 %

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Margin & Tax—Tax Rate for "Minibar" (%)

Specifies the percentage tax rate to be used when calculating guest charges for charge item 2.

Value Range

0.00–99.99 %

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Margin & Tax—Tax Rate for "Others" (%)

Specifies the percentage tax rate to be used when calculating guest charges for charge item 3.

Value Range

0.00–99.99 %

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

None

Feature Guide References

1.27.3 Call Billing for Guest Room

◆ Charge Options—Digits After Decimal Point

Specifies the number of digits to display after the decimal point for the currency in use.

Value Range

0–6

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit
8.3 [6-3] Verification Code—◆ Budget Management

Feature Guide References

1.20.4 Display Information
1.26.3 Call Charge Services
1.27.3 Call Billing for Guest Room

◆ Charge Options—Currency

Specifies the currency characters shown on the display of the extension and the SMDR.

Value Range

Max. 3 characters

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit
8.3 [6-3] Verification Code—◆ Budget Management

Feature Guide References

1.20.4 Display Information
1.26.1.1 Station Message Detail Recording (SMDR)
1.26.3 Call Charge Services
1.27.3 Call Billing for Guest Room

◆ Charge Options—Currency Display Position

Specifies whether the currency characters are displayed before or after the call charge.

Value Range

Head, Tail

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit
8.3 [6-3] Verification Code—◆ Budget Management

Feature Guide References

1.26.3 Call Charge Services

◆ Charge Options—Action at Charge Limit

Selects what happens when the amount of the call charge reaches the preprogrammed limit during a conversation.

Value Range

Alarm: Only a warning tone is heard.
Alarm + Disconnect: A warning tone is heard, and then the call is disconnected.

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit

Feature Guide References

1.9.2 Budget Management

◆ Charge Options—Meter Start on Answer Detection

Enables the PBX to start counting the call charge when the answer signal from the telephone company is detected.

Value Range

Disable, Enable

Maintenance Console Location

8.2 [6-2] Hotel & Charge

Programming Manual References

6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit

Feature Guide References

1.26.3 Call Charge Services

8.3 [6-3] Verification Code

A verification code is used to override the Toll Restriction (TRS)/Call Barring (Barring) of the extension in use to make a certain trunk call, or to identify the call for accounting and billing purposes.
A maximum of 1000 verification codes can be programmed with other related parameters. 100 codes are displayed at a time. To display other sets of codes, click the applicable tab.

◆ Verification Code

Specifies the verification code.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

None

Feature Guide References

1.9.6 Verification Code Entry

◆ User Name

Specifies the user name assigned to the verification code.

Value Range

Max. 20 characters

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

None

Feature Guide References

1.9.6 Verification Code Entry

◆ Verification Code PIN

Specifies the PIN to be entered when making a trunk call with the verification code.

CAUTION

There is a risk that fraudulent telephone calls will be made if a third party discovers a personal identification number (PIN) (verification code PIN or extension PIN) of the PBX.

The cost of such calls will be billed to the owner/renter of the PBX.
To protect the PBX from this kind of fraudulent use, we strongly recommend:

a. Keeping PINs secret.
b. Selecting complex, random PINs that cannot be easily guessed.
c. Changing PINs frequently.

Value Range

Max. 10 digits (consisting of 0–9)

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

None

Feature Guide References

1.9.6 Verification Code Entry

◆ COS Number

Specifies the COS that applies when making a trunk call with the verification code.

Value Range

1–64

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings

Feature Guide References

1.9.6 Verification Code Entry
2.2.1 Class of Service (COS)

◆ Itemised Billing Code for ARS

Specifies the itemised billing code used by the ARS feature for identifying calls made with a verification code for accounting and billing purposes.

Value Range

Max. 10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

10.6 [8-5] Carrier

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Budget Management

Specifies the limit of the call charge that will be counted on the verification code.
The number of decimal places that can be specified here depends on the value set in ◆ **Charge Options—Digits After Decimal Point** in **8.2 [6-2] Hotel & Charge**.

Value Range

0–9999999

Maintenance Console Location

8.3 [6-3] Verification Code

Programming Manual References

None

Feature Guide References

1.9.2 Budget Management

8.4 [6-4] Second Dial Tone

A programmed Pause time can be inserted automatically between the Second Dial Tone Waiting code and the following digits. When a programmed Second Dial Tone Waiting code is dialled after seizing a trunk, a preprogrammed number of pauses are inserted after the code.
A maximum of 100 Second Dial Tone Waiting codes can be programmed. 20 codes are displayed at a time. To display other sets of codes, click the applicable tab.

◆ Second Dial Tone Waiting Code

Specifies the Second Dial Tone Waiting code.

Value Range

Max. 4 digits (consisting of 0–9, *, and #)

Maintenance Console Location

8.4 [6-4] Second Dial Tone

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion

◆ Pause Repeating Counter

Specifies the number of pauses to be inserted when waiting for the second dial tone.

Value Range

0–20

Maintenance Console Location

8.4 [6-4] Second Dial Tone

Programming Manual References

None

Feature Guide References

1.5.4.7 Pause Insertion

8.5 [6-5] Absent Message

When a display PT user calls an extension, a message is shown on the caller's telephone display describing the reason for absence. A maximum of 8 Absent Messages can be programmed, and any extension user can select one of them.

◆ Absent Message

Specifies the message for display.

Value Range

Max. 16 characters

Maintenance Console Location

8.5 [6-5] Absent Message

Programming Manual References

None

Feature Guide References

1.19.2 Absent Message

8.6 [6-6] Tenant

A maximum of 8 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 32 (with the KX-TDE600) tenants can share the PBX. Each tenant is composed of specified extension user groups. The PBX offers each tenant its own Time Table and system resources.
To assign extensions as operators easily, click **Extension No. Setting** (see **2.1.6 Extension Number Setting**).

◆ Music On Hold

Specifies the audio source to be used for Music on Hold.

Value Range

For KX-NCP series:

Same as System Setting, BGM, BGM2, BGM3, BGM4, BGM5, BGM6, BGM7, Tone

For KX-TDE series:

Same as System Setting, BGM, BGM2, BGM3, BGM4, BGM5, BGM6, BGM7, BGM8, Tone

Maintenance Console Location

8.6 [6-6] Tenant

Programming Manual References

4.4 [2-2] Operator & BGM

Feature Guide References

1.13.4 Music on Hold
2.2.3 Tenant Service

◆ Operator (Extension Number)

Specifies the extension number or the floating extension number of an incoming call distribution group to be designated as the tenant operator. When this parameter is left unspecified, the PBX operator serves as the tenant operator.

Value Range

100–699

Maintenance Console Location

8.6 [6-6] Tenant

Programming Manual References

4.4 [2-2] Operator & BGM

Feature Guide References

2.2.3 Tenant Service

2.2.5 Operator Features

◆ ARS Mode

Specifies the ARS mode used when making a trunk call.

Value Range

Off: ARS is disabled.
On for Local Access Operation: ARS operates when an extension user makes a call using any Idle Line Access method.
On for Any CO Access Operation: ARS operates when an extension user makes a call using any Trunk Access method.
Same as System Setting: The setting specified in ◆ **ARS Mode** in **10.1 [8-1] System Setting** is applied.

Maintenance Console Location

8.6 [6-6] Tenant

Programming Manual References

10.1 [8-1] System Setting

Feature Guide References

1.10.1 Automatic Route Selection (ARS)
2.2.3 Tenant Service

◆ System Speed Dial

Specifies which system speed dialling table is used by the tenant.

Value Range

Same as System Setting: PBX common system speed dialling numbers are used.
Tenant Exclusive: Individual tenant system speed dialling numbers are used.

Maintenance Console Location

8.6 [6-6] Tenant

Programming Manual References

8.1 [6-1] System Speed Dial

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System
2.2.3 Tenant Service

◆ Extension Directory

You can specify whether Personal Speed Dial can be referenced by all tenants or only by each tenant.

Value Range

All Tenant: Personal Speed Dial can be referenced by all tenants.
Each Tenant: Personal Speed Dial can be referenced only by each tenant.

Maintenance Console Location

8.6 [6-6] Tenant

Programming Manual References

None

Feature Guide References

1.6.1.5 Speed Dialling—Personal/System
2.2.3 Tenant Service

Section 9

[7] TRS

9.1 [7-1] Denied Code

Toll Restriction (TRS)/Call Barring (Barring) prohibits an extension from making certain trunk calls. Each time mode of every COS is assigned one of the seven TRS/Barring levels. TRS/Barring level 7 provides the maximum restriction (all trunk calls are prohibited) and level 1 provides the minimum (all trunk calls are allowed). TRS/Barring levels 2–6 are used to restrict calls according to the combination of **Denied Code Tables** here and **Exception Code Tables** in **9.2 [7-2] Exception Code**. If the leading digits of the dialled number are not found in the applicable Denied Code Tables, the call is made.
A maximum of 100 denied codes can be programmed for each level. 20 codes are displayed at a time. To display other sets of codes, click the applicable tab.

◆ Denied Code Tables—Level 2–Level 6

Specifies the leading digits of toll restricted numbers for each level.

Value Range

Max. 16 digits (consisting of 0-9, *, #, and X)

Maintenance Console Location

9.1 [7-1] Denied Code

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level—Day, Lunch, Break, Night
9.2 [7-2] Exception Code

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

9.2 [7-2] Exception Code

Toll Restriction (TRS)/Call Barring (Barring) prohibits an extension from making certain trunk calls. Each time mode of every COS is assigned one of the seven TRS/Barring levels. TRS/Barring level 7 provides the maximum restriction (all trunk calls are prohibited) and level 1 provides the minimum (all trunk calls are allowed). TRS/Barring levels 2–6 are used to restrict calls according to the combination of **Denied Code Tables** in **9.1 [7-1] Denied Code** and **Exception Code Tables** here. A call denied by the applicable Denied Code Tables is checked against the applicable Exception Code Tables, and if a match is found, the call is made.
A maximum of 100 exception codes can be programmed for each level. 20 codes are displayed at a time. To display other sets of codes, click the applicable tab.

◆ Exception Code Tables—Level 2–Level 6

Specifies the leading digits of the numbers to be exempted from toll restriction/call barring for each level.

Value Range

Max. 16 digits (consisting of 0-9, *, #, and X)

Maintenance Console Location

9.2 [7-2] Exception Code

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level—Day, Lunch, Break, Night
9.1 [7-1] Denied Code

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

9.3 [7-3] Special Carrier

If the PBX has access to multiple telephone companies, a Special Carrier Access Code is required each time a trunk call is made. By programming these Special Carrier Access Codes here, Toll Restriction (TRS)/Call Barring (Barring) can restrict or allow calls to be made by ignoring the codes and looking at the telephone number only. If a Special Carrier Access Code is found in the dialled number, TRS/Barring will look only at the following digits.
A maximum of 20 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 100 (with the KX-TDE600) Special Carrier Access Codes can be programmed. With the KX-TDE600, 20 codes are displayed at a time. To show other sets of codes, click the applicable tab.

◆ Special Carrier Access Code

Specifies a Special Carrier Access Code. Special Carrier Access Codes and Host PBX Access codes should be unique.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

9.3 [7-3] Special Carrier

Programming Manual References

None

Feature Guide References

1.5.4.9 Special Carrier Access Code
1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

9.4 [7-4] Emergency Dial

Any extension user can dial the programmed emergency numbers at any time after seizing a trunk. The restrictions imposed on the extension, such as Toll Restriction (TRS)/Call Barring (Barring), Account Code—Forced mode, and Extension Dial Lock are disregarded.
A maximum of 10 emergency numbers can be programmed.

◆ Emergency Number

Specifies the numbers used for making emergency calls. It is not necessary to start the emergency number with a Trunk Access number.

Value Range

Max. 32 digits (consisting of 0–9, *, #, T [Transfer], P [Pause], and F [Flash])

Maintenance Console Location

9.4 [7-4] Emergency Dial

Programming Manual References

None

Feature Guide References

1.5.4.2 Emergency Call

9.5 [7-5] Miscellaneous

Toll Restriction (TRS)/Call Barring (Barring) prohibits an extension from making certain trunk calls. The following optional settings can be programmed to activate a TRS/Barring check, override TRS/Barring, or switch between TRS/Barring methods.

◆ TRS Override by System Speed Dialling

Enables an outgoing trunk call to override TRS/Barring when the call is made using System Speed Dialling.

Value Range

Disable, Enable

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

8.1 [6-1] System Speed Dial

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

◆ TRS Check for Dial "* #"

Enables a TRS/Barring check for the user-dialled "✳" and "#". This is useful in preventing unauthorised calls which could possibly be made through certain telephone company exchanges.

Value Range

No Check, Check

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

◆ Mode when Dial Time-out before TRS Check

Selects whether a trunk is disconnected if the TRS/Barring check has not been completed when the trunk Inter-digit timer expires.

Value Range

Disconnect: The trunk is disconnected as soon as the timer expires.

Keep: The TRS/Barring check is performed when the timer expires.

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

4.5 [2-3] Timers & Counters

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

◆ Dial Digits Limitation After Answering—Dial Digits

Specifies a limit to be placed on the number of digits which can be dialled after an extension user receives a trunk call. If the number of dialled digits exceeds the programmed limit, the line will be disconnected.

Value Range

None, 1–7

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)
1.11.8 Trunk Call Limitation

◆ TRS Check after EFA

Enables TRS/Barring to check the digits dialled after External Feature Access (EFA) during a trunk call.

Value Range

Disable, Enable

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)
1.11.7 External Feature Access (EFA)

◆ TRS Table Mode for Level N (N=2_6)

Selects the method of TRS/Barring to be used for restricting calls. The level of TRS/Barring is determined by the telephone codes set in the Denied Code Tables and Exception Code Tables.

Value Range

Deny Table 2_N + Except Table N_6: The Denied Code Tables for the higher levels are applied to all levels below it, and the Exception Code Tables for the lower levels are applied to all levels above it.
Deny Table N + Except Table N: Each level has its own separate set of denied codes and exception codes, which are only applied to that level.

Maintenance Console Location

9.5 [7-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

Section 10

[8] ARS

10.1 [8-1] System Setting

Automatic Route Selection (ARS) automatically selects the appropriate carrier at the time a trunk call is made, according to the programmed settings. The user-dialled number will be checked and modified in order to connect it to the appropriate carrier.

◆ ARS Mode

Selects the condition to determine when to operate ARS.

Value Range

Off: ARS is disabled.
On for Local Access Operation: ARS operates when an extension user makes a call using Idle Line Access method.
On for Any CO Access Operation: ARS operates when an extension user makes a call using Idle Line Access, Trunk Access, or S-CO Line Access method.

Maintenance Console Location

10.1 [8-1] System Setting

Programming Manual References

None

Feature Guide References

1.5.5.3 Trunk Access
1.10.1 Automatic Route Selection (ARS)

◆ Mode When Any Carrier is not programmed for the Dial

Selects what happens when the dialled number is not found in ◆ **Leading Number** in **10.2 [8-2] Leading Number**.

Value Range

Disconnect: the line will be disconnected.
Local Access: the dialled number will be handled by Idle Line Access method.

Maintenance Console Location

10.1 [8-1] System Setting

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

10.2 [8-2] Leading Number

Specifies the area codes and/or telephone numbers as leading numbers that will be routed by the ARS feature. A maximum of 1000 different leading numbers can be programmed, and each leading number can select a Routing Plan Table number, which determines the ARS procedure.
The additional (remaining) number of digits can also be specified for each leading number. The additional (remaining) number of digits must be specified only when "#", for example, is needed after the dialled number. The "#" will be added after the programmed number of digits of the user-dialled number (excluding the leading number).
100 leading numbers are displayed at a time. To display other sets of leading numbers, click the applicable tab.

◆ Leading Number

Specifies the leading number.

Value Range

Max. 16 digits (consisting of 0–9, *, #, and X)

Maintenance Console Location

10.2 [8-2] Leading Number

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Additional Number of Digits

Specifies the additional (remaining) number of digits following each leading number.

Value Range

0–15

Maintenance Console Location

10.2 [8-2] Leading Number

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Routing Plan Number

Specifies the Routing Plan Table number used for each leading number.

Value Range

1–48

Maintenance Console Location

10.2 [8-2] Leading Number

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

10.3 [8-3] Routing Plan Time

The start and end times of a maximum of 4 different time blocks are shown for each day of the week. There are 48 Routing Plan Tables, and each Routing Plan Table can have its own time blocks. Select the desired Routing Plan Table number from the **Routing Plan** list.

- To adjust the currently displayed Routing Plan, click and drag the divisions between two time periods.
- To programme the time blocks of the currently displayed Routing Plan, including adding or deleting time blocks, click **Time Setting**.

10.4 [8-3] Routing Plan Time—Time Setting

The start times of a maximum of 4 different time blocks can be programmed for each day of the week, for the selected Routing Plan. Each time block automatically ends when the subsequent block begins.

◆ Time-A–D—Setting

Enables the setting of the start time for each time block.

Value Range

Disable, Enable

Maintenance Console Location

10.4 [8-3] Routing Plan Time—Time Setting

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Time-A–D—Hour, Minute

Specifies the start time for each time block.

Value Range

00:00–23:59

Maintenance Console Location

10.4 [8-3] Routing Plan Time—Time Setting

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

10.5 [8-4] Routing Plan Priority

The carrier priority (1 through 6) in a Routing Plan Table can be programmed for each time zone of each day of the week. Select the desired Routing Plan Table number from the **Routing Plan** list. Select the desired day of the week by clicking the applicable tab.

◆ Time-A–Time-D

Specifies the carrier to be given priority for each time zone.

Value Range

None, 1–48

Maintenance Console Location

10.5 [8-4] Routing Plan Priority

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

10.6 [8-5] Carrier

Carrier

It is possible to specify how user-dialled numbers are modified for connecting to the appropriate carrier. A maximum of 48 different carriers can be programmed to be used with the ARS feature.

◆ Carrier Name

Specifies the carrier name.

Value Range

Max. 20 characters

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Removed Number of Digits

Specifies the number of leading digits to remove from the user-dialled number.

Value Range

0–15

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Modify Command

Specifies the commands to modify the user-dialled number to access the carrier. For details of each command, see the Feature Guide.

Value Range

Max. 16 characters (consisting of 0–9, *, #, C, P, A, G, I and H)

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

◆ Carrier Access Code

Specifies the carrier access code. The carrier access code can be added to the user-dialled number by specifying "C" in ◆ **Modify Command** on this screen.

Value Range

Max. 32 digits (consisting of 0–9, *, #, and P [Pause])

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

TRG(Priority)

Selects the order in which trunk groups are seized when making calls via each carrier.

◆ Trunk Group—Priority 1–Priority 4

Specifies which trunk group is seized in the order of priority 1 to priority 4.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

None, 1–64

For KX-TDE600:

None, 1–96

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

TRG 01–TRG 64 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/TRG 01–TRG 96 (for KX-TDE600)

Selects the trunk groups that connect to the carrier.

◆ TRG 01–TRG 64 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/TRG 01–TRG 96 (for KX-TDE600)

Enables each trunk group for each carrier. If a cell is highlighted in blue, that trunk group is enabled for use with that carrier.

Value Range

OFF (white), ON (blue)

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

Authorisation Code for Tenant

Specifies an Authorisation code for each tenant. The Authorisation codes can be added to the user-dialled number by specifying "A" command in ◆ **Modify Command** on the **Carrier** tab.

◆ Authorisation Code for Tenant—Tenant 1–Tenant 32

Specifies the Authorisation code of each carrier for each tenant.

Note

For the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200, only up to 8 tenants are available.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

10.6 [8-5] Carrier

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)
2.2.3 Tenant Service

10.7 [8-6] Leading Number Exception

Specifies telephone numbers that will not be connected using the ARS feature. When the user-dialled number includes a leading number exception, the PBX sends the number to a trunk by the Idle Line Access method if ◆ **ARS Mode** in **10.1 [8-1] System Setting** is "on".
A maximum of 200 different leading number exceptions can be programmed. 40 leading number exception entries are displayed on the screen at a time. To display other sets, click the applicable tab.

◆ Leading Number Exception

Specifies the leading number exception.

Value Range

Max. 16 digits (consisting of 0–9, *, #, and X)

Maintenance Console Location

10.7 [8-6] Leading Number Exception

Programming Manual References

None

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

10.8 [8-7] Authorisation Code for TRG

An Authorisation code can be specified for each trunk group. The Authorisation codes entered here can be added to user-dialled numbers by adding "G" to the ◆ **Modify Command** specified on the **Carrier** tab of screen **10.6 [8-5] Carrier**.
8 trunk groups are displayed on the screen at a time. To display other groups, click the applicable tab.

◆ Authorisation Code for Trunk Group—TRG 01–TRG 64 (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/TRG 01–TRG 96 (for KX-TDE600)

Specifies the Authorisation code of each carrier for each trunk group.

Value Range

Max. 10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

10.8 [8-7] Authorisation Code for TRG

Programming Manual References

10.6 [8-5] Carrier—Carrier—◆ Modify Command

Feature Guide References

1.10.1 Automatic Route Selection (ARS)

Section 11

[9] Private Network

11.1 [9-1] TIE Table

A TIE line is a privately leased communication line between two or more PBXs, which provides cost effective communications between company members at different locations.
A maximum of 32 TIE Line Routing and Modification Tables can be programmed. It is necessary to make unified tables with all PBXs at different locations in a TIE line network in order to identify the trunk route to be used when an extension makes or receives a TIE line call.
There are two types of routing methods: the Extension Number Method, where all extensions in the network are given a unique extension number; and the PBX Code Method, where each PBX is given a unique code, which is dialled before the extension number to call an extension at another PBX.
Two priority sets (from a total of 8) are displayed at a time. To display other priority sets, click the applicable tab.
Using a private network, up to 8 PBXs can share one VPS (centralised VM) connected to another PBX. This VPS can provide voice mail for extensions attached to any of the PBXs in the network.
Only extension numbers of 4 digits or less, using the Extension Number Method, are supported.

◆ Own PBX Code

Specifies the PBX code of the local PBX, when using PBX Code Method numbering on a TIE line network. If this cell is left empty, the Extension Number Method is used.

Value Range

Max. 7 digits (consisting of 0–9)

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

Priority 1–Priority 8

◆ Leading Number

Specifies the leading number for other PBX extension numbers or the PBX code of others in the TIE line network.

Value Range

Max. 3 digits (consisting of 0–9, *, and #)

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

◆ Removed Number of Digits

Specifies the number of leading digits of the dialled number to be removed for each priority.

Value Range

0–15

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

◆ Added Number

Specifies the number to be added to the dialled number in place of the removed digits for each priority.

Value Range

Max. 32 digits (consisting of 0–9, *, #, and P [Pause])

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

◆ Trunk Group

Specifies the trunk group to be used for TIE line calls for each priority.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

None, 1–64

For KX-TDE600:

None, 1–96

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.1 TIE Line Service

Enhanced QSIG

◆ Leading Number

Specifies the leading number for other PBX extension numbers or the PBX code of other PBXs in the TIE line network.

Value Range

Max. 3 digits (consisting of 0–9, *, and #)

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.5 QSIG Enhanced Features

◆ Enhanced QSIG Call Information (Activation Key Required)

Enables Network Message Waiting information to be sent from the PBX to which the VPS is attached to extensions connected to other PBXs in the network.

Value Range

Disable, Enable

Maintenance Console Location

11.1 [9-1] TIE Table

Programming Manual References

None

Feature Guide References

1.30.5 QSIG Enhanced Features

11.2 [9-2] Network Data Transmission

Settings related to the transmission of extension BLF (Busy Line Field) data or Message Waiting notifications over a network of PBXs can be programmed.
Extension BLF data is used to show the status of a monitored extension attached to another PBX on a Network DSS (NDSS) button. Network Message Waiting notifications are used for the Centralised VM feature, and a VPS can send notifications to extensions connected to any PBX in the network.

◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID

Specifies the Network ID of the PBX, for Network Direct Station Selection (NDSS). This parameter must be set in correspondence with the Network IDs assigned to other PBXs in the network.
Network IDs 1-8 can only be assigned to one PBX each within a network. Assigning the same Network ID to two PBXs will cause network data transmission problems.
Changing this value in Interactive mode will automatically clear any NDSS Link Data.

Value Range

0: The PBX retransmits BLF data sent by other PBXs.
1: The PBX receives BLF data sent by other PBXs.
2–8: The PBX transmits BLF data over the network.

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network Data Transmission for Centralised Operator Feature—Data Transmission VoIP->ISDN

Selects whether to re-send BLF data received from a VoIP port through any ISDN ports that are set to transmit BLF data.

Value Range

Disable, Enable

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ Networking Data Transfer
3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ Networking Data Transfer

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network Data Transmission for Centralised Operator Feature—Data Transmission ISDN->VoIP

Selects whether to re-send BLF data received from an ISDN port through any VoIP ports that are set to transmit BLF data.

Value Range

Disable, Enable

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

11.3 [9-3] Network Operator (VoIP)—◆ IP-GW Card Slot No. to notify BLF data to Network Operator

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network Data Transmission for Centralised Operator Feature—Data Transmission Counter

Specifies the maximum number of "hops", or transmissions between two PBXs, before a packet of BLF data is discarded.

Value Range

1–63

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network Data Transmission for Centralised Operator Feature—Data Broadcasting Interval Timer

Specifies the frequency of BLF data transmission. The PBX will send data over the network periodically according to the interval specified here.

Value Range

100 × n (n=0–30) ms

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Counter

Specifies the number of times re-transmission of network message waiting notifications is repeated before being cancelled.

Value Range

0–10

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

11.1 [9-1] TIE Table—◆ Enhanced QSIG Call Information (Activation Key Required)

Feature Guide References

1.30.5.2 Centralised Voice Mail

◆ Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Timer

Specifies the length of time between repeated re-transmission of network message waiting notifications.

Value Range

10–240 s

Maintenance Console Location

11.2 [9-2] Network Data Transmission

Programming Manual References

11.1 [9-1] TIE Table—◆ Enhanced QSIG Call Information (Activation Key Required)

Feature Guide References

1.30.5.2 Centralised Voice Mail

11.3 [9-3] Network Operator (VoIP)

This screen allows network operators to be programmed. A network operator is an extension at a remote PBX that will monitor other PBX extensions using Network Direct Station Selection (NDSS). The settings on this screen should be programmed at the PBX that is to be monitored (◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID 2–8). Up to 8 network operators can be programmed.

◆ Network Operator Extension No.

Specifies the number of an extension at the monitor PBX (the PBX whose ◆ **Network Data Transmission for Centralised Operator Feature—Network PBX ID** is set to **1** in **11.2 [9-2] Network Data Transmission**). Any extension at the monitor PBX can be specified here.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

11.3 [9-3] Network Operator (VoIP)

Programming Manual References

11.2 [9-2] Network Data Transmission—◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ IP-GW Card Slot No. to notify BLF data to Network Operator

Specifies the slot number (with the KX-TDE600, shelf and slot number) of the card used to send extension status data. This setting is only required when using VoIP to transmit data.

Value Range

For KX-NCP500:

Undefined, 1–3, V-1–V-2

For KX-NCP1000:

Undefined, 1–4, V-1–V-4

For KX-TDE100/KX-TDE200:

Undefined, 1–11, V-1–V-4

For KX-TDE600:

Undefined, 1-1–4-11, V-1–V-4

Maintenance Console Location

11.3 [9-3] Network Operator (VoIP)

Programming Manual References

3.1 [1-1] Slot

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

11.4 [9-4] NDSS Key Table

Extensions at up to 7 other PBXs that will be monitored using Network Direct Station Selection (NDSS) can be registered. A maximum of 250 extensions can be registered. To create an NDSS button to monitor an extension, the extension must be registered here first.
To clear NDSS link data, click the **NDSS Clear** button.
Note that the parameters on this screen can only be set when the ◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID is set to **1** in the **11.2 [9-2] Network Data Transmission** screen.

◆ Network Extension No.

Specifies the number of the remote extension (attached to another PBX) that will be monitored. The number input here can use either Extension Number Method or PBX Code Method.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

11.4 [9-4] NDSS Key Table

Programming Manual References

None

Feature Guide References

1.30 Networking Features—1.30.1 TIE Line Service
1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network Extension Name for Programming Reference

Specifies the name of the network extension. This name is only shown here, not on the displays of extensions.

Value Range

Max. 20 characters

Maintenance Console Location

11.4 [9-4] NDSS Key Table

Programming Manual References

None

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

◆ Network PBX ID of Network Extension to be monitored

Indicates the ◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID of the PBX that the extension is connected to (reference only).

Value Range

None, 1–8

Maintenance Console Location

11.4 [9-4] NDSS Key Table

Programming Manual References

11.2 [9-2] Network Data Transmission—◆ Network Data Transmission for Centralised Operator Feature—Network PBX ID

Feature Guide References

1.30.5.1 Network Direct Station Selection (NDSS)

Section 12

[10] CO & Incoming Call

12.1 [10-1] CO Line Settings

Trunks can be assigned a name, and grouped into a maximum of 64 (with the KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200) or 96 (with the KX-TDE600) trunk groups.
For KX-TDE600, all supported cards are displayed in the **Select Shelf & Slot** list. Select the shelf and slot and card type to programme, or select "All" to display all matching cards.

◆ Shelf

Indicates the shelf type and/or position to which each trunk card belongs (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of each trunk card (reference only).

Value Range

Slot number

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

None

◆ Card Type

Indicates the type of card to which the trunk is connected (reference only).

Value Range

Card type

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

None

◆ CO Name

Specifies the trunk name which is shown on the extension’s display when receiving a call from the trunk.

Value Range

Max. 20 characters

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

1.20.4 Display Information

◆ Trunk Group Number

Specifies the trunk group number to which the trunk belongs.
When a V-IPGW card is installed, the value is automatically set to "7" for the corresponding trunks.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–64

For KX-TDE600:

1–96

Maintenance Console Location

12.1 [10-1] CO Line Settings

Programming Manual References

None

Feature Guide References

2.2.2 Group

12.2 [10-2] DIL Table & Port Settings

Direct In Line (DIL) or Direct Dialling In (DDI)/Direct Inward Dialling (DID) can be selected for each trunk as the method of distributing incoming trunk calls to certain destinations. For each trunk to which DIL distribution is set, different destinations can be programmed depending on the time mode (day/lunch/break/night). If desired, Calling Line Identification (CLI) distribution can be used in conjunction with DIL distribution.
For KX-TDE600, all supported cards are displayed in the **Select Shelf & Slot** list with their shelf and slot numbers. Select the card to programme, or select "All" to display all matching cards.

DIL

For each trunk to which DIL distribution is set, different DIL destinations can be programmed depending on the time mode (day/lunch/break/night). Generally, DIL distribution is used for trunk calls from analogue trunks. Tenant number and VM trunk group number can also be programmed for each trunk.
To assign DIL destination numbers, enter directly or click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ Shelf

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of each trunk card (reference only).

Value Range

Slot number

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Card Type

Indicates the trunk card type (reference only).

Value Range

Card type

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY

◆ Trunk Property

Indicates the networking type of each trunk (reference only).

Value Range

Public, Private(TIE), VPN

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.30.1 TIE Line Service
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

◆ Distribution Method

Selects the distribution method for incoming trunk calls. The value range of this setting depends on the card type and **Trunk Property** assigned for each trunk.

Value Range

DIL: Distribution depends on the trunk through which the calls arrive
DDI/DID: Distribution depends on the DDI/DID number of the calls
MSN: Distribution depends on the MSN of the calls

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY

◆ DIL Destination—Day, Lunch, Break, Night

Specifies the DIL destination in each time mode.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

4.9 [2-6-1] Numbering Plan—Main

Feature Guide References

1.1.1.2 Direct In Line (DIL)
1.30.1 TIE Line Service

◆ Tenant Number

Specifies the tenant number, to determine the Time Table by which calls are distributed depending on the time of day.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.2 Direct In Line (DIL)
2.2.3 Tenant Service
2.2.4 Time Service

◆ VM Trunk Group No.

Specifies the number of the VM trunk group sent to the VPS when the DIL destination is the floating extension number of a VM (DPT) Group.
The VM trunk group number is used to allow the VPS to send the applicable greeting message to the caller.

Value Range

1–48

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.2 Direct In Line (DIL)
1.24.3 Voice Mail DPT (Digital) Integration

CLI for DIL

When CLI distribution is enabled for a trunk to which DIL distribution is set, incoming trunk calls will be distributed to the CLI destinations (instead of the DIL destinations) if the caller's identification number is found in the System Speed Dialling Table.
CLI distribution can be enabled or disabled for each time mode (day/lunch/break/night) on a trunk basis.

◆ Shelf

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of each trunk card (reference only).

Value Range

Slot number

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range
Port number

Maintenance Console Location
12.2 [10-2] DIL Table & Port Settings

Programming Manual References
None

Feature Guide References
None

◆ Card Type
Indicates the trunk card type (reference only).

Value Range
Card type

Maintenance Console Location
12.2 [10-2] DIL Table & Port Settings

Programming Manual References
None

Feature Guide References
1.1.1.1 Incoming Trunk Call Features—SUMMARY

◆ Trunk Property
Indicates the networking type of each trunk (reference only).

Value Range
Public, Private(TIE), VPN

Maintenance Console Location
12.2 [10-2] DIL Table & Port Settings

Programming Manual References
None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.30.1 TIE Line Service
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

◆ Distribution Method

Selects the distribution method for incoming trunk calls. The value range of this setting depends on the card type and **Trunk Property** assigned for each trunk.

Value Range

DIL: Distribution depends on the trunk through which the calls arrive
DDI/DID: Distribution depends on the DDI/DID number of the calls
MSN: Distribution depends on the MSN of the calls

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY

◆ CLI Ring for DIL—Day, Lunch, Break, Night

Enables CLI distribution in each time mode.

Value Range

Disable, Enable

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.2 Direct In Line (DIL)
1.1.1.5 Calling Line Identification (CLI) Distribution

DDI / DID / TIE / MSN

For each trunk to which DDI/DID distribution is set, or for each trunk whose ◆ **Trunk Property** on this screen is **Private (TIE)**, modification parameters for DDI/DID number and TIE line call numbers can be programmed.

◆ Shelf

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of each trunk card (reference only).

Value Range

Slot number

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

None

◆ Card Type

Indicates the trunk card type (reference only).

Value Range

Card type

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY

◆ Trunk Property

Indicates the networking type of each trunk (reference only).

Value Range

Public, Private(TIE), VPN

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.30.1 TIE Line Service
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

◆ Distribution Method

Selects the distribution method for incoming trunk calls. The value range of this setting depends on the card type and **Trunk Property** assigned for each trunk.

Value Range

DIL: Distribution depends on the trunk through which the calls arrive
DDI/DID: Distribution depends on the DDI/DID number of the calls
MSN: Distribution depends on the MSN of the calls

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.1 Incoming Trunk Call Features—SUMMARY
1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

◆ DDI/DID/TIE/MSN—Remove Digit

Specifies the number of leading digits to be removed from the incoming called number for DDI/DID distribution or for TIE line service.

Value Range

0–15

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service
1.30.1 TIE Line Service

◆ DDI/DID/TIE/MSN—Additional Dial

Specifies the number to be added to the incoming called number in the place of the removed digits for DDI/DID distribution or for TIE line service.

Value Range

Max. 8 digits (consisting of 0–9, *, and #)

Maintenance Console Location

12.2 [10-2] DIL Table & Port Settings

Programming Manual References

None

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service
1.30.1 TIE Line Service

12.3 [10-3] DDI / DID Table

Incoming trunk calls with DDI/DID numbers can be distributed to specific destinations. Each DDI/DID number has a destination programmed for each time mode (day/lunch/break/night).
When CLI distribution is enabled for a DDI/DID number, incoming trunk calls with that DDI/DID number will be distributed to the CLI destinations (instead of the DDI/DID destinations) if the caller's identification number is found in the System Speed Dialling Table, which is used as the Caller ID Table. CLI distribution can be enabled or disabled for each time mode (day/lunch/break/night) on a DDI/DID number basis.
A maximum of 1000 DDI/DID numbers can be programmed with other related parameters. 100 numbers are displayed at a time. To display other sets of numbers, click the applicable tab.
To assign DDI/DID destination numbers, enter directly or click **Destination Setting** (see **2.1.6 Extension Number Setting**). It is possible to programme DDI/DID numbers and DDI/DID destinations in each time mode (day/lunch/break/night) for a set of locations in series at once by clicking **Automatic Registration**, or to programme DDI/DID names for a set of locations in series at once by clicking **Name Generate**.

◆ DDI / DID Number

Specifies the DDI/DID number.

Value Range

Max. 32 digits (consisting of 0–9, *, and #)

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

12.4 [10-3] DDI/DID Table—Automatic Registration

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ DDI / DID Name

Specifies the name for the DDI/DID number which is shown on the extension's display when receiving a call with the DDI/DID number. The name of the DDI/DID number can be printed out on SMDR.

Value Range

Max. 20 characters

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

12.5 [10-3] DDI/DID Table—Name Generate
13.1 [11-1] Main—SMDR Options—◆ Option—DDI/DID Number & Name

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ DDI / DID Destination—Day, Lunch, Break, Night

Specifies the DDI/DID destination in each time mode.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

4.9 [2-6-1] Numbering Plan—Main
12.4 [10-3] DDI/DID Table—Automatic Registration

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.30.1 TIE Line Service

◆ Tenant Number

Specifies the tenant number, to determine the Time Table by which calls are distributed depending on the time of day.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

4.6 [2-4] Week Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ VM Trunk Group No.

Specifies the number of the VM trunk group sent to the VPS when the DID destination is the floating extension number of a VM (DPT) Group.
The VM trunk group number is used to allow the VPS to send the applicable greeting message to the caller.

Value Range

1–48

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

None

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.24.3 Voice Mail DPT (Digital) Integration

◆ CLI Ring for DDI/DID—Day, Lunch, Break, Night

Enables CLI distribution in each time mode.

Value Range

Disable, Enable

Maintenance Console Location

12.3 [10-3] DDI / DID Table

Programming Manual References

8.1 [6-1] System Speed Dial

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)
1.1.1.5 Calling Line Identification (CLI) Distribution

12.4 [10-3] DDI/DID Table—Automatic Registration

Automatic Registration allows DDI/DID numbers and DDI/DID destinations in each time mode (day/lunch/break/night) to be programmed at once for a set of locations in series.

◆ Beginning Entry Location

Specifies the number of the first location to be programmed.

Value Range

1–1000

Maintenance Console Location

12.4 [10-3] DDI/DID Table—Automatic Registration

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Generate DDI/DID Number (From)

Specifies the DID number of the first location to be programmed. DDI/DID numbers for subsequent locations will be generated automatically, by adding one to the value of the previous location.

Value Range

Max. 32 digits (consisting of 0–9)

Maintenance Console Location

12.4 [10-3] DDI/DID Table—Automatic Registration

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Number of Registration

Specifies the number of locations to be programmed.

Value Range

1–1000

Maintenance Console Location

12.4 [10-3] DDI/DID Table—Automatic Registration

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Destination—Day, Lunch, Break, Night

Specifies the number of the DDI/DID destination in each time mode for the first location to be programmed. If the same destination is to be used for all locations for a certain time mode, click the appropriate **Same all** check box. If the **Same all** check box for a certain time mode is not clicked, the destination numbers for subsequent locations will be generated automatically, by adding one to the value of the previous location for that time mode.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

12.4 [10-3] DDI/DID Table—Automatic Registration

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

12.5 [10-3] DDI/DID Table—Name Generate

Name Generate allows DDI/DID names to be programmed at once for a set of locations in series. If a name generated here is longer than 20 characters, the additional characters will be discarded.

◆ Beginning Entry Location

Specifies the number of the first location to be programmed.

Value Range

1–1000

Maintenance Console Location

12.5 [10-3] DDI/DID Table—Name Generate

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Number to Generate

Specifies the number of locations to be programmed.

Value Range

1–1000

Maintenance Console Location

12.5 [10-3] DDI/DID Table—Name Generate

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ No. of Digits to Delete

Specifies the number of digits to be deleted from the start of a DDI/DID number when using it as part of the DDI/DID name.

Value Range

0–32

Maintenance Console Location

12.5 [10-3] DDI/DID Table—Name Generate

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Name Prefix

Specifies the text to be included at the start of each DDI/DID name.

Value Range

Max. 20 characters

Maintenance Console Location

12.5 [10-3] DDI/DID Table—Name Generate

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

◆ Name Suffix

Specifies the text to be included at the end of each DDI/DID name.

Value Range

Max. 20 characters

Maintenance Console Location

12.5 [10-3] DDI/DID Table—Name Generate

Programming Manual References

12.3 [10-3] DDI / DID Table

Feature Guide References

1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

12.6 [10-4] MSN Table

Incoming ISDN-BRI (Basic Rate Interface) line calls with Multiple Subscriber Numbers (MSNs) can be distributed to a certain destination. Each MSN has a destination programmed for each time mode (day/lunch/break/night).
A maximum of 10 MSNs can be programmed for each ISDN-BRI port.
To use this feature, ◆ **Access Mode** in **3.33 [1-1] Slot—Port Property - BRI Port** must be set to **P-MP**.
For KX-TDE600, all installed BRI cards set to MSN distribution are displayed in the **Select Shelf & Slot** list with their shelf and slot numbers. Select the card to programme, or select "All" to display all matching cards.

MSN

To assign MSN destination numbers, enter directly or click **Destination Setting** (see **2.1.6 Extension Number Setting**).

◆ Shelf (KX-TDE600 only)

Indicates the shelf number of the BRI card that is set to MSN distribution (reference only).

Value Range

Shelf number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of the BRI card that is set to MSN distribution (reference only).

Value Range

Slot number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number of the BRI card that is set to MSN distribution (reference only).

Value Range

Port number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ MSN Number

Specifies the MSN.

Value Range

Max. 16 digits (consisting of 0–9, *, and #)

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

◆ MSN Name

Specifies the name for the MSN which is shown on the extension’s display when receiving a call with the MSN.

Value Range

Max. 20 characters

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

◆ MSN Destination—Day, Lunch, Break, Night

Specifies the MSN destination in each time mode.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

◆ Tenant Number

Specifies the tenant number, to determine the Time Table by which calls are distributed depending on the time of day.

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

1–8

For KX-TDE600:

1–32

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port
4.6 [2-4] Week Table

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

◆ VM Trunk Group No.

Specifies the number of the VM trunk group sent to the VPS when the MSN destination is the floating extension number of a VM (DPT) Group.

The VM trunk group number is used to allow the VPS to send the applicable greeting message to the caller.

Value Range

1–48

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

CLI for MSN

When CLI distribution is enabled for an ISDN-BRI line to which MSN distribution is set, incoming trunk calls will be distributed to the CLI destinations (instead of the MSN destinations) if the caller's identification number is found in the System Speed Dialling Table.
CLI distribution can be enabled or disabled for each time mode (day/lunch/break/night) on a trunk basis.

◆ Shelf (KX-TDE600 only)

Indicates the shelf number of the BRI card that is set to MSN distribution (reference only).

Value Range

Shelf number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position of the BRI card that is set to MSN distribution (reference only).

Value Range

Slot number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number of the BRI card that is set to MSN distribution (reference only).

Value Range

Port number

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

None

Feature Guide References

None

◆ CLI Ring for MSN—Day, Lunch, Break, Night

Enables CLI distribution in each time mode.

Value Range

Disable, Enable

Maintenance Console Location

12.6 [10-4] MSN Table

Programming Manual References

3.33 [1-1] Slot—Port Property - BRI Port

Feature Guide References

1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service
1.1.1.5 Calling Line Identification (CLI) Distribution

12.7 [10-5] Miscellaneous

The Intercept Routing feature can activate when the destination of an incoming call is unavailable, or when there is no destination for the call, to reroute the call to an alternate destination.

◆ Intercept—Intercept Routing - DND (Destination sets DND.)

Enables the Intercept Routing—DND feature to activate when the original destination is in DND mode.

Value Range

Disable (Busy Tone): Sends a busy tone to the caller. (However, a call through an LCOT or T1 [LCOT/GCOT] card will ring at the original destination while the caller hears a ringback tone.)
Enable: Redirects the call to the intercept destination

Maintenance Console Location

12.7 [10-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.1.1.6 Intercept Routing
1.3.1.3 Do Not Disturb (DND)

◆ Intercept—Routing to Operator - No Destination (Destination is not programmed.)

Enables the Intercept Routing—No Destination feature to activate when there is no destination for the call. (The Intercept Routing—No Destination feature always works for calls through an LCOT or T1 [LCOT/GCOT] card, even when this feature is disabled.)

Value Range

Disable (Reorder Tone): Sends a reorder tone to the caller
Enable: Redirects the call to an operator

Maintenance Console Location

12.7 [10-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.1.1.7 Intercept Routing—No Destination

◆ Intercept—Intercept Routing for Extension Call

Enables the Intercept Routing feature to operate for extension calls.

Value Range

Disable, Enable

Maintenance Console Location

12.7 [10-5] Miscellaneous

Programming Manual References

None

Feature Guide References

1.1.1.7 Intercept Routing—No Destination

Section 13

[11] Maintenance

13.1 [11-1] Main

SMDR

Station Message Detail Recording (SMDR) automatically records detailed information about incoming and outgoing calls.

◆ SMDR Format—Type

Selects the format of SMDR output.

Value Range

Type A: 80 digits without call charge information
Type B: 80 digits with call charge information
Type C: 120 digits

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ SMDR Format—Port

Selects the Serial Interface port that is used to output the SMDR data.

Value Range

None, LAN, RS-232C

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ SMDR Format—Page Length (Number of Lines)

Specifies the number of lines on a page of output paper. Match the SMDR output to the paper size being used in the printer.

Value Range
4–99

Maintenance Console Location
13.1 [11-1] Main

Programming Manual References
None

Feature Guide References
1.26.1.1 Station Message Detail Recording (SMDR)

◆ SMDR Format—Blank Footer Length (Number of Lines)

Specifies the number of lines to be skipped at the end of every page. The number of lines for the skip perforation should be shorter than the page length.

Value Range
0–95

Maintenance Console Location
13.1 [11-1] Main

Programming Manual References
None

Feature Guide References
1.26.1.1 Station Message Detail Recording (SMDR)

◆ SMDR Format—Date Format

Selects the printed date format.

Value Range
MM-DD-YY, DD-MM-YY, YY-MM-DD, YY-DD-MM

Maintenance Console Location
13.1 [11-1] Main

Programming Manual References
None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ SMDR Format—Time Format (12H / 24H)

Selects whether times are displayed using the 12- or 24-hour format.

Value Range

12H, 24H

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Print Information—Outgoing Call

Specifies whether the dialled digits of outgoing trunk calls are printed. Class of Service (COS) programming determines the printable records.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Outgoing CO Call Printout (SMDR)

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Print Information—Incoming Call

Specifies whether the information relating to incoming trunk calls, such as caller's identification name and number, is printed.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Print Information—Intercom Call

Specifies whether the dialled digits of outgoing intercom calls are printed.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Print Information—Log-in / Log-out

Specifies whether the log-in/log-out status is printed.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.2.2.7 Log-in/Log-out
1.26.1.1 Station Message Detail Recording (SMDR)

◆ Print Information—Hotel Room Status

Selects whether check-in and check-out data is output on SMDR.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

8.2 [6-2] Hotel & Charge

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
1.27.2 Room Status Control

◆ Print Information—Timed Reminder (Wake-up Call)

Selects whether Timed Reminder data is output on SMDR.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

8.2 [6-2] Hotel & Charge

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
1.28.4 Timed Reminder

◆ Print Information—Error Log

Specifies whether PBX error log information is output to SMDR.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)
2.4.3 Local Alarm Information

SMDR Options

◆ Option—ARS Dial

Selects the type of the dialled number to be printed for a call with the ARS feature.

Value Range

Dial before ARS Modification: The user-dialled number
Dial after ARS Modification: The ARS modified number

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)
1.10 Automatic Route Selection (ARS) Features
1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Caller ID Number & Name

Selects the printing format of caller identifications for incoming trunk calls.

Value Range

None, Number, Name, Name + Number

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—DDI/DID Number & Name

Selects the printing format of incoming trunk calls with a DDI/DID number.

Value Range

None, Number, Name, Name + Number

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Secret Dial

Selects the printing format of calls with a secret dial. The secret dial conceals all or part of the dialled number. Note that selecting **Dial before ARS Modification** in ◆ **Option—ARS Dial** on this screen indicates the dialled numbers as dots regardless of this setting.

Value Range

Print "...." (Secret), Print Dialled Number

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.6.1.1 Memory Dialling Features—SUMMARY
1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Privacy Mode

Selects whether private dialling is enabled or disabled, and how many digits to hide when enabled.
To enable this setting, ◆ **Print Information—Outgoing Call** on the **SMDR** tab should be set to **Print**.

Value Range

Print Dialled Number: Disables private dialling; all dialled numbers are shown on SMDR.
No Print: No dialled number will be shown on SMDR.
Secret "X", Secret "XX", Secret "XXX", Secret "XXXX": The selected number of digits at the end of dialled telephone numbers, and any additional digits dialled after connection, are shown on SMDR as "X".

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

13.1 [11-1] Main—SMDR—◆ Print Information—Outgoing Call

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Condition Code "RC"

Specifies whether the time of receiving an incoming trunk call is printed.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Condition Code "AN"

Specifies whether the time of answering an incoming trunk call is printed.

Value Range

No Print, Print

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Option—Caller ID Modification

Specifies whether Caller ID numbers are recorded on SMDR as received (before being modified by the PBX) or after being modified.

Value Range

Before Modification, After Modification

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

5.3 [3-1-3] Caller ID Modification

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Emergency Call Notification

Specifies if an emergency call is recorded on SMDR only when the call is completed, or when the call is initially dialled as well.

Value Range

End of Call, Start and End of Call

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ LAN—SMDR Port Number

Specifies the port number used to output SMDR data via the LAN.

Value Range

1–65535

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ LAN—SMDR Password

Specifies the password used to output the SMDR data via the LAN.

Value Range

Max. 10 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ LAN—New Line Code for Telnet

Specifies the new line code for a terminal emulator.
If the terminal emulator automatically feeds lines with a carriage return, select **CR** (Carriage Return).
If not, select **CR + LF** (Line Feed).

Value Range

CR + LF, CR

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

RS-232C

◆ Communication—Baud Rate

Specifies the data transmission speed from the PBX to the printer or personal computer.

To ensure stable transmission, when changing this setting to 57600 or 115200 bps, set ◆ **Communication—Flow** on this screen to **Hardware**.

Value Range

2400 bps, 4800 bps, 9600 bps, 19200 bps, 38400 bps, 57600 bps, 115200 bps

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

13.1 [11-1] Main—RS-232C—◆ Communication—Flow

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Communication—NL Code

Specifies the NL (New Line) code for the printer or personal computer.
If the printer or personal computer automatically feeds lines with a carriage return, select **CR** (Carriage Return). If not, select **CR + LF** (Line Feed).

Value Range

CR + LF, CR

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Communication—Parity Bit

Selects a parity bit code that indicates what type of parity is used to detect an error in the string of bits composing a character.
Make an appropriate selection depending on the requirements of the printer or personal computer.

Value Range

None, Mark, Space, Even, Odd

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Communication—Word Length

Specifies the number of bits in each byte of a character.
When connecting the Maintenance Console to the PBX using an RS-232C cable, assign the following values to the Serial Interface (RS-232C) port of the PBX:
Word Length: 8 bit, **Parity Bit**: None, **Stop Bit**: 1 bit

Notice

Do not use the following combinations:

- **Word Length**: 8 bit, **Parity Bit**: Space, **Stop Bit**: 1 bit
- **Word Length**: 8 bit, **Parity Bit**: Mark, **Stop Bit**: 2 bit
- **Word Length**: 8 bit, **Parity Bit**: Space, **Stop Bit**: 2 bit

Value Range

7 bit, 8 bit

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ Communication—Flow

Enables the hardware flow control.

Value Range

None, Hardware

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

None

◆ Communication—Stop Bit

Selects a stop bit code that indicates the end of a bit string which composes a character.
Select an appropriate value depending on the requirements of the printer or personal computer.

Value Range

1 bit, 2 bit

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.1 Station Message Detail Recording (SMDR)

◆ External Modem Command—Automatic Initialisation

Specifies the command to automatically initialise an external modem when it is plugged into the Serial Interface (RS-232C) port of the PBX.

Value Range

Max. 30 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ External Modem Command—Manual Initialisation 1–Manual Initialisation 5

Specifies the command to manually initialise an external modem. The command specified here is controlled by PT system programming (External Modem Control [801]).

Value Range

Max. 30 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

Maintenance

◆ Local Alarm Display—Extension 1, Extension 2

Specifies the extension numbers of PTs that will be notified by the PBX about local alarms. When the PBX detects a PBX error, the System Alarm button on the PT turns on red. When this button is pressed, the display will show the error number, and the button light will turn off automatically.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.4.3 Local Alarm Information

◆ Daily Test Start Time—Set

Enables the daily self check of the PBX for local alarm and error log.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.4.3 Local Alarm Information

◆ Daily Test Start Time—Hour

Specifies the hour of the PBX daily self check start time.

Value Range

0–23

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.4.3 Local Alarm Information

◆ Daily Test Start Time—Minute

Specifies the minute of the PBX daily self check start time.

Value Range

0–59

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.4.3 Local Alarm Information

◆ Error Log for Centralised VM—Network MSW Transmission (Counter)

Enables error information to be logged in the PBX if network message waiting information is deleted after re-transmission is repeated for the number of times specified in ◆ **Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Counter** in **11.2 [9-2] Network Data Transmission**.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

11.1 [9-1] TIE Table—◆ Enhanced QSIG Call Information (Activation Key Required)
11.2 [9-2] Network Data Transmission—◆ Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Counter

Feature Guide References

1.30.5.2 Centralised Voice Mail

◆ Error Log for Centralised VM—Network MSW Transmission (Buffer)

Enables error information to be logged in the PBX if the quantity of network message waiting information being re-transmitted is larger than the transmission buffer.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

11.1 [9-1] TIE Table—◆ Enhanced QSIG Call Information (Activation Key Required)

Feature Guide References

1.30.5.2 Centralised Voice Mail

Syslog

◆ Syslog

Enables the PBX to output local alarm information to a syslog server.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.2 Syslog Record Management

◆ Syslog—Syslog Server IP Address

Specifies the IP address of a syslog server.

Value Range

1.0.0.0–223.255.255.255

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.2 Syslog Record Management

◆ Syslog—Major

Selects whether to output major alarm information to a syslog server.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.2 Syslog Record Management

◆ Syslog—Minor

Selects whether to output minor alarm information to a syslog server.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

1.26.1.2 Syslog Record Management

Remote

◆ Remote—Analogue Remote (Modem) Floating Extension Number

Specifies the floating extension number for analogue remote maintenance. To enable this setting, an RMT card must be installed, and ◆ **Remote—Remote Programming** on this screen must be enabled.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ Remote—ISDN Remote Floating Extension Number

Specifies the floating extension number for ISDN remote maintenance. To enable this setting, ◆ **Remote—Remote Programming** on this screen must be enabled.

Value Range

Max. 5 digits (consisting of 0–9)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ Remote—Remote Programming

Enables system programming, diagnosis, and data upload from a remote location.

Value Range

Disable, Enable

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ Remote—Password Lock Counter for Remote Programming

Specifies the number of successive incorrect password entries allowed before remote access is locked.

Value Range

None, 1–15

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ Remote—Remote Maintenance Dial Number (Own Telephone number for reference)

Specifies the telephone number of the PBX used to access the PBX from a remote location for maintenance purposes.
This number can be specified by Quick Setup.

Value Range

Max. 32 digits (consisting of 0–9, *, and #)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.4 Quick Setup

Password

Passwords authorise the user to programme the extension and the PBX by a PT or a personal computer.

◆ System Password - PT Programming—Prog ** : User Level

Specifies the user level system password to authorise the PT user to access only the permitted system programming.

Value Range

4–10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.2 PT Programming

◆ System Password - PT Programming—Prog *# : Administrator Level

Specifies the administrator level system password to authorise the PT user to access all system programming.

Value Range

4–10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.2 PT Programming

◆ Manager Password - PT Programming—Prog *1

Specifies the manager password to authorise the PT user to access manager programming.

Value Range

4–10 digits (consisting of 0–9, *, and #)

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.2.6 Manager Features

◆ System Password - PC Programming—User Level

Specifies the system password used to access Maintenance Console at User Level. This password can only be set in Interactive mode.

Value Range

4–10 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

◆ System Password - PC Programming—Administrator Level

Specifies the system password used to access Maintenance Console at Administrator Level. This password can only be set in Interactive mode.

Value Range

4–10 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

System Password - PC Programming—Installer Level

Specifies the system password used to access Maintenance Console at Installer Level. This password can only be set in Interactive mode.

Value Range

4–10 characters

Maintenance Console Location

13.1 [11-1] Main

Programming Manual References

None

Feature Guide References

2.3.1 PC Programming

13.2 [11-2] PT Programming Access

The programming items accessible at User and Administrator level can be specified.
100 programming item numbers are displayed at a time. To display other sets of numbers, click the applicable tab.

◆ Program Number

Indicates the programming item number (reference only).

Value Range

000–999

Maintenance Console Location

13.2 [11-2] PT Programming Access

Programming Manual References

None

Feature Guide References

2.3.2 PT Programming

◆ PROG**

Selects whether User Level PT users can access each system programming item.

Value Range

Disable, Enable

Maintenance Console Location

13.2 [11-2] PT Programming Access

Programming Manual References

None

Feature Guide References

2.3.2 PT Programming

13.3 [11-3] Power Failure Transfer

When the power supply to the PBX fails, power failure transfer (PFT) switches the current connections to Auxiliary Connections, so that certain SLTs and trunks can be connected. Auxiliary Connections allow trunk calls to be made during a power failure. For KX-NCP series PBXs, one trunk card and one extension card that are physically connected by RJ45 cable can be specified. For KX-TDE series PBXs, up to 6 pairs of trunk cards and extension cards that are physically connected by RJ11 cable can be specified. The conversations through the lines specified here will be maintained even when the power returns.
For the KX-TDE600, select the shelf for which to set connections from the **Shelf** list. Note that PFT connections can only be made within the same shelf.

◆ Trunk Card Slot No.

Specifies the position of the trunk card to be used.

Value Range

For KX-NCP500:

None, Small Free Slot 1, Small Free Slot 2, Small Free Slot 3

For KX-NCP1000:

None, Small Free Slot 1, Small Free Slot 2, Small Free Slot 3, Small Free Slot 4

For KX-TDE series:

None, 1–11

Maintenance Console Location

13.3 [11-3] Power Failure Transfer

Programming Manual References

None

Feature Guide References

2.4.1 Power Failure Transfer

◆ Extension Card Slot No.

Specifies the position of the extension card to be used.

Value Range

For KX-NCP500:

None, Small Free Slot 1, Small Free Slot 2, Small Free Slot 3

For KX-NCP1000:

None, Small Free Slot 1, Small Free Slot 2, Small Free Slot 3, Small Free Slot 4

For KX-TDE series:

None, 1–11

Maintenance Console Location

13.3 [11-3] Power Failure Transfer

Programming Manual References

None

Feature Guide References

2.4.1 Power Failure Transfer

13.4 [11-4-1] SNMP—System Setting

Using SNMP (Simple Network Management Protocol), it is possible for a PC assigned as an SNMP manager to manage and receive PBX system status information, such as alarm information and general system activity. The related PBX system settings can be programmed.
This option is only available at Installer level.

◆ SNMP Agent Function

Enables the PBX to use its SNMP agent function.

Value Range

Disable, Enable

Maintenance Console Location

13.4 [11-4-1] SNMP—System Setting

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ Port Number (Receive)

Specifies the port number used to receive SNMP data requests from an SNMP manager.

Value Range

1–65535

Maintenance Console Location

13.4 [11-4-1] SNMP—System Setting

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ MIB - SysContact

Specifies the name and contact information of the system administrator.

Value Range

Max. 255 characters

Maintenance Console Location

13.4 [11-4-1] SNMP—System Setting

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ MIB - SysName

Specifies an administrative name for the system.

Value Range

Max. 255 characters

Maintenance Console Location

13.4 [11-4-1] SNMP—System Setting

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ MIB - SysLocation

Specifies a physical location for the system.

Value Range

Max. 255 characters

Maintenance Console Location

13.4 [11-4-1] SNMP—System Setting

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

13.5 [11-4-2] SNMP—Manager

It is possible to assign up to two PCs as SNMP managers. The settings related to SNMP manager activity can be programmed for each SNMP manager, indicated as No.1 and No.2 on the screen.
This option is only available at Installer level.

◆ Manager IP Address

Specifies the IP address of an SNMP manager.

Value Range

0.0.0.0–223.255.255.255

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ Community Name

Specifies a community name of an SNMP manager.

Value Range

Max. 255 characters

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ TRAP Port Number (Send)

Specifies a port number used to send TRAP to an SNMP manager.

Value Range

1–65535

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ TRAP Cold Start

Selects whether the PBX sends Cold Start TRAP to an SNMP manager or not.

Value Range

Disable, Enable

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ TRAP Authentication Failure

Selects whether the PBX sends Authentication Failure TRAP to an SNMP manager or not.

Value Range

Disable, Enable

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ TRAP Alarm - Major

Selects whether the PBX sends Major Alarm TRAP to an SNMP manager or not.

Value Range

Disable, Enable

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

◆ TRAP Alarm - Minor

Selects whether the PBX sends Minor Alarm TRAP to an SNMP manager or not.

Value Range

Disable, Enable

Maintenance Console Location

13.5 [11-4-2] SNMP—Manager

Programming Manual References

None

Feature Guide References

2.4.4 Simple Network Management Protocol (SNMP) System Monitor

13.6 [11-5] Air Synchronisation

It is possible to synchronise CSs with each other within the air synchronisation group.
Click **Sort** to reorder CSs with traditional CSs first, followed by IP-CSs.
To open the screen described in **2.6.17 Utility—CS Status Monitor**, click **CS Status Monitor**.

Adding CSs

Follow the steps below to add CSs to the air synchronisation group.

1. Connect the CS to be registered to the network and, if necessary, the power supply.
2. Click **Add**.
   A dialogue box will appear. Non-registered (available) CSs are displayed on the left.
3. Highlight CSs and click the right arrow to select them for addition.
4. Click **OK**.

Deleting CSs

Follow the steps below to delete CSs from the air synchronisation group.

1. Click **Delete**.
   A dialogue box will appear. Registered CSs are displayed on the left.
2. Highlight CSs and click the right arrow to select them for deletion.
3. Click **OK**.

◆ Index

Indicates the CS number (reference only).

Value Range

1–32

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Slot Type (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/Shelf (for KX-TDE600)

Indicates the shelf type and/or position (reference only).

Value Range

For KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200:

Physical, Virtual

For KX-TDE600:

Shelf number, Virtual

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Slot

Indicates the slot position (reference only).

Value Range

Slot number

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Port

Indicates the port number (reference only).

Value Range

Port number

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ CS Name

Indicates the name of the CS (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Connection

Indicates the port status (reference only).
To change the status of the port, select the desired cell in the column, and then click **Command**.

Value Range

INS: The port is in service.
OUS: The port is out of service.
Fault: The port is not communicating with the network.

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Status

Indicates whether a certain CS is registered (reference only).

Value Range

-, Registered

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ CS Class

Specifies the classification of each CS. This parameter can only be modified when **Connection** on this screen is set to **OUS**.

Value Range

Sync Master CS1, Sync Master CS2, Sync Slave CS

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Primary CS—Index

Specifies the number of the primary CS.

Value Range

1–32

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Primary CS—Slot

Indicates the slot position of the primary CS (reference only).

Value Range
Slot number

Maintenance Console Location
13.6 [11-5] Air Synchronisation

Programming Manual References
None

Feature Guide References
None

◆ Primary CS—Port
Indicates the port number of the primary CS (reference only).

Value Range
Port number

Maintenance Console Location
13.6 [11-5] Air Synchronisation

Programming Manual References
None

Feature Guide References
None

◆ Primary CS—CS Name
Indicates the name of the primary CS (reference only).

Value Range
Max. 20 characters

Maintenance Console Location
13.6 [11-5] Air Synchronisation

Programming Manual References
None

Feature Guide References

None

◆ Secondary CS—Index

Specifies the number of the secondary CS.

Value Range

1–32

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Secondary CS—Slot

Indicates the slot position of the secondary CS (reference only).

Value Range

Slot number

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Secondary CS—Port

Indicates the port number of the secondary CS (reference only).

Value Range

Port number

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

◆ Secondary CS—CS Name

Indicates the name of the secondary CS (reference only).

Value Range

Max. 20 characters

Maintenance Console Location

13.6 [11-5] Air Synchronisation

Programming Manual References

None

Feature Guide References

None

Section 14

Appendix

14.1 Revision History

14.1.1 KX-NCP500/KX-NCP1000 PBMPR Software File Version 2.0xxx

New Contents

- 2.6.17 Utility—CS Status Monitor
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 3.1 [1-1] Slot
  To access IP-PT port properties
- 3.20 [1-1] Slot—Card Property - Virtual IPCS
- 3.21 [1-1] Slot—Port Property - Virtual IPCS
- 3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command
- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—Air Sync Group No
- 4.4 [2-2] Operator & BGM
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—OGM No.
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—Card
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Air Synchronisation—Watching Degeneracy
- 6.1 [4-1-1] Wired Extension—Extension Settings
  Find Next feature
- 13.6 [11-5] Air Synchronisation

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
  Starting the Maintenance Console and Assigning the Basic Items (Quick Setup)
- 2.6.14 Utility—IP Extension Statistical Information
- 2.6.15 Utility—CS Information
- 2.6.21 Utility—Software Timed Update
- 3.3 [1-1] Slot—Activation Key
- 3.15 [1-1] Slot—Port Property - Virtual IP Extension
- 3.61 [1-2] Portable Station

- 4.4 [2-2] Operator & BGM—◆ BGM and Music on Hold—Music on Hold
- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone
  → ◆ Dial—Extension First Digit
  → ◆ Dial—Extension Inter-digit
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Wireless XDP
- 6.10 [4-2-1] Portable Station—Extension Settings
  Maximum length of extension number
- 8.6 [6-6] Tenant—◆ Music On Hold

14.1.2 KX-NCP500/KX-NCP1000 PBMPR Software File Version 4.1xxx

New Contents

- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Automatic Answer (Caller)
- 4.12 [2-7-1] Class of Service—COS Settings—CA
- 4.18 [2-9] System Options
  → Option 2—◆ CO - CO Call Limitation—After Conference
  → Option 4—◆ Send CLIP of Extension Caller—when call is forwarded to CO
  → Option 5—◆ ISDN Option—Calling Party Name Presentation to PRI23
  → Option 5—◆ ISDN Option—Calling Party Name Sending Format
  → Option 6 (CTI)—◆ CTI Hold—Forced Idle when Hold by PDN/SDN Key
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings—Centralised VM Unit Setting
- 5.27 [3-10] Conference Group

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- 3.1 [1-1] Slot
  Maximum number of cards
- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)—VoIP-DSP Option—◆ IP Extension Count of BGM
- 3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings
- 3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Transfer to busy Extension w/o BSS Operation
- 4.18 [2-9] System Options—Option 4
  → ◆ Send CLIP of CO Caller—when call is transferred to CO (CLIP of Held Party)
  → ◆ Send CLIP of CO Caller—when call is forwarded to CO
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
  PDF Output
- 6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting—◆ Extension Number (for Voice Mail Transfer)
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.17 [4-3] DSS Console

PDF Output

- 13.6 [11-5] Air Synchronisation

14.1.3 KX-NCP500/KX-NCP1000 PBMPR Software File Version 5.0xxx

New Contents

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ SIP Refer (Blind)
- 4.18 [2-9] System Options—Option 1—◆ PT Operation—One-touch Busy Override by SCO key
- 4.18 [2-9] System Options—Option 2—◆ CODEC—Priority Notification from SIP Network (for Incoming Call)
- 4.18 [2-9] System Options—Option 7
  - ◆ Incoming Call Log—Busy / Intercept (when Called Party is Busy)
  - ◆ Incoming Call Log—Fwd All / Fwd Busy
  - ◆ Incoming Call Log—Call Pickup
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Call Log to ICD Group when Overflow Destination Answered
- 5.19 [3-7-1] VM(DPT) Group—System Settings—◆ Overflow to Mailbox for Call to ICD Group
- 5.27 [3-10] Conference Group—◆ Automatic Answer w/o Extension Setting
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Automatic Recording
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Automatic Recording
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 13.1 [11-1] Main—SMDR Options—◆ Emergency Call Notification

Changed Contents

- 3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway—Outgoing Call
  - En-bloc Dialling Setting deleted
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ Call Waiting Distribution
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Overflow Queuing Busy—◆ Queuing Busy—Queue Call Capacity

- 5.27 [3-10] Conference Group—◆ Ability to Talk
- 6.1 [4-1-1] Wired Extension—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)
- 6.10 [4-2-1] Portable Station—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)

14.1.4 KX-NCP500/KX-NCP1000 PBMPR Software File Version 6.0xxx

New Contents

- 4.18 [2-9] System Options—Option 4—◆ DSS Key—Caller Information Display before Call Pick-up
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Overflow immediately when All Logout
- 10.6 [8-5] Carrier—TRG(Priority)

Changed Contents

- 10.2 [8-2] Leading Number—◆ Routing Plan Number
- 10.3 [8-3] Routing Plan Time
- 10.5 [8-4] Routing Plan Priority—◆ Time-A–Time-D
- 10.6 [8-5] Carrier

14.1.5 KX-NCP500/KX-NCP1000 PBMPR Software File Version 7.xxxx

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
- 2.1.2 Access Levels
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 2.6.21 Utility—Software Timed Update
  - Card Software
  - NT300
- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 3.17 [1-1] Slot—Card Property - Virtual SIP Extension
- 4.18 [2-9] System Options
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 7.3 [5-3-1] Voice Message—DISA System
- 8.6 [6-6] Tenant

14.1.6 KX-TDE100/KX-TDE200 PMMPR Software File Version 2.0xxx

New Contents

- 2.2 Programme launcher
- 2.6.1 Utility—Diagnosis—Network Loopback Test

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
- 2.1 Introduction
- 2.3 File
- 2.4 Disconnect
- 2.5 Tool
- 2.6 Utility
- 3.1 [1-1] Slot
- 3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway
- 3.58 [1-1] Slot—OPB3 Card Property
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
- 6.1 [4-1-1] Wired Extension—Extension Settings
- 6.9 [4-1-7] Wired Extension—Simplified Voice Message
- 6.16 [4-2-5] Portable Station—Simplified Voice Message
- 7.3 [5-3-1] Voice Message—DISA System
- 7.5 [5-3-3] Voice Message—SVM
- 10.6 [8-5] Carrier—Authorisation Code for Tenant

14.1.7 KX-TDE100/KX-TDE200 PMMPR Software File Version 2.01xx

New Contents

- 2.5.7 Tool—Call Pickup for My Group

Changed Contents

- 2.2.5 Programme launcher—Connect—LAN
- 3.3 [1-1] Slot—Activation Key
- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)
- 3.15 [1-1] Slot—Port Property - Virtual IP Extension
- 3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)
- 3.61 [1-2] Portable Station
- 6.1 [4-1-1] Wired Extension—Extension Settings

14.1.8 KX-TDE100/KX-TDE200 PMMPR Software File Version 3.0xxx

New Contents

- 1.2.1 Installing and Starting the Maintenance Console
  PBX Web Manager
- 2.6.17 Utility—CS Status Monitor
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 3.1 [1-1] Slot
  To access IP-PT port properties
- 3.20 [1-1] Slot—Card Property - Virtual IPCS
- 3.21 [1-1] Slot—Port Property - Virtual IPCS
- 3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command
- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—Air Sync Group No
- 3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)—◆ Air Sync Group No
- 4.4 [2-2] Operator & BGM
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—OGM No.
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—Card
- 4.5 [2-3] Timers & Counters—◆ Air Synchronisation—Watching Degeneracy
- 5.27 [3-10] Conference Group—◆ Broadcast Mode
- 7.5 [5-3-3] Voice Message—SVM
- 13.6 [11-5] Air Synchronisation

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
  Starting the Maintenance Console and Assigning the Basic Items (Quick Setup)
- 2.2.5 Programme launcher—Connect—LAN
- 2.6.1 Utility—Diagnosis
- 2.6.6 Utility—Message File Transfer PC to PBX
- 2.6.7 Utility—Message File Transfer PBX to PC

- 2.6.14 Utility—IP Extension Statistical Information
- 2.6.15 Utility—CS Information
- 2.6.21 Utility—Software Timed Update
- 3.3 [1-1] Slot—Activation Key
- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)
- 3.5 [1-1] Slot—OPB3 Card Property
- 3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings
- 3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP
- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 4.18 [2-9] System Options—Option 4
  → ◆ Send CLIP of CO Caller—when call is transferred to CO (CLIP of Held Party)
  → ◆ Send CLIP of CO Caller—when call is forwarded to CO
- 6.1 [4-1-1] Wired Extension—Extension Settings
- 6.3 [4-1-2] Wired Extension—FWD/DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 6.10 [4-2-1] Portable Station—Extension Settings
- 6.12 [4-2-2] Portable Station—FWD/DND
- 6.13 [4-2-3] Portable Station—Flexible Button
- 6.17 [4-3] DSS Console
- 8.6 [6-6] Tenant—◆ Music On Hold

14.1.9 KX-TDE100/KX-TDE200 PMMPR Software File Version 4.1xxx

New Contents

- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Automatic Answer (Caller)
- 4.12 [2-7-1] Class of Service—COS Settings—CA
- 4.18 [2-9] System Options
  → Option 2—◆ CO - CO Call Limitation—After Conference
  → Option 4—◆ Send CLIP of Extension Caller—when call is forwarded to CO
  → Option 5—◆ ISDN Option—Calling Party Name Presentation to PRI23
  → Option 5—◆ ISDN Option—Calling Party Name Sending Format
  → Option 6 (CTI)—◆ CTI Hold—Forced Idle when Hold by PDN/SDN Key
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings—Centralised VM Unit Setting

Changed Contents

- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)—VoIP-DSP Option—◆ IP Extension Count of BGM
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Transfer to busy Extension w/o BSS Operation
- 5.27 [3-10] Conference Group
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
  PDF Output
- 6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting—◆ Extension Number (for Voice Mail Transfer)
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.17 [4-3] DSS Console
  PDF Output
- 13.6 [11-5] Air Synchronisation

14.1.10 KX-TDE100/KX-TDE200 PMMPR Software File Version 5.0xxx

New Contents

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ SIP Refer (Blind)
- 4.18 [2-9] System Options—Option 1—◆ PT Operation—One-touch Busy Override by SCO key
- 4.18 [2-9] System Options—Option 2—◆ CODEC—Priority Notification from SIP Network (for Incoming Call)
- 4.18 [2-9] System Options—Option 7
  - ◆ Incoming Call Log—Busy / Intercept (when Called Party is Busy)
  - ◆ Incoming Call Log—Fwd All / Fwd Busy
  - ◆ Incoming Call Log—Call Pickup
- 4.19 [2-10] Extension CID Settings—◆ FSK Transmission Level (for MCSLC Card)
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Call Log to ICD Group when Overflow Destination Answered
- 5.19 [3-7-1] VM(DPT) Group—System Settings—◆ Overflow to Mailbox for Call to ICD Group
- 5.27 [3-10] Conference Group—◆ Automatic Answer w/o Extension Setting
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Automatic Recording
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Automatic Recording
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 13.1 [11-1] Main—SMDR Options—◆ Emergency Call Notification

Changed Contents

- 3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway—Outgoing Call
  - En-bloc Dialling Setting deleted
- 3.23 [1-1] Slot—Card Property - Extension Type
  - ◆ SLT Power Supply (KX-TDE series only)

  - ◆ Hook Threshold PD A-law (KX-TDE series only)
  - ◆ Hook Threshold PD μ-law (KX-TDE series only)

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ Call Waiting Distribution
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Overflow Queuing Busy—◆ Queuing Busy—Queue Call Capacity
- 5.27 [3-10] Conference Group—◆ Ability to Talk
- 6.1 [4-1-1] Wired Extension—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)
- 6.10 [4-2-1] Portable Station—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)

14.1.11 KX-TDE100/KX-TDE200 PMMPR Software File Version 6.0xxx

New Contents

- 4.18 [2-9] System Options—Option 4—◆ DSS Key—Caller Information Display before Call Pick-up
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Overflow immediately when All Logout
- 10.6 [8-5] Carrier—TRG(Priority)

Changed Contents

- 10.2 [8-2] Leading Number—◆ Routing Plan Number
- 10.3 [8-3] Routing Plan Time
- 10.5 [8-4] Routing Plan Priority—◆ Time-A–Time-D
- 10.6 [8-5] Carrier

14.1.12 KX-TDE100/KX-TDE200 PMMPR Software File Version 7.xxxx

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
- 2.1.2 Access Levels
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 2.6.21 Utility—Software Timed Update
  - Card Software
  - NT300
- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 3.17 [1-1] Slot—Card Property - Virtual SIP Extension
- 4.18 [2-9] System Options
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 7.3 [5-3-1] Voice Message—DISA System
- 8.6 [6-6] Tenant

14.1.13 KX-TDE600 PGMPR Software File Version 3.0xxx

New Contents

- 1.2.1 Installing and Starting the Maintenance Console
  PBX Web Manager
- 2.6.17 Utility—CS Status Monitor
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 3.1 [1-1] Slot
  To access IP-PT port properties
- 3.20 [1-1] Slot—Card Property - Virtual IPCS
- 3.21 [1-1] Slot—Port Property - Virtual IPCS
- 3.22 [1-1] Slot—Port Property - Virtual IPCS—Connection Command
- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—Air Sync Group No
- 3.27 [1-1] Slot—Port Property - CSI/F Port (KX-TDE series only)—◆ Air Sync Group No
- 4.4 [2-2] Operator & BGM
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—OGM No.
  → ◆ BGM and Music on Hold—Music Source of BGM2–7 (for KX-NCP series)/Music Source of BGM3–8 (for KX-TDE series)—Card
- 4.5 [2-3] Timers & Counters—◆ Air Synchronisation—Watching Degeneracy
- 5.27 [3-10] Conference Group—◆ Broadcast Mode
- 13.6 [11-5] Air Synchronisation

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
  Starting the Maintenance Console and Assigning the Basic Items (Quick Setup)
- 2.2.5 Programme launcher—Connect—LAN
- 2.6.1 Utility—Diagnosis
- 2.6.6 Utility—Message File Transfer PC to PBX
- 2.6.7 Utility—Message File Transfer PBX to PC
- 2.6.14 Utility—IP Extension Statistical Information
- 2.6.15 Utility—CS Information

- 2.6.21 Utility—Software Timed Update
- 3.3 [1-1] Slot—Activation Key
- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)
- 3.5 [1-1] Slot—OPB3 Card Property
- 3.11 [1-1] Slot—Shelf Property - Virtual IP Gateway—GW Settings
- 3.12 [1-1] Slot—Shelf Property - Virtual IP Gateway—DN2IP
- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 3.15 [1-1] Slot—Port Property - Virtual IP Extension
- 3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)
- 3.61 [1-2] Portable Station
- 4.18 [2-9] System Options—Option 4
  → ◆ Send CLIP of CO Caller—when call is transferred to CO (CLIP of Held Party)
  → ◆ Send CLIP of CO Caller—when call is forwarded to CO
- 6.1 [4-1-1] Wired Extension—Extension Settings
- 6.3 [4-1-2] Wired Extension—FWD/DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 6.10 [4-2-1] Portable Station—Extension Settings
- 6.12 [4-2-2] Portable Station—FWD/DND
- 6.13 [4-2-3] Portable Station—Flexible Button
- 6.17 [4-3] DSS Console
- 8.6 [6-6] Tenant—◆ Music On Hold

14.1.14 KX-TDE600 PGMPR Software File Version 4.1xxx

New Contents

- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 3.23 [1-1] Slot—Card Property - Extension Type
  → ◆ Hook Threshold PD A-law (KX-TDE series only)
  → ◆ Hook Threshold PD μ-law (KX-TDE series only)
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Automatic Answer (Caller)
- 4.12 [2-7-1] Class of Service—COS Settings—CA
- 4.18 [2-9] System Options
  → Option 2—◆ CO - CO Call Limitation—After Conference
  → Option 4—◆ Send CLIP of Extension Caller—when call is forwarded to CO
  → Option 5—◆ ISDN Option—Calling Party Name Presentation to PRI23
  → Option 5—◆ ISDN Option—Calling Party Name Sending Format
  → Option 6 (CTI)—◆ CTI Hold—Forced Idle when Hold by PDN/SDN Key
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings—Centralised VM Unit Setting

Changed Contents

- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)—VoIP-DSP Option—◆ IP Extension Count of BGM
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Transfer to busy Extension w/o BSS Operation
- 5.27 [3-10] Conference Group
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
  PDF Output
- 6.5 [4-1-4] Wired Extension—Flexible Button—Display Option—Key Setting—◆ Extension Number (for Voice Mail Transfer)
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.17 [4-3] DSS Console
  PDF Output
- 13.6 [11-5] Air Synchronisation

14.1.15 KX-TDE600 PGMPR Software File Version 5.0xxx

New Contents

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ SIP Refer (Blind)
- 4.18 [2-9] System Options—Option 1—◆ PT Operation—One-touch Busy Override by SCO key
- 4.18 [2-9] System Options—Option 2—◆ CODEC—Priority Notification from SIP Network (for Incoming Call)
- 4.18 [2-9] System Options—Option 7
  - ◆ Incoming Call Log—Busy / Intercept (when Called Party is Busy)
  - ◆ Incoming Call Log—Fwd All / Fwd Busy
  - ◆ Incoming Call Log—Call Pickup
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Call Log to ICD Group when Overflow Destination Answered
- 5.19 [3-7-1] VM(DPT) Group—System Settings—◆ Overflow to Mailbox for Call to ICD Group
- 5.27 [3-10] Conference Group—◆ Automatic Answer w/o Extension Setting
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Automatic Recording
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Automatic Recording
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
  - ◆ FWD Availability for FWD/DND Key (CO)
  - ◆ DND Availability for FWD/DND Key (CO)
  - ◆ FWD Availability for FWD/DND Key (Extension)
  - ◆ DND Availability for FWD/DND Key (Extension)
- 13.1 [11-1] Main—SMDR Options—◆ Emergency Call Notification

Changed Contents

- 3.9 [1-1] Slot—Shelf Property - Virtual IP Gateway—Outgoing Call
  - En-bloc Dialling Setting deleted
- 3.23 [1-1] Slot—Card Property - Extension Type
  - ◆ SLT Power Supply (KX-TDE series only)
  - ◆ Hook Threshold PD A-law (KX-TDE series only)
  - ◆ Hook Threshold PD μ-law (KX-TDE series only)
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ Call Waiting Distribution

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Overflow Queuing Busy—◆ Queuing Busy—Queue Call Capacity
- 5.27 [3-10] Conference Group—◆ Ability to Talk
- 6.1 [4-1-1] Wired Extension—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)
- 6.10 [4-2-1] Portable Station—Extension Settings—ISDN CLIP—◆ ARS Itemised Code/2nd CLIP (10 digits)

14.1.16 KX-TDE600 PGMPR Software File Version 6.0xxx

New Contents

- 4.18 [2-9] System Options—Option 4—◆ DSS Key—Caller Information Display before Call Pick-up
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Overflow immediately when All Logout
- 10.6 [8-5] Carrier—TRG(Priority)

14.1.17 KX-TDE600 PGMPR Software File Version 7.xxxx

Changed Contents

- 1.2.1 Installing and Starting the Maintenance Console
- 2.1.2 Access Levels
- 2.6.19 Utility—File Transfer FTP to IP Equipment—IP-CS/NT400/NT500
- 2.6.20 Utility—File Transfer FTP to IP Equipment—NT3xx
- 2.6.21 Utility—Software Timed Update
  - Card Software
  - NT300
- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 3.17 [1-1] Slot—Card Property - Virtual SIP Extension
- 4.18 [2-9] System Options
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 7.3 [5-3-1] Voice Message—DISA System
- 8.6 [6-6] Tenant

Feature Programming References

Absent Message

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Absent Message Set / Cancel
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Absent Message
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Absent Message
- 8.5 [6-5] Absent Message

Feature Guide References
1.19.2 Absent Message

Account Code Entry

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Account Code Entry
- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Account Code Mode

Feature Guide References
1.5.4.3 Account Code Entry

Advice of Charge (AOC)

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References
1.21.1.3 Advice of Charge (AOC)

Automatic Callback Busy (Camp-on)

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Automatic Callback Busy Cancel
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature—◆ Automatic Callback Busy

Feature Guide References
1.8.1 Automatic Callback Busy (Camp-on)

Automatic Extension Release

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone
  - ◆ Dial—Extension First Digit
  - ◆ Dial—Extension Inter-digit
  - ◆ Tone Length—Reorder Tone for PT Handset
  - ◆ Tone Length—Reorder Tone for PT Hands-free

Feature Guide References
1.5.2 Automatic Extension Release

Automatic Route Selection (ARS)

- 2.5.9 Tool—Import
  - ARS - Leading Digit
  - ARS - Except Code
  - ARS - Routing Plan
- 2.5.10 Tool—Export
- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Extension Inter-digit
- 4.18 [2-9] System Options—Option 3—◆ Dial Tone—Dial Tone for ARS

- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ ARS Itemised Code/2nd CLIP (10 digits)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ ARS Itemised Code/2nd CLIP (10 digits)
- 8.3 [6-3] Verification Code—◆ Itemised Billing Code for ARS
- Section 10 [8] ARS
- 13.1 [11-1] Main—SMDR Options—◆ Option—ARS Dial

Feature Guide References
1.10.1 Automatic Route Selection (ARS)

Automatic Setup

- 2.5 Tool—2.5.2 Tool—BRI Automatic Configuration
- 4.2 [2-1-2] Date & Time—SNTP / Daylight Saving—◆ Automatic Time Adjustment

Feature Guide References
2.3.5 Automatic Setup

Background Music (BGM)

- 4.4 [2-2] Operator & BGM
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ External BGM On / Off
  - ◆ BGM Set / Cancel
- 4.20 [2-11-1] Audio Gain—Paging/MOH
  - ◆ MOH—MOH (Music On Hold) (for KX-NCP series)/MOH 1 (Music On Hold 1) (for KX-TDE series)
  - ◆ MOH—MOH 2 (Music On Hold 2) (KX-TDE series only)
- 7.2 [5-2] External Pager

Feature Guide References
1.17.4 Background Music (BGM)

Budget Management

- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Charge Limit
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Charge Limit
- 8.3 [6-3] Verification Code—◆ Budget Management
- 8.2 [6-2] Hotel & Charge—Charge—◆ Charge Options—Action at Charge Limit

Feature Guide References
1.9.2 Budget Management

Built-in Simplified Voice Message (SVM)

- 2.5.5 Tool—Simplified Voice Message—Delete All Recording
- 2.5.6 Tool—Simplified Voice Message—Check Current Usage
- 4.5 [2-3] Timers & Counters—Miscellaneous
  - ◆ SVM—Recording Time
  - ◆ SVM—Dial Tone Continuous Time
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Simplified Voice Message Access
- 5.1 [3-1-1] Trunk Group—TRG Settings—Tone Detection
  - ◆ Simplified Voice Message Tone Detection—Silence
  - ◆ Simplified Voice Message Tone Detection—Continuous
  - ◆ Simplified Voice Message Tone Detection—Cyclic
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 6—◆ Display Lock / SVM Lock

- 6.9 [4-1-7] Wired Extension—Simplified Voice Message
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 6—◆ SVM Lock
- 6.16 [4-2-5] Portable Station—Simplified Voice Message
- 7.5 [5-3-3] Voice Message—SVM

Feature Guide References
1.17.7 Built-in Simplified Voice Message (SVM)

Call Billing for Guest Room

- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension PIN
- 8.2 [6-2] Hotel & Charge—◆ Checkout Billing—LCD for "Telephone"
- 8.2 [6-2] Hotel & Charge—Charge
  - ◆ Margin & Tax—Margin Rate for "Telephone" (%)
  - ◆ Margin & Tax—Tax Rate for "Telephone" (%)
  - ◆ Margin & Tax—Tax Rate for "Minibar" (%)
  - ◆ Margin & Tax—Tax Rate for "Others" (%)

Feature Guide References
1.27.3 Call Billing for Guest Room

Call Charge Services

- 3.29 [1-1] Slot—Card Property - LCO type
  - ◆ Pay Tone—Pay Tone Frequency
  - ◆ Pay Tone—Sending Flash while end talk
- 5.6 [3-1-5] Trunk Group—Charge Rate
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type
- 8.2 [6-2] Hotel & Charge—Charge
  - ◆ Margin & Tax—Margin Rate for "Telephone" (%)
  - ◆ Margin & Tax—Tax Rate for "Telephone" (%)
  - ◆ Charge Options—Digits After Decimal Point
  - ◆ Charge Options—Currency
  - ◆ Charge Options—Currency Display Position
  - ◆ Charge Options—Action at Charge Limit
  - ◆ Charge Options—Meter Start on Answer Detection

Feature Guide References
1.26.3 Call Charge Services

Call Forwarding (CF)—by ISDN (P-MP)

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ ISDN-FWD (MSN) Set / Cancel / Confirm
- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ CF (MSN)

Feature Guide References
1.21.1.4 Call Forwarding (CF)—by ISDN (P-MP)

Call Forwarding (CF)—by ISDN (P-P)

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY

- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ ISDN-FWD (MSN) Set / Cancel / Confirm
- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ CF (MSN)

Feature Guide References
1.21.1.5 Call Forwarding (CF)—by ISDN (P-P)

Call Forwarding (CF)—by QSIG

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References
1.30.4.3 Call Forwarding (CF)—by QSIG

Call Forwarding (FWD)

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ FWD No Answer Timer Set
- 4.12 [2-7-1] Class of Service—COS Settings
  - CO & SMDR—◆ Call Forward to CO
  - Manager—◆ Group Forward Set
  - Optional Device & Other Extensions—◆ Remote Operation by Other Extension
- 5.1 [3-1-1] Trunk Group—TRG Settings—Main
  - ◆ CO-CO Duration Time (*60s)
  - ◆ Extension-CO Duration Time (*60s)
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Group Log / Group FWD
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.3 [4-1-2] Wired Extension—FWD/DND
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References
1.3.1.2 Call Forwarding (FWD)

Call Hold

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone
  - ◆ Recall—Hold Recall
  - ◆ Recall—Disconnect after Recall
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Call Hold / Call Hold Retrieve
  - ◆ Call Hold Retrieve : Specified with a Holding Extension Number
  - ◆ Hold Retrieve : Specified with a Held CO Line Number
- 4.18 [2-9] System Options
  - Option 1—◆ PT Operation—Automatic Hold by ICM / CO / ICD Group key
  - Option 1—◆ PT Operation—Hold Key Mode
  - Option 5—◆ SLT—SLT Hold Mode

Feature Guide References
1.13.1 Call Hold

Call Hold (HOLD)—by ISDN

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ ISDN Hold
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.21.1.6 Call Hold (HOLD)—by ISDN

Call Monitor

- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature—◆ Call Monitor
- 4.12 [2-7-1] Class of Service—COS Settings—Executive—◆ Call Monitor
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 2—◆ Data Mode
  - Option 3—◆ Executive Override Deny
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Executive Override Deny

Feature Guide References
1.8.3 Call Monitor

Call Park

- 4.5 [2-3] Timers & Counters
  - ◆ Recall—Call Park Recall
  - ◆ Recall—Disconnect after Recall
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Call Park / Call Park Retrieve
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Call Park)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Call Park)
  - ◆ Optional Parameter (or Ringing Tone Type Number) (for Call Park)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for Call Park)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Call Park)

Feature Guide References
1.13.2 Call Park

Call Pickup

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Group Call Pickup
  - ◆ Directed Call Pickup
  - ◆ Call Pickup Deny Set / Cancel
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Call Pickup by DSS
- 4.18 [2-9] System Options—Option 4
  - ◆ DSS Key—DSS key mode for Incoming Call
  - ◆ DSS Key—Call Pick-up by DSS key for Direct Incoming Call

  - ◆ DSS Key—Call Pick-up by DSS key for ICD Group Call
  - ◆ DSS Key—Caller Information Display before Call Pick-up
- 5.8 [3-3] Call Pickup Group
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Call Pickup Deny
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Call Pickup Deny

Feature Guide References
1.4.1.3 Call Pickup

Call Transfer

- 4.4 [2-2] Operator & BGM—◆ BGM and Music on Hold—Sound on Transfer
- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Recall—Transfer Recall
- 4.12 [2-7-1] Class of Service—COS Settings
  - CO & SMDR—◆ Transfer to CO
  - Assistant—◆ Transfer to busy Extension w/o BSS Operation
- 4.18 [2-9] System Options—Option 4—◆ DSS Key—Automatic Transfer for Extension Call
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Transfer Recall Destination
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Transfer Recall Destination

Feature Guide References
1.12.1 Call Transfer

Call Transfer (CT)—by ISDN

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References
1.21.1.7 Call Transfer (CT)—by ISDN

Call Transfer (CT)—by QSIG

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY
- 3.52 [1-1] Slot—Card Property - IP Gateway (KX-TDE series only)—◆ QSIG-CT

Feature Guide References
1.30.4.4 Call Transfer (CT)—by QSIG

Call Waiting

- 3.29 [1-1] Slot—Card Property - LCO type—◆ Caller ID—Caller ID Signalling
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Manual Call Waiting for Extension Call
  - ◆ Automatic Call Waiting
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature
  - ◆ BSS / OHCA / Whisper OHCA / DND Override
  - ◆ BSS / OHCA / Whisper OHCA / DND Override-2
- 4.18 [2-9] System Options—Option 5—◆ Call Waiting—Automatic Call Waiting for Extension Call

- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 2—◆ Manual C. Waiting for Extension Call
  - Option 2—◆ Automatic C. Waiting
  - Option 4—◆ Call Waiting Tone Type
- 6.10 [4-2-1] Portable Station—Extension Settings
  - Option 2—◆ Manual C. Waiting for Extension Call
  - Option 2—◆ Automatic C. Waiting
  - Option 4—◆ Call Waiting Tone Type

Feature Guide References
1.1.3.3 Call Waiting

Call Waiting Tone

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Caller ID—Visual Caller ID Display
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature
  - ◆ BSS / OHCA / Whisper OHCA / DND Override
  - ◆ BSS / OHCA / Whisper OHCA / DND Override-2
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 2—◆ Manual C. Waiting for Extension Call
  - Option 2—◆ Automatic C. Waiting
  - Option 4—◆ Call Waiting Tone Type
- 6.10 [4-2-1] Portable Station—Extension Settings
  - Option 2—◆ Manual C. Waiting for Extension Call
  - Option 2—◆ Automatic C. Waiting
  - Option 4—◆ Call Waiting Tone Type

Feature Guide References
1.8.5.2 Call Waiting Tone

Caller ID

- 4.5 [2-3] Timers & Counters—Miscellaneous
  - ◆ Caller ID—Waiting to receive
  - ◆ Caller ID—Visual Caller ID Display
- 4.18 [2-9] System Options—Option 4—◆ Private Network—Public Call through Private Network—Minimum Public Caller ID Digits
- 4.19 [2-10] Extension CID Settings
- 5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ Caller ID Modification Table
- 5.3 [3-1-3] Caller ID Modification
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 8
  - ◆ Extension Caller ID Sending
  - ◆ Incoming Call Wait Timer for Extension Caller ID
- 8.1 [6-1] System Speed Dial

Feature Guide References
1.18.1 Caller ID

Calling Line Identification (CLI) Distribution

- 8.1 [6-1] System Speed Dial
  - ◆ Name
  - ◆ CO Line Access Number + Telephone Number

  - ◆ CLI Destination
- 12.2 [10-2] DIL Table & Port Settings—CLI for DIL—◆ CLI Ring for DIL—Day, Lunch, Break, Night
- 12.3 [10-3] DDI / DID Table—◆ CLI Ring for DDI/DID—Day, Lunch, Break, Night
- 12.6 [10-4] MSN Table—◆ CLI Ring for MSN—Day, Lunch, Break, Night

Feature Guide References
1.1.1.5 Calling Line Identification (CLI) Distribution

Calling Party Control (CPC) Signal Detection

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ CPC Signal Detection Time—Outgoing, Incoming
- 3.38 [1-1] Slot—Port Property - T1 Port
  - ◆ CPC Signal Detection (DID)—Outgoing, Incoming
  - ◆ CPC Signal Detection (LCO/GCO)—Outgoing, Incoming
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ CPC Detection Time—Out, In
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)—◆ CPC Detection Time—Out (DID), In (DID)

Feature Guide References
1.11.10 Calling Party Control (CPC) Signal Detection

Calling/Connected Line Identification Presentation (CLIP/COLP)

- 3.33 [1-1] Slot—Port Property - BRI Port
  - ISDN CO—◆ Subscriber Number
  - Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port
  - CO Setting—◆ Subscriber Number
  - Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY
- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Subscriber Number
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Subscriber Number
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ COLR Set / Cancel
  - ◆ CLIR Set / Cancel
  - ◆ Switch CLIP of CO Line / Extension
- 4.18 [2-9] System Options—Option 4
  - ◆ Send CLIP of CO Caller—when call is transferred to CO (CLIP of Held Party)
  - ◆ Send CLIP of CO Caller—when call is forwarded to CO
  - ◆ Send CLIP of Extension Caller—when call is forwarded to CO
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ CLIP on ICD Group Button
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Main—◆ Extension Number
  - ISDN CLIP—◆ CLIP ID
  - ISDN CLIP—◆ CLIP on Extension/CO
  - ISDN CLIP—◆ CLIR
  - ISDN CLIP—◆ COLR
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.10 [4-2-1] Portable Station—Extension Settings
  - ISDN CLIP—◆ CLIP ID
  - ISDN CLIP—◆ CLIP on Extension/CO
  - ISDN CLIP—◆ CLIR

  - ISDN CLIP—◆ COLR
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.21.1.2 Calling/Connected Line Identification Presentation (CLIP/COLP)

Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ COLR Set / Cancel
  - ◆ CLIR Set / Cancel
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main
  - ◆ Extension Number
  - ◆ Extension Name
- 6.10 [4-2-1] Portable Station—Extension Settings—Main
  - ◆ Extension Number
  - ◆ Extension Name

Feature Guide References
1.30.4.2 Calling/Connected Line Identification Presentation (CLIP/COLP) and Calling/Connected Name Identification Presentation (CNIP/CONP)—by QSIG

Centralised Voice Mail

- 3.62 [1-3] Option—◆ New Card Installation—ISDN Standard Mode for PRI23 Card
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings—Centralised VM Unit Setting
- 11.1 [9-1] TIE Table—Enhanced QSIG
- 11.2 [9-2] Network Data Transmission
  - ◆ Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Counter
  - ◆ Network MSW Data Transmission for Centralised VM Feature—Data Re-transmission : Repeat Timer
- 13.1 [11-1] Main—Maintenance
  - ◆ Error Log for Centralised VM—Network MSW Transmission (Counter)
  - ◆ Error Log for Centralised VM—Network MSW Transmission (Buffer)

Feature Guide References
1.30.5.2 Centralised Voice Mail

Class of Service (COS)

- 4.12 [2-7-1] Class of Service—COS Settings
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS

Feature Guide References
2.2.1 Class of Service (COS)

Communication Assistant (CA)

- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)—Port Number—◆ Built-in Communication Assistant Server
- 4.12 [2-7-1] Class of Service—COS Settings—CA
- 4.18 [2-9] System Options—Option 6 (CTI)
  → ◆ Built-in Communication Assistant—System status retry interval timer
  → ◆ Built-in Communication Assistant—System status retry counter
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 9—◆ Built-in Communication Assistant
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 9—◆ Built-in Communication Assistant

Feature Guide References
1.32.3 CA (Communication Assistant)

Completion of Calls to Busy Subscriber (CCBS)

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service
  – ◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
  – CCBS Option
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service
  – ◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY
  – ◆ CCBS Type
  – ◆ CCBS Delete Digits

Feature Guide References
1.21.1.10 Completion of Calls to Busy Subscriber (CCBS)

Completion of Calls to Busy Subscriber (CCBS)—by QSIG

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References
1.30.4.5 Completion of Calls to Busy Subscriber (CCBS)—by QSIG

Computer Telephony Integration (CTI)

- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Dial Information (CTI)
- 4.18 [2-9] System Options—Option 6 (CTI)

Feature Guide References
1.32.1 Computer Telephony Integration (CTI)

Conference

- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf
  – ◆ Unattended Conference—Recall Start Timer
  – ◆ Unattended Conference—Warning Tone Start Timer
  – ◆ Unattended Conference—Disconnect Timer

- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Transfer to CO
- 4.18 [2-9] System Options—Option 2—◆ CO - CO Call Limitation—After Conference
- 4.18 [2-9] System Options—Option 3
  - ◆ Confirmation Tone—Tone 4-1 : Start Conference
  - ◆ Confirmation Tone—Tone 4-2 : Finish Conference
  - ◆ Echo Cancel—Conference
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.14.1.2 Conference

Conference Group Call

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Conference Group Call—Ring Duration
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Conference Group Call Operation
- 4.12 [2-7-1] Class of Service—COS Settings—Miscellaneous—◆ Conference Group Call Operation
- 5.27 [3-10] Conference Group
- 5.28 [3-10] Conference Group—Member List

Feature Guide References
1.15.1 Conference Group Call

Confirmation Tone

- 4.18 [2-9] System Options—Option 3
  - ◆ Confirmation Tone—Tone 1 : Called by Voice
  - ◆ Confirmation Tone—Tone 2 : Paged / Automatic Answer
  - ◆ Confirmation Tone—Tone 3-1 : Start Talking after Making Call / Call from Doorphone
  - ◆ Confirmation Tone—Tone 3-2 : Start Talking after Answering Call
  - ◆ Confirmation Tone—Tone 4-1 : Start Conference
  - ◆ Confirmation Tone—Tone 4-2 : Finish Conference
  - ◆ Confirmation Tone—Tone 5 : Hold

Feature Guide References
1.29.2 Confirmation Tone

DHCP

- 3.4 [1-1] Slot—Card Property - IPCMPR (for KX-NCP500/KX-NCP1000/KX-TDE100/KX-TDE200)/ IPCEMPR (for KX-TDE600)—◆ DHCP Client

Feature Guide References
2.4.5 Dynamic Host Configuration Protocol (DHCP) Assignment

Dial Tone

- 4.18 [2-9] System Options—Option 3
  - ◆ Dial Tone—Distinctive Dial Tone
  - ◆ Dial Tone—Dial Tone for Extension
  - ◆ Dial Tone—Dial Tone for ARS

Feature Guide References

1.29.1 Dial Tone

Dial Tone Transfer

- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)

Feature Guide References
1.9.4 Dial Tone Transfer

Dial Type Selection

- 3.30 [1-1] Slot—Port Property - LCO Port
  - ◆ Dialling Mode
  - ◆ DTMF Width
  - ◆ Pulse Speed
- 3.38 [1-1] Slot—Port Property - T1 Port
  - ◆ CO Dial Mode
  - ◆ DTMF Width
  - ◆ CO Pulse Speed
- 3.44 [1-1] Slot—Port Property - E1 Port
  - ◆ CO Dial Mode
  - ◆ DTMF Width
  - ◆ CO Pulse Speed
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)
  - ◆ Dialling Mode
  - ◆ DTMF Width
  - ◆ CO Pulse Speed
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)
  - ◆ Dialling Mode
  - ◆ DTMF Width
  - ◆ CO Pulse Speed

Feature Guide References
1.5.4.4 Dial Type Selection

Direct In Line (DIL)

- 12.2 [10-2] DIL Table & Port Settings—DIL
  - ◆ DIL Destination—Day, Lunch, Break, Night
  - ◆ Tenant Number
  - ◆ VM Trunk Group No.

Feature Guide References
1.1.1.2 Direct In Line (DIL)

Direct Inward Dialling (DID)/Direct Dialling In (DDI)

- 3.49 [1-1] Slot—Card Property - DID type (KX-TDE series only)
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Incoming Call Inter-digit Timer—DDI / DID
- 12.2 [10-2] DIL Table & Port Settings—DDI / DID / TIE / MSN
  - ◆ Distribution Method
  - ◆ DDI/DID/TIE/MSN—Remove Digit
  - ◆ DDI/DID/TIE/MSN—Additional Dial
- 12.3 [10-3] DDI / DID Table

Feature Guide References
1.1.1.3 Direct Inward Dialling (DID)/Direct Dialling In (DDI)

Direct Inward System Access (DISA)

- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf
  - ◆ DISA—Delayed Answer Timer
  - ◆ DISA—Mute & OGM Start Timer after answering
  - ◆ DISA—No Dial Intercept Timer
  - ◆ DISA—2nd Dial Timer for AA
  - ◆ DISA—Intercept Timer—Day, Lunch, Break, Night
  - ◆ DISA—Disconnect Timer after Intercept
  - ◆ DISA—CO-to-CO Call Prolong Counter
  - ◆ DISA—CO-to-CO Call Prolong Time
  - ◆ DISA—Progress Tone Continuation Time before Recording Message
  - ◆ DISA—Reorder Tone Duration
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Extension PIN—Lock Counter
- 4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Accept the Call from DISA
- 5.1 [3-1-1] Trunk Group—TRG Settings—Tone Detection
  - ◆ DISA Tone Detection—Silence
  - ◆ DISA Tone Detection—Continuous
  - ◆ DISA Tone Detection—Cyclic
- 6.1 [4-1-1] Wired Extension—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night
- 6.10 [4-2-1] Portable Station—Extension Settings—Intercept Destination—◆ Intercept Destination—When called party does not answer—Day, Lunch, Break, Night
- 7.3 [5-3-1] Voice Message—DISA System
- 7.4 [5-3-2] Voice Message—DISA Message

Feature Guide References
1.17.6 Direct Inward System Access (DISA)

Display Information

- 4.18 [2-9] System Options—Option 5—◆ PT Feature Access—No. 1–8
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 5
  - ◆ Display Language
  - ◆ Incoming Call Display
  - ◆ Automatic LCD Switch when Start Talking
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 5
  - ◆ Display Language
  - ◆ Incoming Call Display

  - ◆ Automatic LCD Switch when Start Talking
- 8.2 [6-2] Hotel & Charge—Charge
  - ◆ Charge Options—Digits After Decimal Point
  - ◆ Charge Options—Currency
  - ◆ Charge Options—Currency Display Position
- 12.1 [10-1] CO Line Settings—◆ CO Name

Feature Guide References
1.20.4 Display Information

Do Not Disturb (DND)

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Tone Length—Busy Tone / DND Tone
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature
  - ◆ BSS / OHCA / Whisper OHCA / DND Override
  - ◆ BSS / OHCA / Whisper OHCA / DND Override-2
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ DND Override
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.3 [4-1-2] Wired Extension—FWD/DND
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.12 [4-2-2] Portable Station—FWD/DND

Feature Guide References
1.3.1.3 Do Not Disturb (DND)

Door Open

- 3.58 [1-1] Slot—OPB3 Card Property—◆ Device Type
- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf—◆ Doorphone—Open Duration
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Door Open
- 4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Door Unlock

Feature Guide References
1.17.2 Door Open

Doorphone Call

- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf
  - ◆ Doorphone—Call Ring Duration
  - ◆ Doorphone—Call Duration
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Doorphone Call
- 4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level—Day, Lunch, Break, Night
- 4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone
- 4.18 [2-9] System Options—Option 3—◆ Confirmation Tone—Tone 1 : Called by Voice
- 7.1 [5-1] Doorphone

Feature Guide References
1.17.1 Doorphone Call

E1 Line Service

- 3.44 [1-1] Slot—Port Property - E1 Port
- 3.45 [1-1] Slot—Port Property - E1 Port—Connection Command

Feature Guide References
1.22.1 E1 Line Service

Emergency Call

- 9.4 [7-4] Emergency Dial

Feature Guide References
1.5.4.2 Emergency Call

Executive Busy Override

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Executive Override Deny Set / Cancel
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature—◆ Executive Busy Override
- 4.12 [2-7-1] Class of Service—COS Settings—Executive
  - ◆ Executive Busy Override
  - ◆ Executive Busy Override Deny
- 4.18 [2-9] System Options—Option 1—◆ PT Operation—One-touch Busy Override by SCO key
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 3—◆ Executive Override Deny
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 3—◆ Executive Override Deny

Feature Guide References
1.8.2 Executive Busy Override

Extension Dial Lock

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Extension Dial Lock Set / Cancel
  - ◆ Remote Extension Dial Lock Off
  - ◆ Remote Extension Dial Lock On
- 4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level on Extension Lock

Feature Guide References
1.9.3 Extension Dial Lock

Extension Feature Clear

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Extension Feature Clear
- 4.18 [2-9] System Options—Option 2
  - ◆ Extension Clear—Call Waiting
  - ◆ Extension Clear—Fwd/DND
  - ◆ Extension Clear—Hot Line (Pickup Dial)

Feature Guide References
1.28.2 Extension Feature Clear

Extension Personal Identification Number (PIN)

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Extension PIN—Lock Counter
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Extension PIN Set / Cancel
- 4.18 [2-9] System Options—Option 1—◆ PT LCD—Password / PIN Display
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension PIN
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ Extension PIN

Feature Guide References

1.28.1 Extension Personal Identification Number (PIN)

Extension Port Configuration

- 3.24 [1-1] Slot—Port Property - Extension Port
- 6.17 [4-3] DSS Console—◆ Pair Extension

Feature Guide References
2.1.1 Extension Port Configuration

External Feature Access (EFA)

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Flash Time
- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Flash Time
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Flash Time
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)—◆ Flash Time
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)—◆ Flash Time
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ External Feature Access
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 7—◆ Flash Mode during CO Conversation
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 7—◆ Flash Mode during CO Conversation
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type
- 9.5 [7-5] Miscellaneous—◆ TRS Check after EFA

Feature Guide References
1.11.7 External Feature Access (EFA)

External Relay Control

- 3.58 [1-1] Slot—OPB3 Card Property—◆ Device Type
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ External Relay Access
- 4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ External Relay Access
- 7.6 [5-4] External Relay

Feature Guide References
1.17.10 External Relay Control

External Sensor

- 3.58 [1-1] Slot—OPB3 Card Property
  - ◆ Input Signal Decision Time
  - ◆ Input Signal Detection Reopening Time
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ External Sensor—Ring Duration
- 4.17 [2-8-3] Ring Tone Patterns—Call from Others—◆ External Sensor—Ring Tone Pattern Plan 1–8
- 7.7 [5-5] External Sensor

Feature Guide References
1.17.9 External Sensor

Flash/Recall/Terminate

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Disconnect Time
- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Disconnect Time

- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Disconnect Time
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)—◆ Disconnect Time
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)—◆ Disconnect Time
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 7—◆ Flash Mode during CO Conversation
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 7—◆ Flash Mode during CO Conversation
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.11.6 Flash/Recall/Terminate

Flexible Buttons

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ PT Display—PT Last Display Duration in Idle Mode
- 6.5 [4-1-4] Wired Extension—Flexible Button
- 6.6 [4-1-4] Wired Extension—Flexible Button—Flexible button data copy
- 6.7 [4-1-5] Wired Extension—PF Button
- 6.13 [4-2-3] Portable Station—Flexible Button
- 6.17 [4-3] DSS Console

Feature Guide References
1.20.2 Flexible Buttons

Flexible Numbering/Fixed Numbering

- 4.9 [2-6-1] Numbering Plan—Main
  - Extension
  - Features
  - Other PBX Extension
- 4.10 [2-6-2] Numbering Plan—Quick Dial
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature

Feature Guide References
2.3.6 Flexible Numbering/Fixed Numbering

Floating Extension

- 4.9 [2-6-1] Numbering Plan—Main—Extension
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main
  - ◆ Floating Extension Number
  - ◆ Group Name
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings—◆ Floating Extension No.
- 5.23 [3-8-2] VM(DTMF) Group—Group Settings—◆ Floating Ext. No.
- 5.25 [3-9] PS Ring Group—◆ Floating Extension Number
- 7.2 [5-2] External Pager—◆ "Page Number 1, Page Number 2—Floating Extension Number
- 7.4 [5-3-2] Voice Message—DISA Message—◆ Floating Extension Number
- 13.1 [11-1] Main—Remote
  - ◆ Remote—Analogue Remote (Modem) Floating Extension Number
  - ◆ Remote—ISDN Remote Floating Extension Number

Feature Guide References
2.3.7 Floating Extension

FWD/DND Button, Group FWD Button

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ FWD/DND Set / Cancel: Call from CO & Extension
  - ◆ FWD/DND Set / Cancel: Call from CO
  - ◆ FWD/DND Set / Cancel: Call from Extension
  - ◆ Group FWD Set / Cancel: Call from CO & Extension
  - ◆ Group FWD Set / Cancel: Call from CO
  - ◆ Group FWD Set / Cancel: Call from Extension
- 4.18 [2-9] System Options—Option 1
  - ◆ PT Fwd / DND—Fwd LED
  - ◆ PT Fwd / DND—DND LED
  - ◆ PT Fwd / DND—Fwd/DND key mode when Idle
- 6.1 [4-1-1] Wired Extension—Extension Settings—FWD / DND
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Group Fwd (Both))
  - ◆ Extension Number (for Group Fwd (External))
  - ◆ Extension Number (for Group Fwd (Internal))
- 6.10 [4-2-1] Portable Station—Extension Settings—FWD / DND Reference
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Group Fwd (Both))
  - ◆ Extension Number (for Group Fwd (External))
  - ◆ Extension Number (for Group Fwd (Internal))
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Extension Number (for Group Fwd (Both))
  - ◆ Extension Number (for Group Fwd (External))
  - ◆ Extension Number (for Group Fwd (Internal))

Feature Guide References
1.3.1.4 FWD/DND Button, Group FWD Button

Group

- Section 5 [3] Group

Feature Guide References
2.2.2 Group

Group Call Distribution

- 5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ Line Hunting Order
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
  - Main—◆ Distribution Method
  - Main—◆ Call Waiting Distribution
  - Miscellaneous—◆ Extension No Answer Redirection Time
  - Miscellaneous—◆ Maximum No. of Busy Extension
- 5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Delayed Ring
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous
  - ◆ Options—Wrap-up Timer based on
  - ◆ Options—Longest Idle Distribution (Activation Key Required)

- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 8—◆ Wrap-up Timer
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 8—◆ Wrap-up Timer

Feature Guide References
1.2.2.2 Group Call Distribution

Hands-free Answerback

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Tone Length—Reorder Tone for PT Hands-free
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ Automatic Answer (Caller)
- 4.18 [2-9] System Options
  - Option 1—◆ PT Operation—Automatic Answer for Call from CO after
  - Option 3—◆ Confirmation Tone—Tone 2 : Paged / Automatic Answer
  - Option 4—◆ Transfer—Automatic Answer for Transferred Call
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 5—◆ Automatic Answer for CO Call
  - Option 6—◆ Forced Automatic Answer

Feature Guide References
1.4.1.4 Hands-free Answerback

Hands-free Operation

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Tone Length—Reorder Tone for PT Hands-free
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 4—◆ LCS Answer Mode

Feature Guide References
1.11.1 Hands-free Operation

Headset Operation

- 3.24 [1-1] Slot—Port Property - Extension Port—◆ Headset OFF/ON
- 3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)—IP-PT Registration and De-registration—◆ Headset OFF/ON
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.11.4 Headset Operation

Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

- 5.1 [3-1-1] Trunk Group—TRG Settings—Host PBX Access Code
- 13.1 [11-1] Main—SMDR Options—◆ Option—ARS Dial

Feature Guide References
1.5.4.8 Host PBX Access Code (Access Code to the Telephone Company from a Host PBX)

Hot Line

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Hot Line (Pickup Dial) Start
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Hot Line (Pickup Dial) Program Set / Cancel
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 2

  - ◆ Pickup Dial Set
  - ◆ Pickup Dial No.
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 2
  - ◆ Pickup Dial Set
  - ◆ Pickup Dial No.

Feature Guide References
1.6.1.7 Hot Line

Idle Extension Hunting

- 5.17 [3-6] Extension Hunting Group
- 5.18 [3-6] Extension Hunting Group—Member List

Feature Guide References
1.2.1 Idle Extension Hunting

Incoming Call Distribution Group Features

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
  - Main
  - Overflow Queuing Busy
  - Overflow No Answer
  - Miscellaneous
- 5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous

Feature Guide References
1.2.2 Incoming Call Distribution Group Features

Incoming Call Log

- 4.18 [2-9] System Options—Option 7
  - ◆ Incoming Call Log—Busy / Intercept (when Called Party is Busy)
  - ◆ Incoming Call Log—Fwd All / Fwd Busy
  - ◆ Incoming Call Log—Call Pickup
  - ◆ Incoming Call Log—Extension/TIE Call
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ Supervisor Extension Number
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous
  - ◆ Options—Call Log to ICD Group when ICD Member Answered
  - ◆ Options—Call Log to ICD Group when Overflow Destination Answered
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 5—◆ Incoming Call Display
  - Option 6—◆ Display Lock / SVM Lock
  - Option 7—◆ Incoming Call Log Memory
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.10 [4-2-1] Portable Station—Extension Settings
  - Option 5—◆ Incoming Call Display
  - Option 7—◆ Incoming Call Log Memory
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References

1.18.2 Incoming Call Log

Integrated Services Digital Network (ISDN)

- 2.5.2 Tool—BRI Automatic Configuration
- 3.32 [1-1] Slot—Card Property - BRI type/PRI type
- 3.33 [1-1] Slot—Port Property - BRI Port
- 3.34 [1-1] Slot—Port Property - BRI Port—Connection Command
- 3.35 [1-1] Slot—Port Property - PRI Port
- 3.36 [1-1] Slot—Port Property - PRI Port—Connection Command
- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Extension Inter-digit
- 4.18 [2-9] System Options—Option 2—◆ ISDN en Bloc Dial—[#] as End of Dial for en Bloc mode
- 5.5 [3-1-4] Dialling Plan—Auto Assign
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Main—◆ Extension Number
  - Option 7—◆ ISDN Bearer
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 7—◆ ISDN Bearer

Feature Guide References
1.21.1 Integrated Services Digital Network (ISDN)

Intercept Routing

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Intercept Routing No Answer (IRNA)—Day, Lunch, Break, Night
- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf—◆ DISA—Intercept Timer—Day, Lunch, Break, Night
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Overflow No Answer—◆ Time out & Manual Queue Redirection—Destination-Day, Lunch, Break, Night
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Intercept Destination
  - Intercept No Answer Time
- 6.10 [4-2-1] Portable Station—Extension Settings
  - Intercept Destination
  - Intercept No Answer Time
- 12.7 [10-5] Miscellaneous

Feature Guide References
1.1.1.6 Intercept Routing

Intercept Routing—No Destination

- 4.4 [2-2] Operator & BGM—◆ PBX Operator—Day, Lunch, Break, Night
- 12.7 [10-5] Miscellaneous—◆ Intercept—Routing to Operator - No Destination (Destination is not programmed.)

Feature Guide References
1.1.1.7 Intercept Routing—No Destination

Intercom Call

- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature—◆ Alternate Calling - Ring / Voice
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Main—◆ Extension Number

  - Main—◆ Extension Name
  - Option 3—◆ Intercom Call by Voice
- 6.10 [4-2-1] Portable Station—Extension Settings—Main
  - ◆ Extension Number
  - ◆ Extension Name

Feature Guide References
1.5.3 Intercom Call

Internal Call Block

- 4.14 [2-7-3] Class of Service—Internal Call Block—◆ COS Number of the Extension Which Receive the Call from Other Extension 1–64
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ COS
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
- 7.1 [5-1] Doorphone—◆ COS
- 7.6 [5-4] External Relay—◆ COS Number

Feature Guide References
1.1.2.2 Internal Call Block

Internal Call Features

- 7.1 [5-1] Doorphone—◆ Destination—Day, Lunch, Break, Night

Feature Guide References
1.1.2 Internal Call Features

IP Proprietary Telephone (IP-PT)

- 3.14 [1-1] Slot—Card Property - Virtual IP Extension
- 3.15 [1-1] Slot—Port Property - Virtual IP Extension
- 3.55 [1-1] Slot—Card Property - IP Extension (KX-TDE series only)
- 3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)

Feature Guide References
1.31.1 IP Proprietary Telephone (IP-PT)

ISDN Extension

- 3.33 [1-1] Slot—Port Property - BRI Port—ISDN Extension
- 3.35 [1-1] Slot—Port Property - PRI Port—Extension Setting

Feature Guide References
1.21.1.11 ISDN Extension

ISDN Service Access by Keypad Protocol

- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Dial (for ISDN Service)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Dial (for ISDN Service)

- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Dial (for ISDN Service)

Feature Guide References
1.21.1.12 ISDN Service Access by Keypad Protocol

ISDN Virtual Private Network (ISDN-VPN)

- 3.33 [1-1] Slot—Port Property - BRI Port—Network Numbering Plan—◆ Trunk Property
- 3.35 [1-1] Slot—Port Property - PRI Port—Network Numbering Plan—◆ Trunk Property
- 10.2 [8-2] Leading Number—◆ Leading Number
- 11.1 [9-1] TIE Table
  - ◆ Leading Number
  - ◆ Removed Number of Digits
  - ◆ Added Number

Feature Guide References
1.30.3 ISDN Virtual Private Network (ISDN-VPN)

KX-T7710 One-touch Dialling

- 4.9 [2-6-1] Numbering Plan—Main—KX-T7710

Feature Guide References
1.6.1.3 KX-T7710 One-touch Dialling

Last Number Redial

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone
  - ◆ Automatic Redial—Repeat Counter
  - ◆ Automatic Redial—Repeat Interval
  - ◆ Automatic Redial—Redial Call Ring Duration
  - ◆ Automatic Redial—Analogue CO Mute / Busy Detection Timer
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Redial
- 4.18 [2-9] System Options—Option 2
  - ◆ Redial—Automatic Redial when No Answer (ISDN)
  - ◆ Redial—Save Dial After Connection to Redial Memory
  - ◆ Redial—Call Log by Redial key
- 4.18 [2-9] System Options—Option 7
  - ◆ Outgoing Call Log—Extension Call
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 7—◆ Outgoing Call Log Memory
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 7—◆ Outgoing Call Log Memory

Feature Guide References
1.6.1.4 Last Number Redial

LED Indication

- 4.18 [2-9] System Options
  - Option 1—◆ PT Fwd / DND—Fwd LED
  - Option 1—◆ PT Fwd / DND—DND LED
  - Option 4—◆ DSS Key—DSS key mode for Incoming Call

Feature Guide References
1.20.3 LED Indication

Line Preference—Incoming

- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 4—◆ Incoming Preferred Line
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 4—◆ Incoming Preferred Line

Feature Guide References
1.4.1.2 Line Preference—Incoming

Line Preference—Outgoing

- 4.13 [2-7-2] Class of Service—External Call Block
- 5.2 [3-1-2] Trunk Group—Local Access Priority
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 4—◆ Outgoing Preferred Line
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 4—◆ Outgoing Preferred Line

Feature Guide References
1.5.5.2 Line Preference—Outgoing

Local Alarm Information

- 2.6.7 Utility—Message File Transfer PBX to PC
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type
- 13.1 [11-1] Main
  - SMDR—◆ Print Information—Error Log
  - Maintenance—◆ Local Alarm Display—Extension 1, Extension 2
  - Maintenance—◆ Daily Test Start Time—Set
  - Maintenance—◆ Daily Test Start Time—Hour
  - Maintenance—◆ Daily Test Start Time—Minute

Feature Guide References
2.4.3 Local Alarm Information

Log-in/Log-out

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Log-in / Log-out
  - ◆ Not Ready (Manual Wrap-up) Mode On / Off
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous
  - ◆ No. of Unanswered Calls for Automatic Log-out
  - ◆ Last Extension Log-out
- 5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Wrap-up Timer
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Wrap-up Timer based on
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 8—◆ Wrap-up Timer
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Log-in/Log-out)
  - ◆ Extension Number (for Log-in/Log-out)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 8—◆ Wrap-up Timer
- 6.13 [4-2-3] Portable Station—Flexible Button

  - ◆ Type
  - ◆ Parameter Selection (for Log-in/Log-out)
  - ◆ Extension Number (for Log-in/Log-out)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for Log-in/Log-out)
  - ◆ Extension Number (for Log-in/Log-out)
- 13.1 [11-1] Main—SMDR—◆ Print Information—Log-in / Log-out

Feature Guide References
1.2.2.7 Log-in/Log-out

Malicious Call Identification (MCID)

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ MCID

Feature Guide References
1.21.1.9 Malicious Call Identification (MCID)

Manager Features

- 4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager
- 13.1 [11-1] Main—Password—◆ Manager Password - PT Programming—Prog *1

Feature Guide References
2.2.6 Manager Features

Message Waiting

- 3.23 [1-1] Slot—Card Property - Extension Type—◆ SLT Power Supply (KX-TDE series only)
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Message Waiting Set / Cancel / Call Back
- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature—◆ Message Waiting Set
- 4.18 [2-9] System Options
  - Option 3—◆ Dial Tone—Distinctive Dial Tone
  - Option 5—◆ SLT—Message Waiting Lamp Pattern (KX-TDE series only)
- 5.22 [3-8-1] VM(DTMF) Group—System Settings—◆ VM DTMF Command—Listening Message
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 8—◆ SLT MW Mode (KX-TDE series only)
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.19.1 Message Waiting

Multiple Subscriber Number (MSN) Ringing Service

- 12.2 [10-2] DIL Table & Port Settings—DDI / DID / TIE / MSN
  - ◆ Distribution Method
  - ◆ DDI/DID/TIE/MSN—Remove Digit
  - ◆ DDI/DID/TIE/MSN—Additional Dial
- 12.6 [10-4] MSN Table

Feature Guide References
1.1.1.4 Multiple Subscriber Number (MSN) Ringing Service

Music on Hold

- 4.4 [2-2] Operator & BGM
- 4.20 [2-11-1] Audio Gain—Paging/MOH
  - ◆ MOH—MOH (Music On Hold) (for KX-NCP series)/MOH 1 (Music On Hold 1) (for KX-TDE series)
  - ◆ MOH—MOH 2 (Music On Hold 2) (KX-TDE series only)

Feature Guide References
1.13.4 Music on Hold

Network Direct Station Selection (NDSS)

- 3.33 [1-1] Slot—Port Property - BRI Port—ISDN CO—◆ Networking Data Transfer
- 3.35 [1-1] Slot—Port Property - PRI Port—CO Setting—◆ Networking Data Transfer
- 4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Dial (for NDSS)
- 6.8 [4-1-6] Wired Extension—NDSS Link Data - Send
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Dial (for NDSS)
- 6.15 [4-2-4] Portable Station—NDSS Link Data - Send
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Dial (for NDSS)
- 11.2 [9-2] Network Data Transmission
- 11.3 [9-3] Network Operator (VoIP)
- 11.4 [9-4] NDSS Key Table

Feature Guide References
1.30.5.1 Network Direct Station Selection (NDSS)

Network ICD Group

- 4.18 [2-9] System Options—Option 4
  - ◆ Send CLIP of CO Caller—when call is forwarded to CO
  - ◆ Send CLIP of Extension Caller—when call is forwarded to CO

Feature Guide References
1.30.6 Network ICD Group

Off-hook Call Announcement (OHCA)

- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature
  - ◆ BSS / OHCA / Whisper OHCA / DND Override
  - ◆ BSS / OHCA / Whisper OHCA / DND Override-2
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ OHCA / Whisper OHCA

Feature Guide References
1.8.5.3 Off-hook Call Announcement (OHCA)

Off-hook Monitor

- 4.18 [2-9] System Options—Option 1—◆ PT Operation—Off Hook Monitor for KX-T74xx/T75xx/T76xx

Feature Guide References
1.11.2 Off-hook Monitor

One-touch Dialling

- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 6—◆ Flexible Button Programming Mode
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Dial (for One-touch)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 6—◆ Flexible Button Programming Mode
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Dial (for One-touch)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Dial (for One-touch)

Feature Guide References
1.6.1.2 One-touch Dialling

Operator Features

- 4.4 [2-2] Operator & BGM—◆ PBX Operator—Day, Lunch, Break, Night
- 8.6 [6-6] Tenant—◆ Operator (Extension Number)

Feature Guide References
2.2.5 Operator Features

Outgoing Message (OGM)

- 2.6.6 Utility—Message File Transfer PC to PBX
- 2.6.7 Utility—Message File Transfer PBX to PC
- 4.4 [2-2] Operator & BGM
- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf—◆ DISA—Progress Tone Continuation Time before Recording Message
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ OGM Record / Clear / Playback
- 5.14 [3-5-1] Incoming Call Distribution Group—Group Settings—Member List—◆ Delayed Ring
- 5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table—◆ Queuing Sequence—Sequence 01–16
- 7.4 [5-3-2] Voice Message—DISA Message—◆ Floating Extension Number

Feature Guide References
1.17.5 Outgoing Message (OGM)

Outside Destinations in Incoming Call Distribution Group

- 4.18 [2-9] System Options—Option 4
  - ◆ Send CLIP of CO Caller—when call is forwarded to CO
  - ◆ Send CLIP of Extension Caller—when call is forwarded to CO

Feature Guide References
1.2.2.3 Outside Destinations in Incoming Call Distribution Group

Overflow Feature

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
  - Overflow Queuing Busy
  - Overflow No Answer
- 5.15 [3-5-2] Incoming Call Distribution Group—Queuing Time Table
- 5.16 [3-5-3] Incoming Call Distribution Group—Miscellaneous—◆ Options—Overflow immediately when All Logout

Feature Guide References
1.2.2.6 Overflow Feature

Paging

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Group Paging
  - ◆ Group Paging Answer
  - ◆ Paging Deny Set / Cancel
- 4.18 [2-9] System Options
  - Option 1—◆ PT Fwd / DND—Paging to DND Extension
  - Option 3—◆ Confirmation Tone—Tone 2 : Paged / Automatic Answer
- 4.20 [2-11-1] Audio Gain—Paging/MOH
  - ◆ Paging—EPG (External Pager) (for KX-NCP series)/EPG 1 (External Pager 1) (for KX-TDE series)
  - ◆ Paging—EPG 2 (External Pager 2) (KX-TDE series only)
  - ◆ Paging—Paging Level from PT Speaker
- 5.10 [3-4] Paging Group
- 5.11 [3-4] Paging Group—All Setting
- 5.12 [3-4] Paging Group—External Pager
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 6—◆ Paging Deny

Feature Guide References
1.16.1 Paging

Parallelled Telephone

- 3.23 [1-1] Slot—Card Property - Extension Type—◆ APT/SLT Parallel Ring
- 3.24 [1-1] Slot—Port Property - Extension Port
  - ◆ XDP Mode
  - ◆ Parallel Telephone Ringing
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Parallel Telephone (Ring) Mode Set / Cancel

Feature Guide References
1.11.9 Parallelled Telephone

Password Security

- 2.1.2 Access Levels
- 13.1 [11-1] Main—Password

Feature Guide References
2.3.3 Password Security

Pause Insertion

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Pause Time

- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Pause Time
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Pause Time
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)—◆ Pause Time
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)—◆ Pause Time
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ During Conversation—Pause Signal Time
- 8.4 [6-4] Second Dial Tone

Feature Guide References
1.5.4.7 Pause Insertion

PC Phone/PC Console

- 3.24 [1-1] Slot—Port Property - Extension Port
  - ◆ DPT Type—Type
  - ◆ DPT Type—Location No.

Feature Guide References
1.32.2 PC Phone/PC Console

PDN (Primary Directory Number)/SDN (Secondary Directory Number) Extension

- 4.12 [2-7-1] Class of Service—COS Settings—PDN/SDN
- 4.18 [2-9] System Options
  - Option 4—◆ System Wireless—SDN Delayed Ringing with LCD
  - Option 6 (CTI)—◆ CTI Hold—Forced Idle when Hold by PDN/SDN Key
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for SDN)
  - ◆ Extension Number (for SDN)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for SDN)
  - ◆ Extension Number (for SDN)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for SDN)
  - ◆ Extension Number (for SDN)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Loop CO, Single CO, Group CO, ICD Group, SDN)

Feature Guide References
1.7.1 Primary Directory Number (PDN)/Secondary Directory Number (SDN) Extension

Ping

- 2.6.18 Utility—Ping

Feature Guide References
2.4.6 Packet Internet Groper (PING) Confirmation

Portable Station (PS) Connection

- 3.61 [1-2] Portable Station

Feature Guide References
1.25.1 Portable Station (PS) Connection

Power Failure Transfer

- 13.3 [11-3] Power Failure Transfer

Feature Guide References
2.4.1 Power Failure Transfer

Printing Message

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Printing Message
- 8.2 [6-2] Hotel & Charge—Main—◆ SMDR for External Hotel Application 2—Printing Message 1–8

Feature Guide References
1.26.2 Printing Message

Privacy Release

- 4.18 [2-9] System Options—Option 1—◆ PT Operation—Privacy Release by SCO key
- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.13 [4-2-3] Portable Station—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type

Feature Guide References
1.14.1.3 Privacy Release

PS Directory

- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension Name
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ Extension Name
- 8.1 [6-1] System Speed Dial
  - ◆ Name
  - ◆ CO Line Access Number + Telephone Number

Feature Guide References
1.25.3 PS Directory

PS Ring Group

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ Distribution Method
- 5.25 [3-9] PS Ring Group
- 5.26 [3-9] PS Ring Group—Member List

Feature Guide References
1.25.2 PS Ring Group

PS Roaming by Network ICD Group

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ System Wireless—PS Out of Range Timer
- 4.18 [2-9] System Options—Option 4—◆ System Wireless—Out of Range Registration

Feature Guide References
1.30.6.1 PS Roaming by Network ICD Group

PT Programming

- 4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Programming Mode Level
- 13.1 [11-1] Main—Password
  - ◆ System Password - PT Programming—Prog ** : User Level
  - ◆ System Password - PT Programming—Prog *# : Administrator Level
  - ◆ Manager Password - PT Programming—Prog *1

Feature Guide References
2.3.2 PT Programming

QSIG Enhanced Features

- 4.18 [2-9] System Options—Option 2—◆ CO - CO Call Limitation—After Conference
- 11.1 [9-1] TIE Table—Enhanced QSIG

Feature Guide References
1.30.5 QSIG Enhanced Features

Queuing Feature

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Incoming Call Queue Monitor
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings
  - Overflow Queuing Busy
  - Overflow No Answer
  - Queuing Time Table
  - Miscellaneous—◆ Extension No Answer Redirection Time
  - Miscellaneous—◆ Maximum No. of Busy Extension
- 5.19 [3-7-1] VM(DPT) Group—System Settings—◆ Call Waiting on VM Group
- 5.22 [3-8-1] VM(DTMF) Group—System Settings—◆ Others—Call Waiting on VM Group
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Hurry-up)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Hurry-up)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Extension Number (for Hurry-up)

Feature Guide References
1.2.2.4 Queuing Feature

Quick Dialling

- 4.10 [2-6-2] Numbering Plan—Quick Dial

Feature Guide References
1.6.1.6 Quick Dialling

Reverse Circuit

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Reverse Detection

Feature Guide References
1.5.4.5 Reverse Circuit

Ring Tone Pattern Selection

- 4.15 [2-8-1] Ring Tone Patterns—Call from CO—◆ Ring Tone Pattern Plan 1–8
- 4.16 [2-8-2] Ring Tone Patterns—Call from Doorphone—◆ Ring Tone Pattern Plan 1–8
- 4.17 [2-8-3] Ring Tone Patterns—Call from Others—◆ Extension—Ring Tone Pattern Plan 1–8
- 4.18 [2-9] System Options—Option 1—◆ PT Operation—PT Ring Off Setting
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Ring Pattern Table
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Ring Pattern Table

Feature Guide References
1.1.3.2 Ring Tone Pattern Selection

Room Status Control

- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Type
- 6.17 [4-3] DSS Console—◆ Type
- 8.2 [6-2] Hotel & Charge
  - Main—◆ Hotel Operator—Extension 1–4
  - Bill—◆ Checkout Billing—Billing for Guest

Feature Guide References
1.27.2 Room Status Control

Self Labelling (KX-NT366/KX-NT560)

- 6.5 [4-1-4] Wired Extension—Flexible Button—◆ Label Name

Feature Guide References
1.31.4 Self Labelling (KX-NT366/KX-NT560)

SIP (Session Initiation Protocol) Extension

- 3.17 [1-1] Slot—Card Property - Virtual SIP Extension
- 3.18 [1-1] Slot—Port Property - Virtual SIP Extension Port
- 3.19 [1-1] Slot—Port Property - Virtual SIP Extension Port—Connection Command

Feature Guide References
1.31.2 SIP (Session Initiation Protocol) Extension

SNMP (Simple Network Management Protocol)

- 13.4 [11-4-1] SNMP—System Setting
- 13.5 [11-4-2] SNMP—Manager

Feature Guide References
2.4.4 Simple Network Management Protocol (SNMP) System Monitor

Software Upgrading

- 2.6.2 Utility—File Transfer PC to PBX (SD Card)

Feature Guide References
2.3.8 Software Upgrading

Special Carrier Access Code

- 9.3 [7-3] Special Carrier

Feature Guide References
1.5.4.9 Special Carrier Access Code

Speed Dialling—Personal/System

- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ System Speed Dialling / Personal Speed Dialling
  - ◆ Personal Speed Dialling - Programming
- 4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level for System Speed Dialling
- 6.4 [4-1-3] Wired Extension—Speed Dial
- 8.1 [6-1] System Speed Dial
- 8.6 [6-6] Tenant—◆ System Speed Dial

Feature Guide References
1.6.1.5 Speed Dialling—Personal/System

Station Message Detail Recording (SMDR)

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Dial—Analogue CO Call Duration Start
- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Outgoing CO Call Printout (SMDR)
- 8.2 [6-2] Hotel & Charge
  - Main—◆ SMDR for External Hotel Application 2—Printing Message 1–8
  - Charge—◆ Charge Options—Currency
- 13.1 [11-1] Main
  - SMDR
  - SMDR Options
  - RS-232C

Feature Guide References
1.26.1.1 Station Message Detail Recording (SMDR)

Supervisory Feature

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Incoming Call Queue Monitor
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ Supervisor Extension Number

Feature Guide References
1.2.2.8 Supervisory Feature

T1 Line Service

- 3.38 [1-1] Slot—Port Property - T1 Port
- 3.39 [1-1] Slot—Port Property - T1 Port—Connection Command

Feature Guide References
1.23.1 T1 Line Service

Tenant Service

- 4.4 [2-2] Operator & BGM
  - ◆ PBX Operator—Day, Lunch, Break, Night
  - ◆ BGM and Music on Hold—Music on Hold
- 4.6 [2-4] Week Table
- 4.8 [2-5] Holiday Table
- 4.14 [2-7-3] Class of Service—Internal Call Block
- 5.7 [3-2] User Group
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Main—◆ Tenant Number
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ User Group
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ User Group
- 7.1 [5-1] Doorphone—◆ Tenant Number
- 7.7 [5-5] External Sensor—◆ Tenant No.
- 8.6 [6-6] Tenant
- Section 10 [8] ARS
- 10.6 [8-5] Carrier—Authorisation Code for Tenant
- 12.2 [10-2] DIL Table & Port Settings—DIL—◆ Tenant Number
- 12.3 [10-3] DDI / DID Table—◆ Tenant Number
- 12.6 [10-4] MSN Table—MSN—◆ Tenant Number

Feature Guide References
2.2.3 Tenant Service

Three-party Conference (3PTY)—by ISDN

- 3.33 [1-1] Slot—Port Property - BRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, 3PTY
- 3.35 [1-1] Slot—Port Property - PRI Port—Supplementary Service—◆ COLP, CLIR, COLR, CNIP, CONP, CNIR, CONR, CF (Rerouting), CT, CCBS, AOC-D, AOC-E, E911, 3PTY

Feature Guide References
1.21.1.8 Three-party Conference (3PTY)—by ISDN

TIE Line Service

- 3.33 [1-1] Slot—Port Property - BRI Port—Network Numbering Plan—◆ Trunk Property
- 3.35 [1-1] Slot—Port Property - PRI Port—Network Numbering Plan—◆ Trunk Property
- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Trunk Property
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Trunk Property
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)—◆ Trunk Property
- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Incoming Call Inter-digit Timer—TIE
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Idle Line Access (Local Access)
  - ◆ Trunk Group Access
  - ◆ TIE Line Access
- 4.9 [2-6-1] Numbering Plan—Main—Other PBX Extension
- 4.10 [2-6-2] Numbering Plan—Quick Dial—◆ Use quick dial for rerouting to public CO when TIE line does not work
- 4.12 [2-7-1] Class of Service—COS Settings—TRS—◆ TRS Level—Day, Lunch, Break, Night
- 4.18 [2-9] System Options—Option 4—◆ Private Network—TIE Call by Extension Numbering (Activation Key Required)
- 5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ COS

- 11.1 [9-1] TIE Table
- 12.2 [10-2] DIL Table & Port Settings
  - DIL—◆ Trunk Property
  - DIL—◆ DIL Destination—Day, Lunch, Break, Night
  - DDI / DID / TIE / MSN
- 12.3 [10-3] DDI / DID Table—◆ DDI / DID Destination—Day, Lunch, Break, Night

Feature Guide References
1.30.1 TIE Line Service

Time Service

- 4.6 [2-4] Week Table
- 4.8 [2-5] Holiday Table
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Time Service (Day / Lunch / Break / Night) Switch
- 4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Time Service Switch
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Time Service)
  - ◆ Parameter Selection (for Time Service - Automatic/Manual)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Time Service)
  - ◆ Parameter Selection (for Time Service - Automatic/Manual)
  - ◆ Optional Parameter (or Ringing Tone Type Number) (for Time Service)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for Time Service)
  - ◆ Parameter Selection (for Time Service - Automatic/Manual)
  - ◆ Optional Parameter (Ringing Tone Type Number) (for Time Service)

Feature Guide References
2.2.4 Time Service

Timed Reminder

- 4.5 [2-3] Timers & Counters—DISA / Door / Reminder / U. Conf
  - ◆ Timed Reminder—Repeat Counter
  - ◆ Timed Reminder—Interval Time
  - ◆ Timed Reminder—Alarm Ringing Duration
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Remote Timed Reminder (Remote Wakeup Call)
  - ◆ Timed Reminder Set / Cancel
- 4.17 [2-8-3] Ring Tone Patterns—Call from Others—◆ Timed Reminder—Ring Tone Pattern Plan 1–8
- 4.18 [2-9] System Options—Option 1—◆ PT LCD—Time Display
- 7.3 [5-3-1] Voice Message—DISA System—◆ Timed Reminder Message—Day, Lunch, Break, Night
- 8.2 [6-2] Hotel & Charge—Main—◆ SMDR for External Hotel Application 1—Timed Reminder (Wake-up Call)
- 13.1 [11-1] Main—SMDR—◆ Print Information—Timed Reminder (Wake-up Call)

Feature Guide References
1.28.4 Timed Reminder

Toll Restriction (TRS)/Call Barring (Barring)

- 4.12 [2-7-1] Class of Service—COS Settings—TRS
  - ◆ TRS Level—Day, Lunch, Break, Night
  - ◆ TRS Level for System Speed Dialling
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ COS
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ COS
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Parameter Selection (for TRS Level Change)
- 9.1 [7-1] Denied Code
- 9.2 [7-2] Exception Code
- 9.3 [7-3] Special Carrier
- 9.5 [7-5] Miscellaneous

Feature Guide References
1.9.1 Toll Restriction (TRS)/Call Barring (Barring)

Trunk Access

- 3.24 [1-1] Slot—Port Property - Extension Port—◆ Connection
- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Connection
- 3.33 [1-1] Slot—Port Property - BRI Port—◆ Connection
- 3.35 [1-1] Slot—Port Property - PRI Port—◆ Connection
- 3.38 [1-1] Slot—Port Property - T1 Port—◆ Connection
- 3.44 [1-1] Slot—Port Property - E1 Port—◆ Connection
- 3.47 [1-1] Slot—Port Property - EM Port (KX-TDE series only)—◆ Connection
- 3.50 [1-1] Slot—Port Property - DID Port (KX-TDE series only)—◆ Connection
- 3.53 [1-1] Slot—Port Property - IP-GW Port (KX-TDE series only)—◆ Connection
- 3.57 [1-1] Slot—Port Property - IP-Extension Port (KX-TDE series only)—◆ Connection
- 4.9 [2-6-1] Numbering Plan—Main—Features
  - ◆ Idle Line Access (Local Access)
  - ◆ Trunk Group Access
  - ◆ Single CO Line Access
- 4.13 [2-7-2] Class of Service—External Call Block
- 5.1 [3-1-1] Trunk Group—TRG Settings—Main—◆ Line Hunting Order
- 5.2 [3-1-2] Trunk Group—Local Access Priority
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Single CO)
  - ◆ Parameter Selection (for Group CO)
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Parameter Selection (for Single CO)
  - ◆ Parameter Selection (for Group CO)
- 6.17 [4-3] DSS Console

  - ◆ Type
  - ◆ Parameter Selection (for Single CO)
  - ◆ Parameter Selection (for Group CO)
- 10.1 [8-1] System Setting—◆ ARS Mode
- 12.1 [10-1] CO Line Settings—◆ CO Name

Feature Guide References
1.5.5.3 Trunk Access

Trunk Answer From Any Station (TAFAS)

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ TAFAS Answer
- 4.20 [2-11-1] Audio Gain—Paging/MOH
  - ◆ Paging—EPG (External Pager) (for KX-NCP series)/EPG 1 (External Pager 1) (for KX-TDE series)
  - ◆ Paging—EPG 2 (External Pager 2) (KX-TDE series only)
- 7.2 [5-2] External Pager

Feature Guide References
1.17.3 Trunk Answer From Any Station (TAFAS)

Trunk Busy Out

- 3.30 [1-1] Slot—Port Property - LCO Port—◆ Busy Out Status
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Busy Out Cancel
- 4.12 [2-7-1] Class of Service—COS Settings—Manager—◆ Manager
- 4.18 [2-9] System Options—Option 4—◆ Busy Out—Busy Out for Analogue CO

Feature Guide References
1.5.4.6 Trunk Busy Out

Trunk Call Limitation

- 4.12 [2-7-1] Class of Service—COS Settings—CO & SMDR—◆ Extension-CO Line Call Duration Limit
- 4.18 [2-9] System Options—Option 2—◆ Extension - CO Call Limitation—For Incoming Call
- 5.1 [3-1-1] Trunk Group—TRG Settings—Main
  - ◆ CO-CO Duration Time (*60s)
  - ◆ Extension-CO Duration Time (*60s)
- 9.5 [7-5] Miscellaneous—◆ Dial Digits Limitation After Answering—Dial Digits

Feature Guide References
1.11.8 Trunk Call Limitation

Verification Code Entry

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Extension PIN—Lock Counter
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ User Remote Operation / Walking COS / Verification Code
- 6.1 [4-1-1] Wired Extension—Extension Settings
  - Option 1—◆ ARS Itemised Code/2nd CLIP (10 digits)
  - Option 3—◆ Charge Limit
- 6.10 [4-2-1] Portable Station—Extension Settings
  - Option 1—◆ ARS Itemised Code/2nd CLIP (10 digits)
  - Option 3—◆ Charge Limit
- 8.3 [6-3] Verification Code

Feature Guide References
1.9.6 Verification Code Entry

VIP Call

- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ VIP Call Mode

Feature Guide References
1.2.2.5 VIP Call

Virtual PS

- 3.61 [1-2] Portable Station—◆ Registration

Feature Guide References
1.25.6 Virtual PS

Voice Mail (VM) Group

- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—Type
- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—VM Unit No.
- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—VM Port No.
- 5.19 [3-7-1] VM(DPT) Group—System Settings
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings
- 5.22 [3-8-1] VM(DTMF) Group—System Settings
- 5.23 [3-8-2] VM(DTMF) Group—Group Settings

Feature Guide References
1.24.1 Voice Mail (VM) Group

Voice Mail DPT (Digital) Integration

- 4.5 [2-3] Timers & Counters—Dial / IRNA / Recall / Tone—◆ Recall—Transfer Recall
- 5.19 [3-7-1] VM(DPT) Group—System Settings
- 5.20 [3-7-2] VM(DPT) Group—Unit Settings
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Automatic Recording
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 4
  - ◆ LCS Recording Mode
  - ◆ LCS Answer Mode
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Two-way Record)
  - ◆ Extension Number (for Two-way Transfer)
  - ◆ Extension Number (for Voice Mail Transfer)
  - ◆ Ext No. of Mailbox (for Two-way Transfer)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Automatic Recording
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 4—◆ LCS Recording Mode
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Two-way Record)
  - ◆ Extension Number (for Two-way Transfer)
  - ◆ Extension Number (for Voice Mail Transfer)
  - ◆ Ext No. of Mailbox (for Two-way Transfer)

- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Extension Number (for Two-way Record)
  - ◆ Extension Number (for Two-way Transfer)
  - ◆ Extension Number (for Voice Mail Transfer)
  - ◆ Ext No. of Mailbox (for Two-way Transfer)
- 7.1 [5-1] Doorphone—◆ VM Trunk Group Number
- 12.2 [10-2] DIL Table & Port Settings—DIL
  - ◆ Tenant Number
  - ◆ VM Trunk Group No.
- 12.3 [10-3] DDI / DID Table
  - ◆ Tenant Number
  - ◆ VM Trunk Group No.
- 12.6 [10-4] MSN Table—MSN
  - ◆ Tenant Number
  - ◆ VM Trunk Group No.

Feature Guide References
1.24.3 Voice Mail DPT (Digital) Integration

Voice Mail DTMF Integration

- 4.5 [2-3] Timers & Counters—Miscellaneous—◆ Voice Mail (Caller from VM to CO)—On-hook Wait Time
- 5.13 [3-5-1] Incoming Call Distribution Group—Group Settings—Miscellaneous—◆ Programmed Mailbox No.
- 5.22 [3-8-1] VM(DTMF) Group—System Settings
- 5.23 [3-8-2] VM(DTMF) Group—Group Settings
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Programmed Mailbox No.
- 6.5 [4-1-4] Wired Extension—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Voice Mail Transfer)
- 6.10 [4-2-1] Portable Station—Extension Settings—Option 1—◆ Programmed Mailbox No.
- 6.13 [4-2-3] Portable Station—Flexible Button
  - ◆ Type
  - ◆ Extension Number (for Voice Mail Transfer)
- 6.17 [4-3] DSS Console
  - ◆ Type
  - ◆ Extension Number (for Voice Mail Transfer)

Feature Guide References
1.24.2 Voice Mail DTMF Integration

Voice over Internet Protocol (VoIP) Network

- 3.56 [1-1] Slot—Card Property - IP Extension—Common Settings (KX-TDE series only)—◆ Gateway Address

Feature Guide References
1.30.2 Voice over Internet Protocol (VoIP) Network

Walking COS

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ User Remote Operation / Walking COS / Verification Code
- 4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Remote Operation by Other Extension
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension PIN
- 6.10 [4-2-1] Portable Station—Extension Settings—Main—◆ Extension PIN

Feature Guide References
1.9.5 Walking COS

Walking Extension

- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Walking Extension
- 6.1 [4-1-1] Wired Extension—Extension Settings—Main—◆ Extension PIN
- 6.17 [4-3] DSS Console—◆ Pair Extension

Feature Guide References
1.28.3 Walking Extension Features

Whisper OHCA

- 4.11 [2-6-3] Numbering Plan—B/NA DND Call Feature
  - ◆ BSS / OHCA / Whisper OHCA / DND Override
  - ◆ BSS / OHCA / Whisper OHCA / DND Override-2
- 4.12 [2-7-1] Class of Service—COS Settings—Assistant—◆ OHCA / Whisper OHCA
- 4.18 [2-9] System Options—Option 5—◆ Whisper OHCA—for SLT / APT / KX-T72xx

Feature Guide References
1.8.5.4 Whisper OHCA

Wireless XDP Parallel Mode

- 3.24 [1-1] Slot—Port Property - Extension Port—◆ DPT Type—Type
- 3.61 [1-2] Portable Station—PS Registration and De-registration
- 4.9 [2-6-1] Numbering Plan—Main—Features—◆ Wireless XDP Parallel Mode Set / Cancel
- 4.12 [2-7-1] Class of Service—COS Settings—Optional Device & Other Extensions—◆ Accept Wireless XDP Parallel Mode Set by PS
- 6.1 [4-1-1] Wired Extension—Extension Settings—Option 1—◆ Wireless XDP

Feature Guide References
1.25.5 Wireless XDP Parallel Mode

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