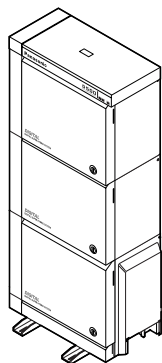# Panasonic

Digital Super Hybrid System

Programming Guide

Model No. KX-TD500

Please read this manual before connecting the Digital Super Hybrid System.
Thank you for purchasing the Panasonic Model KX-TD500, Digital Super Hybrid System.

Introduction

This Programming Guide is designed to serve as a technical reference for the Panasonic Digital Super Hybrid System, KX-TD500. It provides step-by-step instructions for performing system programming using the Maintenance Console software for a PC.

About the Other Manuals

Along with this Programming Guide, the following manuals are available:

Features Guide
Describes every basic, optional and programmable features of the KX-TD500 System in alphabetical order.

User Manual
Designed for users of Digital Super Hybrid System, KX-TD500.
The focus is Digital Proprietary Telephones (DPTs), Digital DSS Consoles, Single Line Telephones (SLTs) and their features.

Installation Manual
Describes information necessary for installing the hardware and system maintenance.

Warning
This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

CE

73/23/EEC
89/336/EEC
92/31/EEC
93/68/EEC

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Section 1
Configuration

1.1 Configuration

Used to determine the basic system configuration.
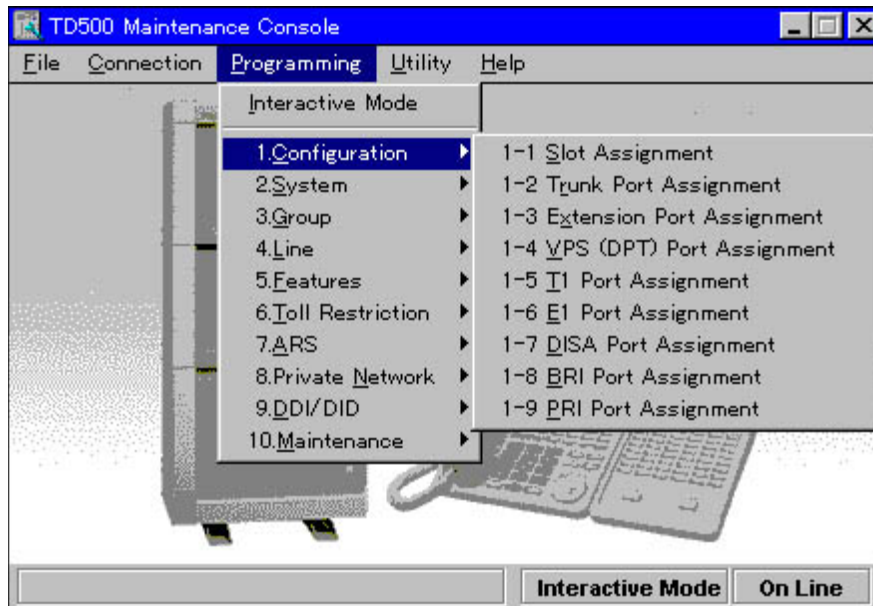
1.2   Slot Assignment

Assigns the type of service cards, inserted in the free slots in the basic and expansion shelves.

Parameter	**Card Type**
Default	Blank
Value Range	
Description/Function	Specifies the type of service card inserted in the free slots in the basic and expansion shelves.

<Selection>

None: Not assigned.

AGC: Automatic Gain Control Trunk card

BRI: ISDN Basic Rate Access Interface card

DHLC: DPT / APT / SLT Super Hybrid Line Circuit card

DID: Direct Inward Dialling Trunk card

DID-MFC: Direct Inward Dialling Trunk with MFC card

DID-2W: Both-way Direct Inward Dialling Trunk card

DISA: Direct Inward System Access Trunk card

DLC: Digital Proprietary Telephone (DPT) System Line Circuit card

DPH: Doorphone Circuit card

E1: E1 Digital Trunk card

E&M: E&M card (TIE Line card)

ELCOT: Enhanced Loop Start Central Office Trunk card

ERMT: Enhanced Remote Circuit card

ESLC: Enlarged Single Line Telephone Circuit with Message Waiting card

GCOT: Ground Start Central Office Trunk card

HLC: APT / SLT Hybrid Line Circuit card

LCOT: Loop Start Central Office Trunk card

OPX: Off Premise Extension card

PCOT: Loop Start Central Office Trunk Card with Pay-Tone Detection card

PLC: Analogue Proprietary Telephone (APT) System Line Circuit card

PRI30: ISDN Primary Rate Access Interface card

RCOT: Loop Start Central Office Trunk Card with Polarity Reversal Detection card

RMT: Remote Circuit card

SLC: Single Line Telephone Circuit card

SLC-M: Single Line Telephone Circuit with Message Waiting card

T1: T1 Digital Trunk Card

Notes

- To change the current Card Type to a new one, delete the current setting first by selecting "None" and then assign a new Card Type.
- CPU - Slot No.13 of the Basic Shelf is fixed to CPU (Central Processing Unit) card.
- TSW- Slot No.14 of the Basic Shelf is fixed to TSW (T-Switch) card.

Reference	• 1.4 Service Cards Description (I/M)

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Used to set the status of the service cards. **1. INS (In-Service)**: The target service card is operating normally. **2. OUS (Out-of-Service)**: Programming data for the target service card is entered, but the target service card is not assigned to the system. **3. FAULT**: The target service card is defective (hardware). In this case, the LED indicator on the service card is lit.
Reference	None

1.3   Trunk Port Assignment

Used to assign each trunk port in the system to one of up to 48 trunk groups.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the physical number of the trunk card and its type, which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Group No.**
Default	DID card: 47, E&M card: 48, Others : 1
Value Range	1 - 48
Description/Function	Specifies the trunk group (1-48) to which the trunk port is assigned. **Note** • Each trunk port must be assigned to a Trunk Group. This programme defines the Trunk Group assignment for each trunk port.
Reference	• 1.3 System Features (F/G) – Trunk Group • 3.2 Trunk Group (P/G)

Parameter	Status
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of the trunk port. **1.** INS: The trunk port is In-Service. **2.** OUS: The trunk port is Out-of-Service. **3.** FAULT: The trunk port is defective.
Reference	None

1.4 Extension Port Assignment

Used to set various parameters for extension ports.
XDP extensions are on ports 9 through 16 of a DHLC card.

Parameter	Card No.
Default	(Display only)
Value Range	XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the physical number of the extension card and its type, which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Attribute**
Default	TEL
Value Range	**1.** TEL **2.** DSS **3.** VPS (DPT)
Description/Function	Specifies the attribute of the terminal which is to be connected to the extension port. **1.** *TEL* Select this option when you connect a telephone set to the extension port. **2.** *DSS* Select this option when you connect a DSS console to the extension port. **3.** *VPS (DPT)* Select this option when a port of Panasonic Voice Processing System (one that supports DPT Integration) is connected to the extension port.
Reference	• 1.5　VPS (DPT) Port Assignment (P/G) • 4.3　Extension Line (P/G) • 4.4　DSS Console (P/G)

Parameter	**Tel. Type**
Default	(Display only)
Value Range	See "Description / Function."
Description/Function	Displays the model number of telephone set which is currently connected to the extension port.
	<Telephone type list> **Unknown:** Not connected or Single Line Telephone **T7130**: APT with SP PHONE, 1-Line Display (12-CO) **T7020 / T7320**: APT with SP-PHONE (12-CO) **T7030 / T7330**: APT with SP-PHONE, 1-Line Display (12-CO) **T7050 / T7350**: APT with MONITOR (12-CO) **T7220 / T7451**: DPT with SP-PHONE (24-CO) **T7230**: DPT with SP-PHONE, 2-Line Display (24-CO) **T7235**: DPT with SP-PHONE, 6-Line Display (12-CO) **T7250**: DPT with MONITOR (6-CO) **T7420**: DPT with SP-PHONE, (12-CO) **T7425**: DPT with SP-PHONE (24-CO) **T7431**: DPT with SP-PHONE, 1-Line Display (12-CO) **T7433**: DPT with SP-PHONE, 3-Line Display (24-CO) **T7436**: DPT with SP-PHONE, 6-Line Display (24-CO) **T7450**: DPT with MONITOR (12-CO) **T7040 / T7240**: DSS Console (32-DSS, 16-PF) **T7440**: DSS Console (66-DSS) **T7441**: DSS Console with ANSWER and RELEASE buttons (48-DSS)
Reference	• 1.3 System Features (F/G) – Mixed Station Capabilities

Parameter	**DN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the DN (Directory Number = extension number) for the extension port.
	Note • You must assign the paired extension for DN after selecting DSS for the attribute.
Reference	• 2.3 Numbering Plan (P/G)

Parameter	**Group No.**
Default	1
Value Range	1-128
Description/Function	Specifies the Extension Group (1-128) to which the extension port is assigned.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY • 3.3 Extension Group (P/G)

Parameter	**Parallel / XDP (DHLC card)**
Default	Parallel
Value Range	1. Parallel 2. XDP
Description/Function	Specifies whether to enable or disable "Parallelled Connection of PT and SLT" or "XDP (eXtra Device Port) Connection of DPT and SLT."

Reference	• 1.1 System Expansion (F/G)
	    – EXtra Device Port (XDP)
	• 1.3 System Features (F/G)
	    – Parallelled Telephone

Parameter	**Parallel / XDP (HLC card)**
Default	None
Value Range	**1.** None **2.** Parallel
Description/Function	Specifies whether to enable or disable "Parallelled Connection of PT and SLT."
Reference	• 1.3 System Features (F/G) – Parallelled Telephone

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of the extension port. **1.** INS: The extension port is In-Service **2.** OUS: The extension port is Out-of-Service. **3.** FAULT: The extension port is defective.
Reference	None

1.5   VPS (DPT) Port Assignment

Used to assign parameters for VPS (DPT) ports. Up to eight Panasonic Voice Processing Systems (VPSs) can be connected to the system.

How to set up a TVP

1. Assignment of the card which will be connected to the VPS System.

- *When you use a new DLC / DHLC card and set up the TVP to the PBX:*
  Assign the card type of the slot to be installed to "DLC" or "DHLC" card and change the card status to "INS (In-Service)" in "1-1 Slot Assignment" screen.
  Then, see the information of "Card Properties" and confirm that the software version of the card shows more than "1."

- *When you connect the TVP to the existing DLC / DHLC : Go to step 2.*

2. Assignment of the port which will be connected to the VPS System.
Change the attribute of the port to be connected to the TVP to "VPS (DPT)" in "1-3 Extension Port Assignment" screen. When the attribute of the port is changed to "VPS (DPT)," the parameters except "Attribute" will disappear and the directory number will be purged.

3. Assignment of VPS card and its model.
Select the corresponding equipment number in "TVP No." menu, the card (DLC / DHLC) which connects with the TVP in "VPS Card" menu, and the model of TVP in "Type" menu in "1-4 VPS (DPT) Port Assignment" screen.

4. Assignment of the extension port connected to the TVP.
Select in "Port No." menu the extension port number of the card (DLC / DHLC) to which the TVP (DPT) jack is to be connected. This menu is displayed only when the attribute of the port is assigned to "VPS (DPT)" at step 2.
After "Port No." selection, assign "DN" and "Extension Group No." for the port.

Save the data changes by clicking "Apply" button.
Then set "Port Status" to "INS (In-Service)."
Jack No.1 must be assigned, because the port is used as the channel to control the VPS.

5. Synchronization of the communication between the KX-TD500 System and the TVP.
The KX-TD500 System begins synchronization with the VPS when the step 4 is done.
The "Power" LED of the VPS begins flashing at the same time. The LED will turn on after the synchronization is completed. It takes for about 30 seconds to 1 minute to be able to use the VPS system. It depends on the VPS model and the port number you set up.

Parameter	**TVP No.**
Default	1
Value Range	1- 8
Description/Function	Specifies the device number of a Panasonic Voice Processing System (VPS), which you are going to programme.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**VPS card**
Default	None
Value Range	None, XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the physical number of DLC / DHLC card to which VPS is connected as extensions.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Type**
Default	None
Value Range	**1.** None **2.** TVP75 **3.** TVP100 **4.** TVP200 **5.** TVP200-1
Description/Function	Specifies the model number of the Panasonic Voice Processing System which will be connected to the VPS card. **Note** • Please select "TVP200-1," if HDD (Hard Disc) Software Version of your TVP200 is 2.00 or later.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Jack No.**
Default	(Display only)
Value Range	
Description/Function	Displays the jack No. of VPS.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Port No.**
Default	Blank
Value Range	1-16 [DLC card] 1-8 [DHLC card]
Description/Function	Specifies the extension port number to which the VPS (DPT) jack is to be connected. **Notes** • This programme tells the system which extension port is connected to the Panasonic Voice Processing System. This allows the system to send the proper Digital Integration information to these ports. • The port number is displayed only when the attribute of the port is assigned to VPS (DPT).
Reference	• 1.4 Extension Port Assignment (P/G)

Parameter	**[Ext No.1] DN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the extension number for B1 channel.

Note
- This programme allows you to assign an extension number to each Voice Mail port. Since each port connected to the VPS provides two extensions, this enables you to assign extension numbers to each port. To reach the Voice Mail system, users dial these extension numbers.

Reference	• 2.3 Numbering Plan (P/G)

Parameter	**[Ext No.1] Group No.**
Default	Blank
Value Range	1-128
Description/Function	Specifies the Extension Group (1-128) to which the B1 channel of the VPS (DPT) port is assigned.

Note
- Specifies the extension group number to which the type of extension group, VM or AA, is assigned.

Reference	• 3.3 Extension Group (P/G)

Parameter	**[Ext No.2] DN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the extension number for B2 channel.

Note
- This programme allows you to assign an extension number to each Voice Mail port. Since each port connected to the VPS provides two extensions, this enables you to assign extension numbers to each port. To reach the Voice Mail system, users dial these extension numbers.

Reference	• 2.3 Numbering Plan (P/G)

Parameter	**[Ext No.2] Group No.**
Default	Blank
Value Range	1-128
Description/Function	Specifies the Extension Group (1-128) to which the B2 channel of the VPS (DPT) port is assigned.
	Note
	• Specifies the extension group number to which the type of extension group, VM or AA, is assigned.
Reference	• 3.3 Extension Group (P/G)

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of the VPS (DPT) port.
	1. INS: The VPS port is In-Service.
	2. OUS: The VPS port is Out-of-Service.
	3. FAULT: The VPS port is defective.
Reference	None

1.6 T1 Port Assignment

Used to assign parameters for T1 ports.

How to set up a T1 card

1. Insert T1 card into a free slot.
    Notes
    •   T1 card should be installed in the free slot no. 1, 5 or 9 of a shelf.
    •   The next slot must be empty.

2. Assign the card type of the slot to "T1" in "1-1 Slot Assignment" screen.

3. Assign the channel type and the trunk group number of each port in "1-5 T1 Port Assignment" screen. Assign the directory number and the extension group number when the channel type is assigned to "OPX."
    The channel type should be assigned on the basis of the contract with a telephone exchange.

4. When the channel type of the port is assigned to a trunk line (LCO, GCO, DID or TIE[E&M]), assign the parameters of the port like usual trunk line in "4-1 Trunk Line" screen. When the channel type is assigned to "OPX," assign the parameters of the port like usual extension line in "4-2 Line - Extension Line" screen.

5. Change the card status to "INS (In-Service)" in "1-1 Slot Assignment" screen. All the ports are changed to "INS (In-Service)" status automatically.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : T1 [XXX : Card No. (101-314)]
Description/Function	Specifies the physical number of the T1 digital trunk card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Channel Type**
Default	Undefined
Value Range	**1.** Undefined **2.** LCO **3.** GCO **4.** DID **5.** TIE (E&M) **6.** OPX
Description/Function	Specifies the type of T1 interface per channel. **1.** Undefined: Not assigned **2.** LCO: Loop Start Central Office **3.** GCO : Ground Start Central Office **4.** DID: Direct Inward Dialling **5.** TIE (E&M): TIE Line **6.** OPX: Off Premise Extension
Reference	• 1.3 System Features (F/G) – T1 Carrier

Parameter	**DN**
Default	Blank
Value Range	3 - 4 digits consisting of 0-9
Description/Function	Specifies the extension number for the T1 port. (Assignable only when "OPX" is specified in "Channel Type" setting.)
Reference	• 2.3 Numbering Plan (P/G)

Parameter	**Group No.**
Default	Blank
Value Range	1 - 48 or 1 - 128
Description/Function	Channel Type : LCO, GCO, DID, TIE (E&M) Specifies the Trunk Group (1 - 48) to which the T1 port is assigned. Channel Type : OPX Specifies the Extension Group (1 - 128) to which the T1 port is assigned.
Reference	• 3.2 Trunk Group (P/G) • 3.3 Extension Group (P/G)

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of the T1 port. **1.** INS: The T1 port is In-Service. **2.** OUS: The T1 port is Out-of-Service. **3.** FAULT: The T1 port is defective (hardware). In this case, the LED indicator on the T1 card will light.
Reference	None

1.7   E1 Port Assignment

Used to assign parameters for E1 ports.

How to set up an E1 card

1. Insert E1 card into a free slot.

   Notes
   - E1 card should be installed in the free slot no. 1, 5 or 9 of each shelf.
   - The next slot must be empty.

2. Assign the card type of the slot to "E1" in "1-1 Slot Assignment" screen.

3. Assign the channel type and the trunk group number of each port in "1-6 E1 Port Assignment" screen.

   Note
   - The channel type should be assigned on the basis of the contract with a telephone exchange.

4. Assign the parameters of the port like usual trunk line in "4-1 Trunk Line" screen.

5. Change the card status to "INS (In-Service)" in "1-1 Slot Assignment" screen. All the ports are changed to "INS (In-Service)" status automatically.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : E1 [XXX : Card No. (101-314)]
Description/Function	Specifies the physical number of the E1 digital trunk card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Channel Type**
Default	Undefined
Value Range	**1.** Undefined **2.** DR2 **3.** E&M-P **4.** E&M-C
Description/Function	Specifies the type of E1 interface per channel. **1.** Undifined: Not assigned. **2.** DR2: Digital signalling system–R2 **3.** E&M–P: Pulsed E&M **4.** E&M–C: Continuous E&M
Reference	• 1.3 System Features (F/G) – E1 Carrier

Parameter	**Group No.**
Default	Blank
Value Range	1-48
Description/Function	Specifies the Trunk Group (1-48) to which the E1 port is assigned.
Reference	None

Parameter	**Receiver Type**
Default	Undefined
Value Range	**1.** Undefined **2.** Pulse **3.** DTMF **4.** MFC-R2
Description/Function	Specifies the dial type when receiving an incoming call. **1.** Undefined: Not assigned. **2.** Pluse: DP Signalling sending / receiving **3.** DTMF: DTMF Signalling sending / receiving **4.** MFC–R2: MFC–R2 Signalling sending / receiving (Digital signalling system–R2 only)
Reference	None

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of the E1 port. **1.** INS: The E1 port is In-Service. **2.** OUS: The E1 port is Out-of-Service. **3.** FAULT: The E1 port is defective (hardware). In this case, the LED indicator on the E1 card will light.
Reference	None

1.8   DISA Port Assignment

Used to assign OGM group number for each DISA card.
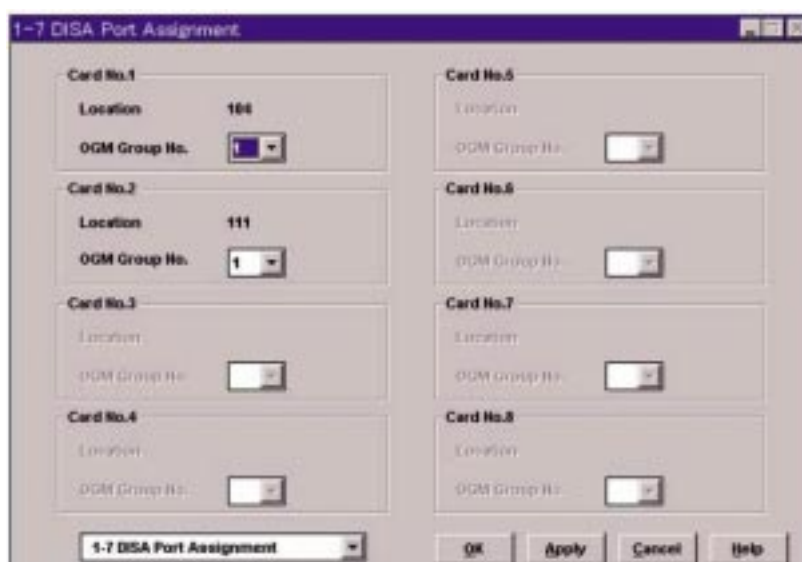
Parameter	**Location**
Default	(Display only)
Value Range	101-314
Description/Function	Displays the slot number of the DISA card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**OGM Group No.**
Default	1
Value Range	1-8
Description/Function	Specifies the OGM Group (1-8) to which the DISA card is assigned.
Reference	• 1.3 System Features (F/G) – Outgoing Message (OGM) • 3.6 OGM Group (P/G)

1.9   BRI Port Assignment

Used to assign the parameters for BRI (Basic Rate Interface) ports.

Parameter	**Card No.**
Default	(Display Only)
Value Range	XXX: BRI [XXX: Card No. (101-314)]
Description/Function	Specifies the physical number of the BRI card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Type**
Default	CO
Value Range	**1.** CO **2.** EXT
Description/Function	Specifies the type of each BRI port either "CO" (CO line) or "EXT" (extension line) on a BRI port basis.
Reference	• 2.1 ISDN Features (F/G) – Integrated Services Digital Network (ISDN)

Parameter	**DN**
Default	Blank
Value Range	3-4 digits consisting of 0–9
Description/Function	Specifies the DN (Directory Number) for the BRI port. (Assignable only when "EXT" is specified in "Type" assignment.)
Reference	None

Parameter	**Group No.**
Default	1
Value Range	1-48 or 1-128
Description/Function	<u>Type: CO</u> Specifies the Trunk Group (1-48) to which the BRI port is assigned. <u>Type: EXT</u> Specifies the Extension Group (1-128) to which the BRI port is assigned.
Reference	None

Parameter	**Tone**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether the system sends the call progress tone to the ISDN extension or not. (Assignable only when "EXT" is specified in "Type" assignment.)
Reference	None

Parameter	Status
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of each BRI port. **1.** INS: The BRI port is In-Service. **2.** OUS: The BRI port is Out-of-Service. **3.** FAULT: The BRI port is defective (hardwear). In this case, the LED indicator on the BRI card will light.
Reference	• 1.6.2 Characteristics (I/M)

1.10   PRI Port Assignment

Used to assign the parameters for PRI (Prime Rate Interface) ports.

Parameter	**Card No.**
Default	(Display Only)
Value Range	XXX: PRI30 [XXX: Card No. (101–314)]
Description/Function	Specifies the physical number of the PRI card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Type**
Default	CO
Value Range	**1.** CO **2.** EXT
Description/Function	Specifies the type of each PRI port either "CO" (CO line) or "EXT" (extension line) on a PRI port basis.
Reference	• 2.1 ISDN Features (F/G) – Integrated Services Digital Network (ISDN)

Parameter	**DN**
Default	Blank
Value Range	3–4 digits consisting of 0–9
Description/Function	Specifies the DN (Directory Number) for the PRI port. (Assignable only when "EXT" is specified in "Type" assignment.)
Reference	None

Parameter	**Tone**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether the system sends the call progress tone to the ISDN extension or not. (Assignable only when "EXT" is specified in "Type" assignment.)
Reference	None

Parameter	**Group No.**
Default	1
Value Range	1-48 or 1-128
Description/Function	Type: CO Specifies the Trunk Group (1-48) to which the PRI port is assigned. Type: EXT Specifies the Extension Group (1-128) to which the PRI port is assigned.
Reference	None

Parameter	**Status**
Default	—
Value Range	**1.** INS **2.** OUS **3.** FAULT
Description/Function	Specifies the operating status of each PRI port. **1.** INS: The PRI port is In-Service. **2.** OUS: The PRI port is Out-of-Service. **3.** FAULT: The PRI port is defective (hardwear). In this case, the LED indicator on the PRI card will light.
Reference	• 1.6.2 Characteristics (I/M)

Section   2
System

2.1   System

Used to assign parameters which affect system-wide operation.
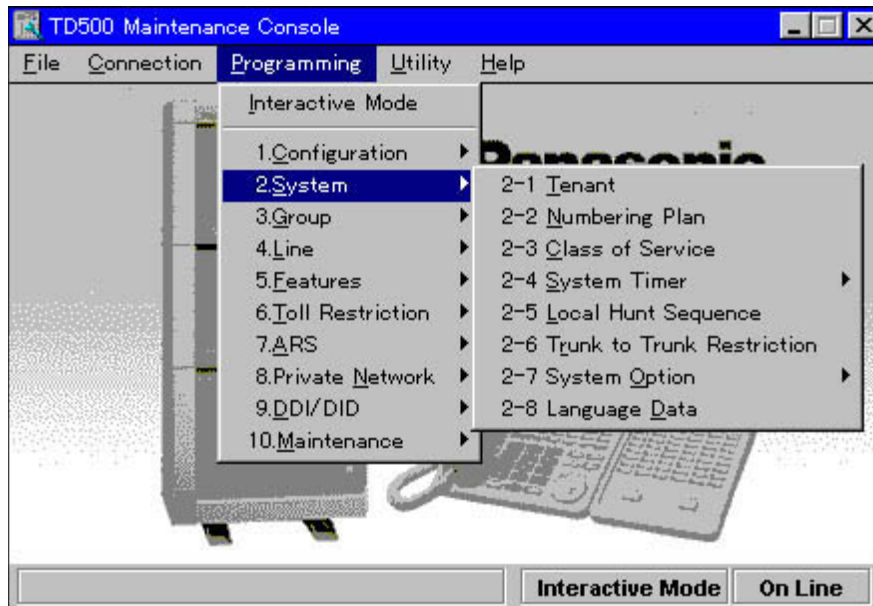
2.2   Tenant

Used to assign various parameters on a tenant (1-8) basis.

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies the tenant number which you are going to programme.
Reference	• 1.3 System Features (F/G)
	– Tenant Service

Parameter	**DAY / NIGHT Switching Mode**
Default	Manual
Value Range	**1.** Manual **2.** Auto
Description/Function	Specifies the Day / Night switching mode, Manual or Auto. **1.** *Manual* The extension allowed by COS (Class of Service) Programming, the Manager or the Operators can switch Day / Night mode at any time desired by dialling the feature number for "Night Mode set / cancel." **2.** *Auto* The system automatically switches the Day / Night mode each day at the time programmed in Auto Start Time.
Reference	• 2.11.4 Switching the Day / Night Service (U/M)

Parameter	**Inter-tenant Calling (1 - 8)**
Default	No check
Value Range	**1.** No check [Disallowed] **2.** Check [Allowed]
Description/Function	Specifies other tenant numbers to which extensions in this tenant can make a call. If no tenant numbers are checked in this field, extension users within this tenant cannot make a call to extensions in other tenants. Making calls from one tenant to another is not allowed by default.
Reference	• 1.3 System Features (F/G) – Tenant Service

(Auto Start Time)

Specifies "Start" time of DAY / NIGHT service on a day of the week basis.

 (This setting is valid when "Auto mode" is selected in "DAY / NIGHT Switching Mode" setting.)

Up to four time frames (Day 1, Night 1, Day 2, Night 2) can be set up on each day of the week.

Parameter	**Day 1 (SUN-SAT)**
Default	9:00 AM
Value Range	**1.** Disable **2.** 12:00-11:59 PM / AM
Description/Function	Specifies the start time for Day Service 1.
Reference	• 1.3 System Features (F/G) – Night Service

Parameter	**Night 1 (SUN-SAT)**
Default	5:00 PM
Value Range	Same as Day 1
Description/Function	Specifies the start time for Night Service 1.
Reference	• 1.3 System Features (F/G) – Night Service

Parameter	**Day 2 (SUN-SAT)**
Default	Disable
Value Range	Same as Day 1
Description/Function	Specifies the start time for Day Service 2.
Reference	• 1.3 System Features (F/G) – Night Service

Parameter	**Night 2 (SUN-SAT)**
Default	Disable
Value Range	Same as Day 1
Description/Function	Specifies the start time for Night Service 2.
Reference	• 1.3 System Features (F/G) – Night Service

Parameter	**Music on Hold Source**
Default	MUS1
Value Range	**1.** None **2.** MUS1 **3.** MUS2 **4.** Tone
Description/Function	Specifies the Music Source port to be used for Music on Hold. **Note** • If "MUS2" is selected, the actual source depends upon the position of the switch located on the TSW card. "MUS2 (Music 2 jack)" or "INT MUS (internal music)" can be selected by this switch.
Reference	• 1.3 System Features (F/G) – Music on Hold • 2.3.2 TSW Card (I/M)

Parameter	**BGM Source**
Default	MUS1
Value Range	**1.** None **2.** MUS1 **3.** MUS2
Description/Function	Specifies the Music Source port to be used for BGM. **Note** • If "MUS2" is selected, the actual source depends upon the position of the switch located on the TSW card. "MUS2 (Music 2 jack)" or "INT MUS (internal music)" can be selected by this switch.
Reference	None

Parameter	**Automatic Route Selection**
Default	No check
Value Range	**1.** Check [Enable] **2.** No check [Disable]
Description/Function	Specifies whether to utilize ARS (Automatic Route Selection) or not. If set to "No" (No check), "Trunk Access, Idle" is activated instead of ARS when an extension user dials "9" for making an outside call.
Reference	• 1.6 Originating Features (F/G) – Automatic Route Selection (ARS) • 7.1 ARS (Automatic Route Selection) (P/G)

Parameter	**System Speed Dial TRS Level Override**
Default	No check
Value Range	**1.** Check [Enable] **2.** No check [Disable]
Description/Function	Enables or disables "Toll Restriction Override for System Speed Dial Numbers" feature. If enabled (Check), all extension users in the tenant can make System Speed Dialling calls without toll restriction.
Reference	• 1.6 Originating Features (F/G) –Toll Restriction Override for System Speed Dialling

Parameter	**System Speed Dialing Entries Max.**
Default	Tenant 1:1000, Tenant 2:1000, Tenant 3-8:0
Value Range	0-1000 in 20 codes increments
Description/Function	Specifies the maximum number of Speed Dialling codes available for each tenant. **Note** • Up to 2000 Speed Dialling codes can be shared among tenants under the restriction of up to 1000 codes per tenant.
Reference	• 5.2 System Speed Dialling (P/G)

Parameter	**Manager Extension DN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the extension number for the Manager.
Reference	• 1.3 System Features (F/G) –Manager Extension • 3 Operator / Manager Operation (U/M)

Parameter	**External Paging Tone**
Default	Check
Value Range	**1.** Check [Enable] **2.** No check [Disable]
Description/Function	If checked, confirmation tone is emitted from external pagers before voice announcement.
Reference	• 1.14 Paging Features (F/G) – PAGING – A SUMMARY • 2.6.1 Paging (U/M)

Parameter	**Confirmation Tone for Station or External Paging**
Default	Check
Value Range	**1.** Check [Enable] **2.** No check [Disable]
Description/Function	If checked, confirmation tone is sent to the extension user who initiated the Station Paging or the External Paging.
Reference	• 1.14 Paging Features (F/G) – PAGING – A SUMMARY • 2.6.1 Paging (U/M)

2.3 Numbering Plan

Used to assign the leading digits of extension numbers, and feature numbers for system features.

Parameter	**1 1st Hundred Block Extension**
Default	10
Value Range	1-2 digits consisting of 0-9
Description/Function	Specifies the leading 1 or 2 digits of the extension number. Any number "0 through 9" can be set.

<u>Notes</u>
- If one digit is assigned as the leading digit, 3-digit extension numbers can be assigned.
- If two digits are assigned as the leading digits, 4-digit extension numbers can be assigned.

Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**2 2nd Hundred Block Extension**
Default	11
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**3 3rd Hundred Block Extension**
Default	12
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**4 4th Hundred Block Extension**
Default	13
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**5 5th Hundred Block Extension**
Default	14
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**6 6th Hundred Block Extension**
Default	20
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**7 7th Hundred Block Extension**
Default	21
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**8 8th Hundred Block Extension**
Default	22
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**9 9th Hundred Block Extension**
Default	23
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**10 10th Hundred Block Extension**
Default	24
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) –Flexible Numbering

Parameter	**11-16 11th Hundred Block Extension - 16th Hundred Block Extension**
Default	Blank
Value Range	1-2 digits consisting of 0-9
Description/Function	Same as the Parameter 1.
Reference	• 1.3 System Features (F/G) –Flexible Numbering

Parameter	**17 Operator Call**
Default	0 (BX), 9 (SA)
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for calling the Operator. FDN for each Operator Group can also be used for this purpose.
Reference	• 2.2.1 Basic Calling (U/M)

Parameter	**18 Local CO Line Access / ARS**
Default	9 (BX), 0 (SA)
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making an outside call by "ARS (Automatic Route Selection)" or "Trunk Access, Idle."
Reference	• 2.2.1 Basic Calling (U/M)

Parameter	**19 Trunk Group Access**
Default	8
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making an outside call by specifying a Trunk Group (01-48).
Reference	• 2.2.1 Basic Calling (U/M)

Parameter	**20 Speed Dialing - System**
Default	*
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making a call using a System Speed Dialling number.
Reference	• 2.2.2 Easy Dialling (U/M)

Parameter	**21 Speed Dialing - Station**
Default	3*
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making a call using a Station Speed Dialling number.
Reference	• 2.2.2 Easy Dialling (U/M)

Parameter	**22 Speed Dialing - Station Programming**
Default	30
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for programming Station Speed Dialling numbers at each extension.
Reference	• 2.2.2 Easy Dialling (U/M)

Parameter	**23 Doorphone Call**
Default	31
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making a call to a doorphone.
Reference	• 2.8.1 If a Doorphone / Door Opener is Connected (U/M)

Parameter	**24 External Paging**
Default	32
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making a paging announcement through External Pagers.
Reference	• 2.6.1 Paging (U/M)

Parameter	**25 External Paging Answer / TAFAS Answer**
Default	42
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for answering paging announcements through External Pagers or TAFAS (Trunk Answer From Any Station) calls.
Reference	• 2.6.3 Answering a Paged Announcement (U/M)

Parameter	**26 Station Paging**
Default	33
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for making a paging announcement through the built-in speakers of PTs.
Reference	• 2.6.1 Paging (U/M)

Parameter	**27 Station Paging Answer**
Default	43
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for answering the paging announcement through the built-in speakers of PTs.
Reference	• 2.6.3 Answering a Paged Announcement (U/M)

Parameter	**28 CO Call Pickup**
Default	4*
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for answering a CO call ringing at another extension.
Reference	• 2.3.3 Answering a Call Ringing at Another Telephone (Call Pickup) (U/M)

Parameter	**29 Group Call Pickup**
Default	40
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for answering a call ringing at another extension in the same Extension Group.
Reference	• 2.3.3 Answering a Call Ringing at Another Telephone (Call Pickup) (U/M)

Parameter	**30 Directed Call Pickup**
Default	41
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for answering a call ringing at another extension.
Reference	• 2.3.3 Answering a Call Ringing at Another Telephone (Call Pickup) (U/M)

Parameter	**31 Hold**
Default	50
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for putting a call on hold.
Reference	• 2.4.1 Holding a Call (U/M)

Parameter	**32 Hold Retrieve - Station**
Default	51
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for retrieving a call held at another extension.
Reference	• 2.4.1 Holding a Call (U/M)

Parameter	**33 Hold Retrieve - Trunk**
Default	53
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for retrieving a specific outside call held at another extension.
Reference	• 2.4.1 Holding a Call (U/M)

Parameter	**34 Redial**
Default	#
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for dialling the last number dialled.
Reference	• 2.2.3 Redial (U/M)

Parameter	**35 Call Park / Call Park Retrieve**
Default	52
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for placing a call on hold / retrieving the call held in the system-common parking area.
Reference	• 2.4.1 Holding a Call (U/M)

Parameter	**36 Account Code**
Default	49
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for entering account codes which may be forced or optional depending on Class of Service programming.
Reference	• 2.2.5 Calling without Restrictions (U/M)

Parameter	**37 Door Open**
Default	55
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for unlocking the Door Opener.
Reference	• 2.8.1 If a Doorphone / Door Opener is Connected (U/M)

Parameter	**38 External Feature Access**
Default	6
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for sending a switchhook flash to a host PBX or Centrex system. This is useful when the host PBX offers, for example, "Call Waiting" call.
Reference	• 2.8.2 If a Host PBX is Connected (U/M)

Parameter	**39 Station Program Clear**
Default	790
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for Station Programme Clear.
Reference	• 2.7.14 Clearing the Feature Settings at Your Extension (Station Programme Clear) (U/M)

Parameter	**40 Message Waiting Set / Cancel / Call Back**
Default	70
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling the Message Waiting indications. This is also used to call back the party who left a Message Waiting indication.
Reference	• 2.2.4 When the Dialled Line is Busy or There is No Answer (U/M)

Parameter	**41 OGM Playback / Record**
Default	36
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for recording / playing back an OGM (Outgoing Message) [For Manager, Operator only].
Reference	• 3.2.2 Recording Outgoing Messages (U/M)

Parameter	**42 Call FWD - Do Not Disturb Set / Cancel**
Default	710
Value Range	1-4 digits consisting of 0-9, �✕ or #
Description/Function	Specifies the feature number for setting / cancelling the Call Forwarding / Do Not Disturb feature.
Reference	• 2.5.1 Forwarding Your Calls (Call Forwarding) (U/M) • 2.7.2 Refusing Incoming Calls (Do Not Disturb [DND]) (U/M)

Parameter	**43 Dial Call Pickup Deny Set / Cancel**
Default	720
Value Range	1-4 digits consisting of 0-9, ✕ or #
Description/Function	Specifies the feature number for setting / cancelling the Dial Call Pickup deny feature.
Reference	• 2.7.8 Denying Other People the Possibility of Picking up Your Calls (Call Pickup Deny) (U/M)

Parameter	**44 Data Line Security Set / Cancel**
Default	730
Value Range	1-4 digits consisting of 0-9, ✕ or #
Description/Function	Specifies the feature number for setting / cancelling the Data Line Security feature.
Reference	• 2.7.11 Protecting Your Line against Indication Tones (Data Line Security) (U/M)

Parameter	**45 Call Waiting Set / Cancel**
Default	731
Value Range	1-4 digits consisting of 0-9, ✕ or #
Description/Function	Specifies the feature number for setting / cancelling Call Waiting feature.
Reference	• 2.7.3 Receiving a Call Waiting (Call Waiting / Off-Hook Call Announcement [OHCA] / Whisper OHCA) (U/M)

Parameter	**46 Executive Override Deny Set / Cancel**
Default	733
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Executive Override Deny feature.
Reference	• 2.7.9 Denying Other People the Possibility of Joining Your Conversation (Executive Busy Override Deny) (U/M)

Parameter	**47 Pickup Dialing Program / Set / Cancel**
Default	74
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for programming / setting / cancelling Pickup Dialling feature.
Reference	• 2.2.2 Easy Dialling (U/M)

Parameter	**48 Absent Message Set / Cancel**
Default	750
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Absent Message feature.
Reference	• 2.5.3 Showing an Absent Message on the Caller's Telephone Display (Absent Message Capability) (U/M)

Parameter	**49 Timed Reminder Confirm / Set / Cancel**
Default	761
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for confirming / setting / cancelling Timed Reminder feature.
Reference	• 2.7.1 Setting the Alarm (Timed Reminder) (U/M)

Parameter	**50 Station Lock Set / Cancel**
Default	762
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Electronic Station Lock feature.
Reference	• 2.5.4 Preventing Other People from Using Your Telephone (Electronic Station Lockout) (U/M)

Parameter	**51 Night Mode Set / Cancel**
Default	78
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off the Night Service mode.
Reference	• 2.11.4 Switching the Day / Night Service (U/M)

Parameter	**52 Parallel Telephone Mode**
Default	39
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Parallel Telephone mode.
Reference	• 2.7.13 Setting the Parallel Connected Telephone Ringer (Parallelled Telephone Connection) (U/M)

Parameter	**53 External BGM On / Off**
Default	35
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off External BGM [For Manager, Operator only].
Reference	• 3.2.1 Turning on the External Background Music (Background Music [BGM] - External) (U/M)

Parameter	**54 Live Call Screening**
Default	799
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for setting / cancelling Live Call Screening feature.
Reference	• 2.8.3 If a Voice Processing System is Connected (U/M)

Parameter	**55 Call Log Incoming, Overwrite Mode**
Default	56
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for turning on or off the Call Log Incoming, Overwrite Mode. If turned on (e.g., 561), overwriting the buffer will occur. If turned off (e.g., 560), new data will be disregarded when the buffer is full.
Reference	• 2.10.1 Calling Using the Call Log (Incoming Call Log) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

Parameter	**56 Call Log Incoming, Log Lock**
Default	57
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for turning on or off the Call Log Incoming, Log Lock. A 3-digit password is needed. Use it twice (e.g., 57123123) to turn on the lock, and use it once (i.e., 57123) to turn off the lock. [For Manager, Operator only]
Reference	• 2.10.3 Denying Other People the Possibility of Seeing Your Call Log (Incoming Call Log Lock) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

Parameter	**57 Timed Reminder, Remote**
Default	7*
Value Range	1-4 digits consisting of 0-9, $\times$ or #
Description/Function	Specifies the feature number for setting / cancelling Timed Reminder, Remote feature [For Manager, Operator only].
Reference	• 3.1.1 Setting the Alarm for Other Extensions (Remote Timed Reminder) (U/M)

Parameter	**58 Login / Logout**
Default	45
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for Log-in / Log-out.
Reference	• 2.5.5 Leaving an Extension Group (Log-In / Log-Out) (U/M)

Parameter	**59 Automatic Callback Busy Cancel**
Default	46
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for cancelling Automatic Callback Busy feature.
Reference	• 2.2.4 When the Dialled Line is Busy or There is No Answer (U/M)

Parameter	**60 Walking COS**
Default	47
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Walking COS feature.
Reference	• 2.2.5 Calling without Restrictions (U/M)

Parameter	**61 MODEM Control**
Default	791
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for External Modem Control. An external modem can be connected to RS-232C port 1.
Reference	• 2.11.1 Controlling the External Modem (External Modem Control) (U/M)

Parameter	**62 Reserved (Reserved for future use.)**
Default	Blank
Value Range	
Description/Function	
Reference	

Parameter	**63-70 Quick dial 1 - Quick dial 8**
Default	Blank
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the feature number for Quick Dial features.
Reference	• 2.2.2 Easy Dialling (U/M)

Parameter	**71 Reserved (Reserved for future use.)**
Default	Blank
Value Range	
Description/Function	
Reference	

Parameter	**72 Remote DND**
Default	722
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the feature number for setting / cancelling the DND (Do Not Disturb) feature for other extensions [For Manager, Operator only].
Reference	• 3.1.2 Setting or Cancelling the DND Feature to Other Extensions (Remote DND Control) (U/M)

Parameter	**73 Remote FWD Cancel-Once**
Default	723
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	With this feature number, the Manager or the Operators can reach an extension that has set Call Forwarding. It is one time ("once") cancellation, not a permanent cancellation of Call Forwarding on the destination. [For Manager, Operator only].
Reference	• 3.1.3 Calling the Extension that has set Call Forwarding (Remote FWD Cancel-Once) (U/M)

Parameter	**74 Trunk Route Control**
Default	724
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the feature number for Trunk Route Control [For Manager, Operator only].
Reference	• 3.2.4 Trunk Route Control (U/M)

Parameter	**75 UCD Monitor Mode**
Default	725
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the feature number for UCD Monitor mode. One supervisor can be assigned per UCD Group. The supervisor can monitor the number of calls in the waiting queue.
Reference	• 2.11.3 Monitoring the Number of UCD Calls Waiting to be Answered (UCD Monitor Mode) (U/M)

Parameter	**76 TIE Line Access**
Default	77
Value Range	1-4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the feature number for making a TIE line call.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**77-92 Other PBX 01 - Other PBX 16**
Default	Blank
Value Range	1-2 digits consisting of 0-9
Description/Function	Specifies the leading 1 or 2 digits of the other PBX extension numbers. If you employ PBX code method for TIE calls, this programming is not required.
Reference	• 3.1 E&M Features (F/G) –TIE LINES – A SUMMARY

Parameter	**93 Paging Deny Set / Cancel**
Default	721
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for setting / cancelling Paging Deny feature.
Reference	• 2.7.4 Denying the Paged Announcement (Paging — Deny) (U/M)

Parameter	**94 Trunk Busy-out**
Default	726
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for Trunk Busy-out feature [For Manager, Operator only].
Reference	• 3.2.3 Trunk Busy-out Setting (U/M)

Parameter	**95 Walking Station**
Default	727
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for Walking Station feature.
Reference	• 2.9.1 Using the Same Extension Number and the Setting of Your Previous Extension (Walking Station) (U/M)

Parameter	**96 CLIP / COLP**
Default	711
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off the CLIP / COLP (Calling / Connected Line Indentification Presentation) feature.
Reference	• 2.7.5 Displaying Your Number on the Called Party and Calling Party's Telephone (Calling / Connected Line Identification Presentation [CLIP / COLP]) (U/M)

Parameter	**97 CLIR**
Default	59
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off the CLIR (Calling Line Identification Restriction) feature.
Reference	• 2.7.6 Preventing Your Number Being Displayed on the Called Party's Telephone (Calling Line Identification Restriction [CLIR]) (U/M)

Parameter	**98 COLR**
Default	58
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off the COLR (Connected Line Identification Restriction) feature.
Reference	• 2.7.7 Preventing Your Number Being Displayed on the Called Party's Telephone (Connected Line Identification Restriction [COLR]) (U/M)

Parameter	**99 Dial Information (CTI)**
Default	Blank
Value Range	1-4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the feature number for turning on / off the CTI (Computer Telephony Integration) Dial Information feature.
Reference	None

Parameter	**100 Reserved (Reserved for future use.)**
Default	Blank
Value Range	
Description/Function	
Reference	

2.4   Class of Service (COS)

Used to assign the Class of Service (COS) parameters.

Parameter	**COS No.**
Default	1
Value Range	1-96
Description/Function	Specifies the COS number which you are going to programme.
Reference	• 1.3 System Features (F/G) – Class of Service (COS) • 4.3 Extension Line (P/G)

Parameter	**Trunk Group Setting**
Default	Please refer to "2.4.1 Trunk Group Setting" in this manual.
Value Range	
Description/Function	
Reference	

Parameter	**TRS Level – Day / Night**
Default	1
Value Range	1-8
Description/Function	Specifies the Toll Restriction level (1-8) for each COS number in Day / Night mode respectively.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

Parameter	**Time Limit of Outside Calls**
Default	No
Value Range	**1.** Yes **2.** No
Description/Function	Specifies whether to restrict the duration of outside calls or not. **Notes** • If set to "Yes," the system disconnects a CO call originated or answered by the programmed extension user when the time specified by "Extension-to-CO Line Call Duration Time (1-64 min)" (See Section 2.5 System Timer) expires. • This setting may apply to "Outgoing CO call only" or "Both incoming and outgoing CO calls" depending on "5. Limited call duration" setting (See Section 2.8 System Option).
Reference	None

Parameter	**Transfer to CO**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Call Transfer to Trunk" feature.
Reference	• 2.4.3 Transferring a Call (U/M)

Parameter	**Call FWD to CO**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Call Forwarding to Trunk" feature.
Reference	• 2.5.1 Forwarding Your Calls (Call Forwarding) (U/M)

Parameter	**Call FWD Follow me**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Call Forwarding - Follow Me" feature.
Reference	• 2.5.1 Forwarding Your Calls (Call Forwarding) (U/M)

Parameter	**Busy Override**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Executive Busy Override" feature.
Reference	• 2.2.4 When the Dialled Line is Busy or There is No Answer (U/M)

Parameter	**Busy Override Deny**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Executive Busy Override Deny" feature. **Note** • Executive Busy Override Deny allows the extension user to prevent Executive Busy Override from being executed by another extension user.
Reference	• 2.7.9 Denying Other People the Possibility of Joining Your Conversation (Executive Busy Override Deny) (U/M)

Parameter	**DND Override**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "DND Override" feature.
Reference	• 2.2.5 Calling without Restrictions (U/M)

Parameter	**Digits Restriction in CO Talk Mode**
Default	Unrestricted
Value Range	**1.** Unrestricted **2.** 1-15: the digits to be dialled out.
Description/Function	Specifies the maximum number of digits that can be dialled during a CO call. If the outside party hangs up during a CO call and the extension user tries to dial out while still on the same CO line, the system will disconnect the line at the instant the assigned number of digits are dialled. **Note** • This programme can be added if the CPC Signal Detection is not provided by the Central Office.
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**Call from TRS Level 7 Extension**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	If set to "Enable," TRS level 7 extension users can call the extensions with this COS level.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

Parameter	**Switching Day / Night Mode**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables switching the Day / Night service on a Class of Service (COS) basis.
Reference	• 2.11.4 Switching the Day / Night Service (U/M)

Parameter	**Account Code Mode**
Default	Optional
Value Range	**1.** Optional **2.** Verify-Toll **3.** Verify-All
Description/Function	Specifies one of the following three Account Code Entry modes. **1.** *Option mode* An extension user can enter any account code if needed. **2.** *Verified-Toll Restriction Override mode* An extension user can enter a pre-assigned account code to override toll restriction. **3.** *Verified-All Calls mode* An extension user must always enter a pre-assigned account code when making any of the following outside calls unless it has previously been stored in memory. • Last Number Redial • Saved Number Redial <PT only> • System Speed Dialling • One-Touch Dialling <PT only> • Station Speed Dialling • Trunk Access (Manual Dialling)
Reference	• 1.3 System Features (F/G) – Account Code Entry • 2.2.5 Calling without Restrictions (U/M)

Parameter	**SDN COS**
Default	Own Extension
Value Range	**1.** Own Extension **2.** PDN
Description/Function	This setting is applied when an extension user makes an outside call using an SDN button on his or her own extension. **1.** *Own Extension* COS (TRS level) of his / her own applies when making an outside call using the SDN button. **2.** *PDN* COS (TRS level) of the owner extension applies when making an outside call using the SDN button. (Assignable for a DN type PT user only.)
Reference	• 4.1.2 Customising the Buttons (U/M)

Parameter	**Off-Hook Call Announcement (OHCA)**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether to utilize OHCA / Whisper OHCA feature or not. **<u>Note</u>** • This setting is valid at the following PT extensions: KX-T7130, KX-T7235, KX-T7400 series PTs.

Reference	• 1.6 Originating Features (F/G)
	   – Off-Hook Call Announcement (OHCA)
	   – Off-Hook Call Announcement (OHCA), Whisper
	 • 2.7.3 Receiving a Call Waiting (Call Waiting / Off-Hook Call Announcement [OHCA] / Whisper OHCA) (U/M)

Parameter	**Released Link Operation**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Used to turn on / off "Released Link Operation" mode of the extension. When Released Link Operation is enabled, an extension user will be automatically released from a call (extension, outside) after transferring it to the destination, if the destination extension is idle. This feature simplifies the transfer operation by eliminating the need for going on-hook or pressing the RELEASE button after transferring the call. This feature is convenient for extension users, such as Operators, who handle a large volume of calls.
Reference	• 1.3 System Features (F/G) – Released Link Operation • 2.4.3 Transferring a Call (U/M)

Parameter	**Automatic Hold**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Used to turn on / off "Automatic Hold" feature.

Reference	• 1.10 Holding Features (F/G)
	  – Automatic Hold – All Calls
	  – Automatic Hold – Trunk

Parameter	**Charge Management**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables the ability of performing "Charge Management" feature.
Reference	• 1.3 System Features (F/G) — Charge Fee Reference • 4.2 Charge Fee Management (Station Programming) (U/M)

Parameter	ISDN CFU / CFB / CFNR
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables the ability of performing "Call Forwarding by ISDN Line, CFU / CFB / CFNR" feature. **<u>Note</u>** CFU (Call Forwarding Unconditional) CFB (Call Forwarding Busy) CFNR (Call Forwarding No Reply)
Reference	• 2.5 ISDN Transferring Features (F/G) – Call Forwarding by ISDN Line • 2.5.2 Forwarding Your Calls by ISDN (Call Forwarding by ISDN Provider) (U/M)

2.4.1   Trunk Group Setting

Used to specify the trunk group that the extension user can use for making an outside call.

The following screen is shown on the display by clicking ⌷Trunk Group Setting⌷ button on "Class of Service" screen.

Parameter	**Trunk Group No. 01-48 – Day / Night**
Default	All: Check
Value Range	**1.** No check [Restricted] **2.** Check [Not restricted]
Description/Function	Specifies the trunk group (01-48) which the extension user can use for making an outside call in Day / Night mode respectively on a COS number basis.
Reference	None

2.5 System Timer

2.5.1 System Timer 1 / 2

Used to assign various system timers.

Parameter	Hold Recall Time
Default	60 s
Value Range	0-240 s
Description/Function	Specifies the length of time in seconds that the system is to wait before alerting the extension user who held the call by Held Call Reminder ringing. The reminder tone is emitted every 5 seconds until the held call is retrieved, or until the caller hangs up. **Note** If "0" is specified, Hold Recall does not occur.
Reference	• 1.13 Audible Tone Features (F/G) – Hold Recall

Parameter	**Transfer Recall Time**
Default	12 rings
Value Range	0-48 rings
Description/Function	Specifies the number of rings before transfer recall occurs. If a transferred call is not answered before the programmed number of rings, the call returns to the extension user who originally transferred it or an Operator depending on the setting of Section 2.8 System Option, "6. Transfer recall destination." **Note** • If "0" is specified, Transfer Recall does not occur.
Reference	None

Parameter	**Pickup Dial Waiting Time**
Default	1 s
Value Range	1-5 s
Description/Function	Specifies the length of time in seconds that the system is to wait after an extension user goes off-hook for making a call before the system automatically dials the pre-assigned telephone number for Pickup Dialling. **Note** • This waiting time gives the extension user an opportunity to dial another number before automatic dialling is performed.
Reference	• 1.7 Dialling Features (F/G) – Pickup Dialling (Hot Line) • 2.2.2 Easy Dialling (U/M)

Parameter	**Call Duration Count Start Time**
Default	0 s
Value Range	0-60 s
Description/Function	Specifies the length of time in seconds the system is to wait after sending all dialling digits to the Central Office before starting the call duration count. **Note** • The elapsed time of the call duration is shown on a display PT.
Reference	• 1.3 System Features (F/G) – Station Message Detail Recording (SMDR)

Parameter	**First Digit Time**
Default	10 s
Value Range	5-120 s
Description/Function	Specifies the maximum time allowed between the start of an outside dial tone and the first digit dialled on an outgoing call.
Reference	None

Parameter	**Inter-digit Time**
Default	5 s
Value Range	1-30 s
Description/Function	Specifies the maximum time allowed between each digit on an outgoing call. **Note** • This timer applies to the call until the Toll Restriction check is completed.
Reference	None

Parameter	**Intercept Time**
Default	12 rings
Value Range	3-48 rings
Description/Function	Specifies the number of rings the system is to wait before activating IRNA (Intercept Routing No Answer) feature. If an incoming CO call directed to a single extension is not answered within this timer, IRNA redirects the call to another pre-programmed destination. **Note** • Call Forwarding-No Answer Time will override this timer if an extension has enabled Call Forwarding-No Answer.
Reference	• 1.11 Transferring Features (F/G) – Intercept Routing

Parameter	**Call Forwarding- No Answer Time**
Default	3 rings
Value Range	1-12 rings
Description/Function	Specifies the number of rings before the Call Forwarding No Answer feature is activated. If a call is not answered before the programmed number of rings, the call is redirected to the pre-assigned extension. **Note** • This timer is also used for Intercept Routing. If an incoming DISA call to the Intercept Routing destination is not answered before this timer expires, the call will be disconnected.
Reference	• 1.11 Transferring Features (F/G) – CALL FORWARDING – A SUMMARY • 2.5.1 Forwarding Your Calls (Call Forwarding) (U/M)

Parameter	**Extension-to-CO Line Call Duration Time**
Default	10 min
Value Range	1-64 min
Description/Function	Specifies the maximum time allowed for a call with an outside party. This time limit can apply to outgoing CO calls only or both outgoing and incoming CO calls. See "5. Limited call duration" in section 2.8 System Option. **Note** • This timer applies to the extension user who is restricted by COS programming "Time Limit of Outside Calls."
Reference	None

Parameter	**CO-to-CO Line Call Duration Time**
Default	10 min
Value Range	1-64 min
Description/Function	Specifies the maximum time allowed for a call between two outside parties (CO-to-CO line call). If this timer expires during a CO-to-CO line call, it will be disconnected.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	Automatic Redial Interval Time
Default	60 s
Value Range	30-1200 s
Description/Function	Specifies the interval time between each Automatic Redial attempt.
Reference	• 1.7 Dialling Features (F/G) – Redial, Automatic

Parameter	Automatic Redial Repeat Times
Default	4 times (BX), 10 times (SA)
Value Range	0-30 times
Description/Function	Specifies the number of times Automatic Redial is repeated. Automatic Redialling of the last dialled number, saved number or call log number is done up to the specified number of times.
Reference	• 1.7 Dialling Features (F/G) – Redial, Automatic

Parameter	Door Opener Time
Default	5 s
Value Range	0-10 s
Description/Function	Specifies the door opening duration.
Reference	• 1.3 System Features (F/G) – Door Opener • 2.8.1 If a Doorphone / Door Opener is Connected (U/M)

2.5.2   System Timer 2 / 2

Parameter	**Timed Reminder Ringing Time**
Default	30 s
Value Range	30-240 s
Description/Function	Specifies the length of ringing time in seconds of the Timed Reminder alarm.
Reference	• 1.8 Ringing Features (F/G) – Timed Reminder (Wake-Up Call) • 2.7.1 Setting the Alarm (Timed Reminder) (U/M)

Parameter	**Call Parking Recall Time**
Default	60 s
Value Range	0-1800 s
Description/Function	Specifies the length of time in seconds the system is to wait before alerting (Call Parking Recall) the extension who parked the call. **Note** If "0" is specified, Call Parking Recall does not occur.
Reference	• 1.10 Holding Features (F/G) – Call Park • 2.4.1 Holding a Call (U/M)

Parameter	**TIE Inter-digit Time**
Default	5 s
Value Range	3-30 s
Description/Function	Specifies the maximum time allowed between digits on a TIE call after it was received by the system.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**DISA Prolong Time**
Default	3 min
Value Range	0-7 min
Description/Function	A CO-to-CO line call duration is initially limited by "CO-to-CO Line Call Duration Time." However, prolonging the CO-to-CO call duration is possible. To prolong his / her call, the caller should press any dialpad key except ✲. The amount of prolonging is set by "DISA Prolong Time" (0 to 7 minutes). (If this is set to zero, then prolonging is disabled.) Depending on "13. DISA prolong operation" (See Section 2.8 System Option), the call can be prolonged 10 times or without limit.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**DISA Delayed Answer Time**
Default	1 ring
Value Range	0-6 rings
Description/Function	Specifies the number of rings the system is to wait after receiving a DISA call before answering it. **Note** • A DISA call is answered after a ringback tone is returned to the caller after the "DISA Delayed Answer Time" expires. The DISA caller can dial while hearing the OGM message.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**DISA Automated Attendant Time**
Default	1 s
Value Range	1-5 s
Description/Function	Specifies the length of time in seconds the system is to wait before recognizing the first digit as a DISA Automated Attendant number. If this timer expires before the second digit is dialled, the system assumes that the first digit is a DISA built-in auto attendant number.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**DISA IRNA Time**
Default	60 s
Value Range	5-240 s
Description/Function	Specifies the length of time in seconds the system is to wait before activating IRNA (Intercept Routing No Answer) feature for DISA calls. If a DISA call directed to a single extension is not answered within this timer, the system redirects the DISA call to another pre-programmed IRNA destination. **<u>Note</u>** • Call Forwarding- No Answer Time will override this timer if an extension has enabled Call Forwarding- No Answer.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**Intercept Timer after OGM**
Default	5 s
Value Range	**1.** 0: Immediately **2.** 5: 5 s later
Description/Function	Specifies the length of time in seconds the system is to wait after sending OGM before directing the call to the IRNA destination.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

2.6   Local Hunt Sequence

Specifies the trunk group hunt sequence to be used when an extension user attempts to make an outside call by dialling the feature number for "Local CO Line Access / ARS" or by pressing a Loop-CO key.

Parameter	**Trunk Group No.**
Default	01: 1, Others: None
Value Range	None, 1-48
Description/Function	Specifies the trunk group (1-48) in hunting order.
	Notes
	• Local Hunt Sequence works only if ARS (Automatic Route Selection) mode is turned off.
	• The sequence can be used by any extension user in the system regardless of the tenant but trunk groups will be skipped if they do not belong to the same tenant as the extension user.
Reference	• 1.6 Originating Features (F/G) – Trunk Access, Idle

2.7   Trunk to Trunk Restriction

Used to allow or restrict the trunk-to-trunk relay function (routing a trunk call from one Trunk
Group to another) on a trunk group basis.
Refer to "TIE LINES – Alternate Routing" in the Features Guide for further information.

Parameter	Source Trunk Group No.
Default	1
Value Range	1-48
Description/Function	Specifies the source trunk group (the first point of trunk-to-trunk relay) number which you are going to programme.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	Destination Trunk Group No. (1-48)
Default	No check
Value Range	**1.** No check [Restricted] **2.** Check [Not restricted]
Description/Function	Specifies the destination trunk group (the second point of trunk-to-trunk relay) number which you allow to accept a trunk call from the source trunk group.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

2.8   System Option

2.8.1   System Option 1 / 4

Used to assign system option parameters (No.1 — No.10).

Parameter	**1. Sound source during transfer**
Default	Music on Hold
Value Range	**1.** Ringback Tone **2.** Music on Hold
Description/Function	Used to determine whether the system sends "Music on Hold" or "Ringback Tone" to the party being transferred. "Ringback Tone" is available when Music on Hold is not provided by the system.
Reference	• 1.11 Transferring Features (F/G) – CALL TRANSFER – A SUMMARY • 2.4.3 Transferring a Call (U/M)

Parameter	**2. SLT On-hook with consulting held call**
Default	Consulting Hold
Value Range	**1.** Consulting Hold **2.** Disconnect
Description/Function	Specifies the result of pressing the switchhook lightly and then replacing the handset during an outside call. This setting applies to SLT users only.
Reference	• 1.10 Holding Features (F/G) – Consultation Hold

Parameter	**3. FLASH button operation while CO talking**
Default	Release the trunk
Value Range	**1.** Release the trunk **2.** Don't release the trunk
Description/Function	Specifies the result of pressing the FLASH button on PT during an outside call.
Reference	• 1.12 Conversation Features (F/G) – External Feature Access

Parameter	**4. FLASH button operation when "Don't release the trunk" is selected at #3**
Default	Disconnect and hear CO dial tone
Value Range	**1.** Disconnect and hear CO dial tone **2.** Sending EFA signal
Description/Function	Specifies the result of pressing the FLASH button on PT during an outside call when "Don't release the trunk" is selected in field 3.
Reference	• 1.12 Conversation Features (F/G) – External Feature Access

Parameter	5. Limited call duration
Default	Both calls
Value Range	**1.** Outgoing call only **2.** Both calls
Description/Function	Limited call duration is a system programmable feature that disconnects an outside call when a specified timer expires. A warning tone is sent to the extension user 15 seconds, 10 seconds, and 5 seconds before the time-limit. "Both calls" means incoming and outgoing calls. **Note** • This setting applies to the extension on which "Time Limit of Outside Calls" is enabled by COS programming.
Reference	• 1.3 System Features (F/G) – Limited Call Duration

Parameter	6. Transfer recall destination
Default	Originating extension
Value Range	**1.** Originating extension **2.** Operator
Description/Function	Specifies whether Transfer Recall occurs at the transfer originating extension or at Operator Group extensions, if the call (both inside and outside) transferred to an extension is not answered within a specified period of time.
Reference	• 1.11 Transferring Features (F/G) – CALL TRANSFER – A SUMMARY

Parameter	**7. Checking dial *, # by toll restriction**
Default	Check
Value Range	**1.** No check [Disable] **2.** Check [Enable]
Description/Function	Specifies whether or not the system checks the user-dialled "✕" and "#" during Toll Restriction procedure. **Note** • This assignment is required for certain Central Offices (CO) to prevent toll fraud. Some Central Offices ignore the user-dialled "✕" and "#." If your CO is such a type, select "No check."
Reference	• 1.6 Originating Features (F/G) – Toll Restriction for Special Carrier Access

Parameter	**8. Confirmation tone for Override, Barge-in, Conference and Privacy Release**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Allows you to remove Confirmation Tone 4. This tone is sent when a three-party conference is established / finished.
Reference	• 1.13 Audible Tone Features (F/G) – Confirmation Tones

Parameter	**9. Confirmation tone for Call Pickup, Paging-Answer, TAFAS-Answer, Hold Retrieve and Call Park Retrieve**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Allows you to remove Confirmation Tone 3. This tone is sent when a conversation is established just after an extension user dials the feature number for accessing the following features: Call Pickup, Paging – Answer, TAFAS – Answer, Hold Retrieve and Call Park Retrieve.
Reference	• 1.13 Audible Tone Features (F/G) – Confirmation Tones

Parameter	10. Station Speed Dialing Initial display
Default	Name
Value Range	**1.** Name **2.** Number
Description/Function	Specifies the initial display of a display DPT, such as KX-T7235 / KX-T7436, in Station Speed Dialling.
Reference	• 2.10.4 Using the KX-T7433, KX-T7436 or KX-T7235 (U/M)

2.8.2   System Option 2 / 4

Used to assign system option parameters (No.11 – No.20).

Parameter	11. Sending pulse signal during CO call
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables sending pulse dialling signals during an outside call.
Reference	None

Parameter	**12. Automatic adjustment of the clock using Caller ID information**
Default	No
Value Range	**1.** Yes **2.** No
Description/Function	Enables or disables the automatic adjustment of the clock by Caller ID information once a day.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**13. DISA prolong operation**
Default	No limits
Value Range	**1.** Limited (10 times) **2.** No limits
Description/Function	Specifies the number of times that the DISA caller can prolong the duration of DISA CO-to-CO line call.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**14. Dialing "*" in DISA CO-to-CO talking**
Default	Disconnect and make a new call
Value Range	**1.** Disconnect and make a new call **2.** Send out Dial "✳"
Description/Function	The "✳" key can be entered during a DISA CO-to-CO line call. The action taken by the system depends upon this setting. If "Disconnect and make a new call " is selected, then the system will disconnect the current call and prepare for a new call. Otherwise, the ✳ will be transmitted down the line to the other party.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**15. Special dial tone after setting feature**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	If enabled, the system notifies the extension user by sending a special dial tone (Dial Tone 2) when one or more of the following features are assigned on his / her extension. • Absent Message Capability • Background Music (BGM) • Call Forwarding • Call Pickup Deny • Call Waiting • Data Line Security • Do Not Disturb (DND) • Electronic Station Lockout • Executive Busy Override Deny • Paging Deny • Pickup Dialling • Timed Reminder Also enabled is Dial Tone 4 (indicates that messages are waiting). **Note** • Dial Tone 3 is not affected by this setting.
Reference	• 5.4 What is This Tone? (U/M)

Parameter	**16. Duration starting mode**
Default	Answer or Time-out
Value Range	**1.** Answer or Time-out **2.** Answer
Description/Function	Specifies the call duration count start timing.
Reference	None

Parameter	**17. Destination Busy - DISA**
Default	Send busy tone
Value Range	**1.** Send busy tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of DISA callers when they dial a busy extension.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**18. Destination Busy - DDI / DID**
Default	Send busy tone
Value Range	**1.** Send busy tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of DDI / DID callers when they dial a busy extension.

Reference	• 1.5 Attended Features (F/G)
	    – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	    – Direct Dialling In (DDI)

Parameter	**19. Destination Busy - TIE**
Default	Send busy tone
Value Range	**1.** Send busy tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of TIE callers when they dial a busy extension.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	20. Off-hook Monitor
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables "Off-hook Monitor" feature on a system-wide basis. This feature allows a PT user on a handset call to let other people around him / her monitor the call by pressing the SP-PHONE button. **<u>Note</u>** • This setting applies to the following KX-T7400 series PTs only: KX-T7431, KX-T7433, KX-T7436
Reference	• 1.12 Conversation Features (F/G) – Off-Hook Monitor • 2.4.7 Letting Other People Listen to the Conversation (Off-Hook Monitor) [KX-T7431, KX-T7433 and KX-T7436 only] (U/M)

2.8.3   System Option 3 / 4

Used to assign system option parameters (No.21 — No.30).

Message waiting lamp patterns

The available message waiting lamp patterns are as follows:

Pattern #07

Pattern #08

Pattern #09

Pattern #10

Pattern #11

Pattern #12
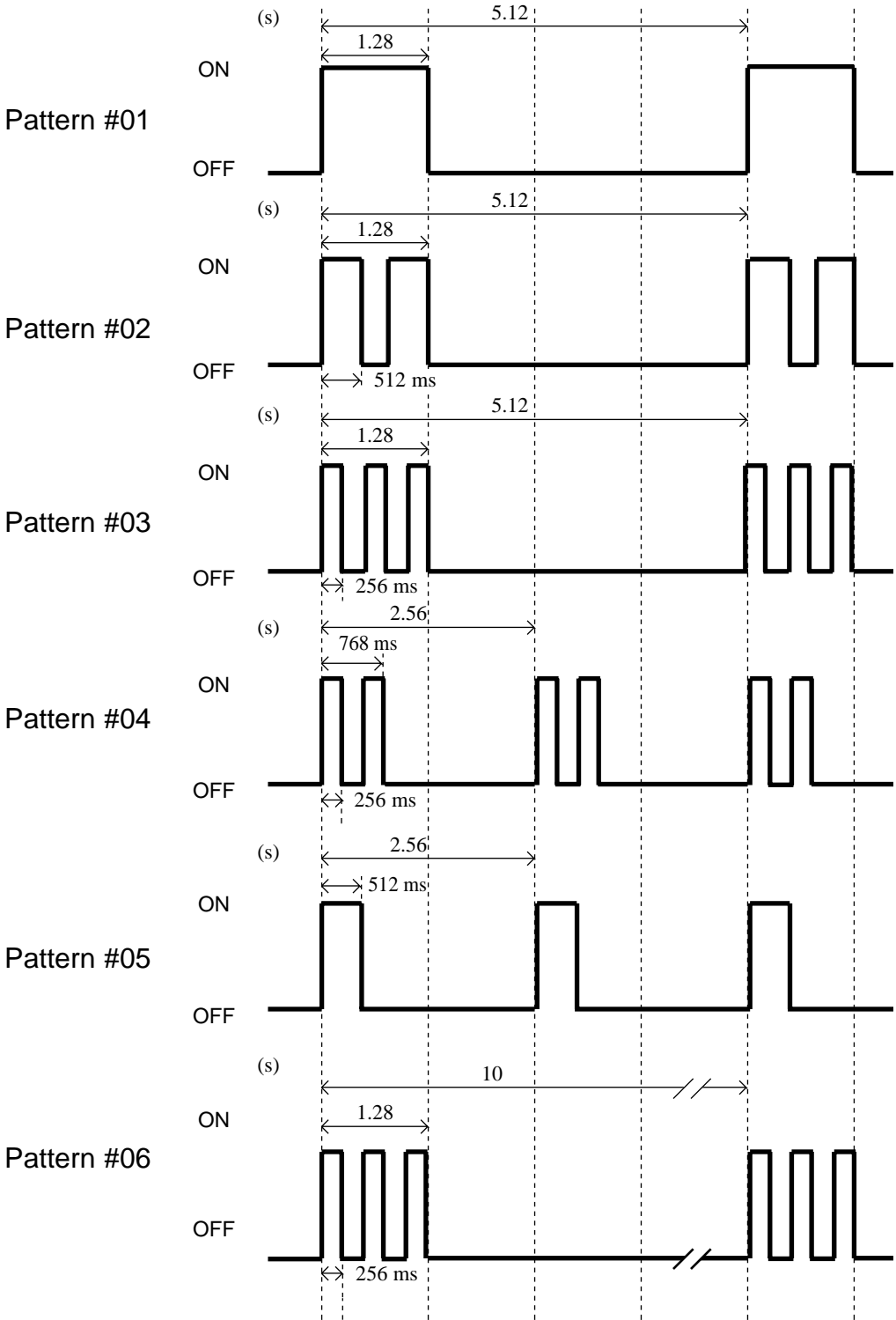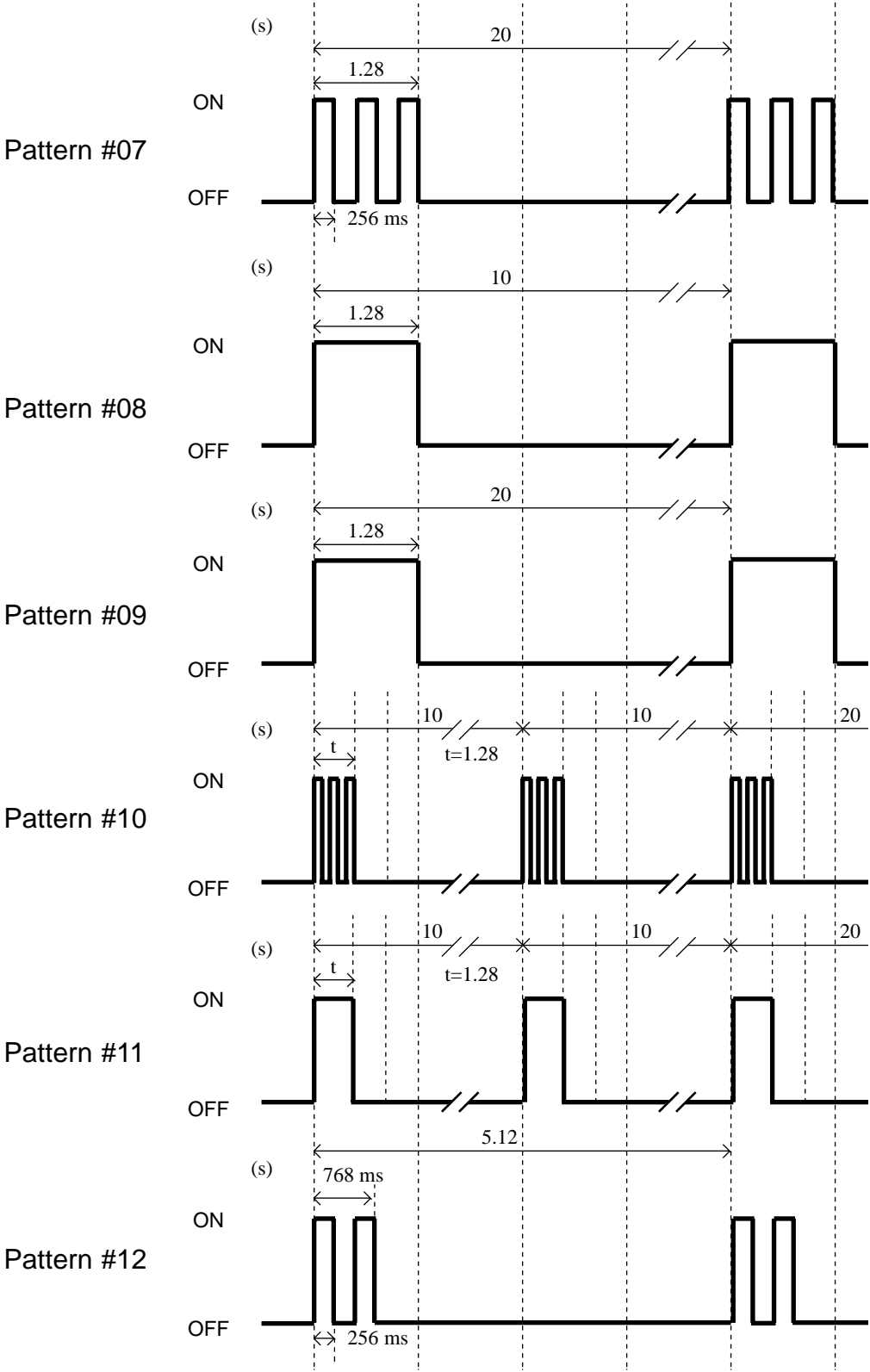
Parameter	**21. Illegal Number - DISA**
Default	Send reorder tone
Value Range	**1.** Send reorder tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of the invalid DISA calls.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**22. Illegal Number - DDI / DID**
Default	Send reorder tone
Value Range	**1.** Send reorder tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of the invalid DDI / DID calls.

Reference	• 1.5 Attended Features (F/G)
	    – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	    – Direct Dialling In (DDI)

Parameter	**23. Illegal Number - TIE**
Default	Send reorder tone
Value Range	**1.** Send reorder tone **2.** Transferred to IRNA destination
Description/Function	Specifies the treatment of the invalid TIE calls.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**24. Sending dial tone to TIE trunk**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the system sends a dial tone to a TIE caller after recognizing an incoming TIE call.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**25. Pressing DSS key operation in CO talking**
Default	Hold
Value Range	**1.** Disconnect **2.** Hold
Description/Function	If set to "Hold," the PT user engaged in a CO call can transfer the current call to another extension simply by pressing the DSS button associated with the destination extension.
Reference	• 1.11 Transferring Features (F/G) – One-Touch Transfer

Parameter	**26. Pressing CO key operation in CO talking**
Default	Hold
Value Range	**1.** Disconnect **2.** Hold
Description/Function	If set to "Hold", the PT user engaged in a CO call can, with a single operation (press a CO key), hold the current call and then either get another CO line or answer another CO call.
Reference	• 1.10 Holding Features (F/G) – Automatic Hold – All Calls

Parameter	**27. Message Waiting lamp pattern**
Default	#11
Value Range	#01-#12
Description/Function	Specifies a light pattern of the Message Lamp of an SLT. **<u>Note</u>** • Message waiting lamp pattern list is provided on Page 93.
Reference	• 1.17 Display Features (F/G) – Message Waiting • 2.2.4 When the Dialled Line is Busy or There is No Answer (U/M)

Parameter	**28. Trunk hunting mode**
Default	Forced
Value Range	**1.** Forced **2.** Loop Detection
Description/Function	Specifies the trunk hunting mode. **1.** *Forced* The system seizes a trunk line whether or not loop current is detected from the local CO. **2.** *Loop Detection* The system seizes a trunk line after detecting loop current from the local CO.
Reference	• 3.2 Trunk Group (P/G)

Parameter	**29. Card CODEC**
Default	-law
Value Range	**1.** μ -law **2.** A-law
Description/Function	Specifies the PCM (Pulse Code Modulation) conversion mode of KX-T96xxx series trunk and extension cards. **<u>Note</u>** • This setting is required when XMX (for Mexico) type KX-T96xxx series trunk cards are installed in the system. In this case, select "A-law."
Reference	None

Parameter	**30. Net CODEC**
Default	A-law (BX,SA)
Value Range	**1.** μ -law **2.** A-law **<u>Note</u>** • The change of this parameter is activated after resetting the system.
Description/Function	Specifies the type of PCM (Pulse Code Modulation) conversion mode compatible with the Digital Network to which the system is connected.
Reference	None

2.8.4   System Option 4 / 4

Used to assign system option parameters (No.31 – No.49).

Parameter	**31. Answering Call Waiting call by SLT hooking**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	If enabled, an SLT user can answer a call-waiting call simply by flashing the switchhook.
Reference	• 1.9 Answering Features (F/G) – Call Waiting

Parameter	**32. Whisper OHCA to extensions other than T74 / 75XX**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	If enabled, an extension user can make a Whisper OHCA call to extensions other than KX-T7400 series PT.
Reference	• 1.6 Originating Features (F/G) – Off-Hook Call Announcement (OHCA), Whisper • 2.7.3 Receiving a Call Waiting (Call Waiting / Off-Hook Call Announcement [OHCA] / Whisper OHCA) (U/M)

Parameter	**33. FWD / DND lamp pattern**
Default	FWD: Flash, DND: On
Value Range	**1.** FWD: Flash, DND: On **2.** FWD: On, DND: Flash
Description/Function	Specifies the lamp patterns of the FWD / DND button.

Reference	• 1.8 Ringing Features (F/G)
	    – Do Not Disturb (DND)
	• 1.11 Transferring Features (F/G)
	    – CALL FORWARDING – A SUMMARY

Parameter	**34. ELCOT / LCOT Busy-out Loop Relay**
Default	OFF
Value Range	**1.** ON **2.** OFF
Description/Function	When a CO line is busied out manually by the Manager / an Operator or automatically by the system, the state of Loop Relay is controlled by this setting.
Reference	• 1.3 System Features (F/G) – Trunk Busy-out

Parameter	**35. GCOT Busy-out Loop Relay**
Default	OFF-RING-OPEN
Value Range	**1.** ON **2.** OFF-RING-GND **3.** OFF-RING-OPEN
Description/Function	Specifies whether a CO line is busied out manually by the Manager / an Operator or automatically by the system. The state of Loop Relay and Ring-FG are controlled by this setting.
Reference	• 1.3 System Features (F/G) – Trunk Busy-out

Parameter	**36. Tone Mode**
Default	Type-1 (BX), Type-3 (SA)
Value Range	**1.** Type-1 **2.** Type-2 **3.** Type-3 **4.** Type-4 **5.** Type-5 **6.** Type-6 **7.** Type-7
Description/Function	Specifies the Tone output type.
Reference	None

Parameter	**37. Ring Mode**
Default	Type-1 (BX), Type-3 (SA)
Value Range	**1.** Type-1 **2.** Type-2 **3.** Type-3 **4.** Type-4 **5.** Type-5 **6.** Type-6
Description/Function	Specifies the Rigning Tone type. **<u>Note</u>** • The change of this parameter is activated after resetting the system.
Reference	None

Parameter	**38. First Digit Time-out Process**
Default	Don't release the trunk
Value Range	**1.** Release the trunk **2.** Don't release the trunk
Description/Function	Specifies the treatment of trunk line when no digits are dialled before the First Digit timer expires.
Reference	None

Parameter	**39. Extension CPC Signal**
Default	None
Value Range	None, 16 - 240 ms in 16 ms increments
Description/Function	Specifies whether or not the system sends the CPC signal to an extension.
Reference	None

Parameter	**40. TSW Tone Selection**
Default	TONE-C (BX), TONE-A (SA)
Value Range	**1.** TONE-A **2.** TONE-B **3.** TONE-C **4.** TONE-D
Description/Function	Specifies the tone pattern in the TSW Tone ROM.
Reference	None

Parameter	**41. Fixed Feature Number**
Default	Type-1 (BX), Type-2 (SA)
Value Range	**1.** Type-1 **2.** Type-2
Description/Function	Specifies a type of Fixed Feature Numbers.
Reference	• 1.3 System Features (F/G) 　　– Flexible Numbering • 5.2 Feature Numbers List (U/M)

Parameter	**42. DPT Ringer OFF**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether the Ringing tone of DPTs (Digital Proprietary Telephones) can be turned off or not.
Reference	None

Parameter	**43. LCD Time Display Mode**
Default	12h
Value Range	**1.** 12h **2.** 24h
Description/Function	Specifies the time display on the LCD in 12-hour or 24-hour notation.
Reference	• 1.17 Display Features (F/G) – Display, Date and Time

Parameter	**45. Flash Signal before CO Disconnect**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the system sends the FLASH signal to the Central Office after the CO call is terminated. (Used to receive pay tones after the termination of the call.)
Reference	None

Parameter	**46. Date Display**
Default	M / D / Y
Value Range	**1.** M / D / Y **2.** D / M / Y
Description/Function	Specifies a date display format appropriate to your area.
Reference	• 1.17 Display Features (F/G) – Display, Date and Time

Parameter	**47. Tone Type for Outgoing Calls**
Default	Busy + Reorder
Value Range	**1.** Busy + Reorder **2.** Busy **3.** Reorder
Description/Function	Specifies a tone type for outgoing calls.
Reference	None

Parameter	**48. Call Pickup with DSS S-CO key**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	By default, an S-CO button assigned to a DSS button (on a DSS Console) is available for monitoring the call activity only, not available for making / receiving a call. If this parameter is enabled, an S-CO button (on a DSS Console) can be used to answer the incoming CO call on the S-CO button and retrieve the CO call held on the S-CO button.
Reference	• 1.16 Button Features (F/G) – BUTTON, LINE ACCESS – A SUMMARY

Parameter	**49. LCD Display Mode while CO talking**
Default	Caller ID
Value Range	**1.** Caller ID **2.** Duration
Description/Function	Specifies the initial display, Caller ID or Call Duration, which is shown on the display while CO talking.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

2.9   Language Data

Display Language

The KX-TD500 System provides two different languages as the Display Language at the same time, which is shown on the display of a Panasonic Proprietary Telephone (PT).   Each PT user can choose **English (default) or Optional Language**, so PTs on the same KX-TD500 System can display different languages.

Optional Language

One of the following four Optional Languages is available with the KX-TD500 System:
French, Dutch, Spanish or Portuguese.
French is stored as the default Optional Language at the factory.

Language Data File

If you want to use the Optional Language other than French, please upload the appropriate Language Data File distributed with the PC System Programming Installation media.

< Uploading the Language Data to the KX-TD500 System >

1. Start up the System in on-line mode.
2. Connect the PC System Programming device (Windows PC) to the KX-TD500 System and go into the Interactive mode.
3. Point to "2-8 Language Data" from the "Programming - 2. System" drop-down menu and click.
   - The "Language Data Selection" dialogue box is displayed.
4. Select the appropriate Language Data file and click "OK."
   - Uploading of the Language Data from PC to the KX-TD500 System begins.
   - Uploading takes about 5 minutes.

< System Programming >

When the uploading of the Language Data is finished;

1. Go to "4-2 Extension Line" screen and choose "Option" in "Language" menu.
2. Click "OK" or "Apply" to save the data change.

<u>**Notes**</u>
- The uploaded Language Data remains intact after the termination of system operation / system reset.
- To clear the uploaded Language Data, set the Operation Switch (MODE) to the position "5" and start up the system in off-line mode.

- You can upload the Language Data after uploading the system data. When system data upload is finished, the "Language Data Selection" dialogue box is displayed. Then you can upload the Language Data in the same way as described in <Uploading the Language Data to the KX-TD500 System>.

Section 3
Group

3.1   Group

Used to assign various group parameters.

3.2   Trunk Group

Used to assign parameters for each trunk group.

3.2.1   Trunk Group - Copy

Used to copy a part of or all settings of a certain Trunk Group to all other Trunk Groups at a time. You can also specify one or several Trunk Groups as the copy destination.

Copying the Trunk Group Parameters to Other Trunk Groups

1. Edit the parameters of the copy source Trunk Group and save it.
2. Point to the "Copy" button in the Trunk Group screen of the copy source and click.
   - "Trunk Group Copy" screen is displayed.
   - The current Trunk Group (copy source) number is shown as "Copy from Trunk Group 1-48."

3. Select the Trunk Group parameters to copy in "Copy Item" field.

- Items marked with " ✔" are copied.

4. Point to the "Select All" button in the "Destination Trunk Group" field and click.

- All displayed Trunk Group Nos. will be marked with " ✔".
- You can also specify one or several Trunk Groups as the copy destination by clicking it (them) directly.

5. Point to the "Execute" button and click.

- "Are you sure?" is displayed.

6. Point to the "Yes (Y)" button and click.

- "Copying" is displayed while the source data is being copied to the destination.
- Parameters of the destination Trunk Groups are immediately effective when copying is finished.

Parameter	**Group No.**
Default	1
Value Range	1-48
Description/Function	Specifies the trunk group (1-48) which you are going to programme.
Reference	None

Parameter	**Type**
Default	Public
Value Range	**1.** Public **2.** Private **3.** VPN (Virtual Private Network)
Description/Function	Specifies the Network type for the trunk gruop.
Reference	None

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies a tenant number (1-8) to which the trunk group is assigned. (This setting is required when "Tenant Service" is employed.)
Reference	• 1.3 System Features (F/G) – Tenant Service • 2.2 Tenant (P/G)

Parameter	**Intercept Destination – Day / Night**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the destination extension (3 or 4 digits) for Intercept Routing feature in both Day and Night modes respectively. **<u>Note</u>** • Intercept Routing provides an automatic re-direction of calls that have not been answered.
Reference	• 1.11 Transferring Features (F/G) – Intercept Routing

Parameter	**Line Hunting Order**
Default	Normal
Value Range	**1.** Normal **2.** Reverse **3.** Sequential
Description/Function	Specifies the hunting sequence of idle lines on a trunk group basis. **1.** *Normal* The system connects the user to an idle trunk line with the lowest physical number. **2.** *Reverse* The system connects the user to an idle trunk line with the highest physical number. **3.** *Sequential* To avoid repeated use of the same trunk line, rotation is performed in numerical order (from the lowest to the highest trunk port physical number.) Busy lines are skipped, of course.
Reference	• 2.8 System Option (P/G)

Parameter	**Disconnecting Time**
Default	1.5 s
Value Range	**1.** 0.5 s **2.** 1.5 s **3.** 2.0 s **4.** 4.0 s **5.** 12.0 s
Description/Function	Specifies the maximum time in seconds the system is to wait after releasing the trunk line before getting it again. **Note** • This allows the Central Office an opportunity to release its resources before another trunk call is placed from the PBX.
Reference	None

Parameter	**Pause Time**
Default	1.5 s
Value Range	**1.** 1.5 s **2.** 2.5 s **3.** 3.5 s **4.** 4.5 s
Description/Function	Specifies the length of pause time (dialling delay). The programmed pause time is automatically inserted after a line access code or a host PBX access code, or manually inserted if the PAUSE button is pressed by the extension user.
Reference	• 1.3 System Features (F/G) – Host PBX Access • 2.8.2 If a Host PBX is Connected (U/M)

Parameter	**Pause Time before Flash Siganl**
Default	512 ms
Value Range	**1.** None **2.** 512 ms **3.** 1024 ms **4.** 1536 ms **5.** 2048 ms
Description/Function	Specifies the pausing time required before sending the Flash Signal.
Reference	None

Parameter	**Flash Time**
Default	600 ms (BX), 80 ms (SA)
Value Range	**1.** None **2.** 80 ms **3.** 300 ms **4.** 600 ms **5.** 900 ms **6.** 1200 ms
Description/Function	Specifies the length of flash time. **Notes** • When you need finer resolution, assign this to 80 ms and use "Flash Time" of Card Properties (ELCOT) in "1-1 Slot Assignment" screen. • You must use "Flash Time" of Card Properties (ELCOT) when your Central Office requires a Flash Time not listed here. • Please refer to "Help file" for detailed information on "Card Properties (ELCOT)."
Reference	None

Parameter	**Max. Dial No. after EFA Signal**
Default	0
Value Range	0-32
Description/Function	Specifies the maximum dialling digits allowed after sending EFA (External Feature Access) signal. **Note** • If set to "0," the dialling digits can be sent without limitation.
Reference	• 1.12 Conversation Features (F/G) – External Feature Access • 2.8.2 If a Host PBX is Connected (U/M)

Parameter	**PBX Access Code**
Default	Blank
Value Range	1-4 digits consisting of 0-9, $\ast$ or #
Description/Function	Specifies the PBX access codes required to access the Host PBX or Centrex service. If the system is installed behind a host PBX or a Centrex system, an access code is required to make an outside / Centrex call or to access Centrex features. Up to four codes can be assigned per Trunk Group.
Reference	• 1.3 System Features (F/G) – Host PBX Access • 2.8.2 If a Host PBX is Connected (U/M)

Parameter	**PBX Dial Tone**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	If enabled, the system sends a dial tone to the extension user who seizes an E1 / T1 digital trunk line. **Note** • In case of the E1 / T1 digital trunk line, the Central Office dose not send a dial tone to the caller. (Available for E1 / T1 digital trunk lines only.)
Reference	• 1.3 System Features (F/G) – E1 Carrier

Parameter	**PBX Ringback Tone**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the system sends a ringback tone to the extension user who seizes an E1 / T1 digital trunk line. **Note** • In case of the E1 / T1 digital trunk line, the Central Office does not send a ringback tone to the caller. (Available for E1 / T1 digital trunk lines only.)
Reference	• 1.3 System Features (F/G) – E1 Carrier

Parameter	**Cyclic Signal Detection**
Default	Check
Value Range	**1.** No check [Disable] **2.** Check [Enable]
Description/Function	Used to disconnect the trunk line if the system detects a cyclic signal during a CO-to-CO line call by DISA or AGC.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**Continuous Signal Detection**
Default	Check
Value Range	**1.** No check [Disable] **2.** Check [Enable]
Description/Function	Used to disconnect the trunk line if the system detects a continuous signal during a CO-to-CO line call by DISA or AGC.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**Silence Detection**
Default	Check
Value Range	**1.** No check [Disable] **2.** Check [Enable]
Description/Function	Used to disconnect the trunk line if the system detects no signal during a CO-to-CO line call by DISA or AGC.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**[Numbering Plan ID] Outgoing—Public**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** ISDN / Telephony **4.** National Standard **5.** Private
Description/Function	Specifies the Numbering Plan ID applied to the outgoing CO calls via ISDN Public Network.
Reference	None

Parameter	**[Numbering Plan ID] Outgoing—Private**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** ISDN / Telephony **4.** National Standard **5.** Private
Description/Function	Specifies the Numbering Plan ID applied to the outgoing CO calls via ISDN Private Network.
Reference	None

Parameter	**[Numbering Plan ID] Incoming—Public**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** ISDN / Telephony **4.** National Standard **5.** Private
Description/Function	Specifies the Numbering Plan ID applied to the incoming CO calls via ISDN Public Network.
Reference	None

Parameter	**[Numbering Plan ID] Incoming—Private**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** ISDN / Telephony **4.** National Standard **5.** Private
Description/Function	Specifies the Numbering Plan ID applied to the incoming CO calls via ISDN Private Network.
Reference	None

Parameter	**[Type of Number] Outgoing—Public**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** International **4.** National **5.** Network Specific **6.** Subscriber
Description/Function	Specifies the Type of Number applied to the outgoing CO calls via ISDN Public Network.
Reference	None

Parameter	**[Type of Number] Outgoing—Private**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** International **4.** National **5.** Network Specific **6.** Subscriber
Description/Function	Specifies the Type of Number applied to the outgoing CO calls via ISDN Private Network.
Reference	None

Parameter	**[Type of Number] Incoming—Public**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** International **4.** National **5.** Network Specific **6.** Subscriber
Description/Function	Specifies the Type of Number applied to the incoming CO calls via ISDN Public Network.
Reference	None

Parameter	**[Type of Number] Incoming—Private**
Default	Default
Value Range	**1.** Default **2.** Unknown **3.** International **4.** National **5.** Network Specific **6.** Subscriber
Description/Function	Specifies the Type of Number applied to the incoming CO calls via ISDN Private Network.
Reference	None

3.3   Extension Group

Used to assign various parameters for up to 128 (1-128) Extension Groups.
Which parameters apply to your Extension Group?
Please see the table on the Page 121 and Page 122

Note

By default, the Group Type of Group No.126 is VM, No.127 is AA and No.128 is Operator.

Applicability of parameters to Group types

Parameter	Group Type							
	None	**Ter.**	**Cir.**	**Ring**	**Ope.**	**VM**	**AA**	**UCD**
Group No.	✔	✔	✔	✔	✔	✔	✔	✔
FDN	✔	✔	✔	✔	✔	✔	✔	✔
Tenant No.	✔	✔	✔	✔	✔	✔	✔	✔
Overflow Destination		✔	✔		✔	✔	✔	✔
Overflow Timer					✔			
FWD / DND Mode		✔	✔					✔
Extension Call Hunting		✔	✔					
Ringing Type					✔			
Call Priority					✔			
Time Table No.								✔
FWD No Answer								✔
Auto LOGOUT Mode								✔
Supervisor Extension								✔
LOGIN Monitor								✔
UCD Call Waiting								✔

(✔ = assignable)

Applicability of Group types to overflow destinations

Group Type	Overflow Destination						
	DN	**External Pager**	**OGM Group**	**Extension Group**	**Phantom Extension**	**RMT**	**DIL 1:N Group**
None							
Terminate	✔						
Circular	✔						
Operator	✔			✔	✔		

Applicability of Group types to overflow destinations

VM	✔						
AA	✔						
UCD	✔	✔		✔	✔		

(✔ = assignable)

3.3.1 Extension Group - Copy

Used to copy a part of or all settings of a certain Extension Group to all other Extension Groups at a time. You can also specify one or several Extension Groups as the copy destination.

Copying the Extension Group Parameters to Other Extension Groups

1. Edit the parameters of the copy source Extension Group and save it.
2. Point to the "Copy" button in the Extension Group screen of the copy source and click.
   - "Extension Group Copy" screen is displayed.
   - The current Extension Group (copy source) number is shown as "Copy from Extension Group 1-128."
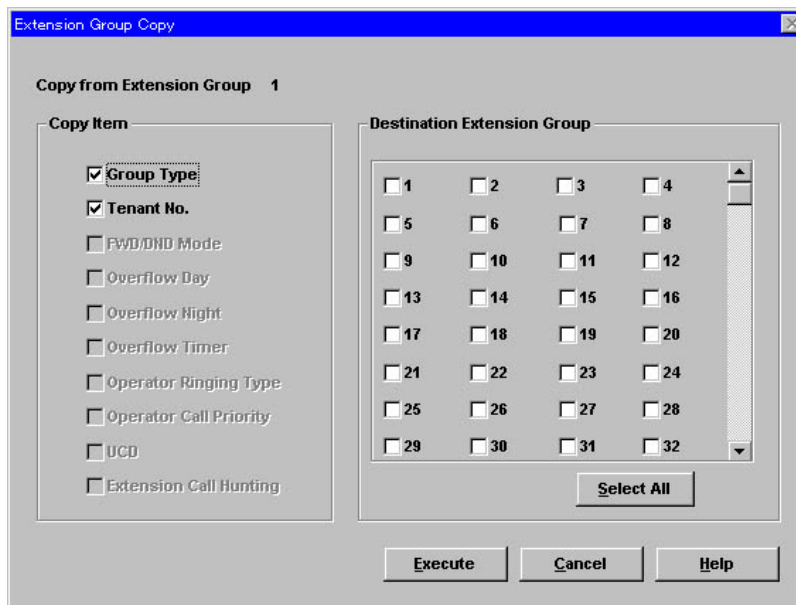
3. Select the Extension Group parameters to copy in "Copy Item" field.
   - Only parameters which are available to copy are shown in "Copy Item" field. This depends on the Group Type assignment of the copy source Extension Group.
   - Items marked with " ✔ " are copied.
4. Point to the "Select All" button in the "Destination Extension Group" field and click.

- All displayed Extension Group Nos. will be marked with " ✔".
- You can also specify one or several Extension Groups as the copy destination by clicking it (them) directly.

5. Point to the "Execute" button and click.

- "Are you sure?" is displayed.

6. Point to "Yes (Y)" button and click.

- "Copying" is displayed while the source data is being copied to the destination.
- Parameters of the destination Extension Groups are immediately effective when copying is finished.

Parameter	**Group No.**
Default	1
Value Range	1-128
Description/Function	Specifies the Extension Group (1-128) which you are going to programme.
Reference	None

Parameter	**FDN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for the Extension Group.
Reference	• 1.3 System Features (F/G) – Floating Station

Parameter	**Group Type**
Default	Group No.126: VM, Group No.127: AA, Group No.128: Operator, Others: None
Value Range	**1.** None **2.** Terminate **3.** Circular **4.** Ring **5.** Operator **6.** VM **7.** AA **8.** UCD
Description/Function	Specifies the Group Type for each Extension Group. This determines how the Extension Group handles the incoming calls directed to it. **1.** None: No Group Type is specified. **2.** Terminate: Functions as a Station Hunting Group (Terminate). **3.** Circular: Functions as a Station Hunting Group (Circular). **4.** Ring: Functions as a Ring Group. **5.** Operator: Functions as an Operator Group. **6.** VM: Functions as a VM (Voice Mail) Group. **7.** AA: Functions as an AA (Automated Attendant) Group. **8.** UCD: Functions as a UCD (Uniform Call Distribution) Group.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY (F/G)

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies a tenant number (1-8) to which the Extension Group is assigned. (Required if "Tenant Service" is employed.)
Reference	• 2.2 Tenant (P/G)

Parameter	**[Overflow Setting] Destination – Day / Night**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the destination extension where the call is transferred to when all extensions in the Extension Group are unavailable or logged-out in Day / Night mode respectively.
Reference	None

Parameter	**[Overflow Setting] Timer**
Default	None
Value Range	None, 5-180 s in 5 s increments
Description/Function	Specifies the length of time in seconds the system is to wait before transferring the call in the waiting queue to the Overflow Destination. **Note** • If "None" is specified, the call is transferred to the Overflow Destination immediately.
Reference	None

Parameter	**FWD / DND Mode**
Default	Enable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies whether to enable or disable the FWD / DND (Call Forwarding or Do Not Disturb) feature assigned on all extensions in the Extension Group.
Reference	None

Parameter	**Extension Call Hunting**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether station hunting feature works or not when the other party calls a busy extension in the group by dialling DN of the extension (extension call). **Note** • When the other party calls the group by dialling the FDN of the group, station hunting always works regardless of this setting.
Reference	• 1.8 Ringing Features (F/G) – STATION HUNTING – A SUMMARY

Parameter	**[Operator Setting] Ringing Type**
Default	Single
Value Range	**1.** Multi **2.** Single
Description/Function	Specifies whether the calls coming in on an Operator Group ring one Operator (Single) or all Operators in the group (Multi) simultaneously. (Assignable only when "Operator" is specified in "Group Type" programming.)
Reference	• 1.6 Originating Features (F/G) – Operator Call

Parameter	**[Operator Setting] Call Priority**
Default	CO Call: 1, Intercept Routing: 2, Recall: 3, Extension Call: 4
Value Range	Priority 1-4
Description/Function	Specifies the answering priority of incoming calls to the Operator Group by a type of call when more than one call is ringing at an Operator extension. **Notes** • If all extensions in the Operator group are busy, incoming calls directed to the group will be put in the waiting queue in order of precedence determined by Call Priority setting. • If the same priority is set on all four types of calls, the calls will be put in the waiting queue in order of the arrival. (Assignable only when "Operator" is specified in "Group Type" programming.)
Reference	• 1.6 Originating Features (F/G) – Operator Call

Parameter	**[UCD Setting] Time Table No.**
Default	None
Value Range	None, 1-32
Description/Function	Specifies the UCD Time Table number for the UCD Group.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY

Parameter	**[UCD Setting] FWD No Answer**
Default	Disable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies the treatment of the call which is not answered by the extension in the UCD group within a specified period of time (Call Forwarding - No Answer Time). **1.** *Disable* The call continues to ring the current destination extension. **2.** *Enable* The system transfers the call to an idle extension in the group.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY

Parameter	**[UCD Setting] Auto LOGOUT Mode**
Default	Disable
Value Range	**1.** Disable **2.** 1-10 times
Description/Function	Specifies the treatment of extensions in a UCD group who do not / cannot answer the call. A member extension may be logged-out automatically, if it does not answer the call for pre-determined times (1-10) consecutively.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY

Parameter	**[UCD Setting] Supervisor Extension**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the Supervisor Extension per UCD Group. The extension specified as the Supervisor Extension can monitor the number of waiting calls (calls placed in the waiting queue.)
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY

Parameter	**[UCD Setting] LOGIN Monitor**
Default	Disable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies whether the extension can monitor the Login / Logout status of UCD Group members or not.
Reference	• 2.5.5 Leaving an Extension Group (Log-In / Log-Out) (U/M)

Parameter	**[UCD Setting] UCD Call Waiting**
Default	Enable
Value Range	**1.** Disable **2.** Enable
Description/Function	This feature is different from regular Call Waiting. This feature (if enabled) allows UCD group members to hear a Call Waiting tone when an inside / outside call arrives but all the extensions in the UCD Group are busy. **<u>Notes</u>** • To use this feature, this setting must be set to enable. • In addition, each extension must enable regular Call Waiting.
Reference	• 1.3 System Features (F/G) – EXTENSION GROUP – A SUMMARY

3.4　Paging Group

Used to programme up to 16 Paging Groups. Each Paging Group consists of up to 24 Extension Groups. One Extension Group can be assigned to only one Paging Group.

Parameter	**Paging Group No.**
Default	1
Value Range	1-16
Description/Function	Specifies the Paging Group which you are going to programme.
Reference	• 1.14 Paging Features (F/G) 　　– PAGING – A SUMMARY • 2.6.1 Paging (U/M)

Parameter	**Extension Group No.**
Default	Paging Group No.1 only (No.1: 1, No.2: 128, Others: None)
Value Range	None, 1-128
Description/Function	Specifies the Extension Group which you are going to assign to the Paging Group. Up to 24 Extension Groups per Paging Group can be assigned.
Reference	• 1.14 Paging Features (F/G) 　　– PAGING – A SUMMARY

3.5   DIL 1:N Group

Used to programme a list of up to 96 DIL I : N Groups. You can assign up to 72 extensions and / or Extension Groups per DIL 1 : N Group so that an incoming CO call rings multiple extensions simultaneously.

Parameter	Group No.
Default	1
Value Range	1-96
Description/Function	Specifies the DIL 1:N Group which you are going to programme.
Reference	• 1.5 Attended Features (F/G) – Direct In Lines (DIL)

Parameter	FDN
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for the DIL 1:N Group.
Reference	• 1.3 System Features (F/G) – Floating Station

Parameter	**Mailbox No.**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the mailbox number of the DIL 1:N group. When a DIL 1:N call is redirected to a VM extension by IRNA feature, the system sends the digits of this mailbox number to the VPS. When "Mailbox No." is set to "Blank," the system sends the FDN to the VPS. **Note** • DN of VPS port cannot be assigned as a mailbox number and a DIL 1:N destination.
Reference	None

Parameter	**[Destinations] DN**
Default	Blank
Value Range	3 - 4 digits consisting of 0-9
Description/Function	Specifies extensions and / or Extension Groups that you are going to assign to the specified DIL 1:N Group. **Note** • DN of VPS port cannot be assigned as a mailbox number and a DIL 1:N destination.
Reference	• 1.3 System Features (F/G) – Flexible Numbering

Parameter	**[Destinations] Ringing Type**
Default	Immediate
Value Range	**1.** Immediate **2.** 1-ring Delay **3.** 3-ring Delay **4.** 6-ring Delay **5.** No Ring
Description/Function	Specifies the ringing delay of the calls arriving at extensions in the DIL 1:N group. **1.** Immediate: An extension rings immediately. **2.** 1-ring Delay: An extension rings in 1-ring delay timing. **3.** 3-ring Delay: An extension rings in 3-ring delay timing. **4.** 6-ring Delay: An extension rings in 6-ring delay timing. **5.** No Ring: An extension does not ring.
Reference	• 1.13 Audible Tone Features (F/G) – Ringing, Delayed

3.6   OGM Group

Used to assign parameters for OGM Groups (1-8).
OGM resources on the DISA card can be grouped together as an OGM Group.

Parameter	**Group No.**
Default	1
Value Range	1-8
Description/Function	Specifies the OGM Group (1-8) which you are going to programme.
Reference	None

Parameter	**FDN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for each OGM group.
Reference	• 1.3 System Features (F/G) – Floating Station

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies the tenant to which you are going to assign this OGM Group.
Reference	• 2.2 Tenant (P/G)

Parameter	**OGM Type**
Default	DISA
Value Range	**1.** DISA **2.** UCD-OGM **3.** Wakeup
Description/Function	Specifies the usage of OGM resources on DISA cards. **1.** DISA: OGM for DISA feature **2.** UCD-OGM: OGM for UCD group **3.** Wakeup: OGM for Wakeup message
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	**Security Mode**
Default	Trunk
Value Range	**1.** None **2.** Trunk **3.** All
Description/Function	Specifies the Security Mode for DISA callers. **1.** *None (Non security mode)* DISA callers can make both outside and intercom calls via DISA without restriction. **2.** *Trunk (Trunk Security mode)* DISA callers are required to enter a pre-assigned DISA user code to make outside calls via DISA. **3.** *All (All Security mode)* DISA callers are required to enter a pre-assigned DISA user code to make both outside and intercom calls via DISA. (Assignable only when "DISA" is specified in "OGM Type" programming.)
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Parameter	DISA built-in Automated Attendant Tables
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the extension numbers to each DISA built-in Auto Attendant number. Both DN of extensions and FDN (Floating Directory Number) of extension groups, phantom extensions or TAFAS can be specified. **Notes** • A DISA caller can call those extensions simply by dialling a one-digit DISA built-in Auto Attendant number corresponding to the extension. • Assignable only when "DISA" is specified in "OGM Type" programming.
Reference	• 1.5 Attended Features (F/G) – Direct Inward System Access (DISA)

Section 4
Line

4.1   Line

Used to assign various parameters for both trunk and extension lines.

4.2 Trunk Line

Used to assign various parameters for trunk lines.

4.2.1 Trunk Line - Copy

Used to copy a part of or all settings of a certain Trunk Line to all other same type Trunk Lines at a time. You can also specify one or several Trunk Lines as the copy destination. This copy function is available between the Trunk Lines of the same type Trunk Cards.

Copying the Trunk Line Parameters to Other Trunk Lines

1. Edit the parameters of the copy source Trunk Line and save it.
2. Point to the "Copy" button in the Trunk Line screen of the copy source and click.
   - "Trunk Line Copy" screen is displayed.
   - The current Trunk Line (copy source) number is shown as "Copy from XXX XXXXX-XX."
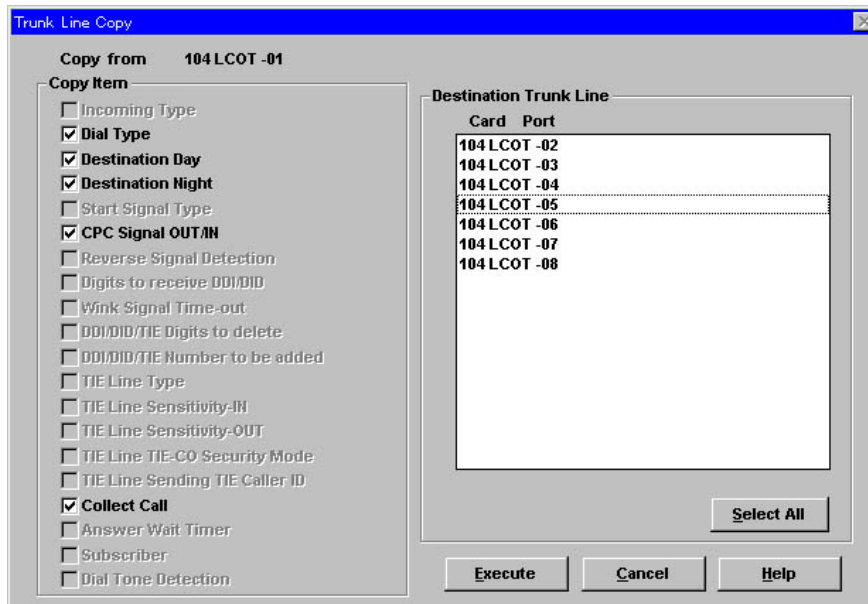
3. Select the Trunk Line parameters to copy in "Copy Item" field.

   - Only parameters which are available to copy are shown in "Copy Item" field.
     This depends on the attribute of the copy source Trunk Line.

   - Items marked with " ✔ " are copied.

4. Point to the "Select All" button in the "Destination Trunk Line" field and click.

   - All displayed Trunk Line Nos. will be highlighted.

   - You can also specify one or several Trunk Lines as the copy destination by clicking it
     (them) directly.

5. Point to the "Execute" button and click.

   - "Are you sure?" is displayed.

6. Point to "Yes (Y)" button and click.

   - "Copying" is displayed while the source data is being copied to the destination.

   - Parameters of the destination Trunk Lines are immediately effective when copying is
     finished.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the physical number of the trunk card and its type, which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Port No.**
Default	(Display only)
Value Range	1 - n [n = 4 (E&M / DID), n =16 (BRI), n = 30 (PRI30), n = 31 (E1 except Port No.16), n = 8 (Others)]
Description/Function	Specifies the trunk port which you are going to programme.
Reference	• 1.3 Trunk Port Assignment (P/G)

Parameter	**Group No.**
Default	(Display only)
Value Range	1-48
Description/Function	Displays the Trunk Group to which the trunk line is assigned.
	Note
	• Each trunk line is assigned to a Trunk Group by "Trunk Port Assignment" programming. (see Section 1.3 Trunk Port Assignment).
Reference	• 1.3 Trunk Port Assignment (P/G)

Parameter	**Name**
Default	CO001-CO192
Value Range	Up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ⋇ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the name for the trunk line.
	Note
	• This is shown on a display PT when making or receiving a call using this trunk.
Reference	• 1.17 Display Features (F/G) – Display, Call Information

Parameter	Incoming Type
Default	(1)DIL: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card (2)DID: DID / DID-2W / DID-MFC / E1 [DR2] / E1 [E&M-C (MFC-R2)] / E1 [E&M-P (MFC-R2)] / T1 [DID] card (3)DDI: BRI / PRI30 card (4)TIE: E1 [E&M-C (Pulse, DTMF)] / E1 [E&M-P (Pulse, DTMF)] / E&M / T1 [TIE] card
Value Range	**1.** DIL **2.** DID **3.** TIE **4.** DDI **5.** MSN

Parameter	**Incoming Type**
Description/Function	Specifies how the incoming CO call via this trunk line is routed to the destination in the system.

1. *DIL*
Incoming CO calls are routed by DIL (Direct In Lines) 1:1 or 1:N feature.

2. *DID*
Incoming CO calls are routed by DID (Direct Inward Dialling) feature.

3. *TIE*
Incoming CO calls are routed by TIE Line feature.

4. *DDI*
Incoming CO calls are routed by ISDN DDI (Direct Dialling In) feature.

5. *MSN*
Incoming CO calls are routed by ISDN MSN (Multiple Subscriber Number) feature.

<Available selections and the default values per Card Type>

Card Type	Selection	Default
BRI	TIE/DDI/MSN	DDI
DID, DID-2W DID-MFC, T1 (DID)	DID	DID
E1	DIL/DID/TIE	DID/TIE (Refer to the table below.)
E&M, T1(TIE)	DIL/TIE	TIE
LCOT, GCOT, RCOT, PCOT, ELCOT, T1 (LCO), T1 (GCO)	DIL	DIL
PRI30	TIE/DDI	DDI

<Default values for E1 card per Channel Type / Receiver Type>

Channel Type	Receiver Type	Default
DR2	Pulse DTMF MFC-R2	DID
E&M-C E&M-P	MFC-R2	
	Pulse DTMF	TIE

<u>Note</u>

• In some cases, the default cannot be changed.

Parameter	**Incoming Type**

Reference	• 1.5 Attended Features (F/G)
	    – Direct In Lines (DIL)
	    – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	    – Direct Dialling In (DDI)
	• 3.1 E&M Features (F/G)
	    – TIE LINES – A SUMMARY

Parameter	**Dial Type**
Default	DTMF-80 (BX), Pulse (SA)
Value Range	**1.** Pulse-10 (10 PPS) **2.** Pulse-20 (20 PPS) **3.** DTMF-80 (80 ms) **4.** DTMF-160 (160 ms) **5.** MFC-R2 **6.** ISDN
Description/Function	Specifies the dial type for each trunk line. This is the dial type regardless of the dial mode of the extension telephone. The dialling signals from any extension are converted to the dial type specified by this setting and transmitted to the trunk line.
Reference	None

Parameter	**Destination – Day / Night**
Default	1001
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the destination for the trunk line whose "Incoming Type" is set to "DIL." The following numbers can be assigned as the destination: Extension numbers, FDNs. (Assignable only when " DIL" is specified in "Incoming Type" programming.)
Reference	• 1.5 Attended Features (F/G) – Direct In Lines (DIL)

Parameter	**Subscriber**
Default	Blank
Value Range	Up to 16 digits consisting of 0-9
Description/Function	Specifies the number which is used as the CLIP / COLP or ANI (Automatic Number Indication) number.
Reference	None

Parameter	**[CPC Signal] OUT Detection**
Default	Enable: DID-2W / DID-MFC / E1 [DR2] card, Disable: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether CPC Detection on outgoing CO calls is enabled or disabled. If enabled, the system disconnects the line with the time set in programme "[CPC Signal] OUT Detection - Detection Time" when the CPC signal is detected.
Reference	• 1.3 System Features (F/G) — Calling Party Control (CPC) Signal Detection

Parameter	**[CPC Signal] OUT Detection - Detection Time (Type A)**
Default	None
Value Range	**1.** None **2.** 6.5 ms **3.** (2-75) $\times$ 8 ms
Description/Function	Specifies the expected minimum duration for detecting CPC (Calling Party Control) signal on outgoing CO calls. Type A applies to the following cards: LCOT, ELCOT, GCOT, T1 [LCO], T1 [GCO], RCOT, PCOT
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**[CPC Signal] OUT Detection - Detection Time (Type B)**
Default	160 ms
Value Range	**1.** None **2.** (1-15) $\times$ 80 ms
Description/Function	Specifies the expected minimum duration for detecting CPC (Calling Party Control) signal on outgoing CO calls. Type B applies to the following cards: E1 [DR2], DID-2W, DID-MFC
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**[CPC Signal] IN Detection**
Default	Enable: DID-2W / DID-MFC / E1 [DR2] card, Disable: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether CPC Detection on incoming CO calls is enabled or disabled. If enabled, the system disconnects the line with the time set in programme "[CPC Signal] IN Detection - Detection Time" when the CPC signal is detected.
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**[CPC Signal] IN Detection - Detection Time (Type A)**
Default	None
Value Range	**1.** None **2.** 6.5 ms **3.** (2-75) $\times$ 8 ms
Description/Function	Specifies the expected minimum duration for detecting CPC (Calling Party Control) signal on incoming CO calls. Type A applies to the following cards: LCOT, ELCOT, GCOT, T1 [LCO], T1 [GCO], RCOT, PCOT
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**[CPC Signal] IN Detection - Detection Time (Type B)**
Default	160 ms
Value Range	**1.** None **2.** (1-15) $\times$ 80 ms
Description/Function	Specifies the expected minimum duration for detecting CPC (Calling Party Control) signal on incoming CO calls. Type B applies to the following cards: E1 [DR2], DID-2W, DID-MFC
Reference	• 1.3 System Features (F/G) – Calling Party Control (CPC) Signal Detection

Parameter	**Start Signal Type**
Default	Wink
Value Range	**1.** Immediate **2.** Wink
Description/Function	Specifies the start signal type for a TIE (E&M) trunk. **1.** *Immediate* The system sends the dialling digits to CO after waiting for the time length determined by "First Dial Timer." Please refer to "Card Properties" in "1-1 Slot Assignment" screen. **2.** *Wink* The system sends the dialling digits to CO after receiving the wink signal.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Wink Signal Time-out**
Default	1024 ms
Value Range	**1.** 64 ms **2.** 128 ms **3.** 256 ms **4.** 512 ms **5.** 1024 ms **6.** 2048 ms **7.** 4096 ms **8.** 8128 ms
Description/Function	Specifies the length of time in milliseconds that the system is to wait for the Wink Signal after seizing the trunk. (Assignable only when "Start Signal Type" is set to "Wink"; the case of the E&M card is excluded.)
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Reverse Signal Detection**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	If an ELCOT / RCOT card is installed in the system, reversal of CO line polarity is monitored at each port by default. Specifies whether to enable or disable this monitoring function. (Assignable only when an ELCOT / RCOT card is installed in the system.)
Reference	None

Parameter	**Digits to receive DDI / DID**
Default	4
Value Range	0-16 digits
Description/Function	Specifies the number of receiving digits from a DDI / DID trunk. (Assignable only when "Incoming Type" is set to "DDI" or "DID.")

Reference	• 1.5 Attended Features (F/G)
	  – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	  – Direct Dialling In (DDI)

Parameter	**[TIE Line] Type**
Default	4 wires
Value Range	**1.** 2 wires **2.** 4 wires
Description/Function	Specifies the voice path type of TIE Lines.
Reference	None

Parameter	**[TIE Line] Sensitivity - IN**
Default	-3 dB
Value Range	- 6 to +3 dB in 3 dB increments
Description/Function	Specifies the voice level for reception.
Reference	None

Parameter	**[TIE Line] Sensitivity - OUT**
Default	-3 dB
Value Range	- 6 to +3 dB in 3 dB increments
Description/Function	Specifies the voice level for transmission.
Reference	None

Parameter	**[TIE Line] Sending TIE Caller ID**
Default	No
Value Range	**1.** No **2.** Yes
Description/Function	Specifies whether to send or not the TIE Caller ID to the other end.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**[TIE Line] TIE-to-CO Security Mode**
Default	No
Value Range	**1.** No **2.** Yes
Description/Function	Specifies whether to restrict the TIE-to-CO call or not. If set to "Yes," the TIE caller must enter a valid TIE User Code before making a CO call via this system.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**[DDI / DID / TIE] Digits to delete**
Default	0
Value Range	0-16 digits
Description/Function	Specifies the number of digits to be deleted from the number received from DDI / DID trunk / other PBX via DID / TIE lines.
Reference	• 1.5 Attended Features (F/G) – Direct Inward Dialling (DID) • 2.4 ISDN Attended Features (F/G) – Direct Dialling In (DDI) • 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**[DDI / DID / TIE] Number to be added**
Default	Blank
Value Range	Max. 8 digits consisting of 0-9
Description/Function	Specifies the number (1 to 8 digits) to be added to the number received from the DDI / DID trunk / other PBX via DID / TIE lines.
Reference	• 1.5 Attended Features (F/G) – Direct Inward Dialling (DID) • 2.4 ISDN Attended Features (F/G) – Direct Dialling In (DDI) • 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Answer Wait Timer**
Default	None
Value Range	**1.** None **2.** 1 min **3.** 2 min **4.** 3 min **5.** 4 min
Description/Function	Specifies the length of time in minutes the system waits, after an outgoing CO call is made, before the other party answers the call. If the call is not answered before this timer expires, the call will be disconnected automatically. (Assignable only when E1 / ELCOT / RCOT / T1 [TIE / DID] / DID-2W / DID-MFC card is installed in the system.)
Reference	None

Parameter	**Collect Call**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether to enable or disable receiving the collect calls via this trunk line. (Available for E1 [DR2] / ELCOT / LCOT / RCOT / PCOT / DID / DID-2W / DID-MFC only)
Reference	None

4.3   Extension Line

Used to assign parameters for extension lines.

4.3.1   Extension Line - Copy

Used to copy a part of or all settings of a certain Extension Line to all other Extension Lines at a time. You can also specify one or several Extension Lines as the copy destination.

Copying the Extension Line Parameters to Other Extension Lines

1. Edit the parameters of the copy source Extension Line and save it.
2. Point to the "Copy" button in the Extension Line screen of the copy source and click.
   - "Extension Line Copy" screen is displayed.
   - The current Extension Line (copy source) number is shown as "Copy from DN XXXX."
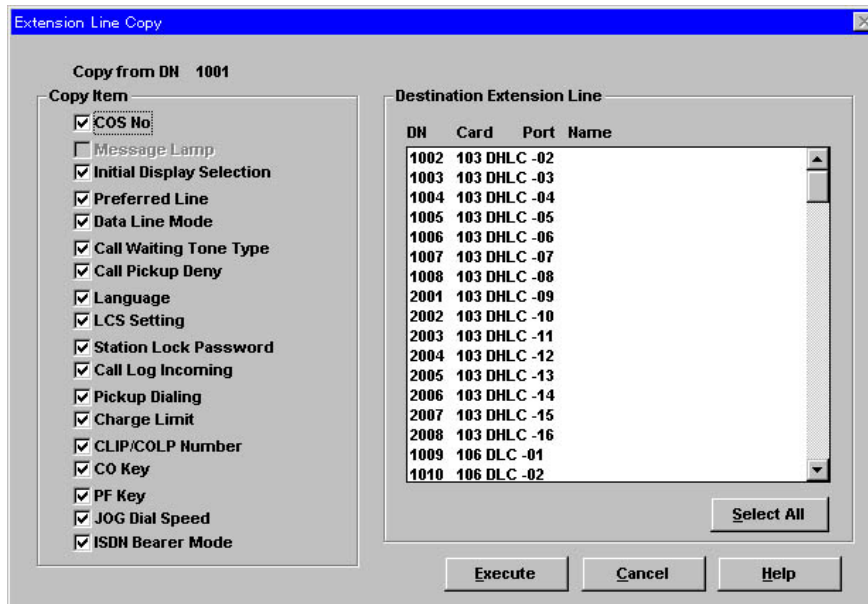
3. Select the Extension Line parameters to copy in "Copy Item" field.

   • Only parameters which are available to copy are shown in "Copy Item" field.
     This depends on the attribute of the copy source Extension Line.

   • Items marked with " ✔" are copied.

4. Point to the "Select All" button in the "Destination Extension Line" field and click.

   • All displayed Extension Line Nos. will be highlighted.

   • You can also specify one or several Extension Lines as the copy destination by clicking
     it (them) directly.

5. Point to the "Execute" button and click.

   • "Are you sure?" is displayed.

6. Point to "Yes (Y)" button and click.

   • "Copying" is displayed while the source data is being copied to the destination.

   • Parameters of the destination Extension Lines are immediately effective when copying
     is finished.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the physical number of the extension card and its type, which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Port No.**
Default	1
Value Range	1-32
Description/Function	Specifies or displays the extension port you are going to programme.

Note
- Port Nos. 17-32 will be displayed when "DN" and "Group No." for "Ext No.2" are assigned in Section 1.5   VPS (DPT) Port Assignment screen.

Reference	• 1.4 Extension Port Assignment (P/G)

Parameter	**Group No.**
Default	(Display only)
Value Range	1-128
Description/Function	Displays the Extension Group to which the selected extension port is assigned.

Note
- Default Group No. for Ext. 1001 is 128.

Reference	• 1.4 Extension Port Assignment (P/G)

Parameter	**DN**
Default	(Display only)
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies or displays the extension number you are going to programme.
Reference	• 2.3 Numbering Plan (P/G)

Parameter	**Name**
Default	Blank
Value Range	Up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✲ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the name for the extension line.
	<u>Note</u>
	• This is shown on the called party's display PT, so that he / she knows who is calling.
Reference	• 1.17 Display Features (F/G)
	– Display, Call Information

Parameter	**COS No. – Primary**
Default	1
Value Range	1-96
Description/Function	Specifies the Primary COS (Class of Service) number to the extension.
Reference	• 1.3 System Features (F/G)
	– Class of Service (COS)

Parameter	**Mailbox No.**
Default	Same as the extension number
Value Range	Up to 16 digits consisting of 0 - 9, ✲, # or P [Pause]
Description/Function	Specifies the Mailbox Number, which is usually the same as the extension number.
Reference	None

Parameter	**CO Key**
Default	CO-01: Loop-CO, Others: Not Stored
Value Range	
Description/Function	Used to determine the usage of the flexible CO buttons on a PT. You can enter into "Flexible CO Key" screen (Section 4.3.2) by clicking [CO Key] button on this screen.
Reference	• 4.1.2 Customising the Buttons (U/M)

Parameter	**PF Key**
Default	Not Stored
Value Range	
Description/Function	Used to determine the usage of PF (Programmable Feature) buttons on a PT. You can enter into "Flexible PF Key " screen (Section 4.3.3) by clicking [PF Key] button on this screen.
Reference	• 4.1.2 Customising the Buttons (U/M)

Parameter	**Initial Display Selection**
Default	Caller ID
Value Range	**1.** Caller ID **2.** Trunk Name **3.** DDI / DID Name
Description/Function	Specifies the initial display of a display PT when an incoming CO call with Caller ID information comes in on it.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**Message Lamp**
Default	No
Value Range	**1.** Yes **2.** No
Description/Function	Assigns whether an SLT with MESSAGE lamp can receive the message waiting indication or not. (Assignable when an SLT with Message lamp is interfaced by an SLC-M or ESLC card.)
Reference	• 1.17 Display Features (F/G) – Message Waiting

Parameter	**[Preferred Line] Outgoing**
Default	Prime Line - ICM/PDN
Value Range	**1.** No Line **2.** Idle Line **3.** Prime Line - ICM / PDN **4.** Prime Line - CO
Description/Function	Specifies the line to which the extension is connected automatically when it goes off-hook for making a call.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**[Preferred Line] Outgoing - Key No.**
Default	Blank
Value Range	1-24
Description/Function	Specifies the CO button number to which the extension is connected when it goes off-hook to make a call. This assignment is required when "Prime Line - CO" is specified in "Preferred Line - Outgoing" programming.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**[Preferred Line] Incoming**
Default	Ringing Line
Value Range	**1.** No Line **2.** Ringing Line **3.** Prime Line - ICM / PDN **4.** Prime Line - CO
Description/Function	Specifies the line to which the extension is connected when it goes off-hook to answer a call.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**[Preferred Line] Incoming - Key No.**
Default	Blank
Value Range	1-24
Description/Function	Specifies the CO button number to which the extension is connected when it goes off-hook to answer a call. This assignment is required when "Prime Line - CO" is specified in "Preferred Line - Incoming" programming.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**[LCS Setting] Status**
Default	Inactive
Value Range	**1.** Inactive **2.** Active
Description/Function	Specifies whether or not the extension can use the LCS (Live Call Screening) feature.
Reference	• 1.9 Answering Features (F/G) – Live Call Screening (LCS)

Parameter	**[LCS Setting] Operation Mode**
Default	Hands-free
Value Range	**1.** Private **2.** Hands-free
Description/Function	Assigns whether the voice message being recorded is monitored automatically through the built-in speaker (Hands-free mode) or an alert tone is sent (Private mode) while an incoming caller is leaving a message in the mailbox of the extension.
Reference	• 1.9 Answering Features (F/G) – Live Call Screening (LCS) • 4.1.1 Initial Settings (U/M)

Parameter	**[LCS Setting] Recording Mode**
Default	Stop Rec
Value Range	**1.** Keep Rec **2.** Stop Rec
Description/Function	Assigns whether to close the mailbox or keep recording the conversation after a call is interrupted.
Reference	• 1.9 Answering Features (F/G) – Live Call Screening (LCS)

Parameter	**[LCS Setting] LCS Password**
Default	Blank
Value Range	Fixed to 3 digits consisting of 0-9
Description/Function	Specifies the 3-digit password for LCS settings.
Reference	• 1.9 Answering Features (F/G) – Live Call Screening (LCS) • 2.8.3 If a Voice Processing System is Connected (U/M)

Parameter	**[Call Log Incoming] Overwrite Mode**
Default	Yes
Value Range	**1.** Yes **2.** No
Description/Function	Enables or disables Call Log Incoming, Overwrite Mode. If the Call Log is full (30 call records are already logged) when a new Caller ID call comes in. **1. Yes :** The new call record overwrites the oldest one in the Call Log. **2. No :** The new call record is not logged.
Reference	• 2.10.1 Calling Using the Call Log (Incoming Call Log) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

Parameter	**[Call Log Incoming] Lock Password**
Default	Blank
Value Range	Fixed to 3 digits consisting of 0-9
Description/Function	Specifies the Call Log Incoming Log Lock Password. The extension user can lock the call log display so that incoming call information is not shown on the display. **Note** • The Manager and the Operators can cancel the Call Log Lock in case the extension user forgets the lock code.
Reference	• 2.10.3 Denying Other People the Possibility of Seeing Your Call Log (Incoming Call Log Lock) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

Parameter	**[Pickup Dialing] Mode**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether "Pickup Dialling" is enabled or not.
Reference	• 1.7 Dialling Features (F/G) – Pickup Dialling (Hot Line) • 2.2.2 Easy Dialling (U/M)

Parameter	**[Pickup Dialing] Dial**
Default	(Display only)
Value Range	Up to 16 digits
Description/Function	Displays the telephone number for Pickup Dialling feature. The system automatically dials this number when an extension user goes off-hook to make a call, if Pickup Dialling is enabled.
Reference	• 1.7 Dialling Features (F/G) – Pickup Dialling (Hot Line) • 2.2.2 Easy Dialling (U/M)

Parameter	**Data Line Mode**
Default	No
Value Range	**1.** Yes **2.** No
Description/Function	Assigns whether "Data Line Security mode" is available or not. If set to "No," setting "Data Line Security mode" by dialling the feature number is impossible.
Reference	• 1.12 Conversation Features (F/G) – Data Line Security • 2.7.11 Protecting Your Line against Indication Tones (Data Line Security) (U/M)

Parameter	**Call Waiting Tone Type**
Default	Tone 1
Value Range	**1.** Tone 1 **2.** Tone 2
Description/Function	Specifies the type of Call Waiting Tone. Please refer to "5.4 What is This Tone?" in the User Manual for detailed information on Tone Type.
Reference	• 2.4.4 Answering a Call Waiting (U/M) • 4.1.1 Initial Settings (U/M)

Parameter	**Call Pickup Deny**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables Call Pickup Deny mode.
Reference	• 1.9 Answering Features (F/G) – Call Pickup Deny • 2.7.8 Denying Other People the Possibility of Picking up Your Calls (Call Pickup Deny) (U/M)

Parameter	**Language**
Default	English
Value Range	**1.** English **2.** Option
Description/Function	Specifies the language shown on a PANASONIC display PT. The language is set for each extension, so phones on the same system can display different languages. **Note** • French is stored as default Optional Language at the factory. Dutch, Spanish or Portuguese can be uploaded to the system instead of French. Please refer to "Section 2.9 Language Data" in this manual for further information on Optional Language.
Reference	• 4.1.1 Initial Settings (U/M)

Parameter	**Station Lock Password**
Default	Blank
Value Range	Fixed to 3 digits consisting of 0-9
Description/Function	Specifies the 3-digit password that lets the extension user lock and unlock the extension (Electronic Station Lock).
Reference	• 1.6 Originating Features (F/G) – Electronic Station Lockout • 2.5.4 Preventing Other People from Using Your Telephone (Electronic Station Lockout) (U/M)

Parameter	**[CLIP / COLP Number] Public**
Default	Blank
Value Range	Up to 16 digits consisting of 0 - 9, ✳ or P [PAUSE]
Description/Function	Specifies a CLIP / COLP number used for the incoming / outgoing calls via Public Network to each extension.

Note
* The KX-TD500 System is designed and manufactured in accordance with the following ETS (European Telecommunication Standard) specifications: ETS 300 122 Generic Keypad protocol for the support of supplementary services.

Reference	• 2.2 ISDN Originating Features (F/G)
	    – Calling Line Identification Presentation(CLIP)
	• 2.3 ISDN Answering Features (F/G)
	    – Connected Line Identification Presentation (COLP)

Parameter	**[CLIP / COLP Number] Private**
Default	Blank
Value Range	Up to 16 digits consisting of 0 - 9, ✳ or P [PAUSE]
Description/Function	Specifies a CLIP / COLP number used for the incoming / outgoing calls via Private Network to each extension.

Note
* The KX-TD500 System is designed and manufactured in accordance with the following ETS (European Telecommunication Standard) specifications: ETS 300 122 Generic Keypad protocol for the support of supplementary services.

Reference	• 2.2 ISDN Originating Features (F/G)
	    – Calling Line Identification Presentation(CLIP)
	• 2.3 ISDN Answering Features (F/G)
	    – Connected Line Identification Presentation (COLP)

Parameter	**Charge Limit**
Default	0
Value Range	0: No limits 1-99999: The number of charge meter allowable for the extension
Description/Function	Used to determine the sum total of telephone charge allowable to extension users on an extension user basis. If the telephone charge on the extension exceeds the limit, a toll call cannot be made anymore from that extension. **<u>Note</u>** • If the charge limit is set to "0," no restriction is applied.
Reference	• 4.2 Charge Fee Management (Station Programming) (U/M)

Parameter	**JOG Dial Speed**
Default	Normal
Value Range	**1.** Normal **2.** High
Description/Function	Specifies the rotation speed of the JOG Dial on the KX-T7400 series PT.
Reference	None

Parameter	**ISDN Bearer Mode**
Default	Automatic
Value Range	**1.** Automatic **2.** Speech **3.** 3.1 KHz Audio
Description/Function	Specifies the ISDN Bearer Mode on an extension port basis. **<u>Note</u>** • When "Automatic" (Default) is selected, Bearer Mode is set automatically depending on the type of extension telephone as follows: PT - Speech, SLT - 3.1KHz Audio, ISDN extension - depending on the bearer mode of the ISDN extension.
Reference	• 2.1 ISDN Features (F/G) – Integrated Services Digital Network (ISDN)

4.3.2   Flexible CO Key Assignment

Used to determine the usage of flexible CO buttons on PTs.
The following screen is displayed by clicking "CO Key" button in the Extension Line screen.

<Key Type Assignment>
The following Key Type Assignment screen is displayed by clicking "Not Stored" button for each CO key in the above screen.

Additional Parameters Required by Key Type

Depending on a Key Type, additional parameters are required as follows.

Key Type	Additional Parameters (default)	Description
SINGLE-CO	Trunk Line No.	Specifies the trunk port physical number (10101 to 31416).
	Tone (2)	Specifies the ringer frequency (ring tone type: 1-8) for incoming calls.
GROUP-CO	Trunk Group No.	Specifies the Trunk Group number (01 - 48).
	Tone (2)	Specifies the ringer frequency (ring tone type: 1-8) for incoming calls.
LOOP-CO	Tone (2)	Specifies the ringer frequency (ring tone type: 1-8) for incoming calls.
DSS	EXT.	Specifies the extension number (3 or 4 digits).
PHANTOM	EXT.	Specifies the phantom extension number (3 or 4 digits).
	Ringing (Yes)	Specifies whether the extension rings or not when a call to a phantom button comes in on the extension.
PDN	Tone (2)	Specifies the ringer frequency (ring tone type:1 - 8) for incoming calls.
	Ringing Type (Immediate)	Specifies the timing of ringing when a call comes in on the extension: Immediate, 1-ring Delay, 3-ring Delay, 6-ring Delay, No Ring
SDN	EXT.	Specifies the PDN owner's extension number.
	Tone (2)	Specifies the ringer frequency (ring tone type:1 - 8) for incoming calls.
	Ringing Type (Immediate)	Specifies the timing of ringing when a call comes in on the extension: Immediate, 1-ring Delay, 3-ring Delay, 6-ring Delay, No Ring
ONE-TOUCH	Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0 - 9, ✳, #, -, P, S or F). **Note** P: Pause, S: Secret Dialling, F: Hook Flash
VTR	DN	Specifies the Directory Number of the Voice Mail extension.
2WAY-REC	DN	Specifies the Directory Number of the Voice Mail extension.
2WAY-TRN	DN	Specifies the Directory Number of the Voice Mail extension.
SS	Dial	Specifies the telephone number or feature access number (up to 24 digits consisting, of 0-9, ✳, #, -, P, S or F).

Parameter	**Key Type**
Default	CO-01: Loop-CO, Others: Not Stored
Value Range	See "Description / Function."
Description/Function	**Not Stored:** Key Type is not assigned.

SINGLE-CO: Single-CO button
GROUP-CO: Group-CO button
LOOP-CO: Loop-CO button
DSS: Direct Station Selection button
PHANTOM: Phantom button
PDN: Primary Directory Number button
SDN: Secondary Directory Number button
ONE-TOUCH: One-Touch Dial button
MESSAGE: Message Waiting button
FWD / DND: Call Forwarding / Do Not Disturb button
SAVE: Saved Number Redial button
ACCOUNT: Account Code entry button
CONF: Conference button
VTR: Voice Mail Transfer button
LOGIN / LOGOUT: Login / Logout button
2WAY-REC: Two-way Recording button
2WAY-TRN: Two-way Transfer button
LCS: Live Call Screening button
LCS CANCEL: Live Call Screening Cancel button
DAY / NIGHT: Day / Night switching button
ALARM: Alarm button
ANSWER: Answer button
RELEASE: Release button
TONE THROUGH: Tone Through button
SS: ISDN Service button

Notes

- SS (ISDN Service) button is used for "ISDN Network Service Access" feature (Please refer to "Section 2.2 ISDN Originating Features" in the Features Guide). This service may not work properly, if your ISDN Service carrier does not support this service.
- The KX-TD500 System is designed and manufactured in accordance with the following ETS (European Telecommunication Standard) specifications: ETS 300 122 Generic Keypad protocol for the support of supplementary Services.

Reference	•4.1.2 Customising the Buttons (U/M)

4.3.3   Flexible PF Key Assignment for PT

Used to determine the usage of flexible PF buttons on PTs.
The following screen is displayed by clicking "PF Key" button in the Extension Line screen.

<Key Type Assignment>
The following Key Type Assignment screen is displayed by clicking "Not Stored" button for each PF Key in the above screen.

Additional Parameters Required by Key Type

Depending on a Key Type, additional parameters are required as follows.

Key Type	Additional Parameters	Description
ONE-TOUCH	One-Touch Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0 - 9, $\times$, #, -, P, S or F). **Note** P: Pause, S: Secret Dialling, F: Hook Flash
	One-Touch Name	Specifies the name for One-Touch dial (up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % $\times$ ( ) +, - / : ; < = > ? @ &.)
SS	Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0-9, $\times$, #, -, P, S or F).

Parameter	**Key Type**
Default	Not Stored
Value Range	See "Description / Function"
Description/Function	**Not Stored:** Key Type is not assigned. **ONE-TOUCH:** One-Touch Dial button **FWD / DND:** Call Forwarding / Do Not Disturb button **SAVE:** Saved Number Redial button **ACCOUNT:** Account Code entry button **CONF:** Conference button **ANSWER:** Answer button **RELEASE:** Release button **SS:** ISDN Service button
Reference	4.1.2 Customising the Buttons (U/M)

4.4   DSS Console

Used to assign the paired extension for a DSS (Direct Station Selection) Console and the usage of DSS and PF buttons.

4.4.1   DSS Console - Copy

Used to copy a part of or all settings of a certain DSS Console to all other DSS Consoles at a time. You can also specify one or several DSS Consoles as the copy destination.

Copying the DSS Console Parameters to Other DSS Consoles

1. Edit the parameters of the copy source DSS Console and save it.

2. Point to the "Copy" button in the DSS Console screen of the copy source and click.

• "DSS Console Copy" screen is displayed.

• The current DSS Console (copy source) number is shown as "Copy from XXX XXXXX- XX."
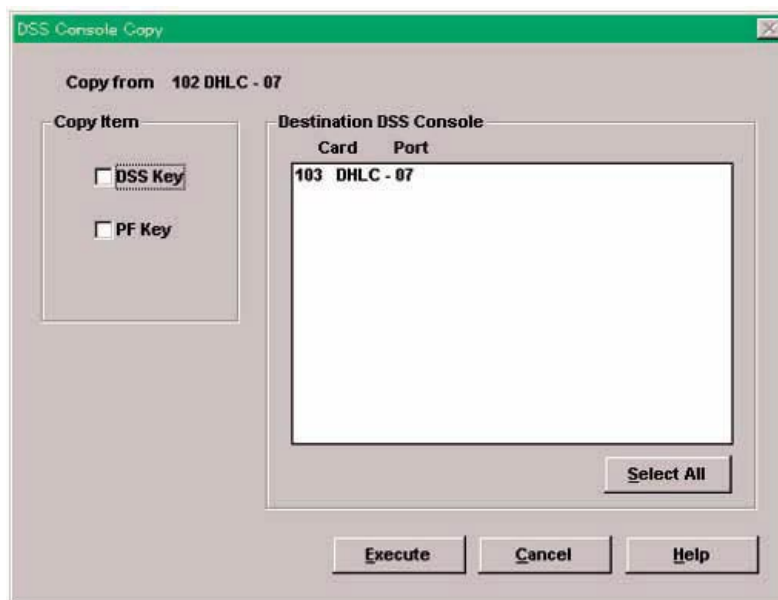
3. Select the DSS Console parameters to copy in "Copy Item" field.

   • Items marked with "✔" are copied.

4. Point to the "Select All" button in the "Destination DSS Console" field and click.

   • All displayed Extension Line Nos. will be highlighted.
   • You can also specify one or several DSS Consoles as the copy destination by clicking it (them) directly.

5. Point to the "Execute" button and click.

   • "Are you sure?" is displayed.

6. Point to "Yes (Y)" button and click.

   • "Copying" is displayed while the source data is being copied to the destination.
   • Parameters of the destination DSS Consoles are immediately effective when copying is finished.

Notes

   • Flexible DSS / PF Key Assignment should be done before executing this copy function.
   • Copy function is not available in the Interactive mode.

Parameter	**Paired Extension**
Default	(Display only)
Value Range	3-4 digits consisting of 0-9
Description/Function	Displays the extension number of the extension paired with the DSS console.
Reference	• 1.15 Proprietary Telephone Features (F/G) – DSS Console

Parameter	**[DSS Console 1-8] Port No.**
Default	(Display only)
Value Range	Extension port physical number
Description/Function	Displays the extension port number to which the DSS console is connected.
Reference	• 1.15 Proprietary Telephone Features (F/G) – DSS Console

Parameter	**[DSS Console 1-8] Model**
Default	T7440
Value Range	**1.** T7440 **2.** T7441 **3.** T7040 / 7240 **4.** T7540 **5.** T7541
Description/Function	Specifies the model No. of DSS console.
Reference	• 1.15 Proprietary Telephone Features (F/G) – DSS Console

Parameter	**DSS Key**
Default	Not Stored
Value Range	
Description/Function	Used to determine the usage of the flexible DSS buttons on DSS consoles. You can enter into "Flexible DSS Key" screen (Section 4.4.2) by clicking [DSS Key] button on this screen.
Reference	• 4.1.2 Customising the Buttons (U/M)

Parameter	**PF Key**
Default	Not Stored
Value Range	
Description/Function	Used to determine the usage of PF (Programmable Feature) buttons on DSS consoles. You can enter into "Flexible PF Key" screen (Section 4.4.3) by clicking [PF Key] button on this screen.
Reference	• 4.1.2 Customising the Buttons (U/M)

4.4.2 Flexible DSS Key Assignment

Used to determine the usage of flexible DSS buttons on DSS Consoles.
The following screen is displayed by clicking "DSS Key" button in the DSS Console screen.

<Key Type Assignment>
The following Key Type Assignment screen is displayed by clicking "Not Stored" button for each DSS Key in the above screen.

Additional Parameters Required by Key Type

Depending on a Key Type, additional parameters are required as follows.

Key Type	Additional Parameters	Description
SINGLE-CO	Trunk Line No.	Specifies the trunk port physical number (10101 to 31416).
	Tone	Since any call does not come in on a DSS button with the current TD500 software, this setting is not required.
GROUP-CO	Trunk Group No.	Specifies the Trunk Group number (01 - 48).
	Tone	Since any call does not come in on a DSS button with the current TD500 software, this setting is not required.
DSS	EXT.	Specifies the extension number (3 or 4 digits).
ONE-TOUCH	Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0 - 9, $\ast$, #, -, P, S or F). **Note** P: Pause, S: Secret Dialling, F: Hook Flash
VTR	DN	Specifies the Directory Number of the Voice Mail extension.
2WAY-REC	DN	Specifies the Directory Number of the Voice Mail extension.
2WAY-TRN	DN	Specifies the Directory Number of the Voice Mail extension.
SS	Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0-9, $\ast$, #, -, P, S or F).

Parameter	**Key Type**
Default	Not Stored
Value Range	See "Description / Function."
Description/Function	Specifies the usage of the flexible DSS buttons on a DSS Console. **<Options>** **Not Stored:** Key Type is not assigned. **SINGLE-CO:** Single-CO button **GROUP-CO:** Group-CO button **DSS:** Direct Station Selection button **ONE-TOUCH:** One-Touch Dial button **MESSAGE:** Message Waiting button **FWD / DND:** Call Forwarding / Do Not Disturb button **SAVE:** Saved Number Redial button **ACCOUNT:** Account Code entry button **CONF:** Conference button **VTR:** Voice Mail Transfer button **2WAY-REC:** Two-way Recording button **2WAY-TRN:** Two-way Transfer button **LCS:** Live Call Screening button **LCS CANCEL:** Live Call Screening Cancel button **ANSWER:** Answer button **RELEASE:** Release button **TONE THROUGH:** Tone Through button **SS:** ISDN Service button
Reference	4.1.2 Customising the Buttons (U/M)

4.4.3 Flexible PF Key Assignment for DSS Console

Used to determine the usage of flexible PF buttons on DSS Consoles.
The following screen is displayed by clicking "PF Key" button in the DSS Console screen.

<Key Type Assignment>
The following Key Type Assignment screen is displayed by clicking "Not Stored" button for each PF Key in the above screen.

Additional Parameters Required by Key Type

Depending on a Key Type, additional parameters are required as follows.

Key Type	Additional Parameters	Description
ONE-TOUCH	One-Touch Dial	Specifies the telephone number or feature access number (up to 24 digits consisting of 0 - 9, ✳, #, -, P, S or F). **Note** P: Pause, S: Secret Dialling, F: Hook Flash
	One-Touch Name	Specifies the name for One-Touch dial (Up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) +, - / : ; < = > ? @ &.)
SS	Dial	Speifies the telephone number or feature access number (up to 24 digits consisting of 0 - 9, ✳, #, -, P, S or F).

Parameter	**Key Type**
Default	Not Stored
Value Range	See "Description / Function."
Description/Function	Specifies the usage of PF (Programmable Feature) buttons on a DSS Console. **<Options>** **Not Stored:** Key Type is not assigned. **ONE-TOUCH:** One-Touch Dial button **FWD / DND:** Call Forwarding / Do Not Disturb button **SAVE:** Saved Number Redial button **ACCOUNT:** Account Code entry button **CONF:** Conference button **ANSWER:** Answer button **RELEASE:** Release button **SS:** ISDN Service button
Reference	• 4.1.2 Customising the Buttons (U/M)

4.5 Doorphone

Used to assign the destination extensions for incoming calls from doorphones.

Parameter	**Card No.**
Default	(Display only)
Value Range	XXX : DPH [XXX : Card No. (101-314)]
Description/Function	Specifies the physical number of a doorphone card which you are going to programme.
Reference	• 1.2 Slot Assignment (P/G)

Parameter	**Port No.**
Default	1
Value Range	1 - 4
Description/Function	Specifies the doorphone port number which you are going to programme.
Reference	None

Parameter	**Tenant No.**
Default	1
Value Range	1 - 8
Description/Function	Specifies the tenant number to which the doorphone port is assigned.
Reference	• 1.12 Conversation Features (F/G) – Doorphone Call • 2.2 Tenant (P/G)

Parameter	**Destination – Day / Night**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the extensions that ring when a visitor presses the doorphone button. Up to 126 destination extensions per doorphone can be assigned in Day mode and Night mode respectively. Destination extensions can unlock the door opener.
Reference	• 2.8.1 If a Doorphone / Door Opener is Connected (U/M)

4.6 External Paging

Used to assign parameters for External Paging.

Parameter	**Pager No.**
Default	(Display only)
Value Range	1, 2
Description/Function	Displays the Pager No.
Reference	• 2.8.2 External Pager (Paging Equipment) (I/M)

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies the tenant to which the External Pager is assigned. (Required when "Tenant Service" is employed.)
Reference	• 2.2 Tenant (P/G)

Parameter	**FDN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for the External Pager.
Reference	• 1.3 System Features (F/G) – Floating Station

Parameter	**BGM**
Default	No check
Value Range	**1.** No check [Disable] **2.** Check [Enable]
Description/Function	Specifies whether BGM is sent or not when the External Pager is idle. Whether sound actually comes out of External Pager or not is controlled by the Manager or Operators.
Reference	• 3.2.1 Turning on the External Background Music (Background Music [BGM] - External) (U/M)

Parameter	**BGM Source**
Default	MUS1
Value Range	**1.** None **2.** MUS1 **3.** MUS2
Description/Function	Assigns the External Music Source port to which the External Pager is connected. To change music sources, you must first select and apply "None." Then you can select and apply MUS1 or MUS2. **Note** • If "MUS2" is selected, the actual source depends upon the position of the switch located on the TSW card. "MUS2 (Music 2 jack)" or "INT MUS (internal music)" can be selected by this switch.
Reference	• 2.8.3 Music Source (External / Internal) (I/M)

Section   5

Features

5.1 Features

Used to assign parameters for various system features.
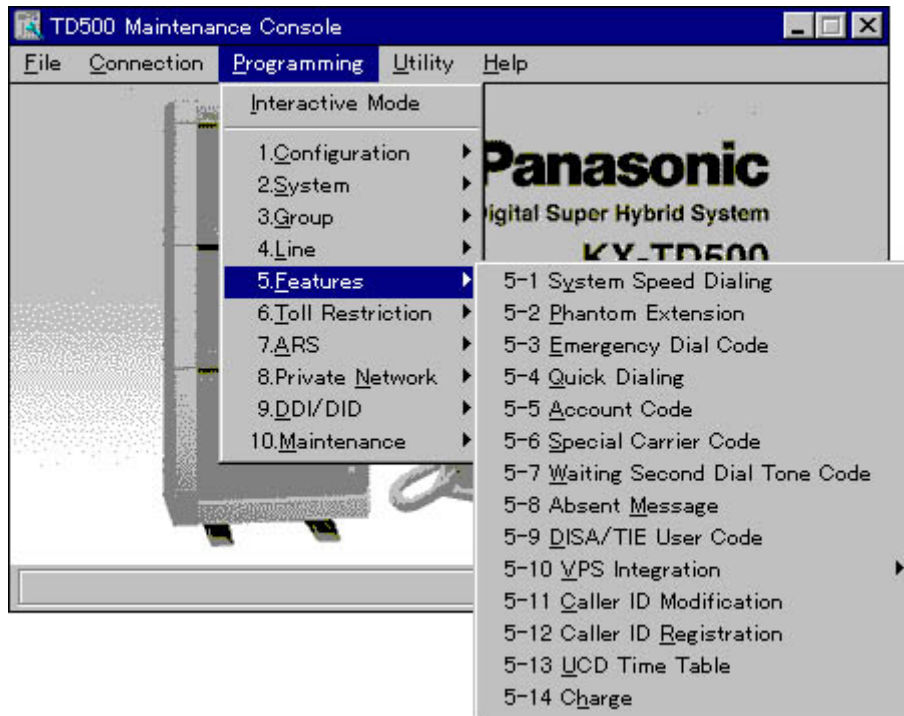
5.2   System Speed Dialling

Used to programme a list of up to 1000 (000-999) frequently dialled numbers per tenant.
Anyone in the same tenant can dial these numbers.
Up to 2000 Speed Dialling codes can be shared among tenant under the limitation of 1000
codes per tenant. The maximum number of Speed Dialling numbers per tenant is specified in
the "2-1 Tenant" screen.

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies the tenant to which the System Speed Dialling codes are assigned. (Required when "Tenant Service" is employed.)
Reference	• 2.2 Tenant (P/G)

Parameter	**Entry No.**
Default	000-019
Value Range	000-999 in 20 codes increments
Description/Function	Specifies the entry number of the Speed Dialling codes which you are going to programme.
Reference	None

Parameter	**Max. Entry**
Default	(Display only)
Value Range	0-1000
Description/Function	Displays the maximum number of Speed Dialling codes allocated to the tenant.
Reference	None

Parameter	**Current Registration**
Default	(Display only)
Value Range	0-1000
Description/Function	Displays the total number of Speed Dialling codes which are already programmed.
Reference	None

Parameter	**Name**
Default	Blank
Value Range	Up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✶ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the name for each speed dial code.
	Note
	The stored name is shown on a large display PT, such as KX-T7235 / KX-T7436, when dialling System Speed Dialling number.
Reference	• 2.10.4 Using the KX-T7433, KX-T7436 or KX-T7235 (U/M)

Parameter	**Number**
Default	Blank
Value Range	Up to 24 digits consisting of 0-9, ✶, #, -, P, S or F
Description/Function	Specifies the telephone number for each speed dial code.
	Note
	• P: Pause, S: Secret Dialling, F: Hook Flash
Reference	None

5.3   Phantom Extension

Used to register up to 448 Phantom Extension numbers.

Parameter	**Entry No.**
Default	001-048
Value Range	001-448 in 48 codes increments
Description/Function	Specifies the entry number of phantom extension number which you are going to programme.
Reference	• 1.3 System Features (F/G) – Phantom Extension

Parameter	**FDN**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for each Phantom button. **Note** • A single Phantom extension number can be assigned to multiple extensions so that the caller can ring a group of extensions simultaneously.
Reference	• 1.3 System Features (F/G) – Floating Station • 4.1.2 Customising the Buttons (U/M)
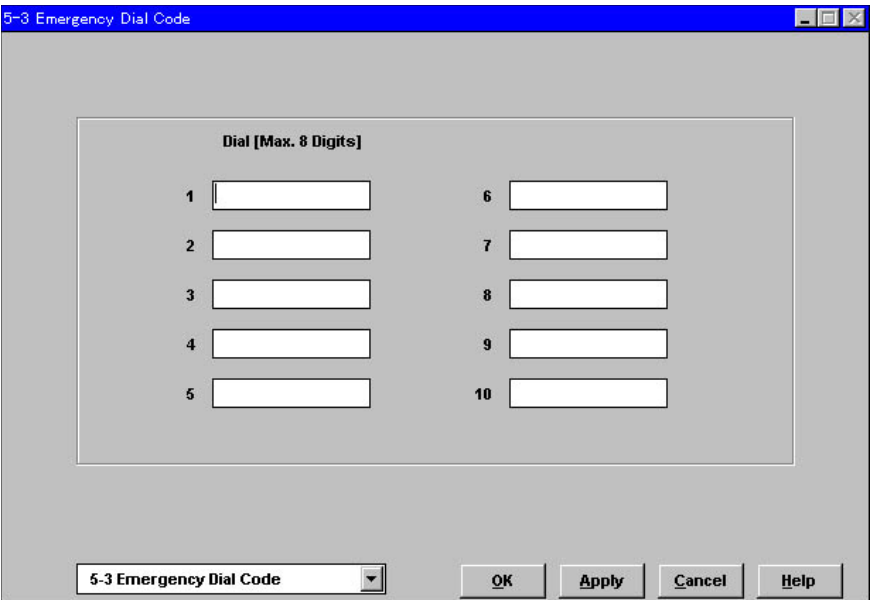
5.4   Emergency Dial Code

Used to programme a list of up to 10 emergency numbers that any extension in the system can dial at any time, regardless of dialling restrictions.

Parameter	Dial
Default	All: Blank
Value Range	Up to 8 digits consisting of 0-9
Description/Function	Specifies emergency telephone numbers that can be dialled from any extension regardless of restrictions imposed by Toll Restriction, Account Code - Verified mode or Electronic Station Lockout.
Reference	• 1.6 Originating Features (F/G) – Emergency Call • 2.2.1 Basic Calling (U/M)

5.5   Quick Dialling

Used to store up to eight Quick Dial numbers.
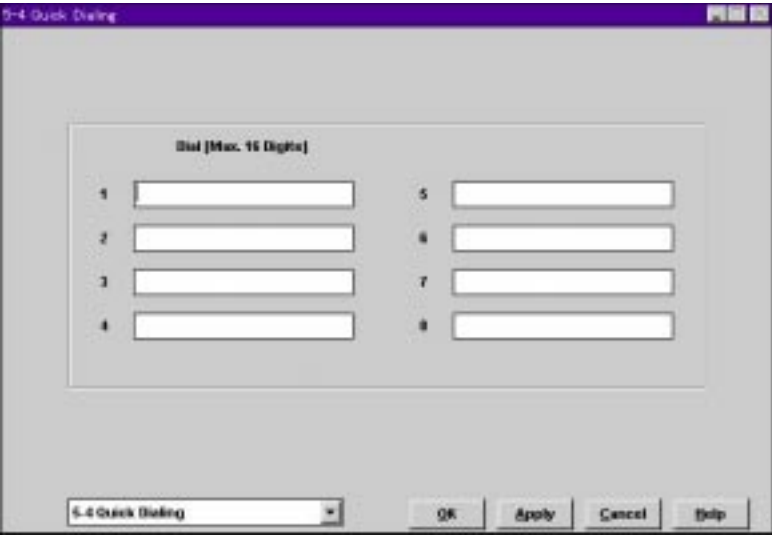
Parameter	**Dial**
Default	All: Blank
Value Range	Up to 16 digits consisting of 0-9, ✳, #, F, P, S or "-" (hyphen)
Description/Function	Specifies the phone number for Quick Dialling.
	Note
	• Any extension user can use Quick Dialling number simply by dialling the feature number for "Quick Dial 1-8."
Reference	• 1.7 Dialling Features (F/G) – Quick Dialling • 2.2.2 Easy Dialling (U/M)

5.6   Account Code

Used to programme a list of up to 1000 account codes which are used to identify incoming and outgoing CO calls for accounting and billing purposes.

Parameter	**Tenant No.**
Default	1
Value Range	1-8
Description/Function	Specifies the tenant to which a list of Account Codes is assigned. (Required when "Tenant Service" is employed.)
Reference	• 2.2 Tenant (P/G)

Parameter	**Entry No.**
Default	0001-0020
Value Range	0001-1000 in 20 codes increments
Description/Function	Specifies the entry number of the Account code which you are going to programme.
Reference	None

Parameter	**Code**
Default	Blank
Value Range	Up to 10 digits consisting of 0-9
Description/Function	Specifies the account codes.
Reference	• 1.3 System Features (F/G) – Account Code Entry • 2.2.5 Calling without Restrictions (U/M)

Parameter	**TRS Level**
Default	None
Value Range	None, 1-6
Description/Function	Specifies the TRS (toll restriction) level for each account code. **Note** • TRS level appended to each account code applies to the call in conjunction with "Toll Restriction by Account Code Entry" feature.
Reference	• 1.3 System Features (F/G) – Account Code Entry • 2.2.5 Calling without Restrictions (U/M)

5.7   Special Carrier Code

Used to programme a list of up to 100 Special Carrier Codes.

Parameter	Code
Default	Blank
Value Range	Up to 10 digits consisting of 0-9, ✳, # or X
Description/Function	Specifies special carrier access codes.

Notes
- This assignment allows the system to recognize the user-dialled special carrier code in order to insert the necessary pause and to apply toll restriction.
- "X" can be used as a wild card character which substitutes any digit in its position.

Reference   • 1.6 Originating Features (F/G)
             – Toll Restriction

5.8   Waiting Second Dial Tone Code

Used to assign parameters for the Waiting Second Dial Tone feature.

Parameter	**Entry No.**
Default	001-020
Value Range	001-200 in 20 codes increments
Description/Function	Specifies the entry number for the Waiting Second Dial Tone codes which you are going to programme.
Reference	None

Parameter	**Mode**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether Waiting Second Dial Tone mode is enabled or not. **Note** • In some areas, upon completion of area code entry, the extension user must ensure the reception of the second dial tone from the Central Office before dialling the office code and the subscriber number. In this case, this mode should be enabled.
Reference	None

Parameter	**[Waiting Second Dial Tone Code] Dial**
Default	All: Blank
Value Range	0-4 digits consisting of 0-9 or X
Description/Function	Specifies 1-4 digits facility code required by the Central Office. **Note** • A character "X" can be used as a wild card character which substitutes any digit in its position.
Reference	None

Parameter	**[Waiting Second Dial Tone Code] Pause**
Default	None
Value Range	**1.** None **2.** 1-4
Description/Function	Specifies the pause time length (fixed dialling delay) required to ensure the reception of CO dial tone. One pause is equivalent to 4.5 seconds dialling delay.
Reference	None

5.9   Absent Message

Used to programme a list of up to nine absent messages.
An absent message, if set by the extension user, is displayed on the calling extension's display
PT to show the reason of absence (no answer).
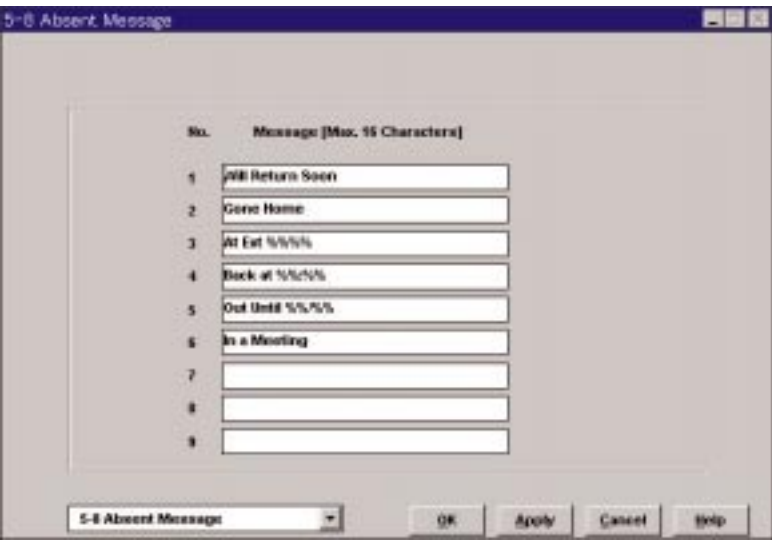
Parameter	**Message**
Default	MSG1: Will Return Soon, MSG2: Gone Home, MSG3: At Ext %%%% (Extension No.), MSG4: Back at %% : %% (Hour: Minute), MSG5: Out Until %% / %% (Month / Day), MSG6: In a Meeting, MSG7-9: Blank
Value Range	Up to 16 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % $\times$ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies Absent Messages. Messages 1 through 6 are programmed at the factory but can be changed.
Reference	• 1.17 Display Features (F/G) – Absent Message Capability • 2.5.3 Showing an Absent Message on the Caller's Telephone Display (Absent Message Capability) (U/M)

5.10   DISA / TIE User Code

Used to programme a list of up to 32 DISA / TIE User Codes.
Each code is appended with a COS level.

Parameter	Code
Default	All: Blank
Value Range	4-10 digits consisting of 0-9
Description/Function	Specifies the User Codes for DISA / TIE feature.

Notes

- DISA user code is required when the DISA caller attempts to make an outside call (Trunk Security mode) or to make either extension or outside call (All Security mode).
- If "TIE-to-CO Security" mode (See Section 4.2   Trunk Line) is set to "Yes," entering TIE user code is required when the TIE caller attempts to make a CO call.
- If the entire code, for example "1234" is included in another code, for example "12345," it is not valid.

Reference	• 1.5 Attended Features (F/G)
	– Direct Inward System Access (DISA)
	• 3.1 E&M Features (F/G)
	– TIE LINES – A SUMMARY

Parameter	**COS**
Default	All: 96
Value Range	1-96
Description/Function	Specifies COS (Class of Service) Level for each User Code.
Reference	• 2.4 Class of Service (COS) (P/G)

5.11   VPS Integration

5.11.1   VPS Integration 1 / 2

Used to assign Integration Code and Voice Mail Command for VPS Integration.

Integration Code

When DTMF tone Integration is activated, the KX-TD500 informs the VPS (Voice Processing System) of the state of the call (busy, answered, ringing, etc.) by sending a code with DTMF tone before sending the normal call progress tone (busy tone, ringback tone, etc.).
These codes enable the VPS to immediately recognize the current state of the call and improve its call handling performance.

Parameter	**Ringback Tone**
Default	1
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Ringback Tone code. Sent to the VPS when the extension it dialled is ringing.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Busy Tone**
Default	2
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Busy Tone code. Sent to the VPS when the extension it dialled is busy.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Reorder Tone**
Default	3
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Reorder Tone code. Sent to the VPS if it dials an invalid extension number, or if it is inadvertently connected to another VPS and so on.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**DND Tone**
Default	4
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the DND Tone code. Sent to the VPS if the extension it dialled is in DND mode.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Extension Answer**
Default	5
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Extension Answer code. Sent to the VPS when the extension it dialled answers the call.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Extension Disconnection**
Default	#9
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Extension Disconnection code. Sent to the VPS when the calling party hangs up.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Confirmation Tone**
Default	9
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the Confirmation Tone code. Sent to the VPS when it successfully dials a message waiting lamp on / off code.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**FWD to VM Ringback Tone**
Default	6
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the FWD to VM Ringback Tone code. Sent to the VPS if the caller is forwarded to another VM (Voice Mail) port which is available to accept the call.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**FWD to VM Busy Tone**
Default	7
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the FWD to VM Busy Tone code. Sent to the VPS if the caller is forwarded to a VM port which is not available to accept the call.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**FWD to Extension Ringback Tone**
Default	8
Value Range	Up to 3 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the FWD to Extension Ringback Tone code. Sent to the VPS if the caller is forwarded to another, non-voice mail extension.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Voice Mail Command

Voice Mail Commands are used to control the activity of VPS.
There are the following four Voice Mail Commands:
Leave Message, Get Message, AA (Automated Attendant) Service and VM (Voice Mail) Service.
A unique code (dialling digits), up to 16 digits, can be assigned to each command.

Parameter	**Leave Message**
Default	H
Value Range	Up to 16 digits consisting of 0-9, ✳, # or H
Description/Function	Specifies the Leave Message command. This command is transmitted to a VM port if a call is forwarded or intercepted and rerouted to the VM port.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Get Message**
Default	*H
Value Range	Up to 16 digits consisting of 0-9, ✳, # or H
Description/Function	Specifies the Get Message command. This command is transmitted to a VM port when the message receiver presses the MESSAGE button to retrieve a voice message.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**AA Service**
Default	#8
Value Range	Up to 16 digits consisting of 0-9, ✳, # or H
Description/Function	Specifies the AA (Automated Attendant) Service command. If AA Service is set to "Start" by system programming, this command is sent to a VM port if an incoming CO call is answered by the VM port.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**VM Service**
Default	#6
Value Range	Up to 16 digits consisting of 0-9, ✳, # or H
Description/Function	Specifies the VM (Voice Mail) Service command. This command is transmitted preceding the "Get Message" command above. This is effective to switch to a VM port when an AA port lights the MESSAGE indicator. This command is also transmitted preceding the "Leave Message" command if Operator transfers a call to an extension and then it is forwarded to an AA port so that the AA port can be switched to VM port temporarily.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

5.11.2   VPS Integration 2 / 2

Used to assign optional parameters for VPS Integration.

Parameter	**DTMF signal duration**
Default	80 ms
Value Range	**1.** 80 ms **2.** 160 ms
Description/Function	Specifies the duration of the DTMF signals sent to the VPS (Voice Processing System) ports.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Pause timing before sending DTMF signal (Follow on ID)**
Default	1.5 s
Value Range	**1.** 0.5 s **2.** 1.0 s **3.** 1.5 s **4.** 2.0 s
Description/Function	Specifies the length of time in seconds the system is to wait after VPS answers a call before sending DTMF signals (such as a mailbox number = Follow on ID) to VPS.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Pause timing before sending DTMF signal (RBT, BT)**
Default	1.5 s
Value Range	**1.** 0.5 s **2.** 1.0 s **3.** 1.5 s **4.** 2.0 s
Description/Function	Specifies the length of time in seconds the system is to wait before sending Integration Code with DTMF signals (System- Voice Mail, Extension Status).
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Turn off control of Message Waiting lamp**
Default	System
Value Range	**1.** System **2.** Voice Mail
Description/Function	Specifies whether the system or the VPS turns off the Message Waiting lamp after the extension user retrieved a message recorded in his / her mailbox.
Reference	• 1.17 Display Features (F/G) – Message Waiting

Parameter	**Start AA service after FWD, IRNA of CO call**
Default	Do not start
Value Range	**1.** Do not start **2.** Start
Description/Function	Specifies whether the system starts the AA (Automated Attendant) Service or not if a CO call is directed to VPS by Call Forwarding or Intercept Routing. If "Start" is specified, "AA Service Code" is transmitted to the VM port and the VM service does not work.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Extension's mailbox number**
Default	Programmed number
Value Range	**1.** Extension number **2.** Programmed number
Description/Function	Specifies if an extension's mailbox number is substituted by the extension number or it is programmable (free). If a call is forwarded or rerouted to the VPS, the system automatically transmits the mailbox number to the VPS to specify the extension user's mailbox. To make it programmable, select "Programmed number," then assign the mailbox number in "Line - Extension Line, Mailbox No."
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Call from AA port to AA port**
Default	Allow
Value Range	**1.** Allow **2.** Deny
Description/Function	Allows or disallows calling from an AA port of VPS to another AA port.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	**Sending out Follow on ID after FWD**
Default	Enable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies whether or not the system sends Follow on ID to a VPS port after forwarding a call to the VPS port.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

Parameter	Sending out Follow on ID after IRNA
Default	Disable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies whether or not the system sends Follow on ID to a VPS port after redirecting a call (IRNA) to the VPS port.
Reference	• 1.3 System Features (F/G) – VPS INTEGRATION – A SUMMARY

5.12 Caller ID Modification

Used to modify the telephone number sent from the Central Office by Caller ID Service to make up a telephone number for callback purposes.

Parameter	**[Local Call] Area Code**
Default	Blank
Value Range	Up to 6 digits consisting of 0-9
Description/Function	Specifies the area code of the location where your KX-TD500 system is installed. **Note** • This local area code is referenced to modify the telephone number.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**[Local Call] Digits to delete**
Default	1: 3, Others: 0
Value Range	0-9
Description/Function	Specifies the number of digits to be deleted from the telephone number (sent from the Central Office by Caller ID Service) to make up a telephone number for local call. Digits are removed from the beginning of the received digits.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**[Local Call] Number to be added**
Default	Blank
Value Range	Up to 4 digits consisting of 0-9, ✳ or #
Description/Function	Specifies the number to be added to the telephone number (sent from the Central Office by Caller ID Service) to make up a telephone number for local call. The number is added to the beginning of the received digits.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**[Long Distance Call] Digits to delete**
Default	0
Value Range	0-9
Description/Function	Specifies the number of digits to be deleted from the telephone number (sent from the Central Office by Caller ID Service) to make up a telephone number for long distance call. Digits are removed from the beginning of the received digits.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**[Long Distance Call] Number to be added**
Default	1
Value Range	Up to 4 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the number to be added to the telephone number (sent from the Central Office by Caller ID Service) to make up a telephone number for long distance call. The number is added to the beginning of the received digits.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

5.13   Caller ID Registration

Used to assign the Caller ID code (identification code of the calling party) to utilize Caller ID Service provided by a specific Central Office (CO).
If an ID Code transmitted from CO is found in the Caller ID Code Table, the caller's ID Code or a name given to the code is displayed on the display PT, allowing the called party to recognize the caller before answering a call. If the network provides telephone number only, the system searches for the matching name from the Caller ID Code Table. If the matching name is found, the system will display both the telephone number and the name.

Parameter	Tenant No.
Default	1
Value Range	1-8
Description/Function	Specifies the tenant to which the Caller ID codes are assigned. (Required when "Tenant Service" is employed.)
Reference	• 2.2 Tenant (P/G)

Parameter	Entry No.
Default	0001-0010
Value Range	0001-1000 in 10 codes increments
Description/Function	Specifies the entry number of Caller ID codes which you are going to programme.
Reference	None

Parameter	**Name**
Default	Blank
Value Range	Up to 16 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✶ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the name to a Caller ID code.
	Note • With Caller ID Service, the calling party is displayed either by its ID Code or by its name. If the name display is required, use this programme to give a name to a Caller ID code.
Reference	• 2.10.1 Calling Using the Call Log (Incoming Call Log) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

Parameter	**Number**
Default	Blank
Value Range	Up to 24 digits consisting of 0-9, ✶ or #
Description/Function	Specifies the identification code of the calling party (Caller ID code) to utilize Caller ID Service.
Reference	• 2.10.1 Calling Using the Call Log (Incoming Call Log) [KX-T7433, KX-T7436, KX-T7230, KX-T7235 only] (U/M)

5.14   UCD Time Table

If all extensions in a UCD group are busy, the incoming CO calls will be handled by the UCD
Time Table procedure.
Up to 32 UCD Time Tables, max.16 steps for each, can be assigned.

Parameter	**Table No.**
Default	1
Value Range	1-32
Description/Function	Specifies the UCD Time Table which you are going to programme.
Reference	Time Table No. in 3.3 Extension Group (P/G)

Parameter	**Command Sequence (1-16)**
Default	Command No.1 of all tables: 1T, Others: None
Value Range	None, S1 - S8, 1T - 4T, TR, RET, OFF
Description/Function	The following commands are provided to construct a UCD Time Table procedure.
	<Commands list and their functions>
	None: Skips to the next sequence.
	S1 - S8: OGM (1-8) is sent to the caller if available. If not, wait until OGM (1-8) becomes available.
	1T - 4T: Callers are put in the waiting queue for N (1-4) $\times$ 8 seconds while hearing the ringback tone or music on hold.
	TR: Transfers a call to the Overflow destination.
	RET: Returns to the first step of the sequence.
	OFF: Disconnects the call compulsorily.
	Note • If an unavailable OGM S(1-8) is assigned in the UCD Time Table, it will be ignored.
Reference	Time Table No. in 3.3 Extension Group (P/G)

5.15 Charge

Used to assign parameters for the Charge Fee Management feature.

Parameter	**Charge Display on LCD**
Default	Meter
Value Range	**1.** Meter **2.** Charge
Description/Function	Specifies the initial display format of the charge fee on a display PT.
Reference	• 1.3 System Features (F/G) – Charge Fee Reference

Parameter	**Charge by SMDR**
Default	Meter
Value Range	**1.** Meter **2.** Charge
Description/Function	Specifies the SMDR Output Mode of the telephone charge.
Reference	• 1.3 System Features (F/G) – Station Message Detail Recording (SMDR)

Parameter	**[Charge Verification ID Code] Tenant 1-8**
Default	1234
Value Range	4-7 digits consisting of 0-9
Description/Function	Specifies the ID code required for the charge management. When "Tenant Service" is employed, the password for each tenant (Tenant 1 to 8) can be assigned respectively.
Reference	• 4.2 Charge Fee Management (Station Programming) (U/M)

Parameter	**Rate**
Default	1
Value Range	0.00001-999999
Description/Function	Specifies the charge rate per meter. **Notes** • The telephone charge is calculated by multiplying the value of "Rate" and the meter (the number of Pay Tones sent from the Central Office). • Telephone charge is shown on a display PT in a max. 8 digits (including the '.' [decimal point]) format.
Reference	• 4.2 Charge Fee Management (Station Programming) (U/M)

Parameter	**Currency**
Default	$
Value Range	Up to 2 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✶ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the currency appropriate to your country.
Reference	None

Parameter	**Currency Display Position**
Default	Tail
Value Range	**1.** Head **2.** Tail
Description/Function	Specifies whether the currency of the charge is displayed before (Head) or after (Tail) the charge display.
Reference	None

Features

Parameter	**Treatment of Charge Limit**
Default	Alarm Tone
Value Range	**1.** Alarm Tone **2.** Alarm Tone and Disconnect **3.** Disconnect
Description/Function	Specifies the treatment of the call / caller when the telephone charge of the extension exceeds the pre-assigned limit during a call.
Reference	None

Parameter	**Meter Count up by Answer Detection**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the system starts the counting of telephone charge when the system detects the answer signal from the Central Office.
Reference	None

Section 6

Toll Restriction

6.1   Toll Restriction

Used to assign TRS (Toll Restriction) Deny Codes and TRS Exception Codes.
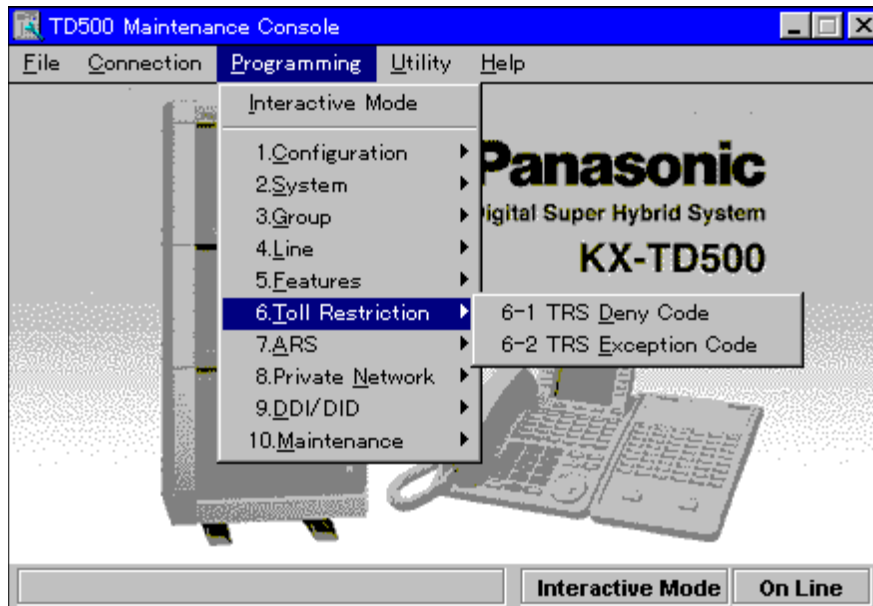
6.2   TRS Deny Code

Used to programme a list of up to 400 TRS (Toll Restriction) Deny Codes - telephone numbers that extension users cannot dial.

Parameter	**TRS Level**
Default	6
Value Range	2 - 6
Description/Function	Specifies a TRS (toll restriction) level.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

Parameter	**Entry No.**
Default	001-020
Value Range	001-400 in 20 entries increments
Description/Function	Specifies a unit of 20 TRS Deny Codes which apply to the TRS level selected.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

Parameter	Dial
Default	Blank
Value Range	Up to 10 digits consisting of 0-9, X, ✳ or #
Description/Function	Specifies the leading 10 digits of the toll-restricted telephone numbers.

Note
- "X" can be used as a wild card character which substitutes any digit in its position.

Reference	• 1.6 Originating Features (F/G)
	– Toll Restriction

6.3   TRS Exception Code

Used to programme a list of numbers that an extension is allowed to dial, even if these numbers are listed in a TRS Deny Code Table.
Up to 200 TRS Exception codes can be assigned.

Parameter	**TRS Level**
Default	6
Value Range	2-6
Description/Function	Specifies a TRS (toll restriction) level.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

Parameter	**Entry No.**
Default	001-020
Value Range	001-200 in 20 entries increments
Description/Function	Specifies a unit of 20 TRS Exception codes which apply to the TRS level selected.
Reference	• 1.6 Originating Features (F/G) – Toll Restriction

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Parameter	**Dial**
Default	Blank
Value Range	Up to 10 digits consisting of 0-9, X, ✳ or #
Description/Function	Specifies the leading 10 digits of the telephone numbers which are excepted from the toll restriction.

Note
*   "X" can be used as a wild card character which substitutes any digit in its position.

Reference
*   1.6 Originating Features (F/G)
    – Toll Restriction

Section 7

ARS (Automatic Route Selection)

7.1 ARS (Automatic Route Selection)

Used to assign ARS parameters.
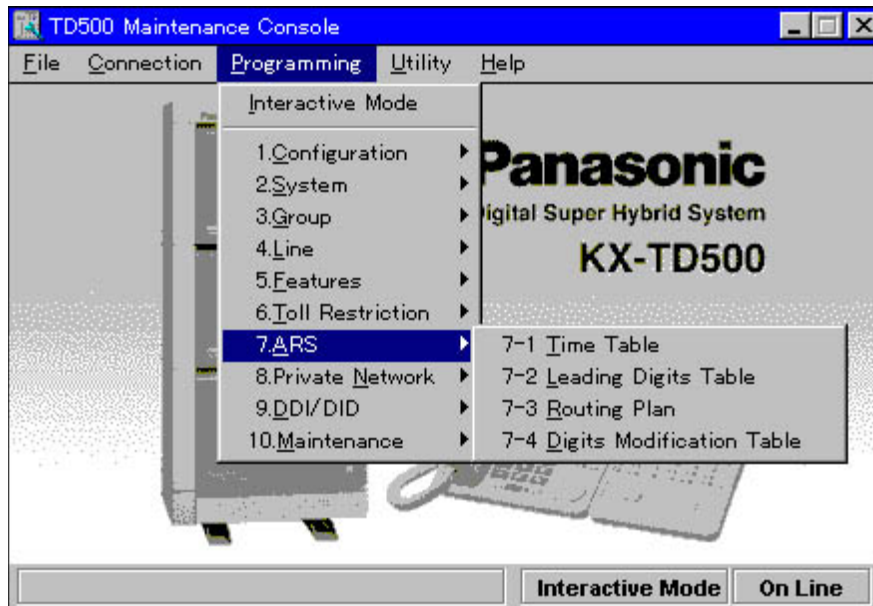
7.2   Time Table

Used to make up ARS time schedules. It is possible to split a day into four time zones (maximum) so that the least expensive line is selected for that time.
Enter the starting time of each zone according to the service hours and charges offered by your carriers.

Parameter	Time A,-B,-C,-D, (SUN, MON, TUE, WED, THU, FRI, SAT)
Default	Time-A=8:00AM, Time-B=5:00PM, Time-C=9:00PM, Time-D=Disable
Value Range	Hour : 01-12, AM / PM, Disable
Description/Function	Specifies starting time (Hour: 01-12, AM / PM, Disable) of the applied Route List.
Reference	• 7.4 Routing Plan (P/G)

7.3 Leading Digits Table

Used to determine the appropriate Route Plan Table number for a call by analyzing the extension user-dialled number. Up to 800 Leading Digits entries can be programmed in the system.

Parameter	**Entry No.**
Default	001-020
Value Range	001-800 in 20 entries increments
Description/Function	Specifies the entry number which you are going to programme.
Reference	• 1.6 Originating Features (F/G) – Automatic Route Selection (ARS)

Parameter	**Dial**
Default	Blank
Value Range	Up to 10 digits consisting of 0-9, $\ast$, # or X
Description/Function	Specifies the leading 10 digits of the telephone number which will be routed by ARS procedure.

Note
- "X" can be used as a wild card character which substitutes any digit in its position.
  (Example 1.)
  Leading Digits: 1800→ ARS Plan 1
  Leading Digits: 1×××→ ARS Plan 2
  If the user-dialled number is "1800," the system selects ARS Plan 1.
  (Example 2.)
  Leading Digits: 1800 →ARS Plan 1
  Leading Digits: 1×→ ARS Plan 2
  If the user-dialled number is "1800," the system selects ARS Plan 2.

Reference	• 1.6 Originating Features (F/G) 　　– Automatic Route Selection (ARS)

Parameter	**Routing Plan No.**
Default	None
Value Range	None, 1-48
Description/Function	Specifies the Routing Plan No. (01 - 48) which is used for routing the telephone number registered in Dial field above.
Reference	• 1.6 Originating Features (F/G) 　　– Automatic Route Selection (ARS)

7.4 Routing Plan

Used to specify the Trunk Group number (01 - 48) and Modified Digit Table number (01 - 48) to be used for each route plan and time schedule. Up to 48 Routing Plan entries can be programmed in the system.

Parameter	**Plan No.**
Default	1
Value Range	1-48
Description/Function	Specifies the Routing Plan Table number which you are going to programme.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

Parameter	**[Time-A, -B, -C, -D] Trunk Group No.**
Default	None
Value Range	None, 1-48
Description/Function	Specifies the TRG (Trunk Group) number which is used for routing the call. Up to 16 trunk groups can be entered.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

Parameter	**[Time-A, -B, -C, -D] Modification Table No.**
Default	None
Value Range	None, 1-48
Description/Function	Specifies the MOD (Modified Digit) table number which is used to modify the user-dialled number so that it matches the requirement of the carrier.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

7.5   Digits Modification Table

Used to modify the user-dialled number so that it matches the requirements of the carrier.
Up to 48 Digits Modification entries can be programmed in the system.

Parameter	**Entry No.**
Default	01-08
Value Range	01-48 in 8 entries increments
Description/Function	Specifies the entry number of Digits Modification table which you are going to programme.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

Parameter	**Digits to delete**
Default	0
Value Range	0-9
Description/Function	Specifies the number of digits to be deleted from the beginning of the user-dialled number. If you set to "0," no digit is deleted from the user-dialled number.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

Parameter	**Number to be added**
Default	Blank
Value Range	Up to 20 digits consisting of 0-9, ✳, # or P [Pause]
Description/Function	Specifies the dialling number to be added to the beginning of the user-dialled number.
Reference	• 1.6 Originating Features(F/G) – Automatic Route Selection (ARS)

Section   8
Private Network

8.1   Private Network

Used to assign parameters required to utilize TIE line service.
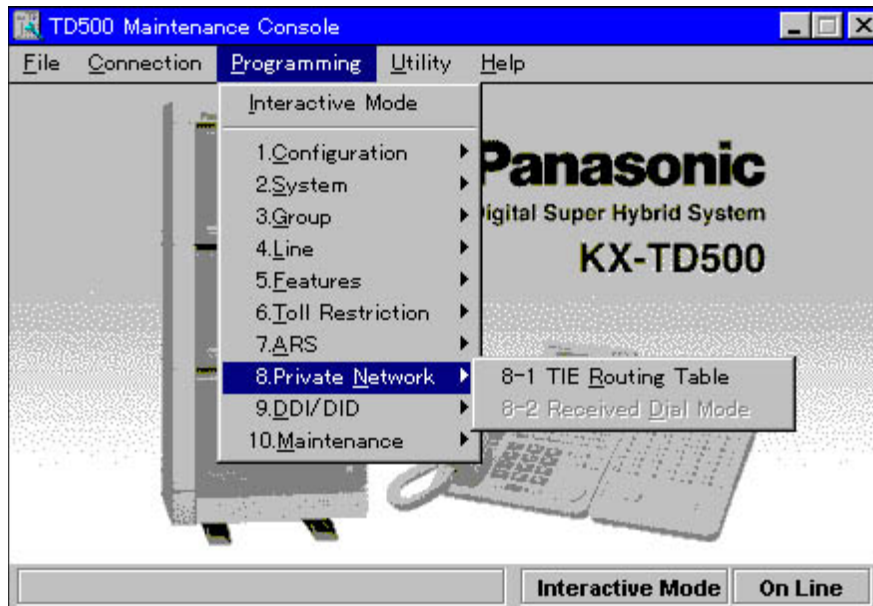
8.2 TIE Routing Table

Used to specify trunk groups and parameters required for making TIE calls.

This table is referenced by the system to identify the trunk route, when an extension user made a TIE call by dialling the feature number for "TIE Line Access" or "Other PBX Extension number."

The first 3 digits (other than TIE Line Access Code) of the dialled number decide a routing pattern appropriate for each call. Up to 36 routing patterns can be programmed in this table.

Parameter	**Entry No.**
Default	01-08
Value Range	01-36 in 8 entries increments
Description/Function	Specifies the entry number of Routing Table which you are going to programme.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**PBX Code**
Default	Blank
Value Range	Up to 3 digits consisting of 0-9
Description/Function	Specifies the ID code for your PBX. (Required when your PBX is a part of a TIE Line Network.)
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Leading Digit**
Default	Blank
Value Range	Up to 3 digits consisting of 0-9 or X
Description/Function	Specifies the leading one, two or three digits of the number for TIE calls. Used to determine the trunk group for routing a TIE call. **Note** • "X" can be used as a wild card character which substitutes any digit in its position.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Digits to delete**
Default	0
Value Range	0-16
Description/Function	Specifies the number of digits to be deleted from the dialled digits.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Number to be added**
Default	Blank
Value Range	Up to 20 digits consisting of 0-9
Description/Function	Specifies the dialling number to be added to the dialled digits.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Parameter	**Trunk Group No.**
Default	None
Value Range	None, 1-48
Description/Function	Specifies the trunk group hunt sequence to be used when placing a TIE call. The sequence is commonly used by all tenants but trunk group will be skipped if it does not belong to the same tenant as the caller.
Reference	• 3.1 E&M Features (F/G) – TIE LINES – A SUMMARY

Section   9
DDI / DID

9.1   DDI / DID

Used to assign parameters required to utilize DDI / DID service.
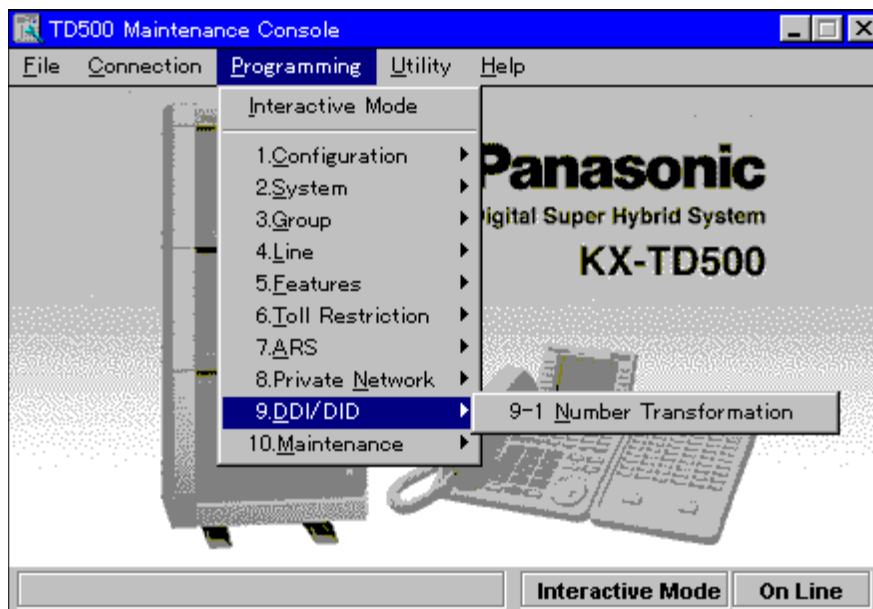
9.2   Number Transformation

Used to specify several parameters for DDI / DID service.

Parameter	**Entry No.**
Default	0001-0020
Value Range	0001-1000 in 20 entries increments
Description/Function	Specifies the entry number of DDI / DID No. which you are going to programme.

Reference	• 1.5 Attended Features (F/G)
	        – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	        – Direct Dialling In (DDI)

Parameter	**DID / DDI / MSN No.**
Default	Blank
Value Range	Up to 16 digits consisting of 0-9
Description/Function	Specifies the DID / DDI / MSN number which will be sent from the Central Office to the KX-TD500 system.
	Note
	• The DDI / DID number which has already been assigned cannot be registered.
Reference	• 1.5 Attended Features (F/G)
	– Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	– Direct Dialling In (DDI)

Parameter	**Destination – Day / Night**
Default	Blank
Value Range	3-4 digits consisting of 0-9
Description/Function	Specifies the DN / FDN (Extension Group, TAFAS, Phantom Extension, Remote Resource) where a DDI / DID call comes in during Day / Night mode respectively.
Reference	• 1.5 Attended Features (F/G)
	– Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	– Direct Dialling In (DDI)

Parameter	**Name**
Default	Blank
Value Range	Up to 10 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies the name for the destination extension where a DDI / DID call comes in.
Reference	• 1.5 Attended Features (F/G)
	– Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	– Direct Dialling In (DDI)

Parameter	MSN Line No.
Default	Blank
Value Range	Physical number of the trunk port
Description/Function	Specifies the physical number of the trunk port. This port will be used to forward a call by ISDN Line.
Reference	• 2.4 ISDN Attended Features (F/G) – Multiple Subscriber Number (MSN) Ringing Service

Section   10
Maintenance

10.1 Maintenance

Used to assign parameters for system maintenance.
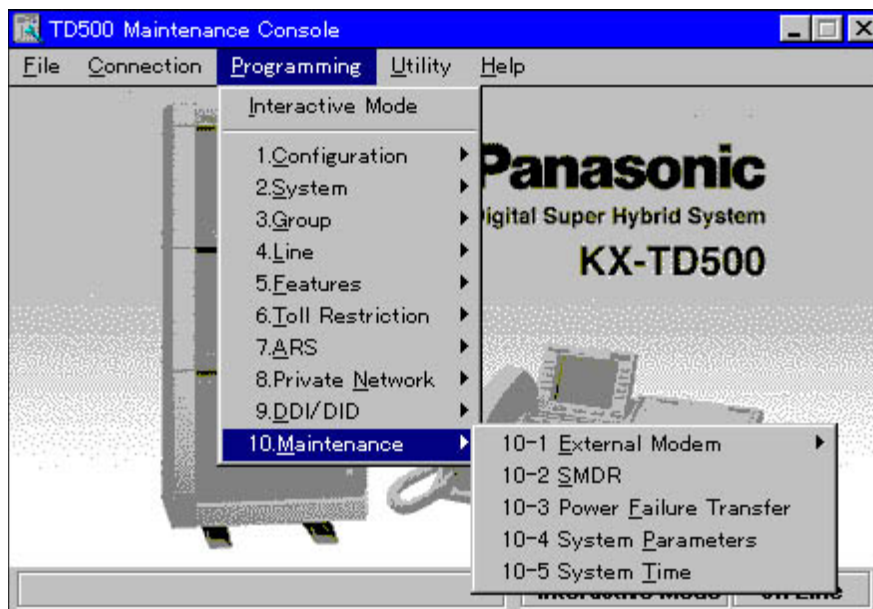
10.2 External Modem 1 / 2

The system supports an external modem plugged into the RS-232C port for remote system administration.

Parameter	**Manual Initialization Command (1- 5)**
Default	All: Blank
Value Range	Up to 80 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies Modem Manual Initialisation Command.
Reference	• 1.3 System Features (F/G) – External Modem Control • 2.11.1 Controlling the External Modem (External Modem Control) (U/M)

Parameter	Automatic Initialization Command
Default	AT&F0Q0E0V1S0=1X0&D0
Value Range	Up to 80 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Specifies Modem Automatic Initialisation Command.
Reference	• 1.3 System Features (F/G) – External Modem Control • 2.11.1 Controlling the External Modem (External Modem Control) (U/M) **<u>Note</u>** A hardware flow control cannot be done by the communication port of KX-TD500. Therefore, the hardware flow control of your modem must be disabled to communicate correctly. It depends on the type of the modem you use. In most cases, hardware flow control can be disabled by sending the "&K0" command from the PBX to the external modem. (Please refer to the manual of the external modem you use for further information.) It is recommended to add this command to "Automatic Initialisation Command," the command to initialise the modem automatically every time an external modem is plugged into the RS-232C Port 1.

10.3 External Modem 2 / 2
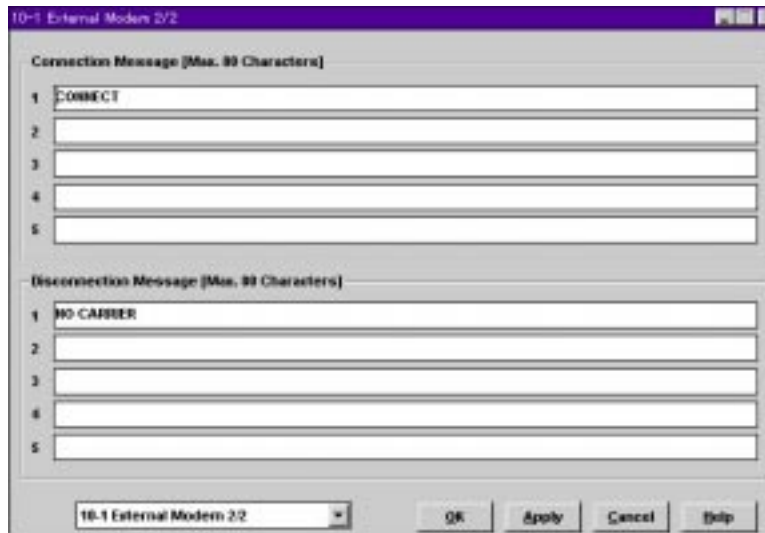
Parameter	**Connection Message (1-5)**
Default	Message 1: CONNECT, Others: Blank
Value Range	Up to 80 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Displays Connection Message from Modem.
Reference	• 1.3 System Features (F/G) – External Modem Control • 2.11.1 Controlling the External Modem (External Modem Control) (U/M)

Parameter	**Disconnection Message (1-5)**
Default	Message 1: NO CARRIER, Others: Blank
Value Range	Up to 80 characters consisting of 0-9, A-Z, a-z or the following marks: ! # $ % ✳ ' ( ) + , - / : ; < = > ? @ &.
Description/Function	Displays Disconnection Message from Modem.
Reference	• 1.3 System Features (F/G) – External Modem Control • 2.11.1 Controlling the External Modem (External Modem Control) (U/M)

10.4   SMDR

Station Message Detail Recording (SMDR) automatically records detailed information for outside calls.

Parameter	**SMDR Connection**
Default	No
Value Range	**1.** Yes **2.** No
Description/Function	Enables or disables SMDR.
Reference	• 2.8.4 Personal Computer/Priner (I/M)

Parameter	**Output Type**
Default	Type-A
Value Range	**1.** Type-A **2.** Type-B **3.** Type-C **4.** Type-D
Description/Function	Specifies the output type of SMDR information. See the Maintenance Console "help" file or Station Message Detail Recording (SMDR) in the Features Guide for examples of each type.
Reference	• 1.3 System Features (F/G) – Station Message Detail Recording (SMDR)

Parameter	**Print out Error Information**
Default	Disable
Value Range	**1.** Disable **2.** Enable
Description/Function	Specifies whether or not the Error Indication will be printed out by SMDR.
Reference	• 5.2.3 Troubleshooting via Error Log Records (I/M)

Parameter	**[Format] Page Length**
Default	24 lines
Value Range	4-99 lines
Description/Function	Specifies the number of lines per page. Used to match the SMDR output to the paper size being used in the printer.
Reference	None

Parameter	**[Format] Skip Perforation**
Default	0
Value Range	0-95 lines
Description/Function	Determines the number of lines to be skipped at the end of every page. The number of lines to skip is simply the number specified in this parameter. The number of lines printed is the difference between the page length number and the skip perforation number.
Reference	None

Parameter	**[Duration Log] Outgoing Calls**
Default	All
Value Range	**1.** None **2.** All **3.** Toll Only
Description/Function	Specifies the type of outgoing calls which will be printed out by SMDR. **1.** None : No printing **2.** All : All calls **3.** Toll Only : Toll calls only
Reference	None

Parameter	**[Duration Log] Incoming Calls**
Default	On
Value Range	**1.** On **2.** Off
Description/Function	Specifies whether or not incoming calls will be printed out by SMDR. **1.** On: All calls **2.** Off: No printing
Reference	None

Parameter	**Priority of Caller ID information**
Default	Number
Value Range	**1.** Number **2.** Name
Description/Function	SMDR can print out Caller ID information. This setting specifies whether priority is given to Caller ID Name or to Caller ID Number. However, SMDR can print out both when "Type-D" is specified as Output Type.
Reference	• 1.5 Attended Features (F/G) – Caller ID Service

Parameter	**Print out DDI / DID subscriber number**
Default	Disable
Value Range	**1.** Disable **2.** Enable
Description/Function	Activates or deactivates printing out the DDI / DID subscriber number received from the Central Office.

Reference	• 1.5 Attended Features (F/G)
	    – Direct Inward Dialling (DID)
	• 2.4 ISDN Attended Features (F/G)
	    – Direct Dialling In (DDI)

Parameter	**Print out Incoming Call Start "RC" and Incoming Call Answer "AN" information**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Enables or disables the SMDR printout for RC (when an incoming call occurs) and AN (when an incoming call is answered).
Reference	None

Parameter	**Print out No Answer of Timed Reminder information**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	If this is enabled, SMDR will print out "Timed Reminder / Start" each time the timed reminder alarm starts ringing. In addition, if the ringing is not stopped by going off-hook, the SMDR will print out "Timed Reminder / No Answer."
Reference	• 1.8 Ringing Features (F/G) – Timed Reminder (Wake-Up Call)

Parameter	**Print out Account Code**
Default	Enable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the Account Code will be printed out by SMDR.
Reference	• 1.3 System Features (F/G) – Account Code Entry

Parameter	**Print out LOGIN / LOGOUT**
Default	Disable
Value Range	**1.** Enable **2.** Disable
Description/Function	Specifies whether or not the Login / Logout status of Extension Group members and Phantom extensions will be printed out by SMDR.
Reference	• 1.8 Ringing Features (F/G) – Log-In / Log-Out

10.5   Power Failure Transfer

Power Failure Transfer connects specific telephones (any SLT and a certain type of APT) to pre-determined CO lines in the event of system power failure.

Parameter	Trunk Card
Default	None
Value Range	None, XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the trunk card number and its type, which will be used in case of Power Failure Transfer.
Reference	• 1.4 Fault Recovery / Diagnostics (F/G) – Power Failure Transfer • 2.9.1 Auxiliary Connection for Power Failure Transfer (I/M)

Parameter	**Extension Card**
Default	None
Value Range	None, XXX : YYY [XXX : Card No. (101-314), YYY : Card Type]
Description/Function	Specifies the extension card number and its type, which will be used in case of Power Failure Transfer.
	Notes
	• DPTs and some APTs cannot be used during a power failure.
	• Auxiliary connections between the Trunk card and Extension card should be made as per the System Programming so that conversation is maintained when power is down or TSW is recovering.
Reference	• 1.4 Fault Recovery / Diagnostics (F/G) – Power Failure Transfer • 2.9.1 Auxiliary Connection for Power Failure Transfer (I/M)

10.6   System Parameters

Used to assign various system parameters.

Parameter	**[Password] System Programming**
Default	1234
Value Range	4-7 digits of alphanumeric characters
Description/Function	Specifies the password required for entering System Programming mode and Maintenance from a Personal Computer.
Reference	• 3.5 Operational Mode (I/M) • 4 Utility (I/M) • System Programming (P/G)

Parameter	**[Password] User Programming**
Default	1234
Value Range	4-7 digits consisting of 0-9
Description/Function	Specifies the password required for entering the User Programming mode.
Reference	• 1.2 System Administration (F/G) – User Programming • 4.3 Customising Your System (User Programming) (U/M)

Parameter	**[Password] Walking COS**
Default	1234
Value Range	4-7 digits consisting of 0-9
Description/Function	Specifies the password required for using the Walking COS feature.
Reference	• 1.6 Originating Features (F/G) – Walking COS • 2.2.5 Calling without Restrictions (U/M)

Serial Interface Port

Generally speaking, you should connect your Programming PC to Port 1 and your SMDR printer to Port 2.

PROG (Port 1)
Please refer to Section 1.2 System Administration "System Programming and Diagnosis with Personal Computer" in the Features Guide.

Parameter	**[Serial Interface Port] PROG – Parity**
Default	(Display only)
Value Range	None
Description/Function	A parity code 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 your printer or personal computer. **Note** • Port 1 is fixed to "None."
Reference	None

Parameter	**[Serial Interface Port] PROG – NL Code**
Default	CR + LF
Value Range	**1.** CR+LF **2.** CR
Description/Function	Specifies the NL (New Line) Code for your printer or personal computer. If your printer or personal computer automatically feeds lines with a carriage return, select "CR (Carriage Return)." If not, select "CR+LF (Line Feed)."
Reference	None

Parameter	**[Serial Interface Port] PROG – Word Length**
Default	(Display only)
Value Range	8 bits
Description/Function	Defines the number of bits in each byte or character. **Note** • Port 1 is fixed to 8 bits.
Reference	None

Parameter	**[Serial Interface Port] PROG – Stop Bit**
Default	(Display only)
Value Range	1 bit
Description/Function	A stop bit code indicates the end of a bit string which composes a character. Select an appropriate value depending on the requirements of your printer or personal computer. **Note** • Port 1 is fixed to 1 bit.
Reference	None

Parameter	**[Serial Interface Port] PROG – Baud Rate**
Default	19,200 bps
Value Range	**1.** 2,400 bps **2.** 4,800 bps **3.** 9,600 bps **4.** 19,200 bps
Description/Function	Specifies the data transmission speed from the system to the printer or personal computer.
Reference	None

SMDR (Port 2)

Please refer to Section 1.3 System Features "Station Message Detail Recording (SMDR)" in the Features Guide.

Parameter	**[Serial Interface Port] SMDR – Parity**
Default	None
Value Range	**1.** None **2.** Mark **3.** Space **4.** Even **5.** Odd
Description/Function	A parity code 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 your printer or personal computer.
Reference	None

Parameter	**[Serial Interface Port] SMDR – NL Code**
Default	CR + LF
Value Range	**1.** CR+LF **2.** CR
Description/Function	Specifies the NL (New Line) Code for your printer or personal computer. If your printer or personal computer automatically feeds lines with a carriage return, select "CR (Carriage Return)." If not, select "CR+LF (Line Feed)."
Reference	None

Parameter	**[Serial Interface Port] SMDR – Word Length**
Default	8 bits
Value Range	**1.** 7 bits **2.** 8 bits
Description/Function	Defines the number of bits in each byte or character.
Reference	None

Parameter	**[Serial Interface Port] SMDR – Stop Bit**
Default	1 bit
Value Range	**1.** 1 bit **2.** 2 bits
Description/Function	A stop bit code indicates the end of a bit string which composes a character. Select an appropriate value depending on the requirements of your printer or personal computer.
Reference	None

Parameter	**[Serial Interface Port] SMDR – Baud Rate**
Default	9,600 bps
Value Range	**1.** 2,400 bps **2.** 4,800 bps **3.** 9,600 bps **4.** 19,200 bps
Description/Function	Specifies the data transmission speed from the system to the printer or personal computer.
Reference	None
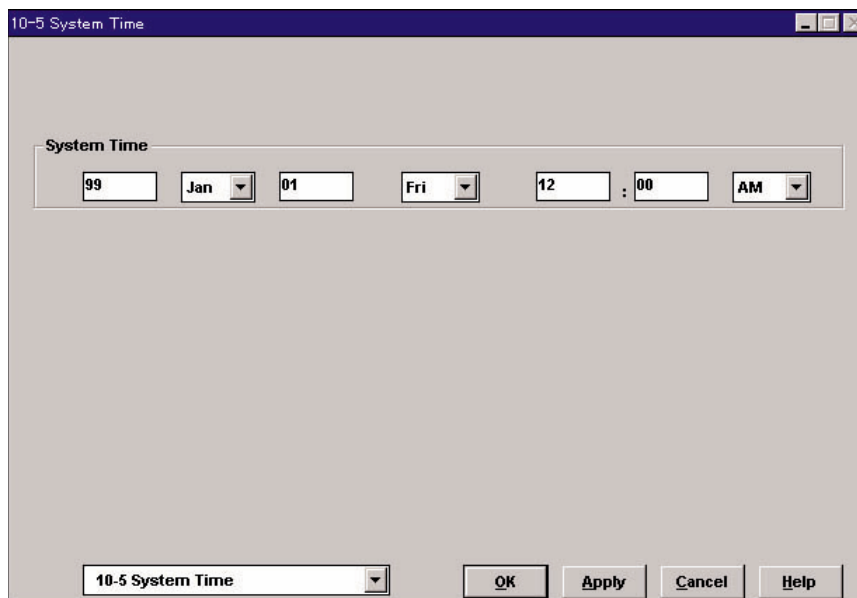
Parameter	**Remote FDN**
Default	Blank
Value Range	Up to 4 digits consisting of 0-9
Description/Function	Specifies the FDN (Floating Directory Number) for Remote Administration.
Reference	• 1.2 System Administration (F/G) – System Programming and Diagnosis with Personal Computer • 3.4.3 Remote Administration (Remote Connection) (I/M)

10.7 System Time

Used to assign System Time.
Please refer to the following:

- 1.8 Ringing Features (F/G)
  - Timed Reminder (Wake-Up Call)
  - Timed Reminder, Remote (Wake-Up Call)
- 1.17 Display Features (F/G)
  - Display, Date and Time
- 4.3.1 Date and Time Set (000) (U/M)

System Time

Parameter	(Year)
Default	99
Value Range	00-99
Description/Function	Specifies the last two digits of the year by entering the value directly.
Reference	None

Parameter	**(Month)**
Default	Jan
Value Range	Jan-Dec
Description/Function	Selects the month by clicking the small triangle.
Reference	None

Parameter	**(Day)**
Default	(0)1
Value Range	(0)1-31
Description/Function	Specifies the date in two digits by entering the value directly.
Reference	None

Parameter	**(Day of the week)**
Default	Fri
Value Range	Sun-Sat
Description/Function	Selects the day of the week by clicking the small triangle.
Reference	None

Parameter	**(Hour)**
Default	12
Value Range	(0)1-12
Description/Function	Specifies the hour in two digits by entering the value directly.
Reference	None

Parameter	**(Minute)**
Default	00
Value Range	00-59
Description/Function	Specifies the minute in two digits by entering the value directly.
Reference	None

Parameter	**(AM / PM)**
Default	AM
Value Range	AM / PM
Description/Function	Selects AM / PM by clicking the small triangle.
Reference	None

Section 11

Programming Error Messages

11.1   Error Messages (EXXXX)

Error Code	Error Message
	Description
E0000	**System error. (Error code : XXX)** A system error occured. Please inform your distributor how the error was generated and what the error code was.
E0001	**Cannot create temporary file.** There is insufficient free space on your hard disk or this software is not installed correctly.
E0002	**Illegal password.** The password entered while making the connection didn't correspond to the one that had already been registered.
E0003	**System error. (ID : XX)** An error code was returned by the Windows System Library. The error code was "XX." Please inform your distributor how the error was generated and what the error code was.
E0004	**The file 'XX' doesn't exist.** Tried to open the data file 'XX' that doesn't exist.
E0005	**Illegal programming version.** Tried to open the data file that was made in the newer software version of PC programming than one being used at present.
E0006	**Communication error.** A communication error occured between your PC and the PBX. Or the port parameters of your PC do not match the port parameters of the PBX.
E0007	**Communication error of the modem. (XX)** "XX" stands for the result code that was received from the modem.
E0008	**Cannot open COM port.** The COM port of your PC is being used by some other application. Or the device cannot be used for some reason.
E0009	**COM port access failed. (ID:XX)** "XX" stands for the error code of the Windows system.
E0010	**Communication timeout.** Cannot detect a response from PBX when connecting PC to PBX directly using an RS-232C Cable.
E0011	**No response from the modem.** Cannot detect a response from the modem because a modem is not connected to PC or the communication port (COM) parameter of PC is not correct.

Error Code	Error Message
	Description
E0012	**Another maintenance device is connected.** There are three ways to access the PBX: (1) By PC System Programming, (2) by Remote System Programming, or (3) by User Programming. But only one at a time.
E0013	**Please reconnect after the PBX becomes on-line or off-line completely.** Tried to connect the PC before the PBX became on-line or off-line completely. Please try after the off-line indicator (on the top shelf) goes off (on-line) or turns on and off (off-line).
E0014	**Please enter profile name.** Attempted to save remote connection parameters without profile name.
E0015	**Failed: Saving of remote connection parameters.** Remote connection parameters are saved as a file ("TD500.INI") in the Windows system directory. The TD500 maintenance programme creates this file automatically if the file does not exist. However, if the file exists and it is damaged, you will get this error message. You must either repair the damage (using a text editor) or rename it as a different file.
E0016	**Failed: Deletion of remote connection parameters.** Deletion of remote connection parameters failed because file "TD500.INI" is damaged. Please refer to the description of E0015.
E0017	**Failed: Reading of remote connection parameters.** Reading of remote connection parameters failed because file "TD500.INI" is damaged. Please refer to the description of E0015.
E0018	**There is not enough space on your hard disk (or floppy) to save the system data.** Download is incomplete because there is not enough space on your hard disk (or floppy) to save the system data.
E1001	**You have exceeded the shelf limit of PT ports.** There is a limit of 128 PT ports per shelf when using DLC and DHLC cards. Please de-assign one card and try again.
E1002	**You have exceeded the system limit of trunk ports.** There is a limit of 192 trunk ports per system when using ELCOT, E1, E&M, BRI and PRI30 cards. Please de-assign one card and try again.
E1003	**You have exceeded the system limit of extension ports.** There is a limit of 448 extension ports per system when using DLC, DHLC, and ESLC cards. Please de-assign one card and try again.
E1004	**You have exceeded the system limit of trunk + extension ports.** There is a limit of 512 trunk + extension ports per system, using trunk and extension cards. Please de-assign one card and try again.
E1005	**You have exceeded the system limit of DISA cards.** There is a limit of 8 DISA cards per system.

Error Code	Error Message
	Description
E1006	**You have exceeded the system limit of AGC cards.** There is a limit of 8 AGC cards per system.
E1007	**You have exceeded the system limit of remote cards.** One ERMT card can be installed in the system -- only one.
E1008	**You have exceeded the system limit of DPH cards.** There is a limit of two DPH cards per system.
E1009	**The slot next to a T1 card must be empty.** Please remove and re-assign the card that is installed next to a T1 card. A T1 card must go into Slot 1, Slot 5 or Slot 9.
E1010	**You must change card type to None, before changing to new card type.** This process to make sure all data for previous card is deleted.
E1011	**The card of clock configuration priority duplicated.** Each card must have a unique priority.
E1012	**The status of the card is not INS (In-Service).** To use this port, you must put the card INS (In-Service). When the card is INS (In-Service) status, all the ports of the card become in service.
E1013	**Cannot change the attribute of the port which is the paired extension of a DSS console.** The attribute of this port cannot be changed until it is de-assigned as the paired extension of a DSS console. Please change the attribute after de-assignment.
E1014	**You have exceeded the system limit of DSS consoles.** There is a limit of 64 consoles per system.
E1015	**Incomplete directory number.** The DN and FDN must be 3 or 4 digits.
E1016	**Invalid directory number.** The entered DN doesn't match the numbering plan in "2-2 Numbering Plan" screen.
E1017	**Directory number already exists.** The entered DN or FDN already exists.
E1018	**Directory number doesn't exist.** The entered DN doesn't exist.
E1019	**Invalid directory number for paired extension of DSS console.** Only the DN of PT can be assigned as the DN for the paired extension of a DSS console.
E1020	**You have exceeded the limit of DSS consoles per PT.** There is a limit of 8 DSS consoles per PT.
E1022	**Assign the directory number before making the port INS (In-Service) status.** An extension without a DN cannot be placed into service.

Error Code	Error Message
	Description
E1023	**Assign the directory numbers for EXT#1 and EXT#2.**
	For the VPS port you must assign directory numbers for both voice mail numbers, EXT#1 and EXT#2. These cannot be assigned individually.
E1024	**Cannot assign the port which does not have VPS (DPT) attribute.**
	To be used as a VPS port, this port must have the VPS (DPT) attribute in "1-3 Extension Port Assignment" screen.
E1025	**Specify the extension group number.**
	The extension group number of VPS port should be always assigned.
E1026	**Port number duplicated.**
	Please assign the port number of TVP uniquely.
E1027	**T1 card should be assigned to the slot no. 1, 5 or 9.**
	T1 card should be assigned to the slot no. 1, 5 or 9 of basic shelf, expansion shelf 1 and expansion shelf 2.
E1028	**Card type should be changed only in OUS (Out-of-Service) status.**
	Please make the card OUS (Out-of-service) status before deleting the card.
E1029	**While copying properties, more than 16 cards cannot be selected.**
	Please break the task into two sets.
E1030	**Cannot change the Port Attribute when currently assigned as VPS port under "1-4 VPS (DPT) Port Assignment."**
	When the port which is assigned to VPS (DPT) port is changed to extension port, please change the port after deleting the assignment in "1-4 VPS (DPT) Port Assignment" screen.
E1031	**Assign the channel type before making the port INS (In-Service) status.**
	The port of E1 card cannot be made INS (In-Service) status when the channel type of the port is not assigned.
E1032	**Cannot change the status of the VPS port which is in auto configuration mode.**
	Please change the status of the VPS port after auto configuration.
E1033	**Proper card for this feature is not installed in the system.**
	In order to use this feature, proper card must be installed in the system. And card must be assigned under Slot Assignment.
E1034	**Both extensions (B1 and B2) of 1st jack connected to VPS must be always assigned.**
	Both extensions (B1 and B2) of 1st jack are used for communication between PBX and VPS.
E1035	**Cannot remove VPS port while the status is INS (In-Service).**
	Please make VPS port OUS (Out-of-Service) status before deleting the port.
E1036	**Assign a port number before changing the port status.**
	The VPS port that does not have a port number cannot have its status changed.

Error Code	Error Message
	Description
E1037	**Cannot change the status of the port.** Cannot change the status of the SLT port because the PT port is activated as a "Parallel Mode" extension. Please change the PT port status to "XDP Mode" and then press "Apply."
E1038	**You have exceeded the shelf limit of extension ports.** There is a limit of 192 extension ports per shelf when using DLC, DHLC and ESLC cards. Please de-assign one card and try again.
E1039	**You have exceeded the shelf limit of SLT ports.** There is a limit of 160 SLT ports per shelf when using DHLC and ESLC cards. Please de-assign one card and try again.
E1050	**The slot next to PRI card must be empty.** Please remove and re-assign the card that is installed next to a PRI card. A PRI card must go into Slot 1, 3, 5, 7, 9, 11 or 13.
E1051	**E1 card should be assigned to the slot 1, 5 or 9.** E1 card should be assigned to the slot 1, 5 or 9 of basic shelf, expansion shelf 1 and expansion shelf 2.
E1052	**The slot next to E1 card must be empty.** Please remove and re-assign the card that is installed next to an E1 card. An E1 card must go into Slot 1, Slot 5, or Slot 9.
E1053	**PRI card must be assigned to an odd numbered slot.** PRI card should be assigned to the odd numbered slot of basic shelf, expansion shelf 1 and expansion shelf 2.
E1054	**The status of the card must be "OUS (Out-of-Service)."** When you change the card properties of E1, PRI30 or BRI card, the status must be OUS (Out-of-Service)."
E2001	**Invalid time format.** Please specify the time as Hour:[0]1-12, Minute:[0]0-59.
E2003	**Invalid division of DAY and NIGHT mode.** Time to specify with Day 1, Night 1, Day 2 and Night 2 must be the relations of Day 1 < Night 1 < Day 2 < Night 2.
E2005	**Maximum entry number of System Speed Dialling exceeded.** The system provides up to 1000 / tenant, 2000 / system of System Speed Dialling entries available to all extension users.
E2006	**Cannot change System Speed Dialling Entries Maximum.** Please delete System Speed Dialling entries until there is less than the setting you want. Then set System Speed Dialling Entries Maximum once again.
E2007	**Invalid directory number for manager extension.** Only DN of an extension can be assigned as a manager extension. (FDN cannot be assigned.)

Error Code	Error Message
	Description
E2008	**Feature number is too long.** Feature numbers "Hundred Block Extension" or "Other PBX" can be set as the leading 1 or 2 digits of the extension number.
E2009	**Cannot delete the Hundred Block Extension, which is currently in use as DN or FDN.** Cannot delete the hundred block number. It's already used as DN or FDN. Please delete the hundred block number after you remove the registrations of DN or FDN.
E2010	**Feature number duplicated.** Feature numbers can be from 1 to 4 digits and shouldn't be any conflicts. The following are examples of feature number conflicts. Examples: N and NX, NXX / NM and NML (NL is allowed.)
E2011	**Out of range.** Overflow Timer should be assigned in the range of Second: 5-180. "None" shows that Overflow Timer doesn't work.
E2012	**Trunk group number duplicated.** Each trunk group in the Local Hunt Sequence must have a unique number.
E3001	**Invalid directory number for intercept destination.** There are five possible destinations for intercepted calls: (1) An extension, (2) an external pager (TAFAS),(3) an OGM group, (4) an extension group, or (5) a phantom extension.
E3002	**Invalid directory number for overflow destination.** Only DN of an extension or FDN of an extension group can be assigned as an overflow destination. However, the type of DN / FDN assignable depends on "Group Type."
E3003	**Invalid directory number for UCD supervisor extension.** Only DN of an extension can be assigned as UCD supervisor extension.
E3004	**Extension group number duplicated.** Each extension group in the same paging group must have a unique number.
E3005	**The extension group already belongs to another paging group.** An extension group cannot belong to two or more paging groups.
E3006	**Invalid directory number for DIL1:N destination.** Only DN of an extension or FDN of an extension group can be assigned as a DIL 1:N destination.
E3008	**Invalid directory number for DISA built-in Automated Attendant Tables.** Both DN of extensions and FDN of extension groups or phantom extensions or TAFAS can be assigned as DISA built-in Automated Attendant Tables.
E3009	**DIL 1:N destination duplicated.** The directory number (of the extension or extension group) must be unique as a destination of DIL 1:N.

Error Code	Error Message
	Description
E3010	**Invalid Mailbox Number.** Only DN of an extension or FDN of an extension group can be assigned as a DIL 1:N Mailbox Number.
E4003	**Invalid LCS playback password.** The LCS playback password must be 3 digits (0~9).
E4004	**Invalid Call Log lock password.** The Call Log lock password must be 3 digits (0~9).
E4005	**Invalid Station Lock password.** The Station Lock password must be 3 digits (0~9).
E4006	**Specify trunk line no.** Trunk line no. must be specified when Single-CO key is assigned.
E4007	**Single - CO key duplicated.** Please assign the Single - CO key that has the different CO physical number on one PT.
E4008	**Invalid directory number for DSS (DN) key.** Only DN of an extension can be assigned as DSS (DN) key.
E4009	**DSS (DN) key duplicated.** Two DSS keys cannot have the same extension number.
E4010	**Invalid directory number for PHANTOM key.** Only FDN of phantom extension can be assigned to phantom key number.
E4011	**Cannot assign PDN key without assigning PDN key on CO-01.** The first PDN key should be assigned on CO-01.
E4012	**Cannot change PDN key on CO-01 while other PDN or SDN keys exist.** Please change PDN key on CO-01 to another key type after deleting all PDN and SDN assignments.
E4013	**Cannot assign SDN key without assigning PDN key.** An SDN button should have its associated PDN button.
E4014	**Cannot assign more than 8 SDN keys for one PDN key.** Up to eight SDN keys per PDN key can be assigned on eight different PTs respectively.
E4015	**Invalid directory number for SDN key.** Only DN of an extension can be assigned to SDN key number.
E4016	**SDN key duplicated.** Two SDN keys cannot have the same extension number.
E4017	**Cannot assign SDN key to its own directory number.** Please assign SDN to a directory number other than its own.

Error Code	Error Message
	Description
E4018	**Dial registration resource exhausted.** Cannot register any more because the system resource that stores extension mailbox numbers (voice mail access codes) and One-Touch Dialling numbers has been exhausted.
E4020	**Invalid directory number for doorphone call destination.** Only DN of an extension can be assigned as a doorphone call destination.
E4021	**Secret dial 'S' must be placed at the beginning and end of desired secret numbers.** Cannot assign Secret Dialling "S" that is registered in One-Touch dialling without being even number.
E4022	**Cannot assign PDN key as Prime Line - CO.** Please assign key number except for PDN key when the outgoing or incoming preferred line is set to "Prime Line - CO."
E4023	**Illegal trunk group number.** Please assign the trunk group number (1~48) on Group - CO key.
E4024	**DN or FDN must be entered to assign the type of key.** You must enter the DN or FDN when you assign key type "DSS," "Phantom," "SDN," "VTR," "2WAY-REC" and "2WAY-TRN." Each key needs following directory number as DN or FDN: - DSS Extension directory number which is in existence. - Phantom Floating directory number which is registered in "5-2 Phantom Extension" screen. - SDN Primary directory number (PDN) of the DN mode extension. - VTR, 2WAY-REC / TRN Extension directory number which is assigned as VPS.
E4025	**PHANTOM key duplicated.** Two phantom keys cannot have the same phantom FDN.
E4026	**Please enter CO key number assigned to S-CO, G-CO, L-CO or SDN key.** The CO key number which is assigned to Single-CO, Group-CO, Loop-CO or SDN key should be entered when "Prime Line - CO" is specified in "Preferred Line - Outgoing / Incoming" programming.
E4027	**Doorphone destination duplicated.** Doorphone destinations (extensions) must be unique for Day mode settings and Night mode settings. However, an extension used for Day can be used for Night.
E4028	**Converted digits exceed the limit.** Total number of converted digits should be less than 7 digits. Please change 'Digits to delete,' and / or 'Number to be added.'
E5001	**Assign both 'name' and 'number' for Caller ID.** Cannot assign just the name for Caller ID.

Error Code	Error Message
	Description
E5002	**Cannot use more than seven % characters.** There can be a maximum of seven % characters in an absent message.
E5003	**User code format error.** Please assign the DISA / TIE user code of 4~10 digits consisting of 0~9.
E5004	**User code duplicated.** Each code in the DISA / TIE User Code must have a unique number.
E5005	**Cannot set 'RET' command at the head.** Please set the command except for "RET" at the head of UCD Time Table.
E5006	**Cannot assign more than 1000 account codes.** There is a limit of 1000 account codes per system.
E5007	**You have exceeded the tenant limit of Speed Dialling numbers.** The maximum number of Speeding Dialling numbers per tenant is specified in the "2-1 Tenant" screen.
E5008	**You have exceeded the limit of Caller ID codes.** There is a limit of 1000 Caller ID codes per tenant and 2000 Caller ID codes per system.
E5009	**Invalid User code.** If the entire code, for ex. (1234), is included in another code, for ex. (12345), it is not valid.
E5010	**Specify the code.** The account code also must be entered when the TRS Level is assigned and the TRS Level also must be deleted when the account code is deleted.
E5011	**Specify the leading digits.** The ARS leading dial also must be entered when the Route Plan Table No. is assigned and the Route Plan Table No. also must be deleted when the leading dial is deleted.
E5020	**Charge Verification ID Code format error.** Please assign the Charge Verification ID code of 4 digits consisting of 0-9.
E5021	**Don't keep Rate to be Blank.** The value of "Rate" must be always assigned.
E6001	**Too long TRS Deny or Exception dial.** TRS Deny or Exception dial can be registered up to 10 digits consisting of 0~9, $*$, # or X (a wild card).
E6002	**Cannot assign more than 400 TRS deny codes.** There is a limit of 400 toll restriction deny codes per system.
E6003	**Cannot assign more than 200 TRS exception codes.** There is a limit of 200 toll restriction exception codes per system.

Error Code	Error Message
	Description
E7001	**Invalid arrangement of time zones.** Each successive ARS time zone must be later in time. Namely, this pattern must be followed: Time-A < Time-B < Time-C < Time-D.
E7002	**Assign both trunk group number and modification table number.** Cannot assign just trunk group number or just modification table number. Both must be assigned as a pair under ARS routing plan.
E9001	**Invalid directory number for DDI / DID destination.** There are five possible destinations for DDI / DID calls: (1) An extension, (2) an external pager (TAFAS), (3) a remote extension, (4) an extension group, or (5) a phantom extension.
E9002	**Page length must be 4 lines more than Skip Perforation.** The difference of Page length and Skip Perforation must be more than 4 lines.
E9003	**Trunk or extension card duplicated.** Under Power Failure Transfer, a trunk card or an extension card can be specified only once.
E9004	**Assign both trunk card and extension card.** Cannot assign just trunk card or just extension card. Both must be assigned as a pair under Power Failure Transfer.
E9005	**Time or date format error.** The invalid value of time or date is entered.
E9006	**Invalid System Programming password.** Please assign the 4 through 7-digit System Programming password of alphanumeric characters.
E9007	**Invalid User Programming password.** Please assign the 4 through 7-digit User Programming password consisting of 0~9.
E9008	**Invalid Walking COS password.** Please assign the 4 through 7-digit Walking COS password consisting of 0~9.
E9009	**DDI / DID number duplicated.** Each DDI / DID number in "Number Transformation" screen must have a unique number.

11.2 Warning Messages (WXXXX)

Code	Message
	Description
W0001	**Save system data?** Some parameters on the screen were changed. A click on "OK" or a screen switch was attempted without saving data.
W0002	**The status of the port is In-Service (INS). Would you like to continue?** When the status of a port is In-Service (INS), and you change some parameters (screens of "1 Configuration"), the port is reset. A call in progress will be dropped.
W0003	**Save system data before Copy?** Modified parameters without saving are not effective for Copy feature.
W0005	**Save data file?** Tried to close, exit or open another file without saving data in the Batch mode (although parameters were changed).
W1001	**Change the card (XXX:YYY) status?** Please confirm whether or not to execute OUS (Out-of-Service) / INS (In-Service) command to the card "XXX:YYY" (XXX: Slot number, YYY: Card Type). The OUS (Out-of-Service) / INS (In-Service) command to the card is effective to the whole ports of the card.
W1002	**Change the status of port (XXXXX)?** Please confirm whether or not to execute OUS(Out-of-Service) / INS(In-Service) command to the port "XXXXX" (XXXXX: port physical number).
W2001	**Would you like to upload a language data ?** Specifies whether or not you upload the language data after uploading the system data in off-line mode. If you click "OK," the "Language Data Selection" dialogue box is displayed and then uploading of the "Language Data" file can be executed.
W3001	**PBX code must not exceed 4 digits. Truncate it?** Truncate means that the leading 4 digits are saved and the rest are deleted.
W3002	**Please verify that previously erased FDN is not programmed in other screens.** The erased FDN may be used in other screens.
W4001	**Trunk name must not exceed 10 characters. Truncate it?** Truncate means that the leading 10 characters are saved and the rest are deleted.
W4002	**Extension name must not exceed 10 characters. Truncate it?** Truncate means that the leading 10 characters are saved and the rest are deleted.
W4003	**One-Touch dial number must not exceed 24 digits. Truncate it?** Truncate means that the leading 24 digits are saved and the rest are deleted.
W4004	**CLIP / COLP number must not exceed 16 digits. Truncate it ?** Truncate means that the leading 16 digits are saved and the rest are deleted.

Code	Message
	Description
W4005	**One-Touch dial name must not exceed 10 characters. Truncate it?** Truncate means that the leading 10 characters are saved and the rest are deleted.
W4006	**DDI / DID / TIE additional dial must not exceed 8 digits. Truncate it?** Truncate means that the leading 8 digits are saved and the rest are deleted.
W4007	**Mailbox number must not exceed 16 digits. Truncate it?** Truncate means that the leading 16 digits are saved and the rest are deleted. A digit can be 0 through 9, *, #, or P (pause).
W5001	**System Speed Dialling name must not exceed 10 characters. Truncate it?** Truncate means that the leading 10 characters are saved and the rest are deleted.
W5002	**System Speed Dialling number must not exceed 24 digits. Truncate it?** Truncate means that the leading 24 digits are saved and the rest are deleted.
W5003	**Emergency dial number must not exceed 8 digits. Truncate it?** Truncate means that the leading 8 digits are saved and the rest are deleted.
W5004	**Quick Dial number must not exceed 16 digits. Truncate it?** Truncate means that the leading 16 digits are saved and the rest are deleted.
W5005	**Account Code must not exceed 10 digits. Truncate it?** Truncate means that the leading 10 digits are saved and the rest are deleted.
W5006	**Special Carrier Code must not exceed 10 digits. Truncate it?** Truncate means that the leading 10 digits are saved and the rest are deleted.
W5007	**Waiting Second dial must not exceed 4 digits. Truncate it ?** Truncate means that the leading 4 digits are saved and the rest are deleted.
W5008	**Absent message must not exceed 16 characters. Truncate it?** Truncate means that the leading 16 characters are saved and the rest are deleted.
W5009	**VPS integration code must not exceed 3 digits. Truncate it?** Truncate means that the leading 3 digits are saved and the rest are deleted.
W5010	**Voice Mail command must not exceed 16 digits. Truncate it?** Truncate means that the leading 16 digits are saved and the rest are deleted.
W5011	**Local Area Code must not exceed 6 digits. Truncate it?** Truncate means that the leading 6 digits are saved and the rest are deleted.
W5012	**Additional dial must not exceed 4 digits. Truncate it?** Truncate means that the leading 4 digits are saved and the rest are deleted.
W5013	**Caller ID name must not exceed 16 characters. Truncate it?** Truncate means that the leading 16 characters are saved and the rest are deleted.
W5014	**Caller ID number must not exceed 24 digits. Truncate it?** Truncate means that the leading 24 digits are saved and the rest are deleted.
W5020	**Rate must not exceed 8 digits. Truncate it?** Truncate means that the leading 8 digits are saved and the rest are deleted.

Code	Message
	Description
W5021	**Currency must not exceed 2 characters. Truncate it?** Truncate means that the leading 2 characters are saved and the rest are deleted.
W7001	**ARS Leading dial must not exceed 10 digits. Truncate it?** Truncate means that the leading 10 digits are saved and the rest are deleted.
W7002	**ARS additional dial must not exceed 20 digits. Truncate it?** Truncate means that the leading 20 digits are saved and the rest are deleted.
W8001	**PBX code must not exceed 3 digits. Truncate it?** Truncate means that the leading 3 digits are saved and the rest are deleted.
W8002	**TIE Leading dial must not exceed 3 digits. Truncate it?** Truncate means that the leading 3 digits are saved and the rest are deleted.
W8003	**TIE additional dial must not exceed 20 digits. Truncate it?** Truncate means that the leading 20 digits are saved and the rest are deleted.
W9001	**DDI / DID dial must not exceed 16 digits. Truncate it?** Truncate means that the leading 16 digits are saved and the rest are deleted.
W9002	**DDI / DID name must not exceed 10 characters. Truncate it?** Truncate means that the leading 10 characters are saved and the rest are deleted.
W9003	**Modem command must not exceed 80 characters. Truncate it?** Truncate means that the leading 80 characters are saved and the rest are deleted.
W9004	**Modem messages must not exceed 80 characters. Truncate it?** Truncate means that the leading 80 characters are saved and the rest are deleted.

11.3 Information Message (IXXXX)

Code	Message
	Description
I0001	**Upload completed. Please change PBX to on-line mode.** Uploading the system programming data from PC to PBX is completed. How to change PBX to on-line mode: 1. Set CPU Mode Rotary Switch position to 0. 2. Then, press Reset button.
I1000	**Please set up VPS port in '1-4 VPS (DPT) Port Assignment' screen.** The attribute(s) of extension(s) have been set up as VPS (DPT). Please set up the port(s) in '1-4 VPS (DPT) Port Assignment' screen.

Section 12
Default Values

1   Configuration

1.1   Configuration

1.2   Slot Assignment

Program	Default
Card Type	Blank
Status	—

1.3   Trunk Port Assignment

Program	Default
Card No.	(Display only)
Group No.	DID card: 47, E&M card: 48, Others : 1
Status	—

1.4   Extension Port Assignment

Program	Default
Card No.	(Display only)
Attribute	TEL
Tel. Type	(Display only)
DN	Blank
Group No.	1
Parallel / XDP (DHLC card)	Parallel
Parallel / XDP (HLC card)	None
Status	—

1.5   VPS (DPT) Port Assignment

Program	Default
TVP No.	1
VPS card	None
Type	None
Jack No.	(Display only)

Program	Default
Port No.	Blank
[Ext No.1] DN	Blank
[Ext No.1] Group No.	Blank
[Ext No.2] DN	Blank
[Ext No.2] Group No.	Blank
Status	—

1.6 T1 Port Assignment

Program	Default
Card No.	(Display only)
Channel Type	Undefined
DN	Blank
Group No.	Blank
Status	—

1.7 E1 Port Assignment

Program	Default
Card No.	(Display only)
Channel Type	Undefined
Group No.	Blank
Receiver Type	Undefined
Status	—

1.8 DISA Port Assignment

Program	Default
Location	(Display only)
OGM Group No.	1

1.9 BRI Port Assignment

Program	Default
Card No.	(Display Only)
Type	CO
DN	Blank
Group No.	1
Tone	Disable
Status	—

1.10 PRI Port Assignment

Program	Default
Card No.	(Display Only)
Type	CO
DN	Blank
Tone	Disable
Group No.	1
Status	—

2 System

2.1 System

2.2 Tenant

Program	Default
Tenant No.	1
DAY / NIGHT Switching Mode	Manual
Inter-tenant Calling (1 - 8)	No check
(Auto Start Time)	
Day 1 (SUN-SAT)	9:00 AM
Night 1 (SUN-SAT)	5:00 PM
Day 2 (SUN-SAT)	Disable
Night 2 (SUN-SAT)	Disable

Program	Default
Music on Hold Source	MUS1
BGM Source	MUS1
Automatic Route Selection	No check
System Speed Dial TRS Level Override	No check
System Speed Dialing Entries Max.	Tenant 1:1000, Tenant 2:1000, Tenant 3-8:0
Manager Extension DN	Blank
External Paging Tone	Check
Confirmation Tone for Station or External Paging	Check

2.3 Numbering Plan

Program	Default
1 1st Hundred Block Extension	10
2 2nd Hundred Block Extension	11
3 3rd Hundred Block Extension	12
4 4th Hundred Block Extension	13
5 5th Hundred Block Extension	14
6 6th Hundred Block Extension	20
7 7th Hundred Block Extension	21
8 8th Hundred Block Extension	22
9 9th Hundred Block Extension	23
10 10th Hundred Block Extension	24
11-16 11th Hundred Block Extension - 16th Hundred Block Extension	Blank
17 Operator Call	0 (BX), 9 (SA)
18 Local CO Line Access / ARS	9 (BX), 0 (SA)
19 Trunk Group Access	8
20 Speed Dialing - System	*
21 Speed Dialing - Station	3*
22 Speed Dialing - Station Programming	30
23 Doorphone Call	31
24 External Paging	32

Program	Default
25 External Paging Answer / TAFAS Answer	42
26 Station Paging	33
27 Station Paging Answer	43
28 CO Call Pickup	4*
29 Group Call Pickup	40
30 Directed Call Pickup	41
31 Hold	50
32 Hold Retrieve - Station	51
33 Hold Retrieve - Trunk	53
34 Redial	#
35 Call Park / Call Park Retrieve	52
36 Account Code	49
37 Door Open	55
38 External Feature Access	6
39 Station Program Clear	790
40 Message Waiting Set / Cancel / Call Back	70
41 OGM Playback / Record	36
42 Call FWD - Do Not Disturb Set / Cancel	710
43 Dial Call Pickup Deny Set / Cancel	720
44 Data Line Security Set / Cancel	730
45 Call Waiting Set / Cancel	731
46 Executive Override Deny Set / Cancel	733
47 Pickup Dialing Program / Set / Cancel	74
48 Absent Message Set / Cancel	750
49 Timed Reminder Confirm / Set / Cancel	761
50 Station Lock Set / Cancel	762
51 Night Mode Set / Cancel	78
52 Parallel Telephone Mode	39
53 External BGM On / Off	35
54 Live Call Screening	799
55 Call Log Incoming, Overwrite Mode	56

Program	Default
56 Call Log Incoming, Log Lock	57
57 Timed Reminder, Remote	7*
58 Login / Logout	45
59 Automatic Callback Busy Cancel	46
60 Walking COS	47
61 MODEM Control	791
62 Reserved (Reserved for future use.)	Blank
63-70 Quick dial 1 - Quick dial 8	Blank
71 Reserved (Reserved for future use.)	Blank
72 Remote DND	722
73 Remote FWD Cancel-Once	723
74 Trunk Route Control	724
75 UCD Monitor Mode	725
76 TIE Line Access	77
77-92 Other PBX 01 - Other PBX 16	Blank
93 Paging Deny Set / Cancel	721
94 Trunk Busy-out	726
95 Walking Station	727
96 CLIP / COLP	711
97 CLIR	59
98 COLR	58
99 Dial Information (CTI)	Blank
100 Reserved (Reserved for future use.)	Blank

2.4 Class of Service (COS)

Program	Default
COS No.	1
Trunk Group Setting	Please refer to "2.4.1 Trunk Group Setting" in this manual.
TRS Level – Day / Night	1
Time Limit of Outside Calls	No

Program	Default
Transfer to CO	Disable
Call FWD to CO	Disable
Call FWD Follow me	Enable
Busy Override	Disable
Busy Override Deny	Enable
DND Override	Disable
Digits Restriction in CO Talk Mode	Unrestricted
Call from TRS Level 7 Extension	Enable
Switching Day / Night Mode	Disable
Account Code Mode	Optional
SDN COS	Own Extension
Off-Hook Call Announcement (OHCA)	Enable
Released Link Operation	Disable
Automatic Hold	Disable
Charge Management	Disable
ISDN CFU / CFB / CFNR	Disable

2.4.1   Trunk Group Setting

Program	Default
Trunk Group No. 01-48 – Day / Night	All: Check

2.5   System Timer

2.5.1   System Timer 1 / 2

Program	Default
Hold Recall Time	60 s
Transfer Recall Time	12 rings
Pickup Dial Waiting Time	1 s
Call Duration Count Start Time	0 s
First Digit Time	10 s
Inter-digit Time	5 s

Program	Default
Intercept Time	12 rings
Call Forwarding- No Answer Time	3 rings
Extension-to-CO Line Call Duration Time	10 min
CO-to-CO Line Call Duration Time	10 min
Automatic Redial Interval Time	60 s
Automatic Redial Repeat Times	4 times (BX), 10 times (SA)
Door Opener Time	5 s

2.5.2 System Timer 2 / 2

Program	Default
Timed Reminder Ringing Time	30 s
Call Parking Recall Time	60 s
TIE Inter-digit Time	5 s
DISA Prolong Time	3 min
DISA Delayed Answer Time	1 ring
DISA Automated Attendant Time	1 s
DISA IRNA Time	60 s
Intercept Timer after OGM	5 s

2.6 Local Hunt Sequence

Program	Default
Trunk Group No.	01: 1, Others: None

2.7 Trunk to Trunk Restriction

Program	Default
Source Trunk Group No.	1
Destination Trunk Group No. (1-48)	No check

2.8 System Option

2.8.1 System Option 1 / 4

Program	Default
1. Sound source during transfer	Music on Hold
2. SLT On-hook with consulting held call	Consulting Hold
3. FLASH button operation while CO talking	Release the trunk
4. FLASH button operation when "Don't release the trunk" is selected at #3	Disconnect and hear CO dial tone
5. Limited call duration	Both calls
6. Transfer recall destination	Originating extension
7. Checking dial *, # by toll restriction	Check
8. Confirmation tone for Override, Barge-in, Conference and Privacy Release	Enable
9. Confirmation tone for Call Pickup, Paging-Answer, TAFAS-Answer, Hold Retrieve and Call Park Retrieve	Enable
10. Station Speed Dialing Initial display	Name

2.8.2 System Option 2 / 4

Program	Default
11. Sending pulse signal during CO call	Enable
12. Automatic adjustment of the clock using Caller ID information	No
13. DISA prolong operation	No limits
14. Dialing "*" in DISA CO-to-CO talking	Disconnect and make a new call
15. Special dial tone after setting feature	Enable
16. Duration starting mode	Answer or Time-out
17. Destination Busy - DISA	Send busy tone
18. Destination Busy - DDI / DID	Send busy tone
19. Destination Busy - TIE	Send busy tone
20. Off-hook Monitor	Enable

2.8.3 System Option 3 / 4

Program	Default
21. Illegal Number - DISA	Send reorder tone
22. Illegal Number - DDI / DID	Send reorder tone
23. Illegal Number - TIE	Send reorder tone
24. Sending dial tone to TIE trunk	Disable
25. Pressing DSS key operation in CO talking	Hold
26. Pressing CO key operation in CO talking	Hold
27. Message Waiting lamp pattern	#11
28. Trunk hunting mode	Forced
29. Card CODEC	-law
30. Net CODEC	A-law (BX,SA)

2.8.4 System Option 4 / 4

Program	Default
31. Answering Call Waiting call by SLT hooking	Disable
32. Whisper OHCA to extensions other than T74 / 75XX	Disable
33. FWD / DND lamp pattern	FWD: Flash, DND: On
34. ELCOT / LCOT Busy-out Loop Relay	OFF
35. GCOT Busy-out Loop Relay	OFF-RING-OPEN
36. Tone Mode	Type-1 (BX), Type-3 (SA)
37. Ring Mode	Type-1 (BX), Type-3 (SA)
38. First Digit Time-out Process	Don't release the trunk
39. Extension CPC Signal	None
40. TSW Tone Selection	TONE-C (BX), TONE-A (SA)
41. Fixed Feature Number	Type-1 (BX), Type-2 (SA)
42. DPT Ringer OFF	Enable
43. LCD Time Display Mode	12h
45. Flash Signal before CO Disconnect	Disable
46. Date Display	M / D / Y
47. Tone Type for Outgoing Calls	Busy + Reorder

Program	Default
48. Call Pickup with DSS S-CO key	Disable
49. LCD Display Mode while CO talking	Caller ID

2.9 Language Data

3 Group

3.1 Group

3.2 Trunk Group

3.2.1 Trunk Group - Copy

Program	Default
Group No.	1
Type	Public
Tenant No.	1
Intercept Destination – Day / Night	Blank
Line Hunting Order	Normal
Disconnecting Time	1.5 s
Pause Time	1.5 s
Pause Time before Flash Siganl	512 ms
Flash Time	600 ms (BX), 80 ms (SA)
Max. Dial No. after EFA Signal	0
PBX Access Code	Blank
PBX Dial Tone	Disable
PBX Ringback Tone	Disable
Cyclic Signal Detection	Check
Continuous Signal Detection	Check
Silence Detection	Check
[Numbering Plan ID] Outgoing—Public	Default
[Numbering Plan ID] Outgoing—Private	Default
[Numbering Plan ID] Incoming—Public	Default
[Numbering Plan ID] Incoming—Private	Default

Program	Default
[Type of Number] Outgoing—Public	Default
[Type of Number] Outgoing—Private	Default
[Type of Number] Incoming—Public	Default
[Type of Number] Incoming—Private	Default

3.3   Extension Group

3.3.1   Extension Group - Copy

Program	Default
Group No.	1
FDN	Blank
Group Type	Group No.126: VM, Group No.127: AA, Group No.128: Operator, Others: None
Tenant No.	1
[Overflow Setting] Destination – Day / Night	Blank
[Overflow Setting] Timer	None
FWD / DND Mode	Enable
Extension Call Hunting	Enable
[Operator Setting] Ringing Type	Single
[Operator Setting] Call Priority	CO Call: 1, Intercept Routing: 2, Recall: 3, Extension Call: 4
[UCD Setting] Time Table No.	None
[UCD Setting] FWD No Answer	Disable
[UCD Setting] Auto LOGOUT Mode	Disable
[UCD Setting] Supervisor Extension	Blank
[UCD Setting] LOGIN Monitor	Disable
[UCD Setting] UCD Call Waiting	Enable

3.4   Paging Group

Program	Default
Paging Group No.	1

Program	Default
Extension Group No.	Paging Group No.1 only (No.1: 1, No.2: 128, Others: None)

3.5 DIL 1:N Group

Program	Default
Group No.	1
FDN	Blank
Mailbox No.	Blank
[Destinations] DN	Blank
[Destinations] Ringing Type	Immediate

3.6 OGM Group

Program	Default
Group No.	1
FDN	Blank
Tenant No.	1
OGM Type	DISA
Security Mode	Trunk
DISA built-in Automated Attendant Tables	Blank

4 Line

4.1 Line

4.2 Trunk Line

4.2.1 Trunk Line - Copy

Program	Default
Card No.	(Display only)
Port No.	(Display only)
Group No.	(Display only)
Name	CO001-CO192

Program	Default
Incoming Type	(1)DIL: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card (2)DID: DID / DID-2W / DID-MFC / E1 [DR2] / E1 [E&M-C (MFC-R2)] / E1 [E&M-P (MFC-R2)] / T1 [DID] card (3)DDI: BRI / PRI30 card (4)TIE: E1 [E&M-C (Pulse, DTMF)] / E1 [E&M-P (Pulse, DTMF)] / E&M / T1 [TIE] card
Dial Type	DTMF-80 (BX), Pulse (SA)
Destination – Day / Night	1001
Subscriber	Blank
[CPC Signal] OUT Detection	Enable: DID-2W / DID-MFC / E1 [DR2] card, Disable: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card
[CPC Signal] OUT Detection - Detection Time (Type A)	None
[CPC Signal] OUT Detection - Detection Time (Type B)	160 ms
[CPC Signal] IN Detection	Enable: DID-2W / DID-MFC / E1 [DR2] card, Disable: ELCOT / GCOT / LCOT / PCOT / RCOT / T1 [GCO] / T1 [LCO] card
[CPC Signal] IN Detection - Detection Time (Type A)	None
[CPC Signal] IN Detection - Detection Time (Type B)	160 ms
Start Signal Type	Wink
Wink Signal Time-out	1024 ms
Reverse Signal Detection	Disable
Digits to receive DDI / DID	4
[TIE Line] Type	4 wires
[TIE Line] Sensitivity - IN	-3 dB
[TIE Line] Sensitivity - OUT	-3 dB
[TIE Line] Sending TIE Caller ID	No
[TIE Line] TIE-to-CO Security Mode	No
[DDI / DID / TIE] Digits to delete	0
[DDI / DID / TIE] Number to be added	Blank
Answer Wait Timer	None
Collect Call	Enable

4.3 Extension Line

4.3.1 Extension Line - Copy

Program	Default
Card No.	(Display only)
Port No.	1
Group No.	(Display only)
DN	(Display only)
Name	Blank
COS No. – Primary	1
Mailbox No.	Same as the extension number
CO Key	CO-01: Loop-CO, Others: Not Stored
PF Key	Not Stored
Initial Display Selection	Caller ID
Message Lamp	No
[Preferred Line] Outgoing	Prime Line - ICM/PDN
[Preferred Line] Outgoing - Key No.	Blank
[Preferred Line] Incoming	Ringing Line
[Preferred Line] Incoming - Key No.	Blank
[LCS Setting] Status	Inactive
[LCS Setting] Operation Mode	Hands-free
[LCS Setting] Recording Mode	Stop Rec
[LCS Setting] LCS Password	Blank
[Call Log Incoming] Overwrite Mode	Yes
[Call Log Incoming] Lock Password	Blank
[Pickup Dialing] Mode	Disable
[Pickup Dialing] Dial	(Display only)
Data Line Mode	No
Call Waiting Tone Type	Tone 1
Call Pickup Deny	Disable
Language	English
Station Lock Password	Blank
[CLIP / COLP Number] Public	Blank

Program	Default
[CLIP / COLP Number] Private	Blank
Charge Limit	0
JOG Dial Speed	Normal
ISDN Bearer Mode	Automatic

4.3.2   Flexible CO Key Assignment

Program	Default
Key Type	CO-01: Loop-CO, Others: Not Stored

4.3.3   Flexible PF Key Assignment for PT

Program	Default
Key Type	Not Stored

4.4   DSS Console

4.4.1   DSS Console - Copy

Program	Default
Paired Extension	(Display only)
[DSS Console 1-8] Port No.	(Display only)
[DSS Console 1-8] Model	T7440
DSS Key	Not Stored
PF Key	Not Stored

4.4.2   Flexible DSS Key Assignment

Program	Default
Key Type	Not Stored

4.4.3 Flexible PF Key Assignment for DSS Console

Program	Default
Key Type	Not Stored

4.5 Doorphone

Program	Default
Card No.	(Display only)
Port No.	1
Tenant No.	1
Destination – Day / Night	Blank

4.6 External Paging

Program	Default
Pager No.	(Display only)
Tenant No.	1
FDN	Blank
BGM	No check
BGM Source	MUS1

5 Features

5.1 Features

5.2 System Speed Dialling

Program	Default
Tenant No.	1
Entry No.	000-019
Max. Entry	(Display only)
Current Registration	(Display only)
Name	Blank
Number	Blank

5.3 Phantom Extension

Program	Default
Entry No.	001-048
FDN	Blank

5.4 Emergency Dial Code

Program	Default
Dial	All: Blank

5.5 Quick Dialling

Program	Default
Dial	All: Blank

5.6 Account Code

Program	Default
Tenant No.	1
Entry No.	0001-0020
Code	Blank
TRS Level	None

5.7 Special Carrier Code

Program	Default
Code	Blank

5.8 Waiting Second Dial Tone Code

Program	Default
Entry No.	001-020
Mode	Disable
[Waiting Second Dial Tone Code] Dial	All: Blank

Program	Default
[Waiting Second Dial Tone Code] Pause	None

5.9   Absent Message

Program	Default
Message	MSG1: Will Return Soon, MSG2: Gone Home, MSG3: At Ext %%%% (Extension No.), MSG4: Back at %% : %% (Hour: Minute), MSG5: Out Until %% / %% (Month / Day), MSG6: In a Meeting, MSG7-9: Blank

5.10   DISA / TIE User Code

Program	Default
Code	All: Blank
COS	All: 96

5.11   VPS Integration

5.11.1   VPS Integration 1 / 2

Program	Default
Integration Code	
Ringback Tone	1
Busy Tone	2
Reorder Tone	3
DND Tone	4
Extension Answer	5
Extension Disconnection	#9
Confirmation Tone	9
FWD to VM Ringback Tone	6
FWD to VM Busy Tone	7
FWD to Extension Ringback Tone	8
Voice Mail Command	
Leave Message	H

Program	Default
Get Message	*H
AA Service	#8
VM Service	#6

5.11.2 VPS Integration 2 / 2

Program	Default
DTMF signal duration	80 ms
Pause timing before sending DTMF signal (Follow on ID)	1.5 s
Pause timing before sending DTMF signal (RBT, BT)	1.5 s
Turn off control of Message Waiting lamp	System
Start AA service after FWD, IRNA of CO call	Do not start
Extension's mailbox number	Programmed number
Call from AA port to AA port	Allow
Sending out Follow on ID after FWD	Enable
Sending out Follow on ID after IRNA	Disable

5.12 Caller ID Modification

Program	Default
[Local Call] Area Code	Blank
[Local Call] Digits to delete	1: 3, Others: 0
[Local Call] Number to be added	Blank
[Long Distance Call] Digits to delete	0
[Long Distance Call] Number to be added	1

5.13 Caller ID Registration

Program	Default
Tenant No.	1
Entry No.	0001-0010

Program	Default
Name	Blank
Number	Blank

5.14   UCD Time Table

Program	Default
Table No.	1
Command Sequence (1-16)	Command No.1 of all tables: 1T, Others: None

5.15   Charge

Program	Default
Charge Display on LCD	Meter
Charge by SMDR	Meter
[Charge Verification ID Code] Tenant 1-8	1234
Rate	1
Currency	$
Currency Display Position	Tail
Treatment of Charge Limit	Alarm Tone
Meter Count up by Answer Detection	Disable

6   Toll Restriction

6.1   Toll Restriction

6.2   TRS Deny Code

Program	Default
TRS Level	6
Entry No.	001-020
Dial	Blank

6.3 TRS Exception Code

Program	Default
TRS Level	6
Entry No.	001-020
Dial	Blank

7 ARS (Automatic Route Selection)

7.1 ARS (Automatic Route Selection)

7.2 Time Table

Program	Default
Time A,-B,-C,-D, (SUN, MON, TUE, WED, THU, FRI, SAT)	Time-A=8:00AM, Time-B=5:00PM, Time-C=9:00PM, Time-D=Disable

7.3 Leading Digits Table

Program	Default
Entry No.	001-020
Dial	Blank
Routing Plan No.	None

7.4 Routing Plan

Program	Default
Plan No.	1
[Time-A, -B, -C, -D] Trunk Group No.	None
[Time-A, -B, -C, -D] Modification Table No.	None

7.5 Digits Modification Table

Program	Default
Entry No.	01-08
Digits to delete	0
Number to be added	Blank

8   Private Network

8.1   Private Network

8.2   TIE Routing Table

Program	Default
Entry No.	01-08
PBX Code	Blank
Leading Digit	Blank
Digits to delete	0
Number to be added	Blank
Trunk Group No.	None

9   DDI / DID

9.1   DDI / DID

9.2   Number Transformation

Program	Default
Entry No.	0001-0020
DID / DDI / MSN No.	Blank
Destination – Day / Night	Blank
Name	Blank
MSN Line No.	Blank

10   Maintenance

10.1   Maintenance

10.2   External Modem 1 / 2

Program	Default
Manual Initialization Command (1- 5)	All: Blank
Automatic Initialization Command	AT&F0Q0E0V1S0=1X0&D0

10.3 External Modem 2 / 2

Program	Default
Connection Message (1-5)	Message 1: CONNECT, Others: Blank
Disconnection Message (1-5)	Message 1: NO CARRIER, Others: Blank

10.4 SMDR

Program	Default
SMDR Connection	No
Output Type	Type-A
Print out Error Information	Disable
[Format] Page Length	24 lines
[Format] Skip Perforation	0
[Duration Log] Outgoing Calls	All
[Duration Log] Incoming Calls	On
Priority of Caller ID information	Number
Print out DDI / DID subscriber number	Disable
Print out Incoming Call Start "RC" and Incoming Call Answer "AN" information	Disable
Print out No Answer of Timed Reminder information	Disable
Print out Account Code	Enable
Print out LOGIN / LOGOUT	Disable

10.5 Power Failure Transfer

Program	Default
Trunk Card	None
Extension Card	None

10.6 System Parameters

Program	Default
[Password] System Programming	1234

Program	Default
[Password] User Programming	1234
[Password] Walking COS	1234
Serial Interface Port	
[Serial Interface Port] PROG – Parity	(Display only)
[Serial Interface Port] PROG – NL Code	CR + LF
[Serial Interface Port] PROG – Word Length	(Display only)
[Serial Interface Port] PROG – Stop Bit	(Display only)
[Serial Interface Port] PROG – Baud Rate	19,200 bps
SMDR (Port 2)	
[Serial Interface Port] SMDR – Parity	None
[Serial Interface Port] SMDR – NL Code	CR + LF
[Serial Interface Port] SMDR – Word Length	8 bits
[Serial Interface Port] SMDR – Stop Bit	1 bit
[Serial Interface Port] SMDR – Baud Rate	9,600 bps
Remote FDN	Blank

10.7 System Time

Program	Default
System Time	
(Year)	99
(Month)	Jan
(Day)	(0)1
(Day of the week)	Fri
(Hour)	12
(Minute)	00
(AM / PM)	AM

11 Programming Error Messages

11.1 Error Messages (EXXXX)

11.2 Warning Messages (WXXXX)

11.3 Information Message (IXXXX)

This PBX fulfills the requirements of following European regulations:

$\mathsf{C}\mathsf{E}$ 73/23/EEC   "Low Voltage Directive"
89/336/EEC   "Electromagnetic compatibility" (Basic EMC Publication)
92/31/EEC   "Electromagnetic compatibility" (Supplement)
93/68/EEC   "CE mark"

For above mentioned standards the unit is signed with the CE-mark.

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