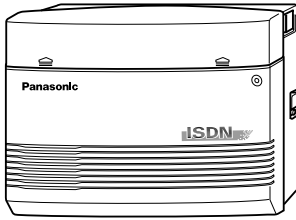# Panasonic

Digital Super Hybrid System

Programming Guide

Model No. KX-TD612E

Thank you for purchasing a Panasonic Digital Super Hybrid System, Model KX-TD612.
Please read this manual before connecting the Digital Super Hybrid System and save this manual for future reference.

Version 3

Introduction

This Programming Guide provides programming instruction for a digital proprietary telephone (DPT).

Table of Contents

Section   1

General System Programming

1.1   General Programming Instructions

Default Setting

This system has a default factory setting. If any of the programming needs to be changed, you will find the necessary information in "Features Guide." This makes the system very simple to install and customise as required by the customer.

Required Telephone Set

One of the following telephone sets is required for System Programming:
- Digital Proprietary Telephone (DPT):
  KX-T7431, KX-T7433, KX-T7436, KX-T7230, KX-T7235

Extensions Used for Programming

Connect one of the above-mentioned telephone sets to either of the following:
- Jack number 1
- Jack programmed as a manager extension
  To assign the manager extension, see Section [006]   Operator/Manager Extension Assignment — Day/Night"
- All jacks for Manager Programming [000]   Date and Time Set through [014]   Budget Management on ISDN Port

1.2 Using the Digital Proprietary Telephone

Soft Buttons and SHIFT Button on the Display DPT

Three soft buttons are provided just below the display on the Digital Proprietary Telephones with Display (DPT); KX-T7433, KX-T7436, KX-T7230, KX-T7235. The functions of these soft buttons vary as the programming procedures advance from step to step. Those functions that are currently assigned to the buttons are shown on the lower line of the display. (See "Viewing the Display" on Page 13 for more information on the display lines.)

If the SHIFT button indicator is on, 2 functions are available with each soft button. To alternate between the 2 functions, press the SHIFT button on the right side of the display.

Soft button variations

Type 1

```
        CLR   NEXT
```
Example: KX-T7433 Display

Buttons

Soft 1   Soft 2   Soft 3   SHIFT

Type 2

```
SKP+  CLR   NEXT
```
Press **SHIFT** to alternate
```
SKP-        PREV
```

Soft 1   Soft 2   Soft 3   SHIFT   Soft 1   Soft 2   Soft 3   SHIFT

Type 3

```
->   SEL   NEXT
```
Press **SHIFT** to alternate
```
<-   SEL   PREV
```

Soft 1   Soft 2   Soft 3   SHIFT   Soft 1   Soft 2   Soft 3   SHIFT

Type 4

```
A     B     C
```
Press **SHIFT** to alternate
```
a     b     c
```

Soft 1   Soft 2   Soft 3   SHIFT   Soft 1   Soft 2   Soft 3   SHIFT

Type 5

```
SKP+  SEL   NEXT
```
Press **SHIFT** to alternate
```
SKP-  CLR   PREV
```

Soft 1   Soft 2   Soft 3   SHIFT   Soft 1   Soft 2   Soft 3   SHIFT

You can use either the soft buttons or the overlay buttons. (For overlay buttons, refer to "Using the Overlay" below.)

Throughout the programming you will see instructions such as "Press **PREV**" If you use the soft buttons, this means press **SHIFT**, release **SHIFT** and then press **Soft 3**. The (PREV) function is performed.

Note

If you use the soft buttons and if programming instructions tell you to press the following buttons, you may press soft buttons shown below.

Instructions	Soft button
SELECT	Sel+, Sel-, or SEL
CLEAR	CLR

Using the Overlay

A programming overlay is packed with the telephone at the factory. This overlay should be used at all times while in programming mode since the functions of the telephone keys change while in programming mode as follows: (The original names are in parentheses.)

During Operation	During Programming
(PAUSE)	**PAUSE/PROGRAM**
(SP-PHONE)	**NEXT**
(REDIAL)	**PREV (PREVIOUS)**
(AUTO ANSWER/MUTE)	**SELECT**
(R)	**FLASH**
(TRANSFER)	**CLEAR**
(FWD/DND)	**→**
(CONF)	**– ←**
(INTERCOM)	**SECRET**
(AUTO DIAL/STORE)	**STORE**
(HOLD)	**END**

Location of Controls with the Overlay

The pictures below show the functions of the buttons of the digital proprietary telephone (DPT) while in programming mode. There are Overlays for the KX-T7400 series telephones and the KX-T7200 series telephones. KX-T7436 and KX-T7230 are used for the examples.
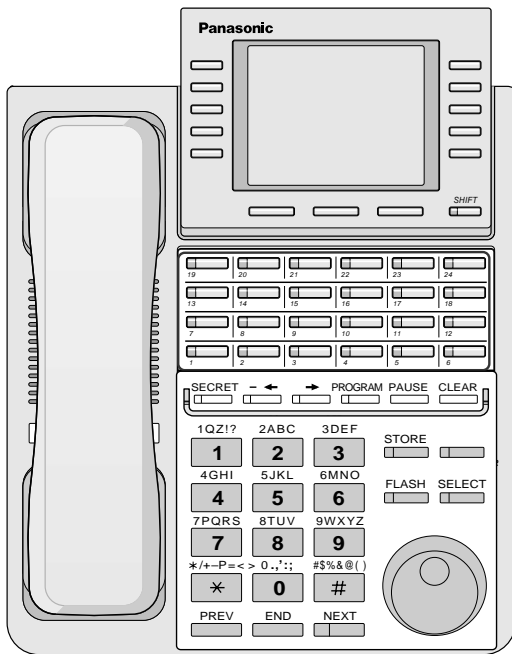
KX-T7436 with the Overlay   **KX-T7230 with the Overlay**
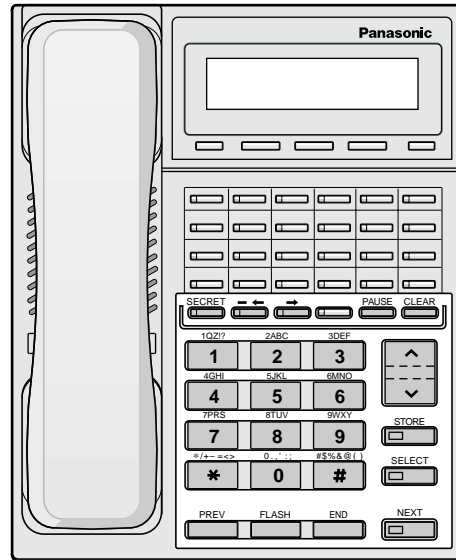
Viewing the Display

The display gives you helpful information, such as what you should do now, what you have done, and so on.

The KX-T7433, KX-T7436, KX-T7230 and the KX-T7235 utilise two information lines for programming. The upper line is called the Message Line and the lower one is called the Function Line.

The Message Line (upper) shows you what you should do or what you should select. It also allows you to confirm what you have just entered. The display capacity is 16 digits. If your entry exceeds the capacity, you can shift the display by pressing → or ← button.

The Function Line (lower) shows the current function of the soft buttons. These functions change with the programming procedures.

```
SYS-PGM NO? →          ← Message Line
        CLR   NEXT      ← Function Line
```
KX-T7433 Display

```
SYS-PGM NO? →          ← Message Line
        CLR   NEXT      ← Function Line
```
KX-T7230 Display
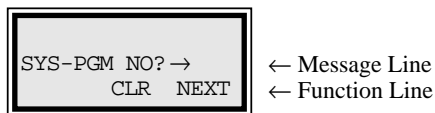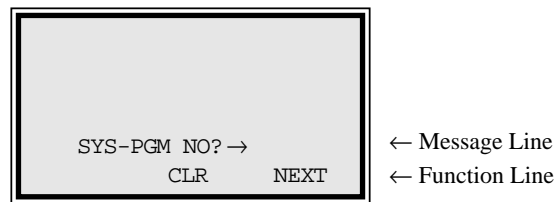
```
SYS-PGM NO? →          ← Message Line
        CLR    NEXT     ← Function Line
```
KX-T7436/KX-T7235 Display

Before entering the programming mode

Before entering programming mode, confirm that:

- Your telephone is on-hook.
- No calls are on hold at your telephone.

Entering the programming mode

To enter the System Programming mode from a Jack 1 DPT:

> Press **PROG.** + ✳ + # and enter your **System Password**
> (**default=1234**).

- The display shows the Initial Message: SYS-PGM NO? →

To enter the Manager Programming mode from any DPT:

> Press **PROG.** + ✳ + ✳ and enter your **User Password**
> (**default=1234**).

- The display shows the Initial Message: MNG-PGM NO? →

<u>**Note**</u>
- If your telephone set has no **PROG.** button, substitute with the **PAUSE** button.
- If nothing is entered in 5 seconds after the **PROG.** button is pressed, it is cancelled.
- The System or User Password entered is not shown on the display. The System or User Password can be changed by System Programming. Refer to [107]   System Password or [120]   User Password.
- During the programming mode, your extension is treated as a busy extension.
- Only 1 DPT can be in programming mode at any one time.

1.3   Programming Ways

Advancing to the next stage

When "SYS-PGM NO?→" is displayed, you can select one of the following:
- To go to programme [000], press the **NEXT** button.
- To go to another programme, enter the 3-digit programme address.

Rotation of jack number

Jacks 1 through 4 of the system support the connection of a Digital Proprietary Telephone (DPT) and an analogue device with different extension numbers (eXtra Device Port : XDP function). To program this function it is necessary to assign 2 parts for each jack. The first part of jack 1 is 1-1. The second part of jack 1 is 1-2. The first part of jack 2 is 2-1 and so on. The **NEXT** and **PREV** buttons can be used to move from jack to jack as required.

Example;

	NEXT		**NEXT**		**NEXT**	
#1-1	→←	#1-2	→←	#2-1	→←	#2-2 ......
	PREV		**PREV**		**PREV**	

Note

The first part of a jack is for a DPT of a XDP-assigned jack. The second part is for a single line device. Programme [600]   EXtra Device Port assigns which jacks are XDP.

Storing your data

Press **STORE** to store your data.
- The **STORE** indicator lights red and confirmation tone sounds.

* Confirmation tone (1 beep)

After pressing **STORE**, you will hear a beep. This informs you that your storage is completed.

* Alarm tone (3 beeps)

If you hear 3 beeps, something is wrong with your entry.

Making another selection within the same programme address

- To make the next higher selection, press **NEXT**.
- To make the previous selection, press **PREV**.
- To make a specific selection, press **SELECT** and then enter the number.

Going to another programme address

After pressing **STORE**, you can go to another programme with either of the following two methods:

a) To go to the next higher programme address:
Press **Soft 1 (SKP+)** or <u>**VOLUME ∨ (DOWN).**</u>

To go to the next lower programme address:
Press **SHIFT + Soft 1 (SKP-)** or <u>**VOLUME ∧ (UP).**</u>

b) To go to a specific programme address:
Press **END**, then enter the programme address.

Method 1 is useful when you want to perform a series of programmes consecutively. For example, to change the programming in addresses [0XX], use this method. You can move from [000] to [001], from [001] to [002], and so on by pressing the **SKP+** or **VOLUME ∨**. You can move in reverse order from [008] to [007], etc. by pressing the **SKP-** or **VOLUME ∧**.
This method can also be used to move between neighboring programme groups: For example, you can move between the programme addresses of the largest [0XX] and [100], the largest [1XX] and [200], and so on. Also, you can move between the smallest programme address [000] and the largest one [9XX].
Method 2 is useful when you wish to jump to another programme address. For example, you have just finished with programme [006] and now you want to go to programme [301]. Neither **SKP+/ VOLUME ∨** nor **SKP-** or **VOLUME ∧** is convenient in this case. So you should press **END** and enter 301.

<u>Note</u>

The following programming instructions suppose that you have already entered programming mode and that you will use Method 2.

Confirming the entries

You may review the stored programming without making any changes.

Going back to the operation mode

Two ways are available to go back to the operation mode:

a) Lift the handset while in programming mode.

b) When the Initial Message "SYS-PGM NO?→" is displayed, press the **PROG.** button. (To display the Initial Message, press **END**.)

1.4 Entering Characters

Entering Characters

You can enter characters to store names or messages by using the dialling key pad, buttons or the Jog Dial.
See the Combination Tables below.

Combination Tables

Combination Table 1

SHIFT & Soft Combination		S1	SHIFT + S1	S2	SHIFT + S2	S3	SHIFT + S3	SHIFT + SHIFT + S1	SHIFT + SHIFT + S2
Pressing SELECT* (Times) Keys	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**
1	1	Q	q	Z	z	!	?		
2	2	A	a	B	b	C	c		
3	3	D	d	E	e	F	f		
4	4	G	g	H	h	I	i		
5	5	J	j	K	k	L	l		
6	6	M	m	N	n	O	o		
7	7	P	p	Q	q	R	r	S	s
8	8	T	t	U	u	V	v		
9	9	W	w	X	x	Y	y	Z	z
0	0		.	,	'	:	;		
✶	*	/	+	–	=	<	>		
#	#	$	%	&	@	(	)		

Combination Table 2

Jog Dial	
Keys	Display sequence by rotating the Jog Dial
1	1 Q q R r S s T t …
2	2 A a B b C c D d …
3	3 D d E e F f G g …
4	4 G g H h I i J j …
5	5 J j K k L l M m …
6	6 M m N n O o P p …
7	7 P p Q q R r S s …
8	8 T t U u V v W w …
9	9 W w X x Y y Z z …
0	0 (space) ! ? . , ' : ; …
✻	* / + – = < > # $ …
#	# $ % & @ ( ) A a …

Note

- The alphabetical characters correspond to the letters shown on the 12 dialling keys on the digital proprietary telephone (DPT). (except symbols)
- **In Combination Table 1:**
  If your telephone is a KX-T7431, do not use the provided SELECT button. Use the AUTO ANSWER/MUTE button which becomes the SELECT button when using the overlay.
- **In Combination Table 2:**
  If you keep rotating the Jog Dial, all of the characters in the table will be displayed.

Please see the following example which shows how to select a desired character.
For example, to select the letter "M":
Select one of the following 3 methods:

1. Using the **SHIFT** and **Soft** buttons
(for KX-T7433/KX-T7436/KX-T7230/KX-T7235 only)
* See Combination Table 1.

  a) Press **6**. ("M" belongs to "6".)

  - The Function Line shows: M N O

  b) Press the **Soft 1** (M) button.
  (Press SHIFT to display the lower case of the above letters.)

2. Using the **SELECT** button
* See Combination Table 1.

  a) Press **6**. ("M" belongs to "6".)

  b) Press the **SELECT** button once.

- Pressing the **SELECT** button an appropriate number of times gives you the desired letter. Pressing **SELECT** twice gives the letter "m", pressing 3 times gives "N", and so on.

3. Using the **Jog Dial**
(for KX-T7431/KX-T7433/KX-T7436 only)
* See Combination Table 2.

a) Press **6**. ("M" belongs to "6".)

b) Rotate the **Jog Dial** 1 pulse.

- Rotating the **Jog Dial** an appropriate number of pulses gives you the desired letter. Rotating the **Jog Dial** 2 pulses gives the letter "m", rotating 3 pulses gives "N", and so on.

OR

a) Press **any dialling keypad**.

b) Rotate the **Jog Dial** until the desired character appears.

- If you keep rotating the **Jog Dial**, eventually all of the characters will be displayed. For example, If you rotate the **Jog Dial** after pressing 2, characters will appear in the following order:
A a B b … Z z (space) ! ? . , ' : ; * / + - = < > # $ % & @ ( ) A a B b …

Example of entering characters: to enter "Mike":

Using method (1)
* See Combination Table 1.

The display shows:

1. Enter **6**.

```
                6
  M      N      O
```

2. Press **Soft 1** (M).

```
                M
  M      N      O
```

3. Enter **4**.

```
               M4
  G      H      I
```

4. Press **SHIFT**.

```
               M4
  g      h      i
```

5. Press **Soft 3** (i).

```
               Mi
  g      h      i
```

6. Enter **5**.

```
              Mi5
  j      k      l
```

7. Press **Soft 2** (k).

```
              Mik
  j      k      l
```

8. Enter **3**.

```
          Mik3
  d     e     f
```

9. Press **Soft 2** (e).

```
          Mike
  d     e     f
```

Using method (2)
* See Combination Table 1.

The display shows:

1. Enter **6**.   6

2. Press **SELECT**.   M

3. Enter **4**.   M4

4. Press **SELECT** 6 times.   Mi

5. Enter **5**.   Mi5

6. Press **SELECT** 4 times.   Mik

7. Enter **3**.   Mik3

8. Press **SELECT** 4 times.   Mike

Using method (3)
* See Combination Table 2.

The display shows:

1. Enter **6**.   6

2. Rotate **Jog Dial** 1 pulse.   M

3. Enter **4**.   M4

4. Rotate **Jog Dial** 6 pulses.   Mi

5. Enter **5**.   Mi5

6. Rotate **Jog Dial** 4 pulses.   Mik

7. Enter **3**.   Mik3

8. Rotate **Jog Dial** 4 pulses.   Mike

OR

1. Enter **2**.   2

2. Rotate **Jog Dial** until "M" appears.   M

3. Enter **2**.   M2

4. Rotate **Jog Dial** until "i" appears.   Mi

5.	Enter **2**.	`Mi2`
6.	Rotate **Jog Dial** until "k" appears.	`Mik`
7.	Enter **2**.	`Mik2`
8.	Rotate **Jog Dial** until "e" appears.	`Mike`

<u>Note</u>

- To erase all the letters, press **CLEAR**.

- To erase the last letter, press ◄█.

1.5 Example of Programming

Example of Programming

The following programming instructions assume that you have already entered programming mode and that you will employ method 2 of "Going to another programme address " in Section 1.3 Programming Ways.

Example: Programme [001] System Speed Dialling and Intelligent Call Handling Number Set

Sample of Description	Explanation

2.1 Manager Programming[2]
 	
[001][1] **System Speed Dialling and Intelligent Call Handling Number Set** [3]
 	
Description [4] — Used to program the System Speed Dial numbers and Intelligent Call Handling number (CLIP/DDI/MSN). These numbers are available to all extension users. The stored numbers are also applied to Calling/Connected Line Identification Presentation (CLIP/COLP) and Call Log, Incoming Features.
 	
Selection [5] — • Speed dial number: **000 through 699 (CLIP: 000-499)**
DDI/MSN number: **500 through 699 (DDI/MSN: 500-699)**
• Telephone number: **32 digits (max.)**
 	
Default[6] — All speed dial numbers and DDI/MSN numbers– Not Stored
 	
Programming[7]
1. Enter **001**.[8]
   Display: SPD & CH Number [9]
 	
2. Press **NEXT**.[10]
   Display: SPD&CH Cod? [11]
 	
3. Enter a **location number**.
   To enter location number 000, you can also press **NEXT**.
   Display example: 000:Not Stored [12]
 	
4. Enter a **telephone number**. [13]
   To delete the current entry, press **CLEAR**. [14]
   To change the current entry, press **CLEAR** and enter the new number.
 	
5. Press **STORE**.[15]
	(1) Programme address: This address is printed at the top of every page to allow you to quickly find the desired programme.
	
	(2) Running title: tells you which group the programme belongs to.
	
	(3) Programme title.
	
	(4) Provides a more detailed description of the programme.
	
	(5) Shows you choices that you can assign.
	
	(6) Shows you the default (factory setting).
	
	(7) Shows you programming procedures step by step.
	   • While programming, use the overlay
	   • Before starting to program, enter the programming mode. (See "Entering·the programming mode" on page 14.)
	
	(8) Enter the programme address.
	
	(9) The display shows the programme title. If your telephone has soft buttons, the lower line shows the functions that are currently assigned to them.
	
	(10) Press either **Soft 3** (NEXT) shown on the display or the **NEXT** shown on the overlay.
	
	(11) The message line advises you to enter a speed dial number.
	
	(12) If the telephone number has already been stored, the number is displayed.
	
	(13) Enter the telephone number that you want to store. Your entry is displayed as you enter the digits.
	
	(14) Pressing **CLEAR** erases the whole entry.
	
	(15) Your entry is now stored.
	The indicator lights red and confirmation tone lets you know that the storage is completed.

Sample of Description	Explanation
[001] System Speed Dial and Intelligent Call Handling Number Set (contd.) 6. To program another speed dial number, press **NEXT** or **PREV**, or **SELECT** and the desired **speed dial number**.[16] 7. Repeat steps 4 through 6. [17] 8. Press **END**. [18] **Conditions** [19] • Be sure to assign all DDI/MSN numbers at the DDI/MSN locations 500 through 699. Otherwise, calls from persons whose CLIP is not registered in locations 000 through 499 will not be received. • • • • **Feature References** [20] 　　　Call Log, Incoming 　　　Intelligent Call Handling 　　　— Distribution of Incoming 　　　　Outside Calls 　　　　• 　　　　•	(16) Select the best way for you to store another speed dial number. Pressing the **NEXT/PREV** allows you to select the next higher/lower speed dial number. You can also keep pressing them until the desired one is displayed. If you press **SELECT** and the desired speed dial number, the selected code is displayed. (17) You can continue to program another entry. (18) After you have stored all your entries, finish this programme by pressing **END**. After pressing **END** you can go to any programme address you desire. You can return to the Initial Message mode any time by pressing **END**. 　To go to the next larger programme address, do not press **END** but press **Soft 1** (SKP+) or **VOLUME** ∨. 　To go to the next smaller programme address, do not press **END** but press **SHIFT** + **Soft 1** (SKP-) or **VOLUME** ∧. (19) Tells you what you should notice or consider when doing the programming. (20) Lists all of the features related to the programming. These features are described in Features Guide.

Programming Structure

Programme Address	Programming Group	Description
[0XX]	Manager Programming	These programmes may be accessed by the system manager of the customer to meet frequent changes requested by the customer.
[1XX]	System Programming	Entire system programming.
[2XX]	Timer Programming	Flexible system timer setting.
[3XX]	TRS Programming	Assignment of Toll Restriction.
[4XX]	CO Line Programming	Setting of CO line and CO line values.
[5XX]	COS Programming	Setting of Class of Service (COS).
[6XX]	Extension Programming	Setting of extension values.
[7XXX]	LCR Programming	Assignment of Least Cost Routing.

Programming Structure

Programme Address	Programming Group	Description
[8XX]	Resource Programming	Assignment of customer-supplied peripherals connected to the system.
[9XX]	Option Programming	Used to answer the user's requirements or troubles, if needed.

Section   2

Manager Programming

2.1 Manager Programming

[000] Date and Time Set

NOTICE

It is assumed that you have read Section 1.1　General Programming Instructions. The use of the soft buttons is discussed in the section, therefore we will not make any reference to them in the following instructions. At any time the soft buttons can be used in place of the overlay keys.

Description

Sets the current date and time.

Selection

- Day: **01 through 31**
- Month: **Jan through Dec**
- Year: **00 through 99**
- Day of the week: **SUN/MON/TUE/WED/THU/FRI/SAT**
- Hour: **00 through 23**
- Minute: **00 through 59**

Default

1 Jan '02 TUE 00:00

Programming

1. Enter **000**.

   ```
   Display: Day/Time Set
   ```
2. Press **NEXT**.

   ```
   Display example: 1 Jan '02 TUE
   ```
3. Enter the **day**.

   To change the current entry, press **CLEAR** and enter the new day.
4. Press →.
5. Keep pressing **SELECT** until the desired month is displayed.
6. Press →.
7. Enter the **year**.

   To change the current entry, press **CLEAR** and the new year.
8. Press →.
9. Keep pressing **SELECT** until the desired day of the week is displayed.

10. Press **STORE**.

11. Press **NEXT**.

    Display example: 00:00

12. Enter the **hour**.

   To change the current entry, press **CLEAR** and the new hour.

13. Press →.

14. Enter the **minute**.

   To change the current entry, press **CLEAR** and new minute.

15. Press **STORE**.

16. Press **END**.

Conditions

- After changing an entry, you can press **STORE**. You do not have to perform all of the rest of the steps.
- To go back to the previous field, press ← at steps 4 through 9 and steps 13 through 14.
- If you hear an alarm after pressing **STORE**, check that the date is valid.
- The clock starts immediately after the **STORE** button is pressed.
- You cannot leave the entry empty.
- The date and time are adjusted automatically, when the first outgoing call is made through ISDN line after 3 o'clock each morning.

Features Guide References

Automatic Adjust Time

Display, Time and Date

[001] System Speed Dialling and Intelligent Call Handling Number Set

Description

Used to program the System Speed Dial numbers and Intelligent Call Handling number (CLIP /DDI/MSN). These numbers are available to all extension users. The stored numbers are also applied to Calling/Connected Line Identification Presentation (CLIP/COLP) and Call Log, Incoming Features.

Selection

- Speed dial number: **000 through 499 (CLIP: 000-499)**
  DDI/MSN number: **500 through 699 (DDI/MSN: 500-699)**
- Telephone number: **32 digits (max.)**

Default

All speed dial numbers and DDI/MSN numbers — Not Stored

Programming

1. Enter **001**.

   ```
   Display: SPD & CH Number
   ```

2. Press **NEXT**.

   ```
   Display: SPD&CH Cod?
   ```

3. Enter a **location number**.

   To enter location number 000, you can also press **NEXT**.

   ```
   Display example: 000:Not Stored
   ```

4. Enter a **telephone number**.

   To delete the current entry, press **CLEAR**.
   To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another speed dial number, press **NEXT** or **PREV,** or **SELECT** and the desired **speed dial number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Be sure to assign all DDI/MSN numbers at the DDI/MSN locations 500 through 699. Otherwise, calls from persons whose CLIP is not registered in locations 000 through 499 will not be received.

- There is a maximum of 700 (000 – 699) System Speed Dialling and Intelligent Call Handling numbers. Each number has a maximum of 32 digits. System Speed Dialling numbers must be assigned at 000 through 499. The valid characters are **0 through 9, ✶, and # keys, PAUSE, SECRET and — (hyphen) buttons.**

    — To store a hyphen, press the "–" button.

    — To store a pause, press **PAUSE.**

    — To prevent the display of all or part of the number, press **SECRET** before and after confidential parts of the number. The **SECRET** button must always be entered in a pair. Or your entry is not stored. (Refer to "Secret Dialling" in Features Guide.)

- The name assigned in programme [002]   System Speed Dialling and Intelligent Call Handling Name Set will not be displayed when receiving the call if you store 1) **PAUSE**; 2) **SECERT**; 3) **– (hyphen)** twice.

- If you are storing an external CLIP number, include the line access code (default=9, 81 through 84) before the number. For CLIP/COLP and Call Log, Incoming feature; Include – (hyphen) before a phone number, because the telephone number check starts after the hyphen. Example: 9-12345678

- Be sure not to store your DDI/MSN number including the line access code. If the line access code is included, the incoming call with that DDI/MSN number cannot be handled properly because the system analyses the line access code as a part of your DDI/MSN number.

- If you are storing an account code, enter the account code before the line access code. Example: 4912345#9-12345678
(Refer to "Account Code Entry" in Features Guide.)

- It is possible to store a number consisting of 33 digits or more by storing it in 2 speed dial numbers. A line access code should not be stored in the second speed dial number.

- To display parts of the number which have scrolled off the display, press → or ← .

- Programme [002]   System Speed Dialling and Intelligent Call Handling Name Set is used to give names to speed dial numbers and DDI/MSN numbers.

- You can use ✶ as the wild card characters to separate ringing destinations by area codes etc. Be sure to assign the number so that the total number of digits (including wild card characters) will be the same as the one of the originating telephone numbers.

- If you assign a wild card number at the locations 000-499, the name assigned at [002]   System Speed Dialling and Intelligent Call Handling Name Set will not be displayed when receiving the call.

- You can assign CLIP and DDI/MSN numbers at locations 000-699. CLIP numbers can be assigned at the location 000-499. DDI/MSN numbers can be assigned at locations 500-699. We recommend that wild card numbers for CLIP be stored starting at location 499, and then 498, 497, etc. That is, go backwards starting at number 499.
We recommend the preceding because if you assign the wild card number "9-012✶✶✶✶✶✶" at location 000, then all calls that start with "012" will be processed according to that routing – even though you assign "9-0123456789" at another location. This is because the CLIP or your DDI/MSN number is analysed sequentially from 000 to 699.

Features Guide References

Call Log, Incoming

Intelligent Call Handling — Distribution of Incoming Outside Calls
Special Display Features (System Speed Dialling)
System Speed Dialling
Toll Restriction Override for System Speed Dialling

[002] System Speed Dialling and Intelligent Call Handling Name Set

Description

Assigns names to the system speed dial numbers and DDI/MSN numbers assigned in programme [001]   System Speed Dialling and Intelligent Call Handling Number Set. The KX-T7431, KX-T7433, KX-T7436 and KX-T7235 telephone show the stored name when performing System Speed Dialling or Intelligent Call Handling. The stored names are applied to the Call Log — Incoming features.

Selection

- Speed dial number: **000 through 499 (CLIP: 000-499)**
  DDI/MSN number: **500 through 699 (DDI/MSN: 500-699)**
- Name: Speed dial number — **16 characters (max.)**
       DDI/MSN number — **10 characters (max.)**

Default

All speed dial and DDI/MSN numbers — Not Stored

Programming

1. Enter **002**.

   `Display: SPD & CH Name`

2. Press **NEXT**.

   `Display: SPD&CH Cod?`

3. Enter a **location number**.

   To enter location number 000, you can also press **NEXT**.

   `Display example: 000:Not Stored`

4. Enter a **name**.

   For entering characters, see 1.4   Entering Characters.
   To delete the current entry, press **CLEAR**.
   To change the current entry, press **CLEAR** and the new name.

5. Press **STORE**.

6. To program another location number, press **NEXT** or **PREV**, and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Speed dial and DDI/MSN numbers are programmed in programme [001]   System Speed Dialling and Intelligent Call Handling Number Set.
- There is a maximum of 700 names. Each name has a maximum of 16 characters for speed dial numbers and 10 characters for DDI/MSN numbers.
- If you assign a wild card number at the locations 000-499, the name assigned in this programming will not be displayed when receiving a call.

Features Guide References

Call Log, Incoming

Special Display Features (System Speed Dialling)

System Speed Dialling

[003]   Extension Number Set

Description

Assigns an extension number to each jack.

Note

This programming should be performed before you connect a Panasonic Voice Processing System (VPS) because the VPS can create mailboxes automatically based on your extension plan (extension number set).

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                    (-1 = first part, -2 = second part)
- Extension Number: **2 through 4 digits**

Default

DPT extensions :

Jack 1-1 : 201/Jack 2-1 : 202/Jack 3-1 : 203/Jack 4-1 : 204/Jack 5-1 : 205/Jack 6-1 : 206 /Jack 7-1 : 207/Jack 8-1 : 208

XDP extensions :

Jack 1-2 : 301/Jack 2-2 : 302/Jack 3-2 : 303/Jack 4-2 : 304

Programming

1. Enter **003**.

    Display: EXT Number Set

2. Press **NEXT**.

    Display: Jack NO?→

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.
    To select the second part (-2), press **NEXT** after entering the jack number.

    Display: #1-1:EXT201

4. Enter an **extension number**.

    To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 12 extension numbers. Each extension number can be 2, 3, or 4 digits, consisting of **0 through 9**. The ✶ and # keys cannot be used.
- An extension number is invalid if the leading first or second digits disagree with the setting of the programme [100] Flexible Numbering, 1st through 16th hundred extension blocks. If 1 digit is assigned as the leading digit, some extensions have 2 digits and some have 3 digits. If 2 digits are assigned, some have 3 digits and some have 4 digits.
- For Jacks 1 through 4, 2 extension numbers can be assigned per jack. If XDP is disabled for the jack in programme [600] EXtra Device Port, the extension number of the second part (X-2) is not available. (X=jack number)
- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3 Programming Ways.
- Double entry or incompatible entry is invalid including the assignment of programmes [012] ISDN Extension Number Set, [127] Voice Mail Extension Number Assignment, [130] Phantom Extension Number Assignment and [813] Floating Number Assignment. Valid entry examples: 10 and 11; 10 and 110. Invalid entry examples: 10 and 106; 210 and 21.
- Programme [004] Extension Name Set is used to give names to extension numbers.

Features Guide References

EXtra Device Port (XDP)

Intercom Calling

Special Display Features (Extension Dialling)

[004] Extension Name Set

Description

Assigns names to the extension numbers programmed in programme [003] Extension Number Set.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- Name: **16 characters (max.)**

Default

All jacks — Not Stored

Programming

1. Enter **004.**

   Display: EXT Name Set

2. Press **NEXT**.

   Display: Jack NO?→

3. Enter a **jack number**.

   To enter jack number 1-1, you can also press **NEXT**.
   To select the second part (-2), press **NEXT** after entering a jack number.

   Display: #1-1:Not Stored

4. Enter a **name**.

   For entering characters, see Section 1.4 Entering Characters.
   To delete the current entry, press **CLEAR**.
   To change the current entry, press **CLEAR** and the new name.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 12 names. Each name has a maximum of 16 characters.
- Programme [003] Extension Number Set is used to assign extension numbers.
- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3 Programming Ways.

Features Guide References

Intercom Calling

Special Display Features (Extension Dialling)

[005] Flexible CO Button/PF Key Assignment

Description

Used to determine the use of the flexible CO buttons/PF keys (24 CO buttons/PF keys max.) on digital proprietary telephones from a centralised telephone.

Selection

- Jack number: **1 through 8**
- Button Code (plus parameter, if required):

Button Code	Parameter
0 (Single-CO)	**1 through 7** (CO line number) [7:Analogue CO]
1 (DSS)	**2 through 4 digits** (Extension number)
2 (One-Touch)	**24 digits max.** (Telephone number)
4 (FWD/DND)	None
5 (Save)	None
6 (Account)	None
7 (Conference)	None
30 (Message Waiting)	None
31 (DDI/CLIP Key)	**000 through 699** (System speed dial, DDI/MSN number)
80 (Log-In/Log-Out)	**2 through 4 digits** (FENOH)[1]
81 (Hurry-Up)	**2 through 4 digits** (Extension number)
82 (Voice Mail Transfer)	**2 through 4 digits** (Voice mail extension number)
83 (Two-Way Record)[2]	**2 through 4 digits** (Voice mail extension number)
84 (Two-Way Transfer)[2]	**2 through 4 digits** (Voice mail extension number)
85 (Live Call Screening)[2]	None
86 (Live Call Screening Cancel)[2]	None
88 (Phantom Extension)	**2 through 4 digits** (Phantom extension number)
89 (ISDN Network Service Access)	**24 digits max.**
8✱00 (Night)	None
8✱01 (Call Pickup Deny)	None
8✱02 (Call Waiting)	None
8✱03 (CLIR)	None

Button Code	Parameter
8✱04 (COLR)	None
8✱05 (DND for ICH1:1)	None
8✱06 (Executive Busy Override Deny)	None
8✱07 (Paging Deny)	None
8✱08 (Paralleled Telephone Connection)	None
8✱09 (Pickup Dialling)	None
8✱10 (Call Forwarding from Hunting Group)	**2 through 4 digits** (FENOH)[*1]
8✱11 (Doorphone Call Forwarding to CO Line)	**1 through 3** (Doorphone number)
8# (One-Touch Dialling with Auto Hold)	**24 digits max.** (Telephone number)
9 (Terminate)	None
✱ (Loop-CO)	None
CO (ringer frequency)[*3]	**1 through 8** (Ring tone type number)

*1 FENOH: Floating Extension Number of Hunting Group

*2 Available when the Digital Super Hybrid System is connected to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports digital proprietary telephone integration).

*3 Press CO button twice.

Default

All Jacks — CO buttons 1 through 7 = Single-CO 01 through 07; Ring tone type 2

Other CO Buttons = Not Stored

Programming

1. Enter **005**.

    Display: Flexible Key Asn

2. Press **NEXT**.

    Display: Jack NO?→

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    Display: PT-PGM Mode

4. Press **the CO button** to be changed.

    The display shows the contents pre-assigned to the button.

    Display example: CO-01

5. Enter a **button code** (plus **parameter**, if required).

　　　To change the parameter, press **CLEAR** and enter the new parameter.

6. Press **STORE**.

7. To program another CO button of the same jack, repeat steps 4 through 6.
To program another jack, press **SELECT** and repeat steps 3 through 6.

8. Press **END**.

Cancelling

1. Perform the same procedures as steps 1 through 4 above.

2. Enter **2**.

3. Press **STORE**.

4. Press **END**.

Conditions

- A maximum of 24 CO buttons/PF keys can be assigned.
- A centralised telephone is a telephone connected to jack 1 or a jack programmed as a manager extension in programme [006]　Operator/Manager Extension Assignment — Day/Night.
- If you press the same CO button again at step 5, you can select a desired ringer frequency for the CO button from 8 types of ring tone. When you enter the tone type number (1 through 8), you will hear the selected tone type before **STORE** is pressed. This selection is possible only for the CO buttons that have been assigned to Single-CO, Loop-CO or DDI/ CLIP key.

Features Guide References

Button, Flexible

Buttons on Digital Proprietary Telephones

[006] Operator/Manager Extension Assignment — Day/Night

Description

Assigns the jack number for a manager and/or operators. The manager extension can perform System Programming. An operator has the ability to perform operator services.

Selection

- **Operator 1** (Day/Night)/**Operator 2** (Day/Night)/**Manager**
- Jack number: **1-8**

Default

Operator 1 (Day/Night) — Jack 1
Operator 2 (Day/Night) — Not Stored
Manager — Jack 1

Programming

1. Enter **006**.

```
Display: Operator/Manager
```

2. Press **NEXT** to program operator 1 in Day mode.

```
Display: OP-1-Day:Jack1
```

To program another item, you can also keep pressing **NEXT** or **PREV** until the desired one is displayed.

3. Enter a **jack number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new jack number.

4. Press **STORE**.

5. To program another item, press **NEXT** or **PREV**.

6. Repeat steps 3 through 5.

7. Press **END**.

Conditions

- Up to 2 operators and a manager can be programmed.
- The manager cannot be assigned the jack number of the Console Port set in programme [007] Console Port and Paired Telephone Assignment.
- If the assigned jack is in eXtra Device Port mode, the digital proprietary telephone jack is treated as the manager/operator extension.
- If there is no operator or manager, press **CLEAR** at step 3.

Features Guide References

Manager Extension
Operator

[007]   Console Port and Paired Telephone Assignment

Description

Assigns the jack numbers for the Digital DSS Console/Digital Attendant Console (Console) and the paired extension.

Selection

- Console number: **01-04**
- Jack number for Console: **2-8**
- Jack number for paired extension: **1-8**

Default

All Consoles — Not Stored

Programming

1. Enter **007**.

```
Display: DSS Console Asn
```

2. Press **NEXT**.

```
Display: DSS NO?→
```

3. Enter a **Console number**.

To enter Console number 1, you can also press **NEXT**.

```
Display example: DSS-01:#    P:#
```

4. Enter a **jack number** for the console.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new jack number.

5. Press →.

6. Enter a **jack number** for the paired extension.

To change the current entry, press **CLEAR** and enter the new jack number.

```
Display example: DSS-01:#2    P:#3
```

7. Press **STORE**.

8. To program another Console, press **NEXT** or **PREV**, or **SELECT** and the desired **Console number**.

9. Repeat steps 4 through 8.

10. Press **END**.

Conditions

- The jack number for the Console and that for the paired extension must be entered together.
- Multiple Consoles cannot be assigned to the same Console jack.

- Multiple Consoles can be paired with the same digital proprietary telephone jack.
- A Console jack cannot be assigned the jack 1 and the jack number of Manager set in programme [006] Operator/Manager Extension Assignment — Day/Night.
- If all incoming outside calls are set to ring at the operator extension telephone in programme <[452] Extension Ringing Assignment>, assigning the Consoles to the operator extension makes the operator's job much easier.
- If a Console-assigned jack is programmed for eXtra Device Port, an SLT can be connected to the jack in parallel with the console.
- If an SLT is assigned as the pair extension, the paired Console will not function.

Features Guide References

Console

[008] Absent Messages

Description

Used to program the absent messages. An absent message, if set by the extension user, is displayed on the calling extension's telephone to show the reason for the user's absence.

Selection

- Message number: **1 through 9**
- Message: **16 characters (max.)**

Message no.	Default Message
1	Will Return Soon
2	Gone Home
3	At Ext %%% (Extension number)
4	Back at %%:%% (Hour : Minute)
5	Out Until %%/%% (Date)
6	In a Meeting
7	
8	
9	

Default

Message 1-6: Stored
Message 7-9: Not Stored

Programming

1. Enter **008**.

    Display: Message Asn

2. Press **NEXT**.

    Display: MSG NO?→

3. Enter a **message number**.

To enter message number 1, you can also press **NEXT**.

    Display example: MSG1:Will Return Soon

4. Enter the **message**.

For entering characters, see Section 1.4   Entering Characters.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and enter the new message.

5. Press **STORE**.

6. To program another message, press **NEXT** or **PREV**, or **SELECT** and the desired **message number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 9 messages. Messages 1 through 6 are programmed at the factory but can be changed. Each message has a maximum of 16 characters.
- You can enter a maximum of 7 "%" characters per message which can be programmed at each user's station. The station user can enter **0 through 9**, ✶ and # for the "%" characters. If the user enters digits less than the number of "%" characters, it is recommended to fill the remaining "%" characters with "#" or "✶".
- If there are 4-digit extension numbers available in your system, add 1 % to Message 3.
- To display parts of the message which have scrolled off the display, press → or ← .

Features Guide References

Absent Message Capability

[009]   Quick Dial Number Set

Description

Stores up to 80 quick dial numbers.

Selection

- Location number: **01 through 80**
- Telephone number: **24 digits (max.)**

Default

All locations – Not Stored

Programming

1. Enter **009**.n

   `Display: Quick Dial`
2. Press **NEXT**.

   `Display: Location NO?→`
3. Enter a **location number**.

   To enter location number 01, you can also press **NEXT**.

   `Display example: Not Stored`
4. Enter a **desired quick dial number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new number.
5. Press **STORE**.
6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number.**
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- There is a maximum of 80 quick dial numbers. A maximum of 24 digits, consisting of **0 through 9**, ✱, **#**, **PAUSE**, or **– (hyphen)**, can be assigned to a quick dial number.
- Before programming, assign a feature number for each location first in programme [104]   Quick Dial Assignment.

Features Guide References

Quick Dialling

[010]   Budget Management

Description

Assigns the charge limitation of a call on the extension basis.

Selection

- Jack number : **1-4 (-1/-2), 5-8 (-1)**
  (-1= first part, -2= second part)
- Charge limitation (Charge): **0 through 99999999**

Default

All jacks — 0

Programming

1. Enter **010**.

   Display: Charge Limit
2. Press **NEXT**.

   Display: Jack NO?→
3. Enter a **jack number**.

   To enter jack number 1-1, you can also press **NEXT**.

   Display example: #1-1:£   0
4. Enter a **charge limitation**.

   To delete the charge limitation, press **CLEAR**.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- If the charge limitation is set "0," no restriction is applied.
- To assign all DPT jacks to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for Jack1.
- The displayed currency can be programmed by [125]   Currency Assignment.

Features Guide References

Budget Management

Charge Fee Reference

[012]   ISDN Extension Number Set

Description

Assigns an extension number to each ISDN port which is connected to the system.

Selection

- ISDN port number: **2, 3**
- Extension Number: **1 through 3 digits**

Default

All ports — Not Stored

Programming

1. Enter **012**.

   ```
   Display: ISDN EXT.Num Set
   ```

2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #2 :Not Stored
   ```

4. Enter an **extension number**.

   To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Each extension number can be 1, 2 or 3 digits, consisting of **0 through 9**. The ✳ and # keys cannot be used.

- A multiple subscriber number (MSN) is determined regarding to this assignment. The MSN must be up to 4 digits, consisting of the assigned extension number and an additional number (1 or 2 digits). The MSN additional number digit can be selected in programme [427]   ISDN Extension Multiple Subscriber Number.
  Example) In case that the ISDN extension number is assigned "3";
  30 through 39 are effective as MSN's. The extension user can call any terminal equipment on the ISDN Extension bus with MSN individually. Pressing "30" calls all extensions on the ISDN Extension bus simultaneously.

- An extension number is invalid if the leading first or second digits disagree with the setting of the programme [100]   Flexible Numbering, 1st through 16th hundred extension blocks. If 1 digit is assigned as the leading digit, some extensions have 2 digits and some have 3 digits. If 2 digits are assigned, some have 3 digits and some have 4 digits.

- Double entry or incompatible entry is invalid including the assignment of programmes [003]   Extension Number Set, [127]   Voice Mail Extension Number Assignment, [130]   Phantom Extension Number Assignment and [813]   Floating Number Assignment. Valid entry examples: 10 and 11; 10 and 110. Invalid entry examples: 10 and 106; 210 and 21.

- Programme [013]   ISDN Extension Name Set is used to give names to the extension numbers.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[013]   ISDN Extension Name Set

Description

Assigns names to the ISDN extension numbers programmed in programme [012]   ISDN
Extension Number Set.

Selection

- ISDN port number: **2, 3**
- Name: **16 characters (max.)**

Default

All ports — Not Stored

Programming

1. Enter **013**.

   ```
   Display: ISDN EXT. Name
   ```

2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```

3. Enter a **port number**.

   To enter the first port number, you can also press **NEXT**.

   ```
   Display example: #2 :Not Stored
   ```

4. Enter a **name**.

   For entering characters, see Section 1.4   Entering Characters.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new name.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

None

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[014]   Budget Management on ISDN Port

Description

Assigns the charge limitation of a call on the ISDN port basis.

Selection

- ISDN port number: **2, 3**
- Charge limitation (Charge): **0 through 99999999**

Default

All ports — 0

Programming

1. Enter **014**.

   Display: ISDN Charge Lim.

2. Press **NEXT**.

   Display: Port NO?→

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   Display example: #2 :£   0

4. Enter a **charge limitation**.

   To delete the charge limitation, press **CLEAR**.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- If the charge limitation is set "0," no restriction is applied.
- To assign all port to one selection, press the ✳ key at step 3.
  In this case, the display shows the contents programmed for a first port.
- The displayed currency can be programmed by [125]   Currency Assignment.

Features Guide References

Budget Management
Charge Fee Reference

Integrated Services Digital Network (ISDN) Extension

[015]   Charge Rate Fractional Point Assignment

Description

Assigns how many decimal places to set for the charge rate.

Selection

Number of decimal places: **0 through 8**

Default

2

Programming

1. Enter **015**.

```
Display: Decimal Point
```

2. Press **NEXT**.

```
Display example: Fraction place 2
```

3. Enter the **number of decimal place**.

To delete the current entry, press **CLEAR**.

4. Press **STORE**.

5. Press **END**.

Conditions

- This programme is used when the rate is assigned in programme [016]   Charge Rate Assignment.
- According to this assignment, the charge is displayed during the conversation and shown on the SMDR print out.
- This assignment is used for the charge fee reference.
- You cannot leave the entry empty.

Features Guide References

Charge Fee Reference

[016]   Charge Rate Assignment

Description

Assigns the rate to each CO port. This rate is multiplied with the meter charge to generate a charge in currency.

Selection

- CO port number: **1 through 3**
- Charge rate: **10 digits max.** (including the decimal point)

Default

0.01

Programming

1. Enter **016**.

    Display: Charge Rate Asn

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **CO port number**.

    To enter CO port number 1, you can also press **NEXT**.

    Display example: #1 :   0.01

4. Enter a **charge rate** (to the left of the decimal point).

    To delete the current entry, press **CLEAR**.

5. Press ➡.

6. Enter a **charge rate** (to the right of the decimal point).

    To delete the current entry, press **CLEAR**.

7. Press **STORE**.

8. To program another CO port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.

9. Repeat steps 4 through 7.

10.Press **END**.

Conditions

- A maximum of 10 digits, consisting of **0 through 9**, can be assigned as the rate. The number of decimal places depends on the assignment in programme [015]   Charge Rate Fractional Point Assignment.

- The charge for ISDN Port 1 applies to CO 1 and CO 2.
  The charge for ISDN Port 2 applies to CO 3 and CO 4.
  The charge for ISDN Port 3 applies to CO 5 and CO 6.

Features Guide References

Charge Fee Reference

[021-022]   Doorphone Call Forwarding — Day/Night

Description

Assigns the phone number where doorphone calls are forwarded.
This feature is one of the ISDN service.

Selection

- Doorphone number: **1 through 3**
- Line access code: **9** or **81 through 83**
- Telephone number: **24 digits (max.)** (including a line access code)/
  Not Stored

Default

All doorphone numbers — Not Stored

Programming

1. Enter a **programme address (021 for day or 022 for night)**.

    Display example: D-phone FWD Day

2. Press **NEXT**.

    Display: D-phone NO.?→

3. Enter a **doorphone number**.

    Display example: #1:Disable

4. Enter a **line access code and a phone number**.

    To assign no forwarding, press **CLEAR**.

5. Press **STORE**.

6. To program the other doorphone, press **NEXT**.

7. Repeat steps 4 and 5.

8. Press **END**.

Conditions

- When "Disable" is selected, the call is received by the extension programmed in [607-608]   Doorphone Ringing Assignment — Day/Night.

Features Guide References

Doorphone Call Forwarding to CO Line
Day/Night Service

---

[024] Intelligent Call Handling Table

Description

Assigns the intelligent call handling table.

IMPORTANT

Please enable this feature as the first step. Otherwise, an outside call cannot be handled properly.

Selection

- System Speed Dialling and Intelligent Call Handling table number: **000 through 699** (CLIP: 000-499, DDI/MSN: 500-699)
- Intelligent Call Handling table number; Day: **01 through 60**, Night: **01 through 60**

Default

System Speed Dialling number: 000 through 499 — Not stored;

500 through 699 — Day: 01, Night: 01

Programming

1. Enter **024**.

   ```
   Display: Handling Table
   ```
2. Press **NEXT**.

   ```
   Display: SPD&CH Cod?
   ```
3. Enter a **System Speed Dialling and Intelligent Call Handling table**.

   To enter System Speed Dialling number 000, you can also press **NEXT**.

   ```
   Display example: 000:Day    Nit
   ```
4. Enter a **table number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new number.
5. Press **STORE**.
6. To program another System Speed Dialling number, press **NEXT** or **PREV**, or **SELECT** and the desired **System Speed Dialling number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- Each System Speed Dialling and Intelligent Call Handling table number consists of 3 digits, from **0 through 9**.

- One table is reserved for analogue CO calls (default: table 1 — Day/Night). Refer to [458]   Intelligent Call Handling Table for Analogue CO.

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls

[025]   Intelligent Call Handling for Fax and Modem

Description

Assigns DDI/MSN numbers for a fax and a modem.

Selection

- Location number: **1 through 8**
- DDI/MSN number (System Speed Dialling and Intelligent Call Handling location number): **500 through 699**

Default

All locations — Not stored

Programming

1. Enter **025**.

    Display: ICH FAX/MODEM NO

2. Press **NEXT**.

    Display: Location NO?→

3. Enter a **location number**.

To enter location number 01, you can also press **NEXT**.

    Display example: 01 :Not Stored

4. Enter a **DDI/MSN number (System Speed Dialling and Intelligent Call Handling location number)**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- When an outside call arrives from ISDN line, its CLIP and DDI/MSN number will be analysed in the following order.

    1. [026]   ISDN Remote Maintenance Access Number

    2. [025]   Intelligent Call Handling for Fax and Modem

    3. [001]   System Speed Dialling and Intelligent Call Handling Number Set
        — CLIP number

4. [001]   System Speed Dialling and Intelligent Call Handling Number Set
         — DDI/MSN number

- Even though a fax or a modem is not hooked up to the destination while an incoming call is received and analysed according to this programme, the call will be handled in any event.

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls

[026]   ISDN Remote Maintenance Access Number

Description

Used to program a DDI/MSN number for remote maintenance by using a personal computer.

Selection

DDI/MSN number: **32 digits (max.)**

Default

Not stored

Programming

1. Enter **026**.

   Display: ISDN RMT.MNT.NO
2. Press **NEXT**.

   Display example: Code:Not Stored
3. Enter a **DDI/MSN number**.

   To change the current entry, press **CLEAR** and the new number.
4. Press **STORE**.
5. Press **END**.

Conditions

- The number has a maximum of 32 digits, consisting of **0 through 9, ✶** and **#.**
- When an outside call arrives from ISDN line, its CLIP and DDI/MSN number will be analysed in the following order.
    1. [026]   ISDN Remote Maintenance Access Number
    2. [025]   Intelligent Call Handling for Fax and Modem
    3. [001]   System Speed Dialling and Intelligent Call Handling Number Set
       — CLIP number
    4. [001]   System Speed Dialling and Intelligent Call Handling Number Set
       — DDI/MSN number

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls
System Programming and Diagnosis with Personal Computer

[027] ISDN Remote Maintenance Access Name

Description

Assigns a name to the DDI/MSN number for remote maintenance assigned in programme [026] ISDN Remote Maintenance Access Number.

Selection

Name: **16 characters (max.)**

Default

Not stored

Programming

1. Enter **027**.

```
Display: ISDN RMT.MNT.NM
```
2. Press **NEXT**.

```
Display example: Name:Not Stored
```
3. Enter a **name**.

To change the current entry, press **CLEAR** and the new name.

4. Press **STORE**.

5. Press **END**.

Conditions

None

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls

System Programming and Diagnosis with Personal Computer

[028]   ISDN Remote Alarm Notification Dial Number

Description

Assigns the phone number of a dealer to send an alarm notice when a major alarm occurs.

Selection

Telephone number: **32 digits (max.)**

Default

Telephone number — Not stored

Programming

    1. Enter **028**.

        `Display: ISDN RMT.ARM NO`

    2. Press **NEXT**.

        `Display example: No:Not Stored`

    3. Enter a **phone number**.

        To change the current entry, press **CLEAR** and the new number.

    4. Press **STORE**.

    5. Press **END**.

Conditions

• The number has a maximum of 32 digits, consisting of **0 through 9, ✶** and **#.**

Features Guide References

System Programming and Diagnosis with Personal Computer

Section 3

System Programming

3.1 System Programming

[100] Flexible Numbering

Description

Assigns the leading digits of extension numbers and feature numbers for system features.

Flexible Feature Numbers

Number	Feature	Default
01	1st hundred extension block	2
02	2nd hundred extension block	3
03-16	3rd through 16th hundred extension block	None
17	Operator call	0
18	Automatic line access	9
19	CO line group line access	8
20	System speed dialling	✶
21	Station speed dialling	6✶
22	Station speed dialling programming	60
23	Doorphone call	68
24	Paging — external	64
25	Paging — external answer/TAFAS answer	44
26	Paging — group	63
27	Paging — group answer	43
28	Call pickup, CO line	4✶
29	Call pickup, group	40
30	Call pickup, directed	41
31	Call hold	50
32	Hold retrieve — intercom	51
33	Hold retrieve — CO line	53
34	Last number redial	#
35	Call park/call park retrieve	52
36	Account code entry	49
37	Door opener	55

Flexible Feature Numbers

Number	Feature	Default
38	External Feature Access	66
39	Station programme clear	790
40	Message waiting	70
41	External relay on	67
42	Call forwarding/Do Not Disturb	710
43	Call pickup deny	720
44	Second ringer	730
45	Call waiting/OHCA/whisper OHCA	731
46	Executive busy override deny	733
47	Pickup dialling programming	74
48	Absent message	750
49	Timed reminder	76
50	Electronic station lockout	77
51	Night service mode	78
52	Parallel telephone mode	69
53	Background music — external	65
54	Paging — deny	721
55	Primary COS select	791
56	Secondary COS select	793
57	Log-in/log-out	45
58	Operator 1 call	61
59	Operator 2 call	62
60	Automatic callback busy cancel	46
61	Personal Greeting OGM	722
62	Voice Message Play	723
63	Voice Message Delete	724
64	Direct Message Recording	725
65	CLIP Business/Private	726
66	COLP Business/Private	727
67	Call Retrieving, TAM	728
68	ISDN Service Access (Key Pad Protocol)	729

Flexible Feature Numbers

Number	Feature	Default
69	Second ringer answer	47
70	Timed reminder remote	7✻
71	Hunting Group Busy on Busy	717
72	Do not disturb for Intelligent Call Handling 1:1 calls	56
73	CLIR	57
74	COLR	58
75	Call log lock control, incoming	59
76*	Live call screening password	799
77	System working report	794
78	Reserved	—
79	Outgoing message	712
80	Malicious Call Identification	737
81	Routing	Blank
82	Call Forwarding from hunting group	714
83	Doorphone call forwarding to CO line	715
84	Doorphone call forwarding mode switch	716
85	CCBS cancel	713
86	ISDN Call Hold	5✻
87	Call forwarding to CO — Allowed No. display	711
88	Call forwarding to CO — Allowed No. registration	718
89	Call forwarding to CO — Allowed No. activation	719

* Available when the Digital Super Hybrid System is connected to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports digital proprietary telephone integration).

Selection

- Selection number:
  01 through 89 (See "Flexible Feature Numbers" above, for the corresponding features.)
- Feature number:
  1 or 2 digits (for selection numbers 01 through 16);
  1 through 3 digits (for selection numbers 17 through 89)

Default

See "Flexible Feature Numbers" above.

Programming

1. Enter **100**.

    `Display: FLX Numbering`

2. Press **NEXT**.

    `Display: Select NO?`→

3. Enter a **selection number**.

    To enter selection number 01, you can also press **NEXT**.

    `Display example: 01. 1-EXT BL:2`

4. Enter the **feature number**.

    To delete the feature number, press **CLEAR**.

    To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another selection, press **NEXT** or **PREV**, or **SELECT** and the desired **selection number**.

7. Repeat steps 4 through 6.

8. Press **END**.

To remove all the feature numbers except selection numbers (01) through (16) 1st through 16th extension blocks;

1. Enter **100**.

2. Press **NEXT**.

3. Enter **00**.

    `Display: All Feature CLR?`

4. Press **STORE**.

5. Press **END**.

Conditions

- Each extension block has 1 or 2 digits, consisting of **0 through 9.** Assign the leading digits for extension numbers of the respective blocks.
- Assignment of extension blocks defines the limits for programmes [003]　Extension Number Set, [012]　ISDN Extension Number Set, [127]　Voice Mail Extension Number Assignment, [130]　Phantom Extension Number Assignment and [813]　Floating Number Assignment.
- To clear an extension block (01) through (16), it is required to change the corresponding numbers assigned in programmes [003]　Extension Number Set, [012]　ISDN Extension Number Set, [127]　Voice Mail Extension Number Assignment, [130]　Phantom Extension Number Assignment and [813]　Floating Number Assignment.

- Each feature number has 1 through 3 digits, consisting of **0 through 9**, ✻, and **#**.
- If ✻ or **#** is included in a feature number, dial pulse telephone users cannot access the feature.
- Double entry and incompatible combinations are invalid. Valid entry example: 30 and 31, 210 and 211. Invalid entry example: 5 and 5, 30 and 301.
- If you delete a feature number, the feature cannot be used by dialling operation.
- You can remove all the feature numbers except selections (01) through (16).

Features Guide References

Flexible Numbering

[102]   Day/Night Service Starting Time

Description

Sets the starting time of day service and the starting time of night service for each day of the week, when automatic day/night switching is enabled.

Selection

- Day of the week selection number:
  1 (Sunday)/**2** (Monday)/**3** (Tuesday)/**4** (Wednesday)/
  5 (Thursday)/**6** (Friday)/**7** (Saturday)/✱(every day of the week)
- Hour: **0 through 23/Disable** (no switching)
- Minute: **0 through 59**

Default

Every day of the week — Day — 9:00/Night — 17:00

Programming

1. Enter **102**.

   ```
   Display: Day/Night Time
   ```

2. Press **NEXT**.

   ```
   Display: Day of Week?→
   ```

3. Enter the **day of the week selection number**.

   To select Sunday, you can also press **NEXT**.

   ```
   Display example: Sun-Day   :   9:00
   ```

   To select night mode, press **NEXT** one more time.

   ```
   Display example: Sun-Night: 17:00
   ```

4. Enter the **hour**.

   To set no switching, keep pressing **SELECT** until "Disable" is displayed and go to step 7.
   If **SELECT** is pressed, the display shows the previous entry. If the previous setting was "Disable", press **SELECT** to enter the starting time.
   To change the current entry, press **CLEAR** and the new time.

5. Press →.

6. Enter the **minute**.

   To change the current entry, press **CLEAR** and the new minutes.

7. Press **STORE**.

8. To program another day/night mode or day of the week, press **NEXT** or **PREV**, or **SELECT** and the **day of the week selection number**.

9. Repeat steps 4 through 10.

10. Press **END**.

Conditions

- To select the desired day, you may keep pressing **NEXT** at step 3. To assign every day of the week to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for Sunday.
- If day/night switching is unwanted, select "Disable" at step 4.
- You cannot leave the entry empty.

Features Guide References

Day/Night Service

[103]   Automatic Access CO Port Assignment

Description

Assigns the sequence in which CO ports will be accessed when in Automatic Line Access mode. When a user dials the feature number for automatic line access (default=9) or presses the L-CO button, an idle line is hunted in the programmed CO ports order.

Selection

CO port number: **1 through 4, (4: Analogue CO) 4 entries (max.) in desired order**

Default

1234

Programming

1. Enter **103**.

   ```
   Display: Auto Line Access
   ```
2. Press **NEXT**.

   ```
   Display example: Access:1234
   ```
3. Enter the **CO port numbers** in priority from top to bottom.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new order.
4. Press **STORE**.
5. Press **END**.

Conditions

There is a maximum of 4 CO ports. Up to 4 CO port numbers can be entered.

Features Guide References

Line Access, Automatic

Line Access, Direct

Line Preference — Outgoing (Idle Line/No Line/ Prime Line)

[104] Quick Dial Assignment

Description

Assigns a feature number for each quick dial location number.

Selection

- Location number: **01 through 80**
- Feature number: **4 digits (max.)**

Default

All locations — Not Stored

Programming

1. Enter **104**.

   ```
   Display: FLX Quick Dial
   ```
2. Press **NEXT**.

   ```
   Display: Location NO?→
   ```
3. Enter a **location number**.

   To enter location number 01, you can also press **NEXT**.

   ```
   Display example: Not Stored
   ```
4. Enter a **feature number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new number.
5. Press **STORE**.
6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- There is a maximum of 80 quick dial numbers. A maximum of 4 digits, consisting of **0 through 9**, ✱, and **#** can be assigned as a feature number.

Features Guide References

Quick Dialling

[105]   Account Codes

Description

Assigns the account codes for Account Code Entry, Verified – All Calls and Verified – Toll Restriction Override modes. If Verified – All Calls is assigned in programme [508]   Account Code Entry Mode, an account code is required to make an outside call. If Verified – Toll Restriction Override is assigned, an account code is only required for a toll call and overrides toll restriction.

Selection

- Location number: **01 through 64**
- Account code: **10 digits (max.)**

Default

All locations — Not Stored

Programming

1. Enter **105**.

```
Display: Account Code
```

2. Press **NEXT**.

```
Display: Location NO?→
```

3. Enter a **location number**.

To enter location number 01, you can also press **NEXT**

```
Display example: 01 :Not Stored
```

4. Enter an **account code**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new account code.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 64 verifiable account codes. Each code has a maximum of 10 digits, consisting of **0 through 9**.
- Programme [508]   Account Code Entry Mode is used to select the Account Code Entry mode.

- Account codes having "99" in any part or ending with "9" are invalid, as "99" is used as a delimiter when entering an account code.
- The location 01 of the entries is used as the account code for Private Call.

Features Guide References

Account Code Entry

Private Call

Toll Restriction Override by Account Code Entry

[106]   Station Hunting Type

Description

Used to enable or disable hunting and set the Station Hunting type for each hunting group. There are 6 Station Hunting types available: Circular, Uniform Call Distribution (UCD), Voice Mail (VM), Automated Attendant (AA), Ring, and No Reply. If circular hunting is assigned for a group, all of the extensions in the group are hunted until an idle one is found. If VM hunting is assigned, all of the VM ports of an extension group are hunted until an idle one is found to allow Voice Mail Service. If AA hunting is assigned, all of the AA ports of an extension group are hunted until an idle one is found to allow AA Service. If UCD is assigned, group members are hunted in circular way, starting at the extension following the last one called. If Ring hunting is assigned, all of the extensions in the group ring simultaneously. If No Reply hunting is assigned, the extensions in the group are hunted in order of registration for a programmed interval of time.

Selection

- Hunting group number: **01-32**
- **Disable/Circular/VM/AA/UCD/RING/No Reply**

Default

All hunting groups — Disable

Programming

1. Enter **106**.

   ```
   Display: Hunt Type
   ```
2. Press **NEXT**.

   ```
   Display: Group NO?→
   ```
3. Enter a **hunting group number**.

   To enter hunting group number 1, you can also press **NEXT**.

   ```
   Display example: 01:Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another hunting group, press **NEXT** or **PREV**, or **SELECT** and the desired **hunting group number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- If you want to receive a call at ISDN extensions, you have to assign No Reply hunting, otherwise you cannot receive the call.

- The system supports a maximum of 2 jacks for connection to a Voice Processing System as VM or AA ports.

Features Guide References

Hunting Group
Ring Group
No Reply Group
Station Hunting
Uniform Call Distribution (UCD)
Voice Mail Integration

[107]   System Password

Description

Assigns the password required for entering System Programming mode and for maintenance from a personal computer.

<u>Warning</u>

Warning to the dealer regarding the system password.

a) Please thoroughly inform the importance of the password and the dangers involved to the customer.

b) Please maintain the secrecy of the password. Because a person who knows the password can easily take over the control of any PBX system in the market and he may proceed to commit toll fraud.

c) Please change the password periodically.

d) We strongly recommend that you set the system password to 7 digits for maximum protection against "hackers".

e) You have to take the following measures to find the system password, when you forget the password. Therefore, please never forget the password.
— If you have the backup system data, you can find the password by loading the backup system data to your PC and check the password with programming screen.
— If you don't have the backup system data, you have to program again.

Selection

Password: **4 through 7 digits**

Default

1234

Programming

1. Enter **107**.

```
Display: System Password
```

2. Press **NEXT**.

```
Display: Password:1234
```

3. Enter a **password**.

To change the current entry, press **CLEAR** and the new password.

4. Press **STORE**.

5. Press **END**.

Conditions

- The password can be from 4 to 7 digits long. The valid numbers are from **0 through 9**.

- You cannot leave the entry empty.

Features Guide References

System Programming and Diagnosis with Personal Computer

System Programming with Digital Proprietary Telephone

[108]   One-Touch Transfer by DSS Button

Description

Enables or disables the function of automatically holding the outside call when a DSS button on the digital DSS console/digital attendant console or digital proprietary telephone is pressed.

Selection

Enable/Disable

Default

Enable

Programming

1. Enter **108**.

   ```
   Display: DSS Auto Hold
   ```
2. Press **NEXT**.

   ```
   Display example: Auto HLD:Enable
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

One-Touch Transfer by DSS Button

[110]   Network Type Assignment

Description

Assigns the type of ISDN network.

Selection

BT / EURO-BT

Default

BT

Programming

1. Enter **110**.

    Display: Network Type

2. Press **NEXT**.

    Display example: BT

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

- After this assignment, you should reset the system so that this assignment is effective.

Features Guide References

Integrated Services Digital Network (ISDN)
Integrated Services Digital Network (ISDN) Extension

[113]   Voice Mail Status DTMF Set

Description

Note

Disregard this programming if you have digital proprietary telephone (DPT) integration between your PBX and Voice Processing System (VPS).

Sets the DTMF signals transmitted to your Voice Processing System (VPS) to inform the VPS of the VPS ports states quickly.

The following signals are sent to the VPS with the assigned DTMF signals:

RBT (ringback tone)	: This signal is sent when calling an extension.
BT (busy tone)	: This is sent when the called extension is busy.
ROT (reorder tone)	: This is sent when the dialled number is invalid.
DND (DND tone)	: This is sent when the other extension has DND assigned.
Answer	: This is sent when the other extension answers the call.
Disconnect	: This is sent when the other extension hangs up.
Confirm (confirmation tone)	: This is sent when the feature number for "Message Waiting Lamp" is valid.
FWD VM RBT (FWD to Voice Mail (VM) ringback tone)	: Not available (reserved).
FWD VM BT (FWD to VM busy tone)	: This is sent when the called extension has set Call Forwarding to VPS.
FWD EXT RBT (FWD to extension ringback tone)	: Not available (reserved).

Selection

- **RBT/BT/ROT/DND/Answer/Disconnect/Confirm/FWD VM RBT/FWD VM BT/ FWD EXT RBT**
- DTMF signal number: **3 digits (max.)**

Default

RBT — 1; BT — 2; ROT — 3; DND — 4;

Answer — 5; Disconnect — #9; Confirm — 9; FWD VM RBT — 6;

FWD VM BT — 7; FWD EXT RBT — 8

Programming

1. Enter **113**.

```
Display: VM Status Set
```

2. Press **NEXT** to program ringback tone status.

To program another status, keep pressing **NEXT** or **PREV** until the desired status is displayed.

```
Display example: RBT    :1
```

3. Enter a **DTMF signal number**.

To delete the current entry, press **CLEAR**.
To change the current entry, press **CLEAR** and the new number.

4. Press **STORE**.

5. To program another selection, keep pressing **NEXT** or **PREV** until the desired selection is displayed.

6. Repeat steps 3 through 5.

7. Press **END**.

Conditions

- A DTMF signal number can have a maximum of 3 digits, consisting of **0 through 9**, ✳, **#** and **PAUSE**.
- The DTMF signals are sent to the extensions in the extension groups that are assigned as "Voice Mail" or "Automated Attendant" in programme [106] Station Hunting Type.

Features Guide References

Voice Mail Integration

[114] Voice Mail Command DTMF Set

Description

Note

Disregard this programming if you have digital proprietary telephone (DPT) integration between your PBX and Voice Processing System (VPS).

Sets the DTMF command signals transmitted to your Voice Processing System (VPS). There are 4 commands available: Leave Message; Get Message; Automated Attendant (AA) Service; Voice Mail Service. These commands are used in the following ways:

(A) If your VPS is used for Voice Mail (VM) Service

1. Call Forwarding/Intercept Routing to Voice Mail
If a call is forwarded to the VPS, your system will send a mailbox number to the VM port. This allows the caller to leave a message without knowing the mailbox number.

- Required entries (selections):
  LV-MSG (Leave Message): This command is transmitted to a VM port if a call is forwarded or intercepted and rerouted to the port.
  AA-SVC (Automated Attendant Service): If AA Service is effective in programme [990] System Additional Information, Area 05 – bits 2 and 3, the "AA-SVC" command is sent to a VM port if an incoming outside call is answered by the VM port.

- Other programming required (programme addresses): [106] Station Hunting Type; [602] Extension Group Assignment; [609] Voice Mail Access Codes; [990] System Additional Information, Area 05 — bits 2 and 3; [990] System Additional Information, Area 02 — bit 8

2. Hearing the message at the extension
If the VPS receives a message and lights the MESSAGE button indicator of the concerned telephone, the telephone user can hear the message by pressing the MESSAGE button.

- Required entries (selections):
  GETMSG (Get Message): This command is transmitted to a VM port when the message receiver presses the MESSAGE button.
  VM-SVC (Voice Mail Service): The "VM-SVC" command is a code transmitted preceding the "GETMSG" command above. This is effective to switch to VM port when an AA port lights the MESSAGE indicator.

- Other programming required (programme addresses): [609] Voice Mail Access Codes; [990] System Additional Information, Area 02 — bit 8

(B) If your VPS is used for Automated Attendant (AA) Service
An AA port answers an incoming outside call to provide AA services, such as call transfer, receiving a message.

- Required entries (selections):
  VM-SVC (Voice Mail Service): The "VM-SVC" command is a code transmitted before "LV-MSG" code 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.

- Other programming required (programme addresses): [106] Station Hunting Type, [602] Extension Group Assignment

Selection

- **LV-MSG/GETMSG/AA-SVC/VM-SVC**
- DTMF signal number: **16 digits (max.)**

Default

LV-MSG — H; GETMSG — *H; AA-SVC — #8 ; VM-SVC — #6

Programming

1. Enter **114**.

    Display: VM Command Set

2. Press **NEXT** to program the "LV-MSG" command.

To program another command, keep pressing **NEXT** until the desired command is displayed.

    Display example: LV-MSG:H

3. Enter a **DTMF signal number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

4. Press **STORE**.

5. To program another selection, keep pressing **NEXT** or **PREV** until the desired selection is displayed.

6. Repeat steps 3 through 5.

7. Press **END**.

Conditions

- A command signal number can have a maximum of 16 digits, consisting of **0 through 9**, ✳, **#, FLASH** and **PAUSE**.
- The **FLASH** button is available only for "LV-MSG" and "GETMSG" commands to store "H" which means "Home Position".
- If "H" is stored for "LV-MSG", a mailbox number programmed in programme [609]   Voice Mail Access Codes or an extension number will be sent to the VM port (Follow On ID function). If certain codes are required before and after the ID code, insert "H" between the codes, as "aaaHbbb". If nothing is stored, it will operate as "H".
- If "✳H" is stored for "GETMSG", a mailbox number programmed in programme [609]   Voice Mail Access Codes or an extension number will be sent to the port succeeding the ✳.
- To display parts of the number which have scrolled off the display, press → or ←.

Features Guide References

Voice Mail Integration

---

[116]   Software Version Display

Description

Confirms the version of the software of the system.

Display example:

```
Q301AA00101/1.00
```

Programme No.   Date   Version

Selection

Not applicable

Default

Not applicable

Programming

1. Enter **116**.

```
Display: ROM Version
```

2. Press **NEXT**.

The display shows the ROM version.

3. Press **END**.

Conditions

None

Features Guide References

None

[117]   Charge Display Selection

Description

Assigns the initial display format of charge fee.

Selection

Meter/Currency

Default

Currency

Programming

1. Enter **117**.

```
Display: Charge Meter
```

2. Press **NEXT**.

```
Display example: £
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

• The currency is assigned in programme [125]   Currency Assignment.

Features Guide References

Charge Fee Reference
Display, Call Information

[118]   Charge Verification Assignment

Description

Assigns the extension which can refer to or clear the call information on an extension basis, CO line basis, department code basis, account code basis, or total basis. This feature is not available for XDP extensions.

Selection

- Jack number: **1-8**
- **Enable/Disable**

Default

All jacks — Enable

Programming

1. Enter **118**.

   Display: Charge Refer EXT

2. Press **NEXT**.

   Display: Jack NO?→

3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   Display example: #1:Enable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Press **END**.

Conditions

- To assign all jack numbers to one selection, press the ✶ key at step 3.
  In this case, the display shows the contents programmed for Jack1.

Features Guide References

Charge Fee Reference

[119] Charge Verification ID Code Set

Description

Assigns an ID code required to refer the charge information. Please see User Manual, 4.1.4 Charge Fee Management [Pre-assigned extension only] for actual use of this ID code.

Selection

4 digits (0000 through 9999)

Default

1234

Programming

1. Enter **119**.

   ```
   Display: Charge ID Code
   ```
2. Press **NEXT**.

   ```
   Display example: Code:1234
   ```
3. Enter an **ID code**.

   To delete the current entry, press **CLEAR**.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

Charge Fee Reference

[120]   User Password

Description

Assigns the password required for entering the Manager Programming mode.
In the Manager Programming Mode, programming [000] through [024] can be set at any digital proprietary telephone with display.

Selection

Password: **4 through 7 digits**

Default

1234

Programming

1. Enter **120**.

   ```
   Display: User Password
   ```

2. Press **NEXT**.

   ```
   Display example: Password:1234
   ```

3. Enter a **password**.

   To change the current entry, press **CLEAR** and the new password.

4. Press **STORE**.

5. Press **END**.

Conditions

- The password can be from 4 to 7 digits long. Valid numbers are from **0 through 9**.
- If less than 4 digits are entered, they are not stored.
- You cannot leave the entry empty.

Features Guide References

None

[121]   Pulse Dial Reception Assignment

Description

Assigns whether the pulse dial from the extension can be received or not by the system.

Selection

Enable/Disable

Default

Enable

Programming

1. Enter **121**.

   ```
   Display: Ext Pulse Dial
   ```
2. Press **NEXT**.

   ```
   Display example: Ext Puls:Enable
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

Mixed Station Capability

[122] Automatic Door Open Assignment

Description

Assigns whether the door is automatically unlocked or not, when pressing Call button.

Selection

- Doorphone number: **1 through 3**
- **Enable/Disable**

Default

All doorphone numbers—Disable—Day/Night

Programming

1. Enter **122**.

   ```
   Display: Auto Door Open
   ```
2. Press **NEXT** to program D1–Day.

   To program another status, keep pressing **NEXT** until the desired one is displayed.

   ```
   Display example: D1- Day   :Disable
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. To program another selection press **NEXT** or **PREV** until the desired selection is displayed.
6. Repeat steps 3 and 4.
7. Press **END**.

Conditions

This programming is applied to the doorphone which provides the door opener.

Features Guide References

Door Opener

[125]   Currency Assignment

Description

Assigns the currency required for your country.

Selection

3 characters (max.)

Default

Pound*

Programming

1. Enter **125**.

```
Display: Currency
```

2. Press **NEXT**.

```
Display example: Currency:£
```

3. Enter a **currency**.

To delete the current entry, press **CLEAR**.
To change the current entry, press **CLEAR** and enter the new currency.
To enter characters, see Section 1.4   Entering Characters.

4. Press **STORE**.

5. Press **END**.

Conditions

• You can display a currency unit before or after the number. Refer to [990]   System Additional Information, Area 09 — Bit 12.

Note

* The actual display of the default currency is "£ ". It is not spelled out as "Pound".

Features Guide References

Display, Call Information

[126]   Voice Mail Number Assignment

Description

This programme is available when you connect your KX-TD612 to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports DPT Integration). This programme assigns the PBX jack that will carry data to and from the VPS.

Note

This programme should be used before connecting the VPS. After this programme, [127]   Voice Mail Extension Number Assignment and [003]   Extension Number Set have been performed, start programming the VPS. If you are connecting a VPS for the first time, system reset is recommended (DIP switch position 5). Then to create mailboxes for AA service, use DIP switch position 2. Or to create mailboxes for VM service, use DIP switch position 3. DPT Integration is very simple.

Selection

- Jack number: **2-4** (max. 2)

Default

All jacks — Blank

Programming

1. Enter **126**.

   Display: VPS Port Asn
2. Press **NEXT**.

   Display example: JackNo # #
3. Enter a **jack number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new jack number.
4. Press ➡ to enter another jack number.
5. Repeat steps 3 through 4 to enter another jack number.
6. Press **STORE**.
7. Press **END**.

Conditions

- A maximum of 2 jacks can be assigned; and each jack supports 2 voice mail channels.
- Neither Jack number 1 nor the manager extension can be assigned as a voice mail port jack.

- The jack numbers correspond to the voice mail port in numerical order. Example: Stored jack numbers: Jacks 2, 3
  Jack 2=Voice mail numbers 01, 02; Jack 3=Voice mail numbers 03, 04

Features Guide References

Voice Mail Integration for Digital Proprietary Telephones

[127]   Voice Mail Extension Number Assignment

Description

This programme is available when you connect your KX-TD612 to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports DPT Integration). This programme assigns the extension numbers for the voice mail numbers (channels). These numbers can be used in the same way extension numbers are used for station access.

Selection

- Voice mail number (VM): **01 through 04**
- Extension Number: **2 through 4 digits**

Default

VM-01=265, VM-02=266,
VM-03=267, VM-04=268,

Programming

1. Enter **127**.

   ```
   Display: VM EXT NO. Set
   ```
2. Press **NEXT**.

   ```
   Display: VM NO?→
   ```
3. Enter a **voice mail number**.

   To enter voice mail number 01, you can also press **NEXT**.

   ```
   Display: VM-01:#02-1:265
   ```
4. Enter an **extension number**.

   To change the current entry, press **CLEAR** and enter the new number.
5. Press **STORE**.
6. To program another voice mail number, press **NEXT** or **PREV**, or **SELECT** and the desired **voice mail number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- You cannot leave an entry empty.
- Double entries and incompatible entries for extension numbers are invalid.
  To avoid making an invalid entry, check the other extension numbers in programmes [003]   Extension Number Set, [012]   ISDN Extension Number Set, [130]   Phantom Extension Number Assignment and [813]   Floating Number Assignment.

- The display shows "VM-XX:#YY-1:ZZZ" in step 3.
  "XX" means the voice mail number. "YY" means the jack number of the voice mail port programmed in [126]   Voice Mail Number Assignment.
  "-1" of YY-1 means the first part of jack number in digital line.
  YY-2 means the second number of the jack number in digital line.

Features Guide References

Voice Mail Integration for Digital Proprietary Telephones

[128]   Voice Mail Extension Group Assignment

Description

This programme is available when you connect your KX-TD612 to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports DPT Integration). This programme assigns each operational voice mail number to a voice mail extension group.

Note

You should first perform [126]   Voice Mail Number Assignment.

Selection

- Voice mail number (VM): **01 through 04**
- Voice mail extension group number (EXG): **1 through 4**

Default

All voice mail numbers — EXG 1

Programming

1. Enter **128**

     Display: VM EXT Group Asn

2. Press **NEXT**.

     Display: VM NO?→

3. Enter a **voice mail number**.

    To enter voice mail number 01, you can also press **NEXT**.

     Display example: VM-01:#02-1:EXG1

4. Enter the **voice mail extension group number**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, enter the new number.

5. Press **STORE**.

6. To program another voice mail number, press **NEXT** or **PREV**, or **SELECT** and the desired **voice mail number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- The display shows "VM-XX:#YY-1:EXG Z" in step 3.
  "XX" means a voice mail number. "YY" means the jack number of the voice mail port programmed in [126]   Voice Mail Number Assignment.

"-1" of YY-1 means the first part of jack number in digital line.
"YY-2" means the second part of the jack number in digital line.

- To assign all voice mail numbers to one selection, press the ✶ key in step 3. In this case, the display shows the contents programmed for voice mail number 01.

Features Guide References

Voice Mail Integration for Digital Proprietary Telephones

[129]   Operator Queue

Description

Assigns the limited number of the queue and the number of the Hurry-Up.

Selection

- Queue: **0 through 6**
- Number of Hurry-Up: **0 through 6**

Default

Queue: 6, Hurry-Up No.: 3

Programming

1. Enter **129**.

    Display: Operator Queue

2. Press **NEXT**.

    Display example: Queue:6,H-UP :3

3. Enter a **queue**.

To change the current entry, press **CLEAR** and the new number.

4. Press ➡.

5. Enter a **number of Hurry-Up**.

To change the current entry, press **CLEAR** and the new number.

6. Press **STORE**.

7. Press **END**.

Conditions

- The number of Hurry-Up should not be more than the number of the queue.

Features Guide References

Automatic Overflow and Hurry-Up Transfer

[130]   Phantom Extension Number Assignment

Description

Assigns the phantom extension number.

Selection

- Location number: **01 through 16**
- Phantom extension number: **2 to 4 digits**

Default

All locations — Not Stored

Programming

1. Enter **130**.

    Display: Phantom NO.

2. Press **NEXT**.

    Display: Location NO?→

3. Enter a **location number**.

    To enter location number 01, you can also press **NEXT**.

    Display example: 01 :Not Stored

4. Enter a **phantom extension number**.

    To delete the current entry, press **CLEAR**

    To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 16 phantom numbers. Each number has 2 to 4 digits, consisting of numbers **0 through 9**.
- The first 1 or 2 digits of the phantom extension numbers are subject to program [100]   Flexible Numbering, (01) through (16) 1st through 16th hundred extension blocks.
- Phantom extension numbers and other extension numbers should be unique. Double entry and incompatible entry for these numbers are invalid. Valid entry examples are: 10 and 11, 10 and 110. Invalid entry examples are: 10 and 106, 210 and 21.

- To avoid making an invalid entry, check the other extension numbers in programmes [003]   Extension Number Set, [012]   ISDN Extension Number Set, [127]   Voice Mail Extension Number Assignment, and [813]   Floating Number Assignment.

Features Guide References

Phantom Extension

[131]   Hunting Group Assignment

Description

Assigns extensions to hunting groups. An incoming call is hunted in the order of registration except for Ring hunting.

Selection

- Hunting group number: **01 through 32**
- Extension number: **2 through 4 digits, 12 numbers (max.)/Disable** (No entry)

Default

All hunting groups — Disable

Programming

1. Enter **131**.

```
Display: Hunt Group Asn
```

2. Press **NEXT**.

```
Display: Group NO?→
```

3. Enter a **hunting group number**.

To enter hunting group number 01, you can also press **NEXT**.

```
Display example: 01:01:Disable
```

4. Enter an **extension number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another extension to the same group, press **NEXT** and repeat steps 4 and 5.

7. To program another hunting group, press **SELECT** and repeat steps 3 through 6.

8. Press **END**.

Conditions

- One extension can belong to more than 1 hunting group simultaneously.
- You can assign extension numbers assigned in the following programmes to a hunting group:
  [003]   Extension Number Set
  [012]   ISDN Extension Number Set
- You can assign the floating number of the Ring hunting group for No Reply hunting.
- In other cases, floating numbers cannot be assigned.

- It is possible to assign the ISDN extension numbers. In this case, the MSN additional number can be added. The MSN must be up to 4 digits, consisting of an ISDN extension number and an additional number (1 or 2 digits). The MSN additional number digit can be selected in programmes [427] ISDN Extension Multiple Subscriber Number.
- An ISDN extension in a hunting group will only ring if the type of the hunting group is No Reply.

Features Guide References

Hunting Group
Station Hunting

[132]   Hunting Group Name Assignment

Description

Assigns a hunting group name to the hunting group. When an incoming outside call is received, the assigned name and the extension number of the group are displayed on the LCD.

Selection

- Hunting group number: **01 through 32**
- Name: **16 characters (max.)**

Default

All hunting groups — Not Stored

Programming

1. Enter **132**.

    Display: Hunt Group Name

2. Press **NEXT**.

    Display: Group NO?→

3. Enter a **hunting group number**.

   To enter hunting group number 01, you can also press **NEXT**.

    Display example: 01:Not Stored

4. Enter a **name**.

   For entering characters, see Section 1.4   Entering Characters.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new name.

5. Press **STORE**.

6. To program another group, press **NEXT** or **PREV**, or **SELECT** and the desired **hunting group number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

None

Features Guide References

Hunting Group
Station Hunting

[133]   Hunting Overflow

Description

Assigns the length of a queue and the management of an incoming call when the queue is full. There are 3 types of management mentioned below:

Overflow: When the queue is full, a new incoming call is transferred to the Intercept destination for the group. If the length of the queue is assigned as "0" and all extensions are busy or logged out, the call is transferred to the Intercept destination for the group.

Busy Tone: This assignment is available only when the call is made through an ISDN line or intercom call. If the queue is full, a busy tone is sent to a caller. If the length of the queue is assigned as "0" and all extensions are busy or logged out, a busy tone is sent to the caller.

No: As the queue is treated as infinite, overflow will not occur and a busy tone will not be sent. The call will be kept waiting until an extension in the group becomes idle (or logs in) or until the intercept timer expires (the intercept destination will then ring). IRNA starts.

Selection

- Hunting group number: **01 through 32**
- Call management: **OVF** (Overflow)/**Busy** (Busy Tone)/**No**
- The length of the queue: **0 through 8, 1 digit**

Default

All hunting groups — Busy, 0

Programming

1. Enter **133**.

```
Display: Hunt Overflow
```

2. Press **NEXT**.

```
Display: Group NO?→
```

3. Enter a **hunting group number**.

To enter hunting group number 01, you can also press **NEXT**.

```
Display example: 01:Busy ,0
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press ➡ .

6. Enter the **length of the queue**.

To change the current entry, press **CLEAR** and the new number.

---

7. Press **STORE**.

8. To program another group, press **NEXT** or **PREV**, or **SELECT** and the desired **hunting group number**.

9. Repeat steps 4 through 6.

10. Press **END**.

Conditions

None

Features Guide References

Hunting Group
Intercept Routing
Station Hunting

[134-135]   Hunting Intercept — Day/Night

Description

Sets the Intercept destination in both day and night modes for each hunting group.

Selection

- Hunting group number: **01 through 32**
- Extension number: **2 through 4 digits**/**Disable** (no Intercept Routing)

Default

All hunting groups – Disable — Day/Night

Programming

1. Enter a **programme address (134 for day or 135 for night)**.

   `Display example: Hunt Intercp Day`

2. Press **NEXT**.

   `Display: Group NO?→`

3. Enter the **hunting group number**.

   To enter hunting group number 01, you can also press **NEXT**.

   `Display example: 01:Disable`

4. Enter an **extension number**.

   To change the current entry, press **CLEAR** and the new number.

   To disable Intercept Routing, press **CLEAR**.

5. Press **STORE**.

6. To program another hunting group, press **NEXT** or **PREV**, or **SELECT** and the desired **hunting group number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- You can set the extension numbers in programmes [003]   Extension Number Set, [012]   ISDN Extension Number Set, [127]   Voice Mail Extension Number Assignment, [130]   Phantom Extension Number Assignment and also floating numbers of the second ringer, hunting groups, and pagers in programme [813]   Floating Number Assignment.

Features Guide References

Intercept Routing

[137-138] Time Table Assignment — Day/Night

Description

Assigns the Time Table to be used when all extensions are busy in the Hunting Group (Ring, No Reply, UCD).

Selection

- Hunting Group number: **01 through 32**
- Time Table number: **1 through 4**

Default

All Hunting Groups — Not Stored

Programming

1. Enter a **programme address (137 for day or 138 for night)**.

   Display example: UCD T.Table Day

2. Press **NEXT**.

   Display: Group NO?→

3. Enter a **Hunting Group number**.

   To enter Hunting Group number 1, you can also press **NEXT**.

   Display example: UCD01:Not Stored

4. Enter a **Time Table number**.

   Display example: UCD01:1

5. Press **STORE**.

6. Press **END**.

Conditions

- If the Time Table is not assigned, the system will not answer the call and waits for an extension to become idle. When an extension becomes free, rings, but is not answered. Intercept Routing — No Answer (IRNA) will be employed.

Features Guide References

No Reply Group
Ring Group
Uniform Call Distribution (UCD)

[139]   Time Table

Description

Assigns the queuing sequence in the Time Table for Ring, No Reply, and UCD hunting groups. The queuing sequences are as follows:

S1	: Sends the outgoing message Built-in Voice Message (BV) 1.
S2	: Sends the outgoing message BV2.
S3	: Sends the outgoing message BV3.
S4	: Sends the outgoing message BV4.
S5	: Sends the outgoing message BV5.
S6	: Sends the outgoing message BV6.
S7	: Sends the outgoing message BV7.
S8	: Sends the outgoing message BV8.
S9	: Sends the outgoing message BV9.
TR	: Transfers to the overflow extension.
RT	: Returns to the top of the sequence.
1T	: Timer — 16 seconds
2T	: Timer — 32 seconds
3T	: Timer — 48 seconds
4T	: Timer — 64 seconds
Blank	: Disconnects.

Selection

- Time Table number: **1 to 4**
- **S1/S2/S3/S4/S5/S6/S7/S8/S9**
  TR/RT/1T/2T/3T/4T/Blank

Default

All time tables — Blank

Programming

1. Enter **139**.

```
Display: UCD T.Table
```
2. Press **NEXT**.

```
Display: Table NO?→
```

3. Enter a **Time Table number**.

To enter Time Table number 1, you can also press **NEXT**.

```
Display example: 1:  →  →  →  →
```

4. Keep pressing **SELECT** until the desired selection is displayed.

```
Display example: 1:S4→  →  →  →
```

5. Press ➡.

6. Repeat steps 4 and 5.

7. Press **STORE**.

8. Press **END**.

Conditions

- "Sx" can be assigned in the second to the fifth positions only when "Sx" is assigned in the first position.
- An assignment after "TR," "RT" or "Blank" is not available.
- You can change the returning point when selecting **RT** from top to second in programme [990]   System Additional Information — Area 09, bit 3 through 6.
- If you want to send a BV message (S1, S2, etc.), you need to set the following:
  [133]   Hunting Overflow (Relevant hunting group to "No" or "More than One Queuing".)
  [134-135]   Hunting Intercept — Day/Night (Relevant handling table to some extensions.)
  [456]   Call Handling When All Busy (Relevant handling table to "Queuing".)
- When a call arrives through the analogue CO line and is handled by the UCD Time Table, even though the calling party hangs up, the call will not be disconnected, but will keep on ringing. To avoid this, be sure to assign "Blank" (or "Unused" when programming by PC programming software) to the corresponding sequence of the UCD Time Table.

Features Guide References

No Reply Group
Ring Group
Uniform Call Distribution (UCD)

[140]   Phantom Extension Name

Description

Assigns the phantom extension names.

Selection

- Location number: **01 through 16**
- Phantom extension name: **16 characters (max.)**

Default

All locations — Not stored

Programming

1. Enter **140**.

   ```
   Display: Phantom Name
   ```

2. Press **NEXT**.

   ```
   Display: Location NO?→
   ```

3. Enter a **location number**.

   To enter location number 01, you can also press **NEXT**.

   ```
   Display example: 01:Not Stored
   ```

4. Enter a **phantom extension name**.

   To enter characters, see Section 1.4 Entering Characters.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new name.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 16 phantom extension names. Each name can have a maximum of 16 characters.

Features Guide References

Phantom Extension

---

[141]   Off-Hook Monitor

Description

Enables or disables the ability to perform the off-hook monitor.

Selection

Enable/Disable

Default

Enable

Programming

1. Enter **141**.

   ```
   Display: Off-Hook Monitor
   ```

2. Press **NEXT**.

   ```
   Display example: Monitor:Enable
   ```

3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

• This feature is only available for KX-T7431, KX-T7433 and KX-T7436.

Features Guide References

Off-Hook Monitor

[143]   CCBS Feature

Description

Enables or disables the Completion of Calls to Busy Subscriber (CCBS) function.

Selection

Disable

Default

Disable

Programming

1. Enter **143**.

   ```
   Display: CCBS
   ```
2. Press **NEXT**.

   ```
   Display: CCBS :Disable
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

Completion of Calls to Busy Subscriber (CCBS)

[144] Hunting Group Busy on Busy

Description

Decides the maximum number of busy extension for Busy on Busy feature.

Selection

Hunting group number: **01 through 32**
The maximum number of busy extension: **0 through 8**

Default

All hunting group — 0

Programming

1. Enter **144**.

    Display: H/G Busy on Busy

2. Press **NEXT**.

    Display: Group NO?→

3. Enter a **hunting group number**.

    To enter a hunting group number 01, you can also press **NEXT**.

    Display: 01:0

4. Enter the **maximum number of busy extension**.

    Display: 01:1

5. Press **STORE**.

6. Press **END**.

Conditions

If you set **0** as the number of busy extension, this function will be disabled. The calls will reach to an idle extension in the hunting group.

Features Guide References

Hunting Group

[145]   Second Ringer For Doorphone Assignment

Description

This selection (when enabled) allows the Second Ringer to ring only when a Doorphone call arrives.

Selection

- Doorphone number: **1 through 3**
- **Enable/Disable**

Default

All doorphone numbers—Enable—Day/Night

Programming

1. Enter **145**.

    ```
    Display: 2nd Ringer DPH
    ```

2. Press **NEXT** to program DPH1 Day.

    To program another status, keep pressing **NEXT** until the desired one is displayed.

    ```
    Display example: DPH1 Day :Enabl
    ```

3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. To program another selection press **NEXT** or **PREV** until the desired selection is displayed.
6. Repeat steps 3 and 4.
7. Press **END**.

Conditions

If "Disable" is selected in this programme while an extension sets to ring a Second Ringer, the Second Ringer will not ring when a call from a doorphone is made.

Features Guide References

Doorphone Call
Second Ringer

Section   4

Timer Programming

4.1   Timer Programming

[200]   Hold Recall Time

Description

Assigns the length of the hold recall timer. This timer is used to alert an extension that a call has been held for an extended period of time.

Selection

Time (seconds): **0 through 240**

Default

60 s

Programming

1. Enter **200**.

```
Display: Hold Recall Time
```

2. Press **NEXT**.

```
Display example: Time: 60 sec
```

3. Enter the **time**.

To change the current entry, press **CLEAR** and the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

- Select "0" if Hold Recall is not required.
- You cannot leave the entry empty.

Features Guide References

Hold Recall

[201]   Transfer Recall Time

Description

Sets the number of rings before the transfer recall occurs. If a transferred call is not answered before the programmed number of rings, the call returns to the original caller or to an operator.

Selection

Number of rings: **3 through 48**

Default

12 rings

Programming

1. Enter **201**.

   Display: Transfer Recall

2. Press **NEXT**.

   Display example: Time:12 rings

3. Enter the **number of rings**.

   To change the current entry, press **CLEAR** and the new number of rings.

4. Press **STORE**.

5. Press **END**.

Conditions

- One ring is equivalent to 5 seconds.
- You cannot leave the entry empty.

Features Guide References

Call Transfer, Unscreened — to Extension

[202]   Call Forwarding — No Answer Time

Description

Sets the number of rings for the Call Forwarding — No Answer feature. If a call is not answered before the programmed number of rings, the call is forwarded to the destination. This timer is also used for the "No Reply Group" feature; if an extension is not answered within the specified time, the call goes to the next extension.

Selection

Number of rings: **1 through 12**

Default

3 rings

Programming

1. Enter **202**.

    Display: No Answer Time

2. Press **NEXT**.

    Display example: Time: 3 rings

3. Enter the **number of rings**.

To change the current entry, press **CLEAR** and the new number of rings.

4. Press **STORE**.

5. Press **END**.

Conditions

* One ring is equivalent to 5 seconds.
* You cannot leave the entry empty.

Features Guide References

Call Forwarding — Busy/No Answer
Call Forwarding — No Answer
No Reply Group

[203]   Intercept Time

Description

Sets the number of rings for the Intercept Routing – No Answer (IRNA) feature. If a call is not answered before the programmed number of rings, the call is redirected to the programmed station.

Selection

Number of rings: **1 through 48**

Default

12 rings

Programming

1. Enter **203**.

    ```
    Display: Intercept Time
    ```

2. Press **NEXT**.

    ```
    Display example: Time: 12 rings
    ```

3. Enter the **number of rings**.

    To change the current entry, press **CLEAR** and the new number of rings.

4. Press **STORE**.

5. Press **END**.

Conditions

- One ring is equivalent to 5 seconds.
- Intercept destinations are set on a handling table number basis in [457]   Intercept Extension.
- If the original extension has set Call Forwarding – No Answer, Intercept Timer starts after the Call Forwarding.
- You cannot leave the entry empty.

Features Guide References

Intercept Routing

---

[204] Pickup Dial Waiting Time

Description

Sets the number of seconds for Pickup Dialling. If the telephone user lifts the handset, the programmed party is called when the time expires.

Selection

Time (seconds): **0 through 8**

Default

1 s

Programming

1. Enter **204**.

```
Display: Pickup Dial Time
```

2. Press **NEXT**.

```
Display example: Time: 1 sec
```

3. Enter the **time**.

To change the current entry, enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

This time gives the user an opportunity to dial digits before the automatic dialling process occurs.

Features Guide References

Pickup Dialling

[205] Extension-to-Outside Line Call Duration Time

Description

Sets the maximum time allowed for a conversation with an outside party. If an outside call is originated or answered by a programmed extension user and the timer expires, the call is disconnected.

Selection

Time (minutes): **1 through 64**

Default

10 min

Programming

1. Enter **205**.

   ```
   Display: CO Dur. Time
   ```
2. Press **NEXT**.

   ```
   Display example: Time:10 min
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

- This time-out applies to extensions to which limited call duration is assigned by programme [502] Extension-to-CO Call Duration Limit.
- This time cannot be set to zero or be left empty.

Features Guide References

None

[206]   Outside-to-Outside Line Call Duration Time

Description

Sets the maximum time allowed for a conversation between two outside parties. When the timer expires, the outside-to-outside line call is disconnected.

Selection

Time (minutes): **1 through 64**

Default

10 min

Programming

1. Enter **206**.

        Display: CO-CO Dur. Time

2. Press **NEXT**.

        Display example: Time:10 min

3. Enter the **time**.

    To change the current entry, press **CLEAR** and enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

• You cannot leave the entry empty.

Features Guide References

Call Forwarding — to CO Line, All Calls
Call Transfer, Screened — to CO Line
Call Log, Incoming
Direct Inward System Access (DISA)

[207] First Digit Time

Description

Sets the maximum time allowed between the start of outside dial tone and the first digit dialled on an outgoing outside call. If an extension user fails to dial any digits during this time, the DTMF receiver is released.

Selection

Time (seconds): **5 through 120**

Default

10 s

Programming

1. Enter **207**.

    Display: 1st Digit Time

2. Press **NEXT**.

    Display example: Time: 10 sec

3. Enter the **time**.

    To change the current entry, press **CLEAR** and the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

- This timer is used for toll restriction checking.
- You cannot leave the entry empty.

Features Guide References

Toll Restriction

[208]   Inter Digit Time

Description

Assigns the maximum time allowed between digits on an outgoing toll call. If an extension user fails to dial any digits during this time, the DTMF receiver is released. This timer applies until the Toll Restriction check is completed.

Selection

Time (seconds): **5 through 30**

Default

10 s

Programming

1. Enter **208**.

   ```
   Display: Inter Digit Time
   ```
2. Press **NEXT**.

   ```
   Display example: Time: 10sec
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

- This timer is used for toll restriction checking.
- You cannot leave the entry empty.

Features Guide References

Toll Restriction

[209]   Automatic Redial Repeat Times

Description

Sets the number of times Automatic Redial is tried. Automatic redialling of the last dialled or saved number is done up to the specified number of times.

Selection

Number of times: **1 time through 12 times**

Default

4 times

Programming

1. Enter **209**.

```
Display: Redial Times
```

2. Press **NEXT**.

```
Display example: Attempt:4
```

3. Enter the **number of times**.

To change the current entry, press **CLEAR** and the new number of times.

4. Press **STORE**.

5. Press **END**.

Conditions

- Programme [210]   Automatic Redial Interval Time is used to set the interval time between Automatic Redial attempts.
- You cannot leave the entry empty.

Features Guide References

Redial, Automatic

[210] Automatic Redial Interval Time

Description

Sets the interval time between Automatic Redial attempts.

Selection

Time (seconds): **30 through 1200**

Default

120 s

Programming

1. Enter **210**.

```
Display: Interval Time
```

2. Press **NEXT**.

```
Display example: Time: 120 sec
```

3. Enter the **time**.

To change the current entry, press **CLEAR** and the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

- Programme [209]   Automatic Redial Repeat Times is used to set the number of times Automatic Redial is tried.
- You cannot leave the entry empty.

Features Guide References

Redial, Automatic

[211]   Dial Start Time

Description

Sets the number of milliseconds the system waits before dialling after an outside line is seised.

Selection

Time (milliseconds): **0 through 40** ($\times$ 100 is the actual time)

Default

0 ms

Programming

1. Enter **211**.
   ```
   Display: CO Dial Start
   ```
2. Press **NEXT**.
   ```
   Display example: Time: 0 msec
   ```
3. Enter the **time**.
   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

- You enter a number from **0 through 40**. The actual time is a 100 times your input.
- You cannot leave the entry empty.

Features Guide References

None

[212]   Call Duration Count Start Time

Description

Sets the number of seconds the system waits between the end of dialling and the start of the SMDR timer for outgoing toll calls when the system is installed behind a host PBX. When the system has sent out all the digits to the central office and this timer expires, the system starts counting the call. A display telephone shows the elapsed time of the call. The starting time and the total duration of a call are recorded in the SMDR record.

Selection

Time (seconds): **0 through 60**

Default

0 s

Programming

1. Enter **212**.

    ```
    Display: SMDR Durat Time
    ```
2. Press **NEXT**.

    ```
    Display example: Time: 0sec
    ```
3. Enter the **time**.

    To change the current entry, press **CLEAR** and the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

• The timer starts counting after all the digits are dialled. This timer is not applied to incoming calls. The timer for incoming calls starts immediately.
• You cannot leave the entry empty.

Features Guide References

Station Message Detail Recording (SMDR)

[213]   External Relay Connecting Time

Description

Set the connecting time to hold the external relay on.

Selection

Time (seconds): **0 through 99**

Default

5 s

Programming

1. Enter **213**.

   ```
   Display: Ext Relay Time
   ```

2. Press **NEXT**.

   To program "Slave," press **NEXT** twice.

   ```
   Display example: Time : 5 sec
   ```

3. Enter the **time**.

   To change the current entry, enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

- If "0" is assigned, the system will hold the external relay on until the controlling telephone is on-hooked.

Features Guide References

External Relay

---

[214]   Message Waiting Ring Interval Time

Description

Set the interval time of Message Waiting ring for a single line telephone.

Selection

Time (minutes): **0 through 64**

Default

10 min

Programming

1. Enter **214**.

   ```
   Display: MW Ring Time
   ```
2. Press **NEXT**.

   ```
   Display example: Interval: 0 min
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

When the internal time is set "0," the telephone does not ring for Message Waiting notification.

Features Guide References

Message Waiting

[215]   Ring Off Detection Time

Description

Sets the ring-off time so that the system can detect that the central office stops ringing.

Selection

- Time (seconds): **4/5/12**

Default

5 s

Programming

1. Enter **215**.

```
Display: Ring Detect Time
```

2. Press **NEXT**.

```
Display example: Time: 5sec
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

None

Features Guide References

None

[217]   Timed Reminder Alarm Ring Time

Description

Sets the number of seconds the Timed Reminder alarm rings.

Selection

Time (seconds): **30 through 240**

Default

30 s

Programming

1. Enter **217**.

```
Display: Timed Remind
```

2. Press **NEXT**.

```
Display example: Reminder: 30sec
```

3. Enter the **time**.

To change the current entry, enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

None

Features Guide References

Timed Reminder

[218] Doorphone-to-CO Line Call Duration Time

Description

Sets the maximum time allowed for a conversation between a caller at a doorphone and an outside party. When the timer expires, the call is disconnected.

Selection

Time (seconds): **0 through 30** ($\times$10 is the actual time)

Default

0 s

Programming

1. Enter **218**.

   ```
   Display: Door-CO Dur.Time
   ```
2. Press **NEXT**.

   ```
   Display example: Time: 0 sec
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

* You can enter a number from 0 through 30. The actual time is 10 times your input.
* If the duration time is set to "0", there will be no time limit.

Features Guide References

Doorphone Call Forwarding to CO Line

[220] DISA Prolong Time

Description

Sets the maximum allowable prolonged time for an outside-to-outside line call via the Direct Inward System Access (DISA) feature. An outside-to-outside line call is initially limited by the "Outside-to-Outside Line Call Duration Time" (Programme [206]). However, the DISA caller can prolong the call after hearing the warning tones by pressing any key (except the ✳ key). The DISA prolong time sets the duration of these extended periods.

Selection

Time (minutes): **0 through 7** (0=no prolonging)

Default

3 min

Programming

1. Enter **220.**

    Display: DISA Prolng Time

2. Press **NEXT.**

    Display example: Time:3 min

3. Enter the **time.**

To change the current entry, enter the new time.

4. Press **STORE.**

5. Press **END.**

Conditions

- Do not confuse this parameter with the "Outside-to-Outside Line Call Duration Time" (Programme [206]) parameter. Programme [206] is used to set the duration time allowed for an outside-to-outside line call.
- You cannot leave the entry empty.

Features Guide References

Direct Inward System Access (DISA)

[221] DISA Automated Attendant (AA) Wait Time

Description

Sets the number of seconds the system waits for a second digit entry. If the timer expires, the system assumes that the first digit is a DISA (Direct Inward System Access) Automated Attendant (AA) number, if assigned in programme [815]   DISA Automated Attendant (AA).

Selection

Time (seconds): **1 through 5**

Default

1 s

Programming

1. Enter **221**.

   ```
   Display: DISA AA WaitTime
   ```
2. Press **NEXT**.

   ```
   Display: Time: 1 sec
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls

[222]   OGM Recording Time

Description

Sets the maximum allowable recording time for outgoing messages (OGM).

Selection

OGM recording time (minutes): **1 through 15**

Default

3 min

Programming

1. Enter **222**.

    Display: OGM Rec Time

2. Press **NEXT**.

    Display: Time: 3 min

3. Enter the **time**.

    To change the current entry, press **CLEAR** and enter the new time.

4. Press **STORE**.

5. Press **END**.

Conditions

- A maximum of 9 OGMs can be recorded for company message box.
- You can choose the total recording time for Built-in Voice Message feature (including OGM) out of 60 minutes/30 minutes/20 minutes. (See [822]   Built-in Voice Message Total Recording Time)

Features Guide References

Built-in Voice Message
Outgoing Message (OGM)
Timed Reminder
Uniform Call Distribution (UCD)

[223]   Built-in Voice Message Recording Time

Description

Sets the maximum recording time of a voice message to the Built-in Voice Message (BV) box.

Selection

BV recording time (minutes): **1 through 60**

Default

5 min

Programming

1. Enter **223**.

   ```
   Display: BV   Rec Time
   ```
2. Press **NEXT**.

   ```
   Display: Time: 5 min
   ```
3. Enter the **time**.

   To change the current entry, press **CLEAR** and enter the new time.
4. Press **STORE**.
5. Press **END**.

Conditions

- You can choose the total recording time for Built-in Voice Message feature (including OGM) out of 60 minutes/30 minutes/20 minutes. (See [822]   Built-in Voice Message Total Recording Time)

Features Guide References

Built-in Voice Message

Section 5

TRS Programming

5.1   TRS Programming

[301-305]   TRS Denied Code Entry for Levels 2 through 6

Description

These allow you to specify the numbers which are toll-restricted for each toll restriction level
as follows:

Programme [301]: restricts levels 2 through 6
Programme [302]: restricts levels 3 through 6
Programme [303]: restricts levels 4 through 6
Programme [304]: restricts levels 5 through 6
Programme [305]: restricts levels 6

Selection

- Location number: **01 through 20**
- Toll call number: **7 digits (max.)**

Default

All locations — Not Stored

Programming

1. Enter a programme address (**301 through 305**).

```
Display example: TRS Deny LVL-2
```

2. Press **NEXT**.

```
Display: Location NO?→
```

3. Enter a **location number**.

To enter location number 01, you can also press **NEXT**.

```
Display example: 01: Not Stored
```

4. Enter a **toll call number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 20 toll call numbers which can be restricted for each programme. Each number has a maximum of 7 digits, consisting of **0 through 9**, and ✶. The character ✶ can be used as a wild card character.
- Programmes [306-310] TRS Excepted Code Entry for Levels 2 through 6 are used to assign exceptions to these numbers. Programmes [500-501] Toll Restriction Level — Day/Night are used to set the toll restriction value for each COS.

Features Guide References

Toll Restriction

[306-310]   TRS Excepted Code Entry for Levels 2 through 6

Description

These allow you to assign numbers which are exceptions to the toll restriction specified in programmes [301] through [305] as follows:

Programme [306]: applies to level 2
Programme [307]: applies to levels 2 through 3
Programme [308]: applies to levels 2 through 4
Programme [309]: applies to levels 2 through 5
Programme [310]: applies to levels 2 through 6

Selection

* Location number: **01 through 20**
* Exceptional number: **7 digits (max.)**

Default

All locations — Not Stored

Programming

1. Enter a **programme address (306 through 310).**
   ```
   Display example: TRS Excp LVL-2
   ```
2. Press **NEXT**.
   ```
   Display: Location NO?→
   ```
3. Enter a **location number**.

   To enter location number 01, you can also press **NEXT**.
   ```
   Display example: 01:Not Stored
   ```
4. Enter an **exceptional number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new number.
5. Press **STORE**.
6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

There is a maximum of 20 numbers for each programme. Each number has a maximum of 7 digits, consisting of **0 through 9**, and ✶. The character "✶" can be used as a wild card character.

Features Guide References

Toll Restriction

[311] Emergency Dial Number Set

Description

Stores up to 10 emergency call numbers.
Emergency numbers are not subject to toll restriction, Account Code – Verified or Electronic Station Lockout.

Selection

- Location number: **01 through 10**
- Emergency number: **16 digits (max.)**

Default

Location 01 — 999; 02 — 112; 03 through 10 — Not Stored

Programming

1. Enter **311**.

    Display: Emergency Dial

2. Press **NEXT**.

    Display: Location NO?→

3. Enter a **location number**.

    To enter location number 01, you can also press **NEXT**.

    Display example: 01:999

4. Enter an **emergency number**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

There is a maximum of 10 emergency numbers. Each number has a maximum of 16 digits, consisting of **0 through 9**.

Features Guide References

Electronic Station Lockout
Emergency Call

Toll Restriction

Section 6

CO Line Programming

6.1   CO Line Programming

[400]   CO Port Connection Assignment

Description

Used to identify the CO ports which are connected to the system. This prevents users from originating a call to a line which is not connected.

Selection

- CO port number: **1 through 4 (4: Analogue CO)**
- **Connect/No Connect**

Default

All CO ports — Connect

Programming

1. Enter **400**.

    Display: CO Connection

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **CO port number**.

    To enter CO port number 1, you can also press **NEXT**.

    Display example: #1 :Connect

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another CO port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all CO port to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for CO1.

Features Guide References

None

[402]   Dial Mode Selection

Description

A CO line can be programmed for DTMF (Dual Tone Multi-Frequency), pulse (rotary) or call blocking. This programme assigns your choice to each line.
DTMF:
The dialling signals from an extension, either tone or pulse, are converted to tone signals and transmitted to the CO line.
Pulse:
The dialling signals from an extension, either tone or pulse, are converted to pulse signals and transmitted to the CO line.
Call blocking:
If your central office can receive both DTMF and pulse signals but you are contracted for pulse, select this mode. When dialling on the line with a touch tone telephone, only the pulse signals are sent to the CO line.

Selection

- CO port number: **4**
- **DTMF/Pulse/Call blocking**

Default

DTMF

Programming

1. Enter **402**.

   ```
   Display: CO Dial Mode
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter an **CO port number**.

   To enter CO port number 4, you can also press **NEXT**.

   ```
   Display example: #4 :DTMF
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. Press **END**.

Conditions

- If DTMF is assigned, set the DTMF time of the line in programme [404]   DTMF Time.
- If pulse or call blocking is assigned, set the pulse speed of the line in programme [403]   Pulse Speed Selection, and set the pulse break ratio and inter-digit pause in

programme [990]   System Additional Information, Area 02 - bit 7, and bits 12 and 11, if necessary.

Features Guide References

None

[403]   Pulse Speed Selection

Description

A CO line set for pulse or call blocking mode in programme [402]   Dial Mode Selection can have two pulse rates, 10 pps (low) and 20 pps (high). This programme sets the pulse speed for each outside line set to pulse or call blocking mode.

Selection

- CO port number: **4**
- **10 pps / 20 pps**

Default

10 pps

Programming

1. Enter **403**.

```
Display: Pulse Speed
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter an **CO port number**.

To enter CO port number 4, you can also press **NEXT**.

```
Display example: #4 :10pps
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. Press **END**.

Conditions

- The pulse speed required is determined by the CO line or PBX line.
- Programme [990]   System Additional Information, Area 02 - bit 7, and bits 12 and 11 are used to select a pulse break ratio and inter-digit pause, if needed.

Features Guide References

None

---

[404] DTMF Time

Description

A CO line set to DTMF (Dual Tone Multi-Frequency) mode in programme [402]   Dial Mode Selection can have two settings. This programme sets the duration of the DTMF signals sent to a CO line to DTMF mode.

Selection

- CO port number: **4**
- Time (milliseconds): **80/160**

Default

80 ms

Programming

1. Enter **404.**

    Display: DTMF Time

2. Press **NEXT.**

    Display: Port NO?→

3. Enter an **CO port number.**

    To enter CO port number 4, you can also press **NEXT.**

    Display example: #4 : 80msec

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE.**

6. Press **END.**

Conditions

- The DTMF time required is determined by the outside line or PBX line.

Features Guide References

None

[411] Host PBX Access Codes

Description

Assigns Host PBX access codes. If the system is installed behind a host PBX, an access code is required to make an outside call. Up to 4 codes can be stored for a CO port.

Selection

- CO port number: **1 through 4 (4: Analogue CO)**
- Access code: **1 or 2 digits, 4 different entries (max.)**

Default

All CO ports — Not Stored

Programming

1. Enter **411**.

    Display : TRG Host PBX NO.

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **CO port number**.

    To enter CO port number 1, you can also press **NEXT**.

    Display example: #1 : , , ,

4. Enter an **access code**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new access code.

    Display example: #1 :01 , , ,

5. To enter more access codes for the same CO port group, press → and enter the **access codes** until all the required entries are completed.

    Display example: #1 :01,08,10,22

6. Press **STORE**.

7. To program another CO port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.

8. Repeat steps 4 through 7.

9. Press **END**.

Conditions

- This programme is only required if a host PBX is connected to the system.
- The access code has 1 or 2 digits, consisting of **0 through 9**, and ✶.

- If conflicting access codes (such as 8 and 81) are stored for the same CO port, the 1-digit code (8) only will be in effect.
- When the programmed codes are dialled, Toll Restriction is applied to the calls.
- To assign all CO ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for CO port 1.

Features Guide References

None

[412] Pause Time

Description

Assigns the length of the pause time. The programmed pause time is automatically inserted after a line access number or a host PBX access code programmed in [411]   Host PBX Access Codes, or manually inserted if the PAUSE button is pressed by the user in the case of an analogue line.
Also, assigns the starting time for sending out the DTMF signalling to the Integrated Services Digital Network (ISDN) in the case of ARS with DTMF feature.

Selection

- CO port number: **1 through 4 (4: Analogue CO)**
- Time (seconds): **1.5 /2.5/3.5/4.5/5.5/6.5**

Default

All CO ports — 3.5 s

Programming

1. Enter **412**.

    Display: TRG Pause Time

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **CO port number**.

    To enter CO port number 1, you can also press **NEXT**.

    Display example: #1 : 3.5sec

4. Keep pressing **SELECT** until the desired time is displayed.

5. Press **STORE**.

6. To program another CO port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all CO ports to one selection, press the ✳ key in step 3. In this case, the display shows the contents programmed for CO port 1.

Features Guide References

Pause Insertion, Automatic

---

[413]   Flash Time

Description

Assigns the length of the flash time. If your system is installed behind a host PBX, External Feature Access (EFA) is necessary to obtain their services. To enable it, select a required hooking signal sending time for the CO line group.

Selection

- CO port number: **4**
- Time (milliseconds):
  Disable (no EFA) **/80/96/112/200/300/400/500/600/700/800/900/1000/1100/1200**

Default

96 ms

Programming

1. Enter **413**.

```
Display: TRG Flash Time
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter a **CO port number**.

To enter CO port number 4, you can also press **NEXT**.

```
Display example: #4 : 96msec
```

4. Keep pressing **SELECT** until the desired time is displayed.

5. Press **STORE**.

6. Press **END**.

Conditions

- You may disable EFA, if not required. The Flash feature will be in effect in place of EFA. Programme [414]   Disconnect Time is used to select the time required for the Flash feature.
- The flash time required is determined by the central office or the host PBX lines.
- To assign all CO line groups to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for CO line group 1.

Features Guide References

External Feature Access

Flash

[414]   Disconnect Time

Description

Determines the amount of time between successive accesses to the same CO line.

Selection

- CO port number: **4**
- Time (seconds): **0.5/2.0/4.0**

Default

2.0 s

Programming

1. Enter **414**.

    `Display: TRG Discnct Time`
2. Press **NEXT**.

    `Display: Port NO?→`
3. Enter a **CO port number**.

    To program CO port number 4, you can also press **NEXT**.

    `Display example: #4 : 2.0sec`
4. Keep pressing **SELECT** until the desired time is displayed.
5. Press **STORE**.
6. Press **END**.

Conditions

- The disconnect time must be longer than the requirements of the central office or the host PBX.

Features Guide References

Terminate

[418]   Second Ringer Assignment

Description

Selects whether second ringer will ring or not when a call arrives through a CO line.

Selection

- CO port number: **1 through 4 (4: Analogue CO)**
- **Enable/Disable**

Default

All CO port — Disable

Programming

1. Enter **418**.

   ```
   Display: Ringer Assign
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **CO port number**.

   To enter CO port number 1, you can also press **NEXT**.

   ```
   Display example: #1 :Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another CO port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- To assign all CO ports to one, press the ✶ key at step 3. In this case, the display shows the contents programmed for CO1.

Features Guide References

Second Ringer

[421]   CO Port Name

Description

Assigns company or customer names to each outside line so that the operator or extension user can view the destination which the caller is trying to reach before answering.

Selection

- CO port number: **1 through 4 (4: Analogue CO)**
- CO port name: **10 characters (max.)**

Default

All ports — Not stored

Programming

1. Enter **421**.

    Display: CO Line Name

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **CO port number**.

    To enter characters, see 1.4   Entering Characters

    To enter CO port number 1, you can also press **NEXT**.

    Display example: #1:Not Stored

4. Enter the **desired name**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and enter the new name.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **CO port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Each name can have a maximum of 10 characters.
- To assign all outside lines to one selection, press ✶ in step 3. In this case, the display will show the contents programmed for CO1.

Features Guide References

None

[422] ISDN Port Type

Description

Assigns the type of each port as either CO line or extension line on ISDN port basis.

Selection

- Port number: **2, 3**
- **CO/Extension**

Default

Port 2 — CO

Port 3 — Extension

Programming

1. Enter **422**.

   ```
   Display: ISDN Line Type
   ```

2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #2 :CO
   ```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all ports to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.
- Port 1 is only for CO line.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

---

[423] ISDN Layer 1 Active Mode

Description

Assigns the active mode of Layer 1 on ISDN port basis.

Selection

- Port number: **1-3**
- **Permanent/Call**

Default

Port 1, 2 — Permanent

Port 3 — Call

Programming

1. Enter **423**.

    ```
    Display: L1 Active Mode
    ```

2. Press **NEXT**.

    ```
    Display: Port NO?→
    ```

3. Enter a **port number**.

    To enter a first port number, you can also press **NEXT**.

    ```
    Display example: #1 :Permanent
    ```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port number, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

---

[424] ISDN Configuration

Description

Assigns the configuration on ISDN port basis.

Selection

- Port number: **1 through 3**
- **Point**/**Multipoint**

Default

Port 1, 2 — Point

Port 3 — Multipoint

Programming

1. Enter **424**.

   ```
   Display: Access Mode
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1 :Point
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- If 1 equipment is connected to the ISDN port, select "Point." If multiple equipment are connected, select "Multipoint."
- To assign all ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[425]   ISDN Data Link Mode

Description

Assigns the data link mode on ISDN port basis.

Selection

- Port number: **1-3**
- **Permanent/Call**

Default

Port 1, 2 — Permanent

Port 3 — Call

Programming

1. Enter **425**.

```
Display: Data Link Mode
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

```
Display example: #1 :Permanent
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port number, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all ports to one selection, press the ✷ key at step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[426]   ISDN TEI Mode

Description

Assigns the Terminal Endpoint Identifier (TEI) mode on ISDN port basis.

Selection

- Port number: **1-3**
- **Fix 0 through 63/Automatic**

Default

Port 1, 2 — Fix 0

Port 3 — Automatic

Programming

1. Enter **426**.

```
Display: TEI Assign
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter a **port number**.

To enter a Port 01, you can also press **NEXT**.

```
Display example: #1 :Fix 0
```

4. Enter **TEI**.

To change the current entry, press **CLEAR** and enter the new number.

To assign "Automatic", press **CLEAR** and do not enter the new number.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- If the "Point" is selected in programme [424]   ISDN Configuration are selected, assign the fixed TEI. If the "Multipoint" is selected, assign "Automatic". After this assignment, you should reset the system so that this assignment is effective.
- To assign all ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for Port 1.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[427]   ISDN Extension Multiple Subscriber Number

Description

Selects whether the Multiple Subscriber Number (MSN) is allocated to each terminal equipment on ISDN Extension bus or not on ISDN port basis. Additional number for MSN can be 1 or 2 digits.

Selection

- Port number: **2, 3**
- **1 Digit/2 Digits/Disable**

Default

All ports — Disable

Programming

1. Enter **427**.

    ```
    Display: MSN Service
    ```
2. Press **NEXT**.

    ```
    Display: Port NO?→
    ```
3. Enter a **port number**.

    To enter a first port number, you can also press **NEXT**.

    ```
    Display example: #2 :Disable
    ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- To assign all ports to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for a first port.
- After this assignment, you should reset the system so that this assignment is effective.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[428]   ISDN Extension Progress Tone

Description

Enables or disables to send the progress tone to ISDN extension on ISDN port basis.

Selection

- Port number: **2-3**
- **Enable/Disable**

Default

All ports — Enable

Programming

1. Enter **428**.

```
Display: ISDN EXT Tone
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

```
Display example: #2 :Enable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all ports to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for a first port.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[452]   Extension Ringing Assignment

Description

Selects the extension ringing pattern on an handling table number basis when an outside call is received.

Note

When an outside call arrives and makes no hit on the System Speed Dialling and Intelligent Call Handling table (because, for example, the table is totally blank), the call will be routed through Extension Ringing Assignment for handling tables 61 (day) and 62 (night). Ringing patterns are assigned in this programme.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**

  (-1: first part, -2: second part)
- Handling table number (HND): **1 through 62**
- **Immdt** (Immediate)/**2RNG** (2 Rings)/**4RNG** (4 Rings)/**6RNG** (6 Rings)/**8RNG** (8 Rings)/ **NoRNG** (No Ring)/**Disab** (Disable)

Default

HND 01, 61, 62: All jacks – Immediate

HND 02 through 60: All jacks – Disable

Programming

1. Enter **452**.

   ```
   Display: Ext Ring Assign
   ```
2. Press **NEXT**.

   ```
   Display: Jack NO?→
   ```
3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering the jack number.

   ```
   Display: #1-1:HND01:Immdt
   ```
4. Enter a **handling table number**.
5. Keep pressing **SELECT** until the desired selection is displayed.
6. Press **STORE**.
7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **table number**.
8. Repeat steps 4 through 7.
9. Press **END**.

Conditions

- To assign one part (first part or second part) of all jack numbers to one selection, press the ✻ key at step 3. In this case, the display shows the contents programmed for jack number 1.
- If you select "DISA" or "BV" in programme [455] Built-in Voice Message for Call Handling, you cannot select "Disable" for all jacks in this programme. Reason: There must be a backup extension in case all DISA or BV resources are busy.
- You cannot select "Disable" for all jacks for the handling table number (HND) 61 and 62.
- If only 1 extension is assigned to ring while others are set as "Disable", the extension starts ringing immediately regardless of its setting of delayed ringing.

Features Guide References

Ringing, Discriminating

[453]   Other Extension Ringing Assignment

Description

Determines which "other" extensions receive calls. See "Conditions" for applicable extensions. For normal extensions, see [452]   Extension Ringing Assignment.

Selection

- Handling table number: **01 through 60**
- Extension number: **2 through 4 digits/Disable**

Default

All handling tables — Not Stored

Programming

1. Enter **453**.

    Display: Other Ext Ring

2. Press **NEXT**.

    Display: Hand tbl NO?→

3. Enter a **handling table number**.

    To enter handling table number 01, you can also press **NEXT**.

    Display example: 01:Disable

4. Enter the **desired extension number**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another table, press **NEXT** or **PREV**, or **SELECT** and the desired **handling table number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- You can set the extension number in the following programming: [127]   Voice Mail Extension Number Assignment, [130]   Phantom Extension Number Assignment and [813]   Floating Number Assignment.

Features Guide References

Voice Mail Integration

Floating Number

Phantom Extension

[454]   ISDN Extension Ringing Assignment

Description

Determines which of the extensions receives a call on an Intelligent Call Handling 1:1 or 1:N basis of the ISDN port.

Selection

- Handling table number: **01 through 60**
- ISDN extension number: **2 through 4 digits/Disable**

Default

All handling tables — Not Stored

Programming

1. Enter **454**.

   `Display: ISDN Ext Ring`

2. Press **NEXT**.

   `Display: Hand tbl NO?→`

3. Enter a **handling table number**.

   To enter handling table number 01, you can also press **NEXT**.

   `Display example: 01:Disable`

4. Enter the **desired ISDN extension number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another table, press **NEXT** or **PREV**, or **SELECT** and the desired **table number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Assignable extension numbers are programmed by the following programming.

  [012]   ISDN Extension Number Set

  [427]   ISDN Extension Multiple Subscriber Number

- The corresponding handling table setting in [453]   Other Extension Ringing Assignment must be "disable". "Other" extensions and ISDN extensions cannot ring simultaneously.

Features Guide References

Integrated Services Digital Network (ISDN) Extension

[455]   Built-in Voice Message for Call Handling

Description

Directs an incoming call to the built-in voice message box in accordance with the Intelligent Call Handling table.

Selection

- Handling table number: **01 through 60**
- **Disable/BV** (Built-in Voice Message) **1 through 9/DISA BV 1 through 9**

Default

All handling tables — Disable

Programming

1. Enter **455**.

   Display: Voice Mess.

2. Press **NEXT**.

   Display: Hand tbl NO?→

3. Enter a **handling table number**.

   To enter handling table number 01, you can also press **NEXT**.

   Display example: 01:Disable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another table, press **NEXT** or **PREV**, or **SELECT** and the desired **handling table number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Optional Voice Message Card is required.
- If you select "DISA" or "BV" in this programming, you cannot select "Disable" for all jacks in programme [452]   Extension Ringing Assignment.
- If you select "BV" or "Queuing" in programme [456]   Call Handling When All Busy, you cannot select "DISA" or "BV" in this programming.

Features Guide References

Built-in Voice Message

Intelligent Call Handling — Distribution of Incoming Outside Calls

[456]   Call Handling When All Busy

Description

Sets the ringing pattern if an incoming call cannot be received because all destinations are busy.

Selection

- Handling table number: **01 through 60**
- **Recovery/Busy/BUSY BV 1 through 9/Queuing**

Default

All handling tables — Recovery

Programming

1. Enter **456**.

```
Display: Busy BV
```

2. Press **NEXT**.

```
Display: Hand tbl NO?→
```

3. Enter a **handling table number**.

To enter handling table number 01, you can also press **NEXT**.

```
Display example: 01:Recovery
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another table, press **NEXT** or **PREV**, or **SELECT** and the desired **handling table number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- If you select "DISA" or "BV", in programme [455]   Built-in Voice Message for Call Handling, you cannot select "BV" or "Queuing" in this programming.
- If you assign an ISDN extension as the destination of 1:1 calls, be sure to select **Busy** or **Busy BV** in this programme. Other selections are not applicable.
- If you assign an ISDN extension as one of the destinations of 1:N calls, be sure to select **Recovery** in this programme. Other selections are not applicable.

Features Guide References

Intelligent Call Handling — Distribution of Incoming Outside Calls

[457]   Intercept Extension

Description

Intercept Routing provides an automatic re-direction of calls which cannot or have not been answered (IRNA: Intercept Routing — No Answer). This programme sets the destination for the handling table number.

Selection

- Handling table number: **01 through 60**
- **EXT** (Extension number) : **2 through 4 digits/BV** (Built-in Voice Message) **1 through 9**

Default

All handling tables — Not Stored

Programming

1. Enter **457**.

   ```
   Display: Intercpt Ext
   ```

2. Press **NEXT**.

   ```
   Display: Hand tbl NO?→
   ```

3. Enter a **handling table number**.

   To enter handling table number 01, you can also press **NEXT**.

   ```
   Display example: 01:EXT
   ```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Enter a desired extension or BV number. To delete the current entry, press **CLEAR**. To change the current entry, press **CLEAR** and enter the new number.

6. Press **STORE**.

7. To program another table, press **NEXT** or **PREV**, or **SELECT** and the desired **handling table number**.

8. Repeat steps 4 through 7.

9. Press **END**.

Conditions

- To assign all tables to one selection, press ✱ in step 3. In this case, the display will show the contents programmed for table number 1.
- Assignable extension numbers are programmed by the following programming.
  [003]   Extension Number Set
  [012]   ISDN Extension Number Set
  [127]   Voice Mail Extension Number Assignment

---

[130]   Phantom Extension Number Assignment

[813]   Floating Number Assignment

Features Guide References

Intercept Routing

[458]   Intelligent Call Handling Table for Analogue CO

Description

Assigns Intelligent Call Handing table to analogue CO port in both day and night modes.

Selection

- Intelligent Call Handing table number; Day: **01 through 60**, Night: **01 through 60**

Default

01

Programming

1. Enter **458**.

```
Display: Analog hnd Table
```

2. Press **NEXT**.

```
Display: Day1 Nit1
```

3. Enter a **table number for day mode**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new code.

4. Press →.

5. Enter a **table number for night mode**.

6. Press **STORE**.

7. Press **END**.

Conditions

- It is impossible to make no assignment.
- One of the Intelligent Call Handing tables (default: table 1 — Day/Night) is used for analogue CO port calls.

Features Guide References

None

[460]   ISDN Call Hold

Description

Enables or disables to allow the ISDN Call Hold service.

Selection

- Port number: **1 through 3**
- **Enable/Disable**

Default

All ports — Disable

Programming

1. Enter **460**.

   ```
   Display: ISDN Call Hold
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1 :Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and enter the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- Unless this setting is enabled, you can enjoy neither the ISDN Call Transfer service nor ISDN Conference service.
- If you change this setting, be sure to restart the system. Refer to 2.10.1 System Restart in Installation Manual.

Features Guide References

Integrated Services Digital Network (ISDN) Call Hold
Integrated Services Digital Network (ISDN) Call Transfer
Integrated Services Digital Network (ISDN) Conference

[461] ISDN Call Transfer

Description

Enables or disables to allow the ISDN Call Transfer service.

Selection

- Port number: **1 through 3**
- **Enable/Disable**

Default

All ports — Disable

Programming

1. Enter **461**.

   ```
   Display: ISDN Call Trans.
   ```

2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```

3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1 :Disable
   ```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and enter the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- If you change this setting, be sure to restart the system. Refer to 2.10.1 System Restart in Installation Manual.

Features Guide References

Integrated Services Digital Network (ISDN) Call Hold
Integrated Services Digital Network (ISDN) Call Transfer

[462] ISDN Conference

Description

Selects the type of ISDN Conference.

Selection

- Port number: **1 through 3**
- **3PTY** (three-party)/**CONF** (conference)/**Disable**

Default

All ports — Disable

Programming

1. Enter **462**.

   ```
   Display: ISDN Conference
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1 :Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and enter the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- If you change this setting, be sure to restart the system. Refer to 2.10.1 System Restart in Installation Manual.

Features Guide References

Integrated Services Digital Network (ISDN) Call Hold
Integrated Services Digital Network (ISDN) Conference

[463]   ISDN Call Forwarding

Description

Enables or disables to allow the ISDN Call Forwarding service.

Selection

- Port number: **1 through 3**
- **Enable/Disable**

Default

All ports — Disable

Programming

1. Enter **463**.

```
Display: ISDN Call FWD
```

2. Press **NEXT**.

```
Display: Port NO?→
```

3. Enter a **port number**.

To enter a first port number, you can also press **NEXT**.

```
Display example: #1 :Disable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and enter the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- When forwarding the incoming calls through CO port which has been assigned to enable in this programme, ISDN Call Forwarding is operated prior to the usual Call Forwarding to Outside Line feature.

Features Guide References

Integrated Services Digital Network (ISDN) Call Forwarding

[464]   ISDN Call Deflection

Description

Enables or disables the ability to allow the ISDN Deflection service.

Selection

- Port number: **1 through 3**
- **Enable/Disable**

Default

All ports — Disable

Programming

1. Enter **464**.

   ```
   Display: ISDN Call DEF.
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1 :Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

None

Features Guide References

Call Deflection

Section 7

COS Programming

7.1 COS Programming

[500-501] Toll Restriction Level — Day/Night

Description

Each extension must be assigned a Class of Service (COS). These programmes set the toll restriction value for each COS in day or night mode.

Selection

- COS number: **1 through 8**
- Level number: **1 through 8**

Default

All COS — Level 1 — Day/Night

Programming

1. Enter a **programme address (500 for day or 501 for night)**.

    ```
    Display example: TRS Level Day
    ```
2. Press **NEXT**.

    ```
    Display : COS NO?→
    ```
3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    ```
    Display example: COS1:1
    ```
4. Enter a **level number**.

    To change the current entry, press **CLEAR** and the new number.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

To assign all COS to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Day/Night Service

Toll Restriction

[502] Extension-to-CO Call Duration Limit

Description

Enables or disables to allow for a conversation between an extension and an external party.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **502**.

   Display: CO Durat. Limit
2. Press **NEXT**.

   Display: COS NO? →
3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   Display example: COS1:Disable
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- A CO call originated or answered by the programmed extension user is disconnected when the time specified in programme [205]　Extension-to-Outside Line Call Duration Time expires.
- Extensions in limited classes cannot establish a CO-to-CO call, this is, cannot transfer/ forward a CO call to another CO line or perform an Unattended Conference.
- To assign all COS to one selection, press the ✶ key in step 3. In this case, the display shows the currents programmed for COS 1.

Features Guide References

Account Code Entry

[503] Call Transfer to CO Line

Description

This programme determines which Classes of Services (COS) are allowed to perform the Call Transfer to CO Line function.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **503**.

   ```
   Display: Transfer to CO
   ```

2. Press **NEXT**.

   ```
   Display : COS NO?→
   ```

3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   ```
   Display example: COS1:Enable
   ```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Call Transfer, Screened — to CO Line

---

[504] Call Forwarding to CO Line

Description

This programme determines which Classes of Services (COS) are allowed to perform the Call Forwarding to CO Line function.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **504**.

    Display: Call FWD to CO

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Disable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Call Forwarding — to CO Line, All Calls

[505]   Executive Busy Override

Description

Determines which Classes of Services (COS) are allowed to perform Executive Busy Override – CO Line/Extension. Executive Busy Override allows the user to intrude into an established call.

Selection

*   COS number: **1 through 8**
*   **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **505**.

    Display: Busy Override

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Disable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Executive Busy Override — CO Line
Executive Busy Override — Extension

---

[506]   Executive Busy Override Deny

Description

This programme is used to determine which Classes of Services (COS) are allowed to deny Executive Busy Override. Executive Busy Override Deny allows the user to prevent Executive Busy Override – CO Line/Extension from being executed by another extension user.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **506**.

    Display: Busy Over. Deny

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Enable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Executive Busy Override — CO Line
Executive Busy Override — Extension

---

[507]   Do Not Disturb Override

Description

This programme determines which Classes of Services (COS) are allowed to perform Do Not Disturb (DND) Override.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **507**.

   `Display: DND Override`

2. Press **NEXT**.

   `Display: COS NO?→`

3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   `Display example: COS1:Disable`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Do Not Disturb (DND) Override

---

[508] Account Code Entry Mode

Description

There are 3 account code modes: Option, Verified — All Calls and Verified — Toll Restriction Override. This programme determines the mode to be used by each Class of Service (COS).

Optional mode:
The user can enter any account code, if needed.

Verified — All Calls mode:
The user must always enter a pre-assigned account code to make an outside call.

Verified — Toll Restriction Override mode:
The user must enter a pre-assigned account code when the user needs to override toll restriction.

Selection

- COS number: **1 through 8**
- **Option/Verify — All/Verify — Toll**

Default

All COS – Option

Programming

1. Enter **508**.

    Display: Call Accounting

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Option

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

- Programme [105]   Account Codes is used to define the Account Codes for the Verified modes.

Features Guide References

Account Code Entry

Toll Restriction Override by Account Code Entry

[509-510]   Toll Restriction Level for System Speed Dialling – Day/Night

Description

These programmes set the toll restriction value used in System Speed Dialling for each Class of Service (COS) in day or night mode.
When the user makes a call with System Speed Dialling, the system will check the phone number with this level.

Selection

- COS number: **1 through 8**
- Level number: **1 through 8**

Default

All COS — Level 1 — Day/Night

Programming

1. Enter a **programme address (509 for day or 510 for night)**.

   Display: SPD TRS LVL Day

2. Press **NEXT**.

   Display: COS NO?→

3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   Display example: COS1:1

4. Enter a **level number**.

   To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Toll Restriction Override for System Speed Dialling

[511]   Door Opener Access

Description

Enables or disables the ability to unlock the door opener on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **511**.

    `Display: Door Opener`

2. Press **NEXT**.

    `Display: COS NO?→`

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    `Display example: COS1: Enable`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Door Opener

[512]   External Relay Access

Description

Enables or disables to turn on the external relay on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **512**.

```
Display: External Relay
```

2. Press **NEXT**.

```
Display: COS NO?→
```

3. Enter a **COS number**.

To enter COS number 1, you can also press **NEXT**.

```
Display example: COS1:Enable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

External Relay

---

[513]   Night Service Access

Description

Enables or disables to switch the Day/Night service on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **513**.

   ```
   Display: Night Service
   ```
2. Press **NEXT**.

   ```
   Display: COS NO?→
   ```
3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   ```
   Display example: COS1:Enable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- To assign all COS to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for COS 1.
- The operator extension can switch the mode regardless of setting.

Features Guide References

Day/Night Service

[514]   Do Not Disturb (DND) for Intelligent Call Handling 1:1 Call

Description

Enables or disables to reject DND for Intelligent Call Handling 1:1 call on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **514**.

   ```
   Display: DND for ICH1:1
   ```
2. Press **NEXT**.

   ```
   Display: COS NO?→
   ```
3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   ```
   Display example: COS1:Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.
- The operator extension can switch the mode regardless of setting.

Features Guide References

Do Not Disturb (DND) for Intelligent Call Handling 1:1 Call

[516]   Calling Line Identification Restriction

Description

Enables or disables the Calling Line Identification Restriction (CLIR) Service on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **516**.

    `Display: CLIR`

2. Press **NEXT**.

    `Display: COS NO?→`

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    `Display example: COS1:Disable`

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Calling/Connected Line Identification Restriction (CLIR/COLR)

[517]   Connected Line Identification Restriction

Description

Enables or disables the Connected Line Identification Restriction (COLR) Service.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **517**.

   ```
   Display: COLR
   ```
2. Press **NEXT**.

   ```
   Display: COS NO?→
   ```
3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   ```
   Display example: COS1:Disable
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

To assign all COS to one selection, press the ✳ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Calling/Connected Line Identification Restriction (CLIR/COLR)

[518] CFU/CFB/CFNR Assignment

Description

This programme determines which Class of Service (COS) can perform CFU, CFB and CFNR features.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **518**.

    Display: CFU/CFB/CFNR

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Disable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✹ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Call Forwarding — by ISDN Line (CFU/CFB/CFNR)

---

[519] Off-Hook Call Announcement (OHCA)

Description

Enables or disables to perform the Off-Hook Call Announcement (OHCA) and Whisper OHCA on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Enable

Programming

1. Enter **519**.

    Display: OHCA

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Enable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Off-Hook Call Announcement (OHCA)

Whisper OHCA

[520] Call Forwarding from Hunting Group

Description

Enables or disables to perform the Call Forwarding from Hunting Group on a Class of Service (COS) basis. Calls arriving at any Hunting Groups ("All") or just calls arriving at your Hunting Group ("Connected") can be forwarded to your extension.

Selection

- COS number: **1 through 8**
- **Disable/Connect/All**

Default

All COS — Disable

Programming

1. Enter **520**.

    Display: Hunt Group FWD

2. Press **NEXT**.

    Display: COS NO?→

3. Enter a **COS number**.

    To enter COS number 1, you can also press **NEXT**.

    Display example: COS1:Disable

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

To assign all COS to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Call Forwarding — from Hunting Group

[521]   Doorphone Call Forwarding to CO Line

Description

Enables or disables to perform the Doorphone Call Forwarding to CO Line on a Class of Service (COS) basis.

Selection

- COS number: **1 through 8**
- **Enable/Disable**

Default

All COS — Disable

Programming

1. Enter **521**.

   Display: Door Phone FWD
2. Press **NEXT**.

   Display: COS NO?→
3. Enter a **COS number**.

   To enter COS number 1, you can also press **NEXT**.

   Display example: COS1:Disable
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another COS, press **NEXT** or **PREV**, or **SELECT** and the desired **COS number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

To assign all COS to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for COS 1.

Features Guide References

Doorphone Call Forwarding to CO Line

Section   8

Extension Programming

8.1   Extension Programming

[600]   EXtra Device Port

Description

EXtra Device Port (XDP) allows a single line telephone (SLT) to be connected to the same jack as a digital proprietary telephone (DPT) or digital DSS console/digital attendant console (console). This programme assigns which jacks are XDP. The SLT and the DPT/console of the programmed jack work as independent extensions.

Selection

- Jack number: **1-4**
- **Enable/Disable**

Default

All jacks — Enable

Programming

1. Enter **600**.

```
Display: XDP Assign
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a jack number.

To enter jack number 1, you can also press **NEXT**.

```
Display example: #1:Enable
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the **desired jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all jacks to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

EXtra Device Port (XDP)

---

[601]   Class of Service

Description

Programs each extension for a Class of Service (COS). The COS determines the call handling abilities of each extension.
A primary and a secondary COS numbers can be assigned per extension.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**

    (-1= first part, -2 = second part)
- COS number: **1 through 8**

Default

All jacks-1/2 — COS 1

Programming

1. Enter **601**.

    ```
    Display: COS Assign
    ```
2. Press **NEXT**.

    ```
    Display: Jack NO?→
    ```
3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    ```
    Display example: #1-1:COS1, COS1
    ```
4. Enter a **COS number** for primary number.

    To change the current entry, enter the new number.
5. Press →.
6. Enter a **COS number** for secondary number.

    To change the current entry, enter the new number.
7. Press **STORE**.
8. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
9. Repeat steps 4 through 8.
10. Press **END**.

Conditions

- There is a maximum of 8 Classes of Services. Every extension must be assigned to a Class of Service and is subject to the COS Programming of programmes [5XX] and [991]   COS Additional Information.
- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign all DPT jacks to one COS, press the ✶ key at step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

Class of Service (COS)

[602] Extension Group Assignment

Description

Assigns each extension to an extension group. Extension groups are used for Group Call Pickup and Paging – Group.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                              (-1 = first part, -2 = second part)
- Extension group number: **01 through 08,✳** (✳=all groups)
- **Enable/Disable**

Default

All jacks-1/2 — Extension group 1: Enable

Programming

1. Enter **602**.

    Display: EXT Group Asn

2. Press **NEXT**.

    Display: Jack NO?→

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    Display example: #1-1:EG01:Enabl

4. Enter the **extension group number**.

    You can also keep pressing ➡ or ⬅ until the desired extension group number is displayed.

5. Keep pressing **SELECT** until the desired selection is displayed.

6. Press **STORE**.

7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

8. Repeat steps 4 through 7.

9. Press **END**.

Conditions

- There is a maximum of 8 extension groups. Each extension can belong to more than 1 group.

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3 Programming Ways.
- To assign all jacks to the same extension group, press the ✳ key in step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

Call Pickup, Group
Extension Group
Paging — Group

[605-606]   Outgoing Permitted CO Line Assignment — Day/Night

Description

Determines the CO lines which can be accessed by an extension in both day and night modes. The extension users can make outgoing outside calls using the assigned CO lines.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
              (-1 = first part, -2 = second part)
- CO port number: **1 through 4 (4: Analogue CO)**
- **Enable/Disable**

Default

All jacks-1/2 — all CO ports — Enable — Day/Night

Programming

1. Enter a **programme address (605 for day or 606 for night)**.

    `Display example: CO Out Day`
2. Press **NEXT**.

    `Display: Jack NO?→`
3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    `Display example: #1-1:PRT1:Enabl`
4. Enter the **CO port number,** or keep pressing → or ← until the desired CO port is displayed.

    To change the current entry, enter the new number.
5. Keep pressing **SELECT** until the desired selection is displayed.
6. Press **STORE**.
7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
8. Repeat steps 4 through 7.
9. Press **END**.

Conditions

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign all jacks or all CO ports to one selection, press the ✶ key at step 3 or 4. In these cases, the display shows the contents programmed for Jack 1 or PRT1.

Features Guide References

CO Line Connection Assignment — Outgoing
Day/Night Service

[607-608]   Doorphone Ringing Assignment — Day/Night

Description

These programmes assign the extensions which will ring when a doorphone call is received during the day and night modes.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                  (-1 = first part, -2 = second part)
- Doorphone number: **1 through 3** (Enable)/**Disable**

Default

Jack 1-1 —123; Other jacks — Disable— Day/Night

Programming

1. Enter a **programme address (607 for day or 608 for night)**.

   ```
   Display example: Doorphone in Day
   ```
2. Press **NEXT**.

   ```
   Display: Jack NO?→
   ```
3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering a jack number.

   ```
   Display example: #1-1:123
   ```
4. Enter the **doorphone numbers**.

   To assign no doorphone, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new doorphone numbers.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign all jacks to one selection, press the ✶ key at step 3 or 4. In these cases, the display shows the contents programmed for Jack 1.
- A maximum of 3 doorphones can be installed.

Features Guide References

Doorphone Call
Day/Night Service

[609] Voice Mail Access Codes

Description

Assigns a mailbox number for each extension, only if programme [990]   System Additional Information, Area 02 – bit 8 is set to "1: free."

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                        (-1 = first part, -2 = second part)
- Mailbox number: **16 digits (max.)**

Default

All jacks — Not Stored

Programming

1. Enter **609**.

    ```
    Display: Mailbox ID Code
    ```

2. Press **NEXT**.

    ```
    Display: Jack NO?→
    ```

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    ```
    Display example: #1-1:Not Stored
    ```

4. Enter the **mailbox number**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- The system supports a maximum of 2 jacks for connection to a Voice Processing System as the Voice Mail or Automated Attendant ports.

- Each mailbox number has a maximum of 16 digits, consisting of **0 through 9**, ✶, # and **PAUSE**.
- To display parts of the code which have scrolled off the display, press → or ←.

Features Guide References

Voice Mail Integration

[610] Department Codes

Description

Assigns the department codes.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- Department code: **5 digits (max.)**

Default

All jacks — Not Stored

Programming

1. Enter **610**.

   Display: Department Code

2. Press **NEXT**.

   Display: Jack NO?→

3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering a jack number.

   Display example: #1-1:Not Stored

4. Enter a **department code**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new **department code**.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired jack number.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Each extension has 1 department code. Each code has a maximum of 5 digits, consisting of **0 through 9**.
- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3 Programming Ways.
- To assign all jacks to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

Department Codes

[611]   Extension Connection Assignment

Description

Assigns whether the extension can perform all accesses or not.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- **Connect/No Connect**

Default

All jacks — Connect

Programming

1. Enter **611**.

    Display: Ext Connection
2. Press **NEXT**.

    Display: Jack NO?→
3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    Display example: #1-1:Connect
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- The extension of the jack number 1 should be set to "Connect".
- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign one part (first part or second part) of all jack numbers to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

Extension Connection Assignment

---

[612]   Data Line Security

Description

Sets or cancels the Data Line Security mode on an extension basis.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                    (-1 = first part, -2 = second part)
- **On/Off**

Default

All jacks — Off

Programming

1. Enter **612**.

   Display: Data Mode

2. Press **NEXT**.

   Display: Jack NO?→

3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering a jack number.

   Display example: #1-1:Off

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign one part (first part or second part) of all jack numbers to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for Jack 1.

Features Guide References

Data Line Security

[613]   ISDN Class of Service

Description

Programs each ISDN port for a Class of Service (COS). The COS determines the call handling abilities of each port.

A primary and a secondary COS number can be assigned per port.

Selection

- Port number: **2, 3**
- COS number: **1 through 8**

Default

All ports — COS 1

Programming

1. Enter **613**.

    Display: ISDN COS Assign

2. Press **NEXT**.

    Display: Port NO?→

3. Enter a **port number**.

To enter a first number, you can also press **NEXT**.

    Display example: #2 :COS1, COS1

4. Enter a **COS number** for primary number.

To change the current entry, enter the new number.

5. Press →.

6. Enter a **COS number** for secondary number.

To change the current entry, enter the new number.

7. Press **STORE**.

8. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

9. Repeat steps 4 through 8.

10. Press **END**.

Conditions

- There is a maximum of 8 Classes of Services. Every ISDN extension must be assigned to a Class of Service and is subject to the COS Programming of programmes [5XX] and [991]   COS Additional Information.

• To assign all ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for the first port.

Features Guide References

Class of Service (COS)

Integrated Services Digital Network (ISDN) Extension

[614]   Department Codes of ISDN Port

Description

Assigns the department code of the ISDN port.

Selection

- Port number: **2, 3**
- Department code: **5 digits (max.)**

Default

All ports — Not Stored

Programming

1. Enter **614**.

   Display: ISDN Dept Code
2. Press **NEXT**.

   Display: Port NO?→
3. Enter a **port number**.

   To enter a first number, you can also press **NEXT**.

   Display example: #2 :Not Stored
4. Enter a **department code**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new **code**.
5. Press **STORE**.
6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired port number.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- Each port has 1 department code. Each code has a maximum of 5 digits, consisting of **0 through 9**.
- To assign all ports to one selection, press the ✱ key at step 3. In this case, the display shows the contents programmed for the first port.

Features Guide References

Department Codes

Integrated Services Digital Network (ISDN) Extension

[615-616]   Outgoing Permitted CO Line Assignment – Day/Night for ISDN Extension

Description

Determines the CO lines which can be accessed by an ISDN extension in both day and night modes. The extension users can make outgoing outside calls using the assigned CO lines.

Selection

- ISDN extension port number: **2, 3**
- CO port number: **1 through 3**
- **Enable**/**Disable**

Default

All ports — all CO lines — Enable — Day/Night

Programming

1. Enter a **programme address (615 for day or 616 for night)**.

   `Display example: CO Out(ISDN) Day`

2. Press **NEXT**.

   `Display: Port NO?→`

3. Enter a **port number**.

   To enter a first number, you can also press **NEXT**.

   `Display example: #2 :PRT1:Enabl`

4. Enter the desired **CO port number**, or keep pressing → or ← until the desired CO port number is displayed.

   To change the current entry, press the number.

5. Keep pressing **SELECT** until the desired selection is displayed.

6. Press **STORE**.

7. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

8. Repeat steps 4 through 7.

9. Press **END**.

Conditions

- To assign all ports to one selection, press the ✶ key at step 3. In this case, the display shows the contents programmed for the first port.
- To assign all CO ports to one selection, press the ✶ key at step 4. In this case, the display shows the contents programmed for PRT 1.

- When you change a port number by pressing **NEXT** or **PREV**, the CO line number is not changed.
  Example #2:PRT2.......Pressing **NEXT**....#3:PRT2

Features Guide References

CO Line Connection Assignment — Outgoing

Integrated Services Digital Network (ISDN) Extension

Day/Night Service

[617]   Live Call Screening Recording Mode Assignment

Description

Assigns whether to close the mailbox or to keep recording the conversation after the call is intercepted.

Note

Available when the Digital Super Hybrid System is connected to a Digital Proprietary Telephone capable Panasonic Voice Processing System (one that supports digital proprietary telephone (DPT) integration).

Selection

- Jack number: **1-8**
- **Stop Record/Keep Record**

Default

All jacks — Stop Record

Programming

1. Enter **617**.

```
Display: LCS Rec. Mode
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a jack number.

To enter jack number 1, you can also press **NEXT**.

```
Display example: #1:Stop Record
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack numbers, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- For an explanation of jack numbering, see "Rotation of jack number" in Section 1.3   Programming Ways.
- To assign all jacks to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for jack 1.

Features Guide References

Live Call Screening (LCS)

Voice Mail Integration for Digital Proprietary Telephones

[622]   Incoming Call Display

Description

Allows you to choose between 3 display types when an incoming call is received.
If you select the display type "Caller", the incoming caller's telephone number and name are displayed. "CO line" means the CO port name assigned in the programme [421]   CO Port Name are displayed. If you select the display type "Called Party", the called party's (DDI/MSN) number and extension name are displayed.

Selection

- Jack number: **1 through 8**
- Display Types: **Caller/CO Line/Called Party**

Default

All jacks — Caller

Programming

1. Enter **622**.

```
Display: Incoming Display
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 1, you can also press **NEXT**.

```
Display example: #1:Caller
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- To assign all jacks to one selection, press the ✱ key in step 3. In this case, the display shows the contents programmed for jack 1.

Features Guide References

CO Incoming Call Information Display
Display, Call Information

[623] CLIP/COLP Number Assignment for Extension

Description

Assigns a CLIP/COLP number for each extension.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- System Speed Dialling/Intelligent Call Handling group number: **CLIP: 0 through 4**; **COLP: 0 through 6**
- **BI** (Business, CLIP)/**PI** (Private, CLIP)/**BP** (Business, COLP)/**PP** (Private, COLP)/**AL** (All)
- CLIP/COLP number: **32 digits (max.)**

Default

All jacks — Not Stored

Programming

1. Enter **623**.

   Display: CLIP/COLP NO.

2. Press **NEXT**.

   Display: Jack NO?→

3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering the jack number.

   Display example: #1-1:0:BI:

4. Enter a **group number**.

   To change the current entry, press **CLEAR** and enter the new number.

5. Press →.

6. Keep pressing **SELECT** until the desired selection is displayed.

7. Press →.

8. Enter a **CLIP/COLP number**.

   To change the current entry, press **CLEAR** and enter the new number.

9. Press **STORE**.

10. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

11. Repeat steps 4 through 6.

12. Press **END**.

Conditions

- Each CLIP/COLP number consists of digits **0 through 9**.
- To assign the same CLIP/COLP number to BI, PI, BP and PP, select "AL" in step 6.
- To assign all jacks to one selection, press the ✶ key in step 3. In this case, the display will show the contents programmed for jack 1.

Features Guide References

Calling/Connected Line Identification Presentation (CLIP/COLP)

[624] CLIP/COLP Number Assignment for ISDN Extension

Description

Assigns a CLIP/COLP number for each ISDN extension port.

Selection

- ISDN Port number: **2, 3**
- System Speed Dialling/Intelligent Call Handling group number: **CLIP: 0 through 4**; **COLP: 0 through 6**
- **BI** (Business, CLIP)/**PI** (Private, CLIP)/**BP** (Business, COLP)/**PP** (Private, COLP)/**AL** (All)
- CLIP/COLP number: **32 digits (max.)**

Default

All ports — Not Stored

Programming

1. Enter **624**.

   `Display: ISDN CLIP/COLP`

2. Press **NEXT**.

   `Display: Port NO?→`

3. Enter a **port number**.

   To enter port number 2 or 3, you can also press **NEXT**.

   `Display example: #2:0:BI:`

4. Enter a **group number**.

   To change the current entry, press **CLEAR** and enter the new number.

5. Press →.

6. Keep pressing **SELECT** until the desired selection is displayed.

7. Press →.

8. Enter a **CLIP/COLP number**.

   To change the current entry, press **CLEAR** and enter the new number.

9. Press **STORE**.

10. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

11. Repeat steps 4 through 6.

12. Press **END**.

Conditions

- Each CLIP/COLP number consists of digits **0 through 9**.
- To assign the same CLIP/COLP number to BI, PI, BP and PP, select "AL" in step 6.
- To assign all ports to one selection, press the ✻ key in step 3. In this case, the display will show the contents programmed for the first port.

Features Guide References

Calling/Connected Line Identification Presentation (CLIP/COLP)

[625-626]   Built-in Voice Message for Extension — Day/Night

Description

Sets the Built-in Voice Message (BV) feature to each extension in both day and night mode.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
    (-1 = first part, -2 = second part)
- **BV/Disable**

Default

All jacks — BV

Programming

1. Enter the **programme address (625 for day or 626 for night)**.

    Display: Ext BV Day

2. Press **NEXT**.

    Display: Jack NO?→

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    Display example: #1-1:BV

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Optional Voice Message Card (KX-TD61291) is required.

Features Guide References

Built-in Voice Message

[627] Voice Message Resource Assignment

Description

Assigns a personal voice message box to either resource.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- BV resource number: **BV1/BV2**

Default

Jack 1-1: BV1

Jack 2-1: BV1

Other jacks: BV2

Programming

1. Enter **627**.

  Display: BV Resource

2. Press **NEXT**.

  Display: Jack NO?→

3. Enter a **jack number**.

  To enter jack number 1, you can also press **NEXT**.

  To select the second part (-2), press **NEXT** after entering a jack number.

  Display example: #1-1:BV1

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Optional Voice Message Card (KX-TD61291) is required.
- When you re-assign the personal voice message box of an extension to a different resource, keep in mind that all voice messages that have been stored prior to re-assignment will be deleted.

Features Guide References

Built-in Voice Message

[628] Built-in Voice Message Access Code through CO Line

Description

Assigns the Built-in Voice Message (BV) access code through a CO line to each jack.

Note

Every access code must be unique.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
  (-1 = first part, -2 = second part)
- Access code: **4 through 10 digits (0 through 9)**

Default

DPT extensions :

Jack 1-1 : 0201/Jack 2-1 : 0202/Jack 3-1 : 0203/Jack 4-1 : 0204/Jack 5-1 : 0205/Jack 6-1 : 0206
/Jack 7-1 : 0207/Jack 8-1 : 0208

XDP extensions :

Jack 1-2 : 0301/Jack 2-2 : 0302/Jack 3-2 : 0303/Jack 4-2 : 0304

Programming

1. Enter **628**.

   ```
   Display: BV Access Code
   ```

2. Press **NEXT**.

   ```
   Display: Jack NO?→
   ```

3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**.

   To select the second part (-2), press **NEXT** after entering a jack number.

   ```
   Display example: #1-1:0201
   ```

4. Enter the **desired code**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and enter the new code.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- Optional Voice Message Card (KX-TD61291) is required.
- Must be 4 through 10 digits, from **0 through 9**.
- You cannot leave the entry empty.
- A code which starts with redundant digits to another BV Access Code is invalid. For example, if you assign the codes "1234" and "12345", "12345" cannot be selected since "1234" is selected prior to "12345".

Features Guide References

Built-in Voice Message
Direct Inward System Access (DISA)

[629]   Telephone Answering Machine (TAM) Connection Assignment

Description

Enables or disables a TAM connection.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**
                    (-1 = first part, -2 = second part)
- **Enable/Disable**

Default

All jacks — Disable

Programming

1. Enter **629**.

    ```
    Display: TAM Connect Ass.
    ```
2. Press **NEXT**.

    ```
    Display: Jack NO?→
    ```
3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    ```
    Display example: #1-1:Disable
    ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- Normally, a TAM should be connected as an XDP extension. There is no such thing as a DPT extension.

Features Guide References

Call Retrieving, Telephone Answering Machine (TAM)

[630]   ISDN Bearer Mode

Description

Assigns the ISDN bearer mode.

Selection

- Jack number: **1-4 (-1/-2), 5-8 (-1)**

    (-1 = first part, -2 = second part)
- **Automatic/Speech/Audio** (3.1 kHz Audio)

Default

All jacks — Automatic

Programming

1. Enter **634**.

    Display: Bearer Mode
2. Press **NEXT**.

    Display: Jack NO?→
3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    To select the second part (-2), press **NEXT** after entering a jack number.

    Display: #1-1:Automatic
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

None

Features Guide References

None

[631] CLIP/COLP Number Assignment for ISDN Port

Description

Assigns a CLIP/COLP number for each ISDN (BRI) port.

Selection

- Port number: **1 through 3**
- **BI** (Business, CLIP)/**PI** (Private, CLIP)/**BP** (Business, COLP)/**PP** (Private, COLP)/**AL** (All)
- CLIP/COLP number: **32 digits (max.)**

Default

All ports — Not Stored

Programming

1. Enter **631**.

   ```
   Display: CO CLIP/COLP
   ```
2. Press **NEXT**.

   ```
   Display: Port NO?→
   ```
3. Enter a **port number**.

   To enter a first port number, you can also press **NEXT**.

   ```
   Display example: #1:BI:
   ```
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press →.
6. Enter a **CLIP/COLP number**.

   To change the current entry, press **CLEAR** and enter the new number.
7. Press **STORE**.
8. To program another port, press **NEXT** or **PREV**, or **SELECT** and enter the desired **port number**.
9. Repeat steps 4 through 8.
10. Press **END**.

Conditions

- Each CLIP/COLP number consists of digits **0 through 9**.
- To assign the same CLIP/COLP number to BI, PI, BP and PP, select "AL" in step 4.
- To assign all ports to one selection, press the ✳ key in step 3. In this case, the display will show the contents programmed for the first port.

- If DDI/MSN number not in the contract has been assigned as CLIP/COLP, the number might not be displayed properly.
- Class of Service will be applied. Refer to [601] Class of Service in this manual.
- After setting this programme, please perform System Data Default Set.

Features Guide References

Calling/Connected Line Identification Presentation (CLIP/COLP)

System Data Default Set

[632]   Caller ID

Description

Enables or disables the ability to send Caller ID information to a single line telephone (SLT).

Selection

- Jack number: **1 through 4**
- **Enable/Disable**

Default

All jacks — Disable

Programming

1. Enter **632**.

    ```
    Display: Caller ID Asn
    ```

2. Press **NEXT**.

    ```
    Display: Jack NO?→
    ```

3. Enter a **jack number**.

    To enter jack number 1, you can also press **NEXT**.

    ```
    Display example: #1:Disable
    ```

4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

An optional Caller ID Sending Card with 1 CO I/F, KX-TD61283, is required.

Features Guide References

Caller ID

[633] Caller ID Line Access Number

Description

Enables or disables the ability to add and show a line access number before a telephone number of a calling party when presenting Caller ID information.

Selection

Enable/Disable

Default

Enable

Programming

1. Enter **633**.

   ```
   Display: CID Line Acs NO.
   ```
2. Press **NEXT**.

   ```
   Display example: Line Acs :Enabl
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

An optional Caller ID Sending Card with 1 CO I/F, KX-TD61283, is required.

Features Guide References

Caller ID

[634]   Caller ID Type

Description

Selects the type of Caller ID.

Selection

During Ring/Pre-Ring

Default

During Ring

Programming

1. Enter **634**.

    ```
    Display: Caller ID Type
    ```
2. Press **NEXT**.

    ```
    Display example: Type:During Ring
    ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

- An optional Caller ID Sending Card with 1 CO I/F, KX-TD61283, is required.
- To enable Caller ID feature, it may be required to set the type of Caller ID identical with the one of the public exchange.

Features Guide References

Caller ID

[635] Caller ID Parameter

Description

Selects Caller ID parameter to send to a single line telephone.

Selection

Date and Time/Name: **Enable/Disable**

Default

Date and Time/Name — Enable

Programming

1. Enter **635**.

        Display: CID Parameter

2. Press **NEXT** to program Date.

        Display example: Date:Enable

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. To program Name, press **NEXT** or **PREV**.

        Display example: Name:Enable

6. Keep pressing **SELECT** until the desired selection is displayed.

7. Press **STORE**.

8. Press **END**.

Conditions

An optional Caller ID Sending Card with 1 CO I/F, KX-TD61283, is required.

Features Guide References

Caller ID

[636]   Single Line Telephone Bell Cadence

Description

Determines bell cadence of single line telephones.

Selection

- Bell on (milliseconds): **1000 through 2000**
- Bell off (milliseconds): **1000 through 5000**

Default

Bell on: 1200 ms/Bell off: 3800 ms

Programming

1. Enter **636**.

```
Display: SLT Bell Cadence
```

2. Press **NEXT** to program Bell On time

```
Display example: Bell On :1200ms
```

3. Enter the **Bell On time**.

To change the current entry, press **CLEAR** and enter the new Bell On time.

4. Press **STORE**.

5. To program Bell Off time, press **NEXT** or **PREV**.

```
Display example: Bell Off :3800ms
```

6. Enter the **Bell Off time**.

To change the current entry, press **CLEAR** and enter the new Bell Off time.

7. Press **STORE**.

8. Press **END**.

Conditions

- This programming is available in units of 100 ms.
- This assignment is available regardless of programme [632]   Caller ID.
- To enable Caller ID feature, it may be required to set the bell cadence identical with the one of the public exchange.

Features Guide References

Caller ID

[637]   Single Line Telephone Bell Pattern

Description

Sets the ringing pattern of each single line telephone to the pattern of one long bell (single bell) or two short bells (double bell) when receiving an outside or intercom call.

Selection

- Jack number: **1 through 4**
- **Single/Double/Automatic**

Default

Automatic

Programming

1. Enter **637**.

```
Display: SLT Bell Type
```

2. Press **NEXT**.

```
Display: Jack NO?→
```

3. Enter a **jack number**.

To enter jack number 1, you can also press **NEXT**.

```
Display example: #1:Automatic
```

4. Keep pressing **SELECT** until the desired selection is displayed.

5. Press **STORE**.

6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- When "Automatic" is selected, it allows SLT users to draw a distinction between outside calls and intercom calls.
- This assignment is available regardless of programme [632]   Caller ID.
- To enable Caller ID feature, it may be required to set the bell pattern identical with the one of the public exchange.

Features Guide References

Caller ID

Section 9

LCR Programming

9.1   LCR Programming

[7000]   LCR Mode

Description

Allows you to turn on or off the Least Cost Routing (LCR) mode. LCR, if enabled, selects the least expensive route to be used for an outside call.

Selection

* **On/Off**

Default

Off

Programming

1. Enter **7000**.

   ```
   Display: LCR Mode
   ```
2. Press **NEXT**.

   ```
   Display example: LCR:Off
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

* If "Off" is selected, the Automatic Line Access feature functions in place of LCR.

Features Guide References

Least Cost Routing (LCR)
Line Access, Automatic

[7002]   BTL Access Code

Description

Stores the BTL (British Telecom Line) access code.

Selection

- BTL access code: **10 digits (max.)**

Default

121

Programming

1. Enter **7002**.

    Display: BTL Access Code

2. Press **NEXT**.

    Display example: 121

3. Enter a **BTL access code**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new code.

4. Press **STORE**.

5. Press **END**.

Conditions

- The BTL access code can be a maximum of 10 digits, consisting of **0 through 9**.

Features Guide References

Least Cost Routing (LCR)

[7003]   Itemised Code Set

Description

Registers an itemised code applied to an extension. The registered code is inserted into the "I" command position stored in program [7X22] "LCR Carrier Modify Command."

Selection

- Jack number: **1-4(-1/-2)**, **5-8(-1)**
  (-1 = first part, -2 = second part)
- Itemised code: **4 digits (max.)**

Default

All jacks – Not Stored

Programming

1. Enter **7003**.

   ```
   Display: Itemised Code
   ```
2. Press **NEXT**.

   ```
   Display: Jack NO?->
   ```
3. Enter a **jack number**.

   To enter jack number 1, you can also press **NEXT**. To select the second part (-2), press **NEXT** after entering a jack number.

   ```
   Display example: #1-1: Not Stored
   ```
4. Enter an **itemised code**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new code.
5. Press **STORE**.
6. To program another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- There is a maximum of 12 itemised codes. Each code has a maximum of 4 digits, consisting of **0 through 9**.

Features Guide References

Least Cost Routing (LCR)

[7004]   ISDN Itemised Code Set

Description

Registers an itemised code applied to an ISDN extension. The registered code is inserted into the "I" command position stored in program [7X22] "LCR Carrier Modify Command."

Selection

- Port number: **2 and 3**
- Itemised code: **4 digits (max.)**

Default

All ports – Not Stored

Programming

1. Enter **7004**.

    Display: ISDN Itemised CD

2. Press **NEXT**.

    Display: Port NO?->

3. Enter a **port number**.

    To enter port number 3, you can also press **NEXT**.

    Display example: #3: Not Stored

4. Enter an **itemised code**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new code.

5. Press **STORE**.

6. To program another port, press **NEXT** or **PREV**, or **SELECT** and the desired **port number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 2 itemised codes. Each code has a maximum of 4 digits, consisting of **0 through 9**.

Features Guide References

Least Cost Routing (LCR)

[7X0Y]   LCR Leading Digit Entry for Plan 1-8

Description

By entering numbers into leading digit plan for a maximum of eight carriers, you are starting the process to determine which CO port will be used to route the call.

Selection

- Program address: **7X0Y**, **X:1-8** (carrier number), **Y:1-8** (table number)
- Location number: **01 through 80**
- Leading digit number: **7 digits (max.)**

Default

Carrier/Table 1: Location 01 – *****
All other locations – Not stored

Programming

1. Enter a **program address (7X0Y)**.

   ```
   Display example: LCR L-Digit C1-1
   ```
2. Press **NEXT**.

   ```
   Display: Location NO?->
   ```
3. Enter a **location number**.

   To enter location number 01, you can also press **NEXT**.

   ```
   Display example: 01:Not Stored
   ```
4. Enter a **leading digit number**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new number.
5. Press **STORE**.
6. To program another location, press **NEXT** or **PREV**, or **SELECT** and the desired **location number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- There is a maximum of 80 leading digit numbers. Each number has a maximum of 7 digits, consisting of **0 through 9**, and ✳ . The character "✳" can be used as a wild card character.
- The same code with different digits may be assigned in this program or in program [7X20] "LCR Exceptional Code." In this case, the code which has smaller digits takes the more expensive route is priority. To prevent this, enter "✳" (wild card) after the code with the

smaller digits. Examples are shown below:

<Examples>

a) The code priority is as follows:

"44" in programme [7201] > "444" in programme [7101] In this case, "44✻" should be assigned in programme [7201].

b) The code priority is as follows:

"332" in programme [7120] > "3323" in programme [7120] In this case, "32✻ should be assigned in programme [7120].

Features Guide References

Least Cost Routing (LCR)

[7X1Y]   LCR Time and Fee for Plan 1-8

Description

Assigns time schedules and charged fees for a maximum of 8 carriers. It is possible to split a day into 4 time zones max so that the least expensive line is selected for that time. According to the service hours and charges offered by your carriers, enter the starting time of each zone.

Selection

- Program address: **7X1Y**, **X:1-8** (carrier number), **Y:1-8** (table number)
- Day of the week selection number: **1 through 7**

  1: Sunday
  2: Monday
  3: Tuesday
  4: Wednesday
  5: Thursday
  6: Friday
  7: Saturday

- Time schedule: **1-4**
- Starting time: **00-23** (hours), **00-59** (minutes)
- Fee: **00-99** (pounds), **00-99** (pence)

Default

Not stored

Programming

1. Enter a **program address (7X1Y)**.

    Display: Time & Fee C1-1

2. Press **NEXT**.

    Display: Week NO?->

3. Enter a **day of the week selection number**.

To program Monday, you can also press **NEXT**.

    Display example: mo1:12:00 10.10

To program another time schedule of the day, keep pressing **NEXT** or **PREV** until the desired time schedule is displayed.

4. Enter the **starting time** (hours and minutes), moving the cursor with ➡ and ⬅ buttons.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

5. Press ➡ to enter the fee.

6. Enter the fee (pounds and pence), moving the cursor with ➡ or ⬅ buttons.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

7. Press **STORE**.

8. To program another time schedule, press **NEXT** or **PREV**.

9. Repeat steps 4 through 10.

10. Press **END**.

Conditions

- The times must be programmed in sequence from Time-1 to Time-4.

Features Guide References

Least Cost Routing (LCR)

[7X20]   LCR Exceptional Code

Description

Assigns dialling numbers that are excepted from LCR routing plans of the specified carrier. They are sent out to a CO selected from automatic access CO line groups.

Selection

- Program address: **7X20**, **X: 1-8** (carrier number)
- Location number: **01 through 80**
- Exceptional code: **7 digits (max.)**

Default

All locations – Not stored

Programming

1. Enter a **program address (7X20)**.

```
Display example: EXCP Digit C1
```

2. Press **NEXT**.

```
Display: Location NO?->
```

3. Enter a **location number**.

To enter location number 01, you can also press **NEXT**.

```
Display example: 01:Not Stored
```

4. Enter an **exceptional code**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. To program another location, press **NEXT** or **PREV**, or**SELECT** and the desired **location number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- There is a maximum of 80 exceptional codes for each carrier. Each code has a maximum of 7 digits, consisting of **0 through 9**, and ✱. The character "✱" can be used as a wild card character.
- The same code with different digits may be assigned in this program or in program [7X0Y] "LCR Leading Digit Entry for Plan 1-8." In this case, the code which has smaller digits takes the more expensive route is priority. To prevent this, enter "✱" (wild card) after the

code with the smaller digits. Examples are shown below:

\<Examples\>

a) The code priority is as follows:

"44" in program [7201] > "444" in program [7101]

In this case, "44✳" should be assigned in program [7201].

b) The code priority is as follows:

"332" in program [7120] > "3323" in program [7120]

In this case, "332✳" should be assigned in program [7120].

Features Guide References

Least Cost Routing (LCR)

[7X21]   LCR Carrier Code

Description

Assigns carrier access codes used for LCR feature.

Selection

- Program address: **7X21**, **X:1-8** (carrier number)
- Carrier code: **10 digits (max.)**

Default

Program 7121 (carrier 1) – 131;
Other programs (carriers 2-8) – Not stored

Programming

1. Enter a **program address (7X21)**.

    ```
    Display example: Carrier Code C1
    ```
2. Press **NEXT**.

    ```
    Display example: 131
    ```
3. Enter the **carrier code**.

    To delete the current entry, press **CLEAR**.

    To change the current entry, press **CLEAR** and the new number.
4. Press **STORE**.
5. Press **END**.

Conditions

- There is a maximum of 8 carrier codes. Each code has a maximum of 10 digits, consisting of **0 through 9**.

Features Guide References

Least Cost Routing (LCR)

[7X22] LCR Carrier Modify Command

Description

Assigns modification commands applied to carrier numbers. Dialled numbers are modified according to the programmed commands. Available commands are as follows:

C : Insert carrier code
P : Send pause
T : Change to tone (DTMF) mode
A : Insert Authorisation code
I : Insert Itemised code
H : Home Position

Selection

- Program address: **7X22**, **X:1-8** (carrier number)
- **C/P/T/A/I/H, 16 entries (max.)**

Default

Program 7122 (carrier 1) – CPTAIH;

Other programs (carriers 2-8) – Not stored

Programming

1. Enter a **program address (7X22)**.

   ```
   Display example: Modify Command C1
   ```

2. Press **NEXT**.

   ```
   Display example: CPTAIH
   ```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. To select other commands for the same carrier, press ➡ and press SELECT for the desired command until all the required entries are completed.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new number.

5. Press **STORE**.

6. Press **END**.

Conditions

- There is a maximum of 8 carriers, each of which can be given a maximum of 16 commands.

Features Guide References

Least Cost Routing (LCR)

[7X23]   LCR CO Port Assignment

Description

Assigns **CO ports** that correspond to an LCR carrier.

Selection

- Program address: **7X23**, **X:1-8** (carrier number)
- CO port number: **1 through 4 (4: Analogue CO)**, **4 entries (max.)**

Default

Program 7123 (carrier 1) – 1234

Other programs (carriers 2-3) – Not stored

Programming

1. Enter a **program address (7X23)**.

```
Display example: Port No Assign C1
```

2. Press **NEXT**.

```
Display example: 1234
```

3. Enter **CO port numbers** in succession.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and the new number.

4. Press **STORE**.

5. Press **END**.

Conditions

- There is a maximum of 8 carriers, each of which can be given a maximum of 4 CO port.

Features Guide References

Least Cost Routing (LCR)

[7X24] LCR Authorisation Code

Description

Registers an authorisation code applied to a CO port.
The registered code is inserted into the "A" command position stored in programme [7X22] "LCR Carrier Modify Command."

Selection

- Program address: **7X24**, **X:1-8** (carrier number)
- CO port number: **1 through 4 (4: Analogue CO)**, ✶ (✶=all CO ports)
- Authorization code: **20 digits (max.)**

Default

All programs – Not stored

Programming

1. Enter a **program address (7X24)**.

   ```
   Display example: Authorise Code C1
   ```
2. Press **NEXT**.

   ```
   Display example: Port NO?->
   ```
3. Enter **CO port number**.

   To enter CO port number 1, you can also press **NEXT**.

   ```
   Display example: #1: Not Stored
   ```
4. Enter an **authorisation code**.

   To delete the current entry, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new code.
5. Press **STORE**.
6. To program another CO port, press **NEXT** or **PREV**, or**SELECT** and the desired **CO port number**.
7. Repeat steps 4 through 6.
8. Press **END**.

Conditions

- There is a maximum of 4 CO ports, each of which can be given an authorisation code.

Features Guide References

Least Cost Routing (LCR)

Section   10

Resource Programming

10.1 Resource Programming

[800] SMDR Incoming/Outgoing Call Log Printout

Description

Used to determine which calls will produce an SMDR printout.

Selection

- Outgoing calls: **All** (All calls)/**Toll** (Toll calls only)/**Off** (No printing)
- Incoming calls: **On** (All calls)/**Off** (No printing)

Default

Outgoing calls — Off; Incoming calls — Off

Programming

1. Enter **800**.

   `Display: Duration Log`
2. Press **NEXT** to program outgoing calls.

   `Display: Outgoing:Off`
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **NEXT** to program incoming calls.

   `Display: Incoming:Off`
6. Keep pressing **SELECT** until the desired selection is displayed.
7. Press **STORE**.
8. Press **END**.

Conditions

- It is necessary to connect a printer to the Serial Interface (RS-232C) port provided on the system.
- After connecting a printer, printout will be started in 10 seconds.
- If "Toll" is selected, the system will print out all the calls starting from the numbers stored in programmes [301-305]   TRS Denied Code Entry for Levels 2 through 6.

Features Guide References

Station Message Detail Recording (SMDR)

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[801]   SMDR Format

Description

Used to match the SMDR output to the paper size being used in the printer. Page length determines the number of lines per page. Skip perforation determines the number of lines to be skipped at the end of every page. Page width determines the number of characters per line.

Selection

- Page length (lines): **4 through 99**
- Skip perforation (lines): **0 through 95**
- Page width (characters): **80/100**

Default

Page length — 66; Skip perforation — 0; Page width — 80

Programming

1. Enter **801**.

```
Display: SMDR Format
```

2. Press **NEXT** to program page length.

```
Display example: Page Length:66
```

3. Enter the **page length**.

To change the current entry, press **CLEAR** and enter the new page length.

4. Press **STORE**.

5. Press **NEXT** to program skip perforation.

```
Display example: Skip Perf: 0
```

6. Enter the **skip perforation**.

To change the current entry, press **CLEAR** and enter the new skip perforation.

7. Press **STORE**.

8. Press **NEXT** to program page width.

```
Display example: Page Width:80
```

9. Keep pressing **SELECT** until the desired selection is displayed.

10. Press **STORE**.

11. Press **END**.

Conditions

- The page length should be at least 4 lines longer than the skip perforation length.
- If 80 characters for page width is selected, the last 5 digits of account codes are not printed out.

- A title is positioned on the first 3 lines of every page.
- The programmed format becomes valid only if the Serial Interface (RS-232C) cable is connected. If a printer is already connected, disconnect it and connect again. Otherwise the former format becomes valid.

Features Guide References

Station Message Detail Recording (SMDR)

[802]   System Data Printout

Description

Starts or stops printing of the system data. All the current system-programmed data is printed out.

Selection

Start/Stop

Default

Not applicable.

Programming

1. Enter **802**.

```
Display: System Data Dump
```

2. Press **NEXT**.

```
Display: Print-Out:Start
```

3. Press **STORE** to start printing.

Printing starts.
To stop printing in the middle of printing, press **SELECT** and go to step 4.
When printing is completed, the display shows:

```
Display: Print-Out:Finish
```

4. Press **STORE**.

```
Display: Print-Out:Stop
```

5. Press **END**.

Conditions

You may stop printing by pressing the **END** button, while records are being printed out.

Features Guide References

Station Message Detail Recording (SMDR)

[803]   Music Source Use

Description

Assigns the music source to be used for Music on Hold and Background Music (BGM).

Selection

- Hold: **Music** (External Music)/**No Use**
- BGM: **Music** (External Music)/**No Use**

Default

Hold: Music (External Music)

BGM: Music (External Music)

Programming

1. Enter **803**.

    Display: Music Source Use

2. Press **NEXT** to program Music on Hold.

    Display example: Hold:Music

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **NEXT** to program BGM.

    Display example: BGM: Music

6. Keep pressing **SELECT** until the desired selection is displayed.

7. Press **STORE**.

8. Press **END**.

Conditions

- Programme [804]   External Pager BGM is used to enable/disable BGM.
- To send music during on hold, you have to assign [990]   System Additional Information, Area 07 — Bit 7 as Selection 1: Music, otherwise tone will be heard.

Features Guide References

Background Music (BGM)

Background Music (BGM) — External

Music on Hold

[804]   External Pager BGM

Description

Used to determine whether external pagers will receive Background Music (BGM). BGM — External is turned on and off by an operator.

Selection

Enable/Disable

Default

Disable

Programming

1. Enter **804**.

```
Display: Ext-Pag BGM
```

2. Press **NEXT**.

```
Display example: Pager :Disable
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

- Programme [803]   Music Source Use is used to select the music source to be used for BGM.

Features Guide References

Background Music (BGM) — External

[805]   External Pager Confirmation Tone

Description

Used to remove the confirmation tone for the external pager. The default setting sends confirmation tone 2 to the external pager before paging is broadcast.

Selection

On/Off

Default

On

Programming

1. Enter **805**.

```
Display: Ext-Pag Ack-Tone
```

2. Press **NEXT**.

```
Display example: Tone:On
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

None

Features Guide References

Confirmation Tone
Paging — All
Paging — External

[806]   RS-232C Parameters

Description

Assigns the communication parameters for the Serial Interface (RS-232C) for Port 1.

New Line Code: Select the code for your printer or personal computer. If your printer or personal computer automatically feeds lines with carriage return, select "CR." If not, select "CR+LF."

Baud Rate: A baud rate code indicates the data transmission speed from the system to the printer or personal computer.

Word Length: A word length code indicates how many bits compose a character.

Parity Bit: 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.

Stop Bit Length: 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.

Selection

- New line code: **CR+LF/CR** (CR=Carriage Return, LF=Line Feed)
- Baud rate (baud): **150/300/600/1200/2400/4800/9600**
- Word length (bits): **7/8**
- Parity bit: **None/Mark/Space/Even/Odd**
- Stop bit length (bits): **1/2**

Default

New line code = CR+LF; Baud rate = 9600; Word length = 8;

Parity bit = None; Stop bit length = 1 — Port 1

Programming

1. Enter **806**.

   ```
   Display example: RS232C Paramet.1
   ```
2. Press **NEXT** to program new line code.

   ```
   Display example: NL-Code:CR+LF
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **NEXT** to program baud rate.

   ```
   Display example: Baud Rate:9600
   ```
6. Keep pressing **SELECT** until the desired selection is displayed.
7. Press **STORE**.

---

8. Press **NEXT** to program word length.

> Display example: Word Lengt:8bits

9. Keep pressing **SELECT** until the desired selection is displayed.

10. Press **STORE**.

11. Press **NEXT** to program parity bit.

> Display example: Parity:None

12. Keep pressing **SELECT** until the desired selection is displayed.

13. Press **STORE**.

14. Press **NEXT** to program stop bit.

> Display example: Stop Bit:1bit

15. Keep pressing **SELECT** until the desired selection is displayed.

16. Press **STORE**.

17. Press **END**.

Conditions

- The following combinations are invalid.

Parity	Word Length	Stop Bit
Mark	8	2
Space	8	1
Space	8	2

- The programme address of the out-of-service system port is unacceptable.

Features Guide References

Station Message Detail Recording (SMDR)

[809]   DISA Security Type

Description

Assigns the security mode for outside calls attempted by the DISA (Direct Inward System Access) caller. There are 3 modes: Non Security, Trunk Security (outside line security) and All Security. Non Security mode allows the caller to access an outside line or make an intercom call without dialling a DISA user code. Trunk Security mode requires the caller to enter a DISA user code before making an outside call. All Security mode requires the caller to enter a DISA user code before making an outside call or an intercom call.

Selection

- **Trunk/All/Non**

Default

Trunk

Programming

1. Enter **809**.

```
Display example: DISA Security
```

2. Press **NEXT**.

```
Display: Security:Trunk
```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE**.

5. Press **END**.

Conditions

None

Features Guide References

Direct Inward System Access (DISA)

[810] DISA Tone Detection

Description

Enables or disables Tone Detection for the Direct Inward System Access (DISA) feature or the Built-in Voice Message feature when receiving a call from an analogue CO line. Enabling tone detection allows the system to detect the end of the call.

Selection

Enable/Disable

Default

Enable

Programming

1. Enter **810.**

    ```
    Display: DISA Tone Detect
    ```

2. Press **NEXT.**

    ```
    Display: Tone DTC:Enable
    ```

3. Keep pressing **SELECT** until the desired selection is displayed.

4. Press **STORE.**

5. Press **END.**

Conditions

None

Features Guide References

Direct Inward System Access (DISA)

[811]   DISA User Codes

Description

Assigns the DISA (Direct Inward System Access) and a Class of Service (COS) to each code. The code COS determines the toll restriction level of the DISA caller.

<u>Warning</u>

When you enable the Outside – Outside Line Call feature of DISA function, if a third party discovers the password (a DISA User Code) of the system, you have a risk that they will make illegal phone calls using your telephone line, and the cost may be charged to your account. In order to avoid this problem, we strongly recommend the following points:

a) Carefully maintain the secrecy of the password.

b) Specify a complicated password with several digits.

c) Change the password frequently (at least once per month).

Selection

- User code (01-32): **4 through 10 digits**
- COS number: **1 through 8**

Default

All COS number – 8

All user codes – Not stored

Programming

1. Enter **811**.

```
Display: DISA User Code
```

2. Press **NEXT**.

```
Display: User Code NO?→
```

3. Enter a **user code number**.

To enter user code number 01, you can also press **NEXT**.

```
Display example: 01:              C:8
```

4. Enter the **desired user code** (4-10 digits).

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and enter the desired **user code**.

5. Press →.

6. Enter a **COS number**.

To change the current entry, press **CLEAR** and enter the new number.

7. Press **STORE**.

8. To program another user code number, press **NEXT** or **PREV**, or **SELECT** and the desired user code.

---

9. Repeat steps 4 through 8.

10. Press **END**.

Conditions

- Each code should be different and composed of 4 to 10 digits, from **0 through 9**. The ✳ and # keys cannot be used.
- A code which starts with redundant digits to another DISA User Code is invalid. For example, if you assign the codes "1234" and "12345", "12345" cannot be selected since "1234" is selected prior to "12345".
- This setting is required if Trunk (Outside line) Security mode or All Security mode is selected in programme [809]　DISA Security Type.

Features Guide References

Direct Inward System Access (DISA)

[813]   Floating Number Assignment

Description

Assigns the floating numbers for the External Pager, Digital Test Access (DTA), Second Ringer and Hunting Groups. These numbers can be used the same way extension numbers are used for station access.

Selection

- Floating station:
  Pager (External Pager)**/DTA/2nd Ringer** (Second Ringer)**/Hunt Grp** (Hunting Group) **01 through 32**
- Floating number:
  2 to 4 digits/No floating number

Default

Pager = 296, Ringer = 298, Hunting Group = Not Stored, DTA = 399

Programming

1. Enter **813**.

   Display: FLT EXT NO.

2. Press **NEXT** to program Pager.

   Display example: Pager   :296

   To program another floating station, keep pressing **NEXT** or **PREV** until the desired floating station is displayed.

3. Enter a **floating number**.

   To program no floating number, press **CLEAR**.

   To change the current entry, press **CLEAR** and the new floating number.

4. Press **STORE**.

5. To program another floating station, keep pressing **NEXT** or **PREV** until the desired floating station is displayed.

6. Repeat steps 3 through 5.

7. Press **END**.

Conditions

- A floating number is composed of 2 to 4 numerical digits, **0 through 9**.
- The leading 1 or 2 digits of the floating numbers are subject to program [100]   Flexible Numbering, (01) through (16) 1st through 16th hundred extension blocks.

- Floating numbers and extension numbers should be unique. Double entry and incompatible entry for these numbers are invalid. Valid entry example: 10 and 11, 10 and 110. Invalid entry example: 10 and 106, 210 and 21.
- You can leave the entry empty.
- To avoid making an invalid entry, check the other extension number in programmes [003]   Extension Number Set, [012]   ISDN Extension Number Set, [127]   Voice Mail Extension Number Assignment and [130]   Phantom Extension Number Assignment. The default of each extension number is as follows:

  [003]   Extension Number Set

  201 through 208, 301 through 304

  [012]   ISDN Extension Number Set

  Not stored

  [127]   Voice Mail Extension Number Assignment

  265 through 268

  [130]   Phantom Extension Number Assignment

  Not stored

Features Guide References

Floating Number

[815] DISA Automated Attendant (AA)

Description

Assigns the DISA (Direct Inward System Access) Automated Attendant (AA) number. The extension, ISDN extension, floating extension, Phantom extension, Voice Mail extension number can be assigned as a one digit number and be used as a DISA AA number.

Selection

- DISA AA number: **0 through 9**
- Extension/ISDN extension/floating extension/Phantom extension/Voice Mail extension number: **2 through 4 digits/Not Stored**

Default

All numbers — Not Stored

Programming

1. Enter **815**.

```
Display: DISA AA
```

2. Press **NEXT**.

```
Display: Dial NO?→
```

3. Enter a **DISA AA number**.

To enter DISA AA number 0, you can also press **NEXT**.

```
Display example: Dial 0:Disable
```

4. Enter an **extension number**.

To delete the current entry, press **CLEAR**.

To change the current entry, press **CLEAR** and enter the new number.

5. Press **STORE**.

6. To program another DISA AA number, press **NEXT** or **PREV**, or **SELECT** and the desired **DISA AA number**.

7. Repeat steps 4 through 6.

8. Press **END**.

Conditions

- This system can store up to 10 programmable DISA AA numbers.
- Extension numbers can be assigned in programmes:
  — [003] Extension Number Set
  — [012] ISDN Extension Number Set
  — [127] Voice Mail Extension Number Assignment

— [130]   Phantom Extension Number Assignment
— [813]   Floating Number Assignment

Features Guide References

Direct Inward System Access (DISA)

[820]   OGM Recording

Description

Assigns the OGM recording source.

Selection

- **Hand Set/Ext BGM** (External Music jack)

Default

Hand Set (SP-Phone)

Programming

1. Enter **820**.

   ```
   Display: OGM Recording
   ```
2. Press **NEXT**.

   ```
   Display: OGM:Hand Set
   ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

None

Features Guide References

Outgoing Message (OGM)

[822] Built-in Voice Message Total Recording Time

Description

Assigns the total recording time for each Built-in Voice Message (BV) resource (including Outgoing Message).

Note

The total recording time for resource 1 and 2 cannot be programmed separately.

Selection

60 minutes (Low quality)/30 minutes (Normal quality)/20 minutes (High quality)

Default

30 min

Programming

1. Enter **822**.

    ```
    Display: BV Total Time
    ```
2. Press **NEXT**.

    ```
    Display: Time:30 min
    ```
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. Press **END**.

Conditions

- An optional voice message card (KX-TD61291) is required.
- The longer the recording time is, the poorer the sound quality may be.

Features Guide References

Built-in Voice Message
Outgoing Message (OGM)

[895]   OGM and Voice Message Clear

Description

Erases all outgoing messages (OGM) and voice messages.

Selection

OGM ALL Clear

Default

Not applicable.

Programming

1. Press **895**.

   Display: OGM MSG Clear
2. Press **NEXT**.

   Display: OGM ALL Clear
3. Press **STORE**.
4. Press **END**.

Conditions

- Before performing this programme, disconnect CO lines and extension lines, except the one accessing to System Programming, from your system so that no one can make/receive calls. Otherwise, the system may not work properly.
- You can perform this programme only when no one else is using the Built-in voice Message feature such as replaying/recording/deleting a voice message or an OGM.

Features Guide References

Built-in Voice Message
Outgoing Message (OGM)

Section   11

Optional Programming

11.1   Optional Programming

[990]   System Additional Information

Description

Allows the following programming items to be changed, if required. Each bit in each Area represents a programming item.

Explanation

Area	Bit	Description	Selection	Default	References
01	1	Sound source during transfer.	**0**: ringback tone **1**: Music on Hold	1	• CALL TRANSFER FEATURES • Music on Hold
	2	Result of pressing the hookswitch lightly and then replacing the handset (during a CO line call [single line telephones only]).	**0**: Consultation Hold **1**: disconnection	0	Call Hold
	3	Determines the result of pressing the R(FLASH) button on digital proprietary telephone (DPT) during an outside call.	**0**: disconnect **1**: sending EFA signal	1	None
	4	Enables or disables the CO pulse feedback tone.	**0**: disable **1**: enable	0	None
	5-7	Reserved			
	8	Enables or disables the dial tone between obtaining a CO line and dialling the phone number when using the one-touch dial, redial or speed dial function.	**0**: disable **1**: enable	1	None
	9	Reserved			
	10	Sets the duration of the DTMF signals sent to the Voice Processing System (VPS) ports.	**0**: 80 ms **1**: 160 ms	0	Voice Mail Integration
	12,11	Sets the time the system waits before sending DTMF signals (such as a mailbox number) to the VPS after the VPS answers a call.	**00**: 0.5 s **01**: 1.0 s **10**: 1.5 s **11**: 2.0 s	10	Voice Mail Integration

Explanation

Area	Bit	Description	Selection	Default	References
01	14,13	Sets the time the system waits before sending DTMF signals (programmed in [113] Voice Mail Status DTMF Set) to the VPS after the VPS calls an extension.	**00**: 0.5 s **01**: 1.0 s **10**: 1.5 s **11**: 2.0 s	10	Voice Mail Integration
	15	Determines whether the system or the VPS turns off the Message Waiting lamp, when the user hears a message recorded in a mailbox.	**0**: system **1**: VPS	0	• Message Waiting • Voice Mail Integration
	16	Enables or disables the ability to turn on the External Relay simultaneously with activating External Paging.	**0**: disable **1**: enable	0	External Relay

Explanation

Area	Bit	Description	Selection	Default	References
02	1	If an outside party is transferred and unanswered, assigns whether Transfer Recall occurs at the originating transfer extension or at the Operator 1.	**0**: extension **1**: Operator	0	Call Transfer, Unscreened — to Extension
	2	If Limited Call Duration is enabled in programme [502] Extension-to-CO Call Duration Limit, assigns if Limited Call Duration is done for both outgoing and incoming calls or for outgoing calls only.	**0**: both calls **1**: outgoing calls only	0	None
	3	Allows you to remove confirmation tone 4. By default, a beep tone sounds when a three-party conference is started/ended.	**0**: disable **1**: enable	1	Confirmation Tone
	4	Determines whether the dialled ✶ and # will be checked by Toll Restriction. This assignment is required for certain central offices (CO) to prevent toll fraud. Some CO's ignore the user-dialled ✶ and #. If your CO is such a type, select "0" (no check).	**0**: no check **1**: check	1	Toll Restriction
	5	Enables or disables the ability for a locked station to use R(FLASH) button while an outside call.	**0**: disable **1**: enable	0	None
	6	Allows you to remove Confirmation Tone 3. This tone is sent when a conversation is established just after dialling the feature numbers for accessing the following : Call Pickup, Paging, Paging Answer, TAFAS Answer, Hold Retrieve and Call Park Retrieve.	**0**: disable **1**: enable	1	Confirmation Tone

Explanation

Area	Bit	Description	Selection	Default	References
02	7	An outside line set to pulse or call blocking mode in programme [402] Dial Mode Selection can have two settings. This assigns the pulse break ratio during dial pulsing. Select an appropriate ratio depending on the standard in your country.	**0**: 60 % **1**: 67 %	1	None
	8	Determines whether an extension's mailbox number is substituted by the extension number or is programmable (free). If a call is forwarded or rerouted to the VPS, this system automatically transmits the mailbox number to the VPS to specify the user's mailbox. To make it programmable, select "1 (free)," then assign the number in programme [609] Voice Mail Access Codes.	**0**: extension number **1**: free	0	Voice Mail Integration
	9	Assigns the first display of a digital proprietary telephone with display (KX-T7431/KX-T7433/KX-T7436/KX-T7235) in Station Speed Dialling.	**0**: names **1**: numbers	0	Special Display Features – Station Speed Dialling
	10	Reserved			
	12,11	Selects inter-digit pause for pulse dialling.	**00**: 630 ms **01**: 830 ms **10**: 1030 ms	01	None
	13	Selects the intercom dial tone frequency.	**0**: normal **1**: distinctive	0	None
	16-14	Sets the maximum time for detecting a hooking flash signal from the SLT.	**000**: 32 ms-136 ms	000	None
03	1-6	Reserved			
	7	This bit is provided to assign PAD Switch Control (volume control of received calls on an analogue CO line).	**0**: 0 dB **1**: -3 dB	0	None
	8-16	Reserved			

Explanation

Area	Bit	Description	Selection	Default	References
04	1-8	Reserved			
	9	Prohibits or allows a call originated by an AA port of the VPS to another AA port.	**0**: prohibit **1**: allow	1	Voice Mail Integration
	10	Prevents or allows sending pulse dialling signals during an outside call.	**0**: prevent **1**: allow	1	None
	11	Enables or disables the SMDR printout of secret dial numbers.	**0**: disable **1**: enable	1	Station Message Detail Recording (SMDR)
	12	Enables or disables the Digital Test Access.	**0**: enable **1**: disable	1	None
	13-16	Reserved			

Explanation

Area	Bit	Description	Selection	Default	References
05	1	Determines whether or not to stop ringing of a doorphone call when Automatic Door Opener completes its motion.	**0**: stop **1**: not stop	1	Door Opener
	2	Selects the result when an outside call is routed by Call Forwarding to a voice mail port which is in Automated Attendant (AA) service mode. [For both Inband and Digital Proprietary Telephone (DPT) Integration] **disable :** AA service mode **enable :** The mode will change to the Voice Mail (VM) service mode and a Follow-On ID is sent. When the voice mail port is in VM service mode, this programme is not affected.	**0**: disable **1**: enable	1	Voice Mail Integration
	3	Selects the result when an outside call is routed to a voice mail port by IRNA. [For both Inband and DPT Integration] When the voice mail port is in VM service mode: **enable :** VM service mode **disable :** The mode will change to the AA service mode. [Only when Inband] When the voice mail port is in AA service mode: **enable :** The mode will change to the VM service mode and a Follow-On ID is sent. **disable :** AA service mode	**0**: disable **1**: enable	1	Voice Mail Integration
	4	Determines how an SLT user replies to a message left by the Message Waiting feature.	**0**: off-hook and feature number **1**: off-hook	1	Message Waiting

Explanation

Area	Bit	Description	Selection	Default	References
05	5	Determines how to treat an extension user who reaches the pre-assigned limit of the Budget Management feature.	**0**: sends an alarm sound and then disconnects the line in fifteen seconds. **1**: sends an alarm sound	1	Budget Management
	6-8	Reserved			
	9	Determines whether or not to print out the data when the system receives a call and a call is answered.	**0**: enable **1**: disable	1	Station Message Detail Recording (SMDR)
	10	Reserved			
	11	Selects the "–" (hyphen) to be deleted or not when outputting SMDR.	**0**: delete **1**: not delete	1	Station Message Detail Recording (SMDR)
	12-14	Reserved			
	15	Determines whether or not to store a call log automatically when answering an incoming call.	**0**: record **1**: not record	1	Call Log, Incoming
	16	Reserved			

Explanation

Area	Bit	Description	Selection	Default	References
06	1	Disables or enables sending dial tone after seizing a CO line.	**0**: enable **1**: disable	0	None
	2	Selects the door opening duration.	**0**: 3 s **1**: 5 s	1	Door Opener
	3	Assigns whether the system disconnects the CO line or not if nothing is dialled after seizing a CO line.	**0**: disconnect **1**: do not disconnect	0	None
	4	Determines whether or not to show received COLP information on LCD when the called party answers.	**0**: not show **1**: show	1	Display, Call Information
	4	Reserved			
	5	Selects the way to access a CO line to apply LCR.	**0**: Dial 9 or press L-CO button. **1**: any dialling method	1	Least Cost Routing (LCR)
	6	Assigns if pressing the HOLD button twice acts as Exclusive Hold or Hold Retrieve.	**0**: Hold Retrieve **1**: Exclusive Hold	1	• Call Hold, Exclusive • Call Hold Retrieve
	7	Assigns whether the system displays the authorisation code while programming in program [7X24] "LCR Authorisation Code."	**0**: display **1**: do not display	1	None
	8, 9	Reserved			
	10	When an incoming call reaches an extension which is in a Hunting Group (Circular, UCD, Ring and No Reply) and which has set DND, this programme determines whether or not the extension receives the call.	**0**: receive **1**: not receive	1	None
	11	When an incoming call reaches an extension which is in a Hunting Group (Circular, UCD, Ring and No Reply) and which has set Call Forwarding, this programme determines whether or not the extension receives the call.	**0**: receive **1**: not receive	0	None

Explanation

Area	Bit	Description	Selection	Default	References
06	12,13	Reserved			
	14	Selects the charge account destination of a doorphone call transferred to an outside party.	**0**: Operator 1 **1**: Jack 1-1	1	Doorphone Call Forwarding to CO Line
	15	Reserved			
	16	Assigns the bearer for the call from ISDN CO to ISDN CO.	**0**: 3.1 k Audio **1**: Speech	1	None
07	1	Enables or disables the LCR with DTMF function.	**0**: enable **1**: disable	1	Least Cost Routing (LCR)
	2	Assigns the incoming bell frequency for SLT.	**0**: 32 Hz **1**: 25 Hz	1	None
	3	Reserved			
	4	When Data Line Security mode is used, the bell pattern is always forced to be a single bell pattern when receiving an outside or intercom call.	**0**: enable **1**: disable	1	Data Line Security
	5	Reserved			
	6	Determines which telephone can activate the Whisper OHCA feature.	**0**: any telephone **1**: KX-T7400 series telephone only	1	Whisper OHCA
	7	Selects whether a tone or external music is used for music on hold.	**0**: Tone **1**: Music	0	Music on Hold
	8	Assigns the bearer for the call from doorphone/analogue CO to ISDN CO.	**0**: Speech **1**: 3.1 k Audio	1	None
	9-13	Reserved			
	14	Determines whether the account code is printed out or not (shown in dots) by the SMDR.	**0**: shown in dots **1**: shown	1	Account Code Entry
	16, 15	Sets the time the system waits before sending a CCBS signal (by dialling "6" or pressing "CCBS" button) while hearing dial tone 4.	**11**: 5 s **10**: 10 s **01**: 15 s **00**: 20 s	11	Completion of Calls to Busy Subscriber (CCBS)

Explanation

Area	Bit	Description	Selection	Default	References
09	1	When all DISA resources are busy, decides whether to let a caller reach to extensions determined by the Intelligent Call Handling (ICH) table, or to have a caller kept waiting until one of the resources becomes idle.	**0**: a caller reaches to extensions determined by ICH table **1**: a caller waits	1	Direct Inward System Access (DISA)
	2	Sets to release the DISA resource when the destination is determined (before the destination answers). If you select "not release", the caller can recall by pressing ✳.	**0**: not release (recallable) **1**: release	1	Direct Inward System Access (DISA)
	3	Selects the returning point of sequence of the UCD time table 1.	**0**: returns to the 2nd of the sequence **1**: returns to the top of the sequence	1	Uniform Call Distribution (UCD)
	4	Selects the returning point of sequence of the UCD time table 2.	**0**: returns to the 2nd of the sequence **1**: returns to the top of the sequence	1	Uniform Call Distribution (UCD)
	5	Selects the returning point of sequence of the UCD time table 3.	**0**: returns to the 2nd of the sequence **1**: returns to the top of the sequence	1	Uniform Call Distribution (UCD)
	6	Selects the returning point of sequence of the UCD time table 4.	**0**: returns to the 2nd of the sequence **1**: returns to the top of the sequence	1	Uniform Call Distribution (UCD)

Explanation

Area	Bit	Description	Selection	Default	References
09	9-7	Selects the time to start sending an OGM when an incoming call arrives directly at an idle extension via hunting group without queuing.	**000**: sends an OGM 1 second after call received **001**: sends an OGM 5 seconds after call received **010**: sends an OGM 10 seconds after call received **011**: sends an OGM 15 seconds after call received **111**: disable	111	Direct Inward System Access (DISA)
	10	Reserved			
	11	Enables or disables to keep on sending an OGM when an incoming call arrives at an idle extension via queuing.	**0**: keeps on sending an OGM **1**: sends ringback tone	1	Uniform Call Distribution (UCD)
	12	Displays the currency unit before or after the number. The default setting varies depending on the country where the system will be used.	**0**: opposite side of default **1**: default side	1	Charge Fee Reference
	13	Selects the tone sent after seizing a CO line by ARS.	**0**: 620 Hz tone (Tone 4) **1**: intercom tone (Tone 1)	1	Automatic Route Selection (ARS)
	14	Determines whether or not to add "#" after the ARS dialled number is sent out.	**0**: add **1**: not add	1	Automatic Route Selection (ARS)
	15	Determines whether or not the system sends an ISDN FLASH signal to ISDN while talking by pressing R(FLASH) or EFA button.	**0**: enable **1**: disable	1	None
	16	Reserved			

Explanation

Area	Bit	Description	Selection	Default	References
10	1-4	Reserved			
	5	Specifies the length of time in seconds the system is to wait after sending OGM before directing the call to the IRNA destination.	**0**: immediately **1**: 5 s later	1	Direct Inward System Access (DISA)
	6	Determines the result when dialling nothing for the period of time selected in Area 10–Bit 5 after hearing a DISA OGM.	**0**: direct the call to the pre-programmed IRNA destination **1**: disconnect without respect to pre-programmed IRNA destination	0	Direct Inward System Access (DISA)
	7-10	Reserved			
	11	Selects display information of transfer destination extension when transferring an outside call.	**0**: transfer initiating extension number/name **1**: transfer initiating extension number and CLIP	1	Display, Call Information
	12	Selects the action to the caller when a call on ISDN line arrives at extension which has enabled Call Forwarding to CO Line (All Calls) and there is no CO line available.	**0**: send a busy tone **1**: place the call to the original destination	0	Call Forwarding — to CO Line, All Calls
	13-16	Reserved			

Explanation

Area	Bit	Description	Selection	Default	References
11	1	Determines whether or not to handle a call without CLIP and DDI/MSN numbers (programmed in [001] System Speed Dialling and Intelligent Call Handling Number Set) by ICH table 59 (for day mode) or 60 (for night mode).	**0**: handle **1**: not handle	1	Intelligent Call Handling — Distribution of Incoming Outside Calls
	2-5	Reserved			
	6	Enables or disables the MCID service even after the opposite party hangs up. If enabled, the call will not be disconnected until you go on-hook.	**0**: enable **1**: disable	1	Malicious Call Identification (MCID)
	7	Changes reorder tone into busy tone	**0:** reorder tone into busy tone **1:** reorder tone into reorder tone	1	None
	8-16	Reserved			

Selection

- Area code: **01 through 07, 09 through 11**
- Selection: See "**Selection**" shown in the lists for each area.

Default

See "Default" shown in the lists.

Programming

1. Enter **990**.

    Display: System Add Inf.

2. Press **NEXT**.

    Display: Area NO?→

3. Enter an **area code**.

    Display example: 0010100011111001

4. Keep pressing ← or → to move the cursor to the desired bit.

5. Enter your **selection**.

    To change the current entry, press the new selection.

6. To program another bit, repeat steps 4 and 5.

7. Press **STORE**.

8. To program another area, press **SELECT** and the desired **area code**.

9. Repeat steps 4 through 8.

10. Press **END**.

Conditions

None

Features Guide References

None

[991] COS Additional Information

Description

Allows the following programming item to be changed, if required.

Bits 4, 3, 2, 1: Sets the number of digits allowed to dial out during an outside call on a Class of Service (COS) basis. If an outside party hangs up and the extension user tries to dial out still on the CO line, the system will disconnects the line at the time the assigned number of digits are dialled.

Bit 5: Enables or disables the Call Forwarding - Follow Me feature on a COS basis.

Other bits: Reserved.

Display Example

Bit Number															
16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
1	1	1	1	1	1	1	1	1	1	1	1	O	O	O	O

Selection

- COS number: **1 through 8**, ✱ (✱=all COS)
- Selection for bits 4, 3, 2, 1:
  0000: no limit / **0001:** 1 digit / **0010:** 2 digits / **0011:** 3 digits /
  0100: 4 digits / **0101:** 5 digits / **0110:** 6 digits / **0111:** 7 digits /
  1000: 8 digits / **1001:** 9 digits / **1010:** 10 digits / **1011:** 11 digits /
  1100: 12 digits / **1101:** 13 digits / **1110:** 14 digits / **1111:** 15 digits
- Selection for bit 5: **0**: disable/**1**: enable

Default

Bit 4, 3, 2, 1: All COS – 0000
Bit 5: All COS – 1

Programming

1. Enter **991**.

Display: COS Add Inf.

2. Press **NEXT**.

Display: COS NO?→

3. Enter a **COS number**.

Display example: 1111111111110000

4. Keep pressing ← or → to move the cursor to the desired bit.

5. Enter your **selection**.

To change the current entry, press **STORE** and the new selection.

6. To program another bit, repeat steps 4 and 5.

7. Press **STORE**.

8. To program another COS, press **SELECT** and the desired **COS number**.

9. Repeat steps 4 through 8.

10. Press **END**.

Conditions

To assign all COS numbers to one selection, press the ✶ key at step 3.

Features Guide References

Call Forwarding — Follow Me

Class of Service (COS)

Section   12
Default Values

2   Manager Programming

Program	Default
[000] Date and Time Set	1 Jan '02 TUE 00:00
[001] System Speed Dialling and Intelligent Call Handling Number Set	All speed dial numbers and DDI/MSN numbers — Not Stored
[002] System Speed Dialling and Intelligent Call Handling Name Set	All speed dial and DDI/MSN numbers — Not Stored
[003] Extension Number Set	DPT extensions : Jack 1-1 : 201/Jack 2-1 : 202/Jack 3-1 : 203/Jack 4-1 : 204/Jack 5-1 : 205/Jack 6-1 : 206 /Jack 7-1 : 207/ Jack 8-1 : 208 XDP extensions : Jack 1-2 : 301/Jack 2-2 : 302/Jack 3-2 : 303/Jack 4-2 : 304
[004] Extension Name Set	All jacks — Not Stored
[005] Flexible CO Button/PF Key Assignment	All Jacks — CO buttons 1 through 7 = Single-CO 01 through 07; Ring tone type 2 Other CO Buttons = Not Stored
[006] Operator/Manager Extension Assignment — Day/Night	Operator 1 (Day/Night) — Jack 1 Operator 2 (Day/Night) — Not Stored Manager — Jack 1
[007] Console Port and Paired Telephone Assignment	All Consoles — Not Stored
[008] Absent Messages	Message 1-6: Stored Message 7-9: Not Stored
[009] Quick Dial Number Set	All locations – Not Stored
[010] Budget Management	All jacks — 0
[012] ISDN Extension Number Set	All ports — Not Stored
[013] ISDN Extension Name Set	All ports — Not Stored
[014] Budget Management on ISDN Port	All ports — 0
[015] Charge Rate Fractional Point Assignment	2
[016] Charge Rate Assignment	0.01

Program	Default
[021-022] Doorphone Call Forwarding — Day/Night	All doorphone numbers — Not Stored
[024] Intelligent Call Handling Table	System Speed Dialling number: 000 through 499 — Not stored; 500 through 699 — Day: 01, Night: 01
[025] Intelligent Call Handling for Fax and Modem	All locations — Not stored
[026] ISDN Remote Maintenance Access Number	Not stored
[027] ISDN Remote Maintenance Access Name	Not stored
[028] ISDN Remote Alarm Notification Dial Number	Telephone number — Not stored

3   System Programming

Program	Default
[100] Flexible Numbering	See "Flexible Feature Numbers" above.
[102] Day/Night Service Starting Time	Every day of the week — Day — 9:00/Night — 17:00
[103] Automatic Access CO Port Assignment	1234
[104] Quick Dial Assignment	All locations — Not Stored
[105] Account Codes	All locations — Not Stored
[106] Station Hunting Type	All hunting groups — Disable
[107] System Password	1234
[108] One-Touch Transfer by DSS Button	Enable
[110] Network Type Assignment	BT
[113] Voice Mail Status DTMF Set	RBT — 1; BT — 2; ROT — 3; DND — 4; Answer — 5; Disconnect — #9; Confirm — 9; FWD VM RBT — 6; FWD VM BT — 7; FWD EXT RBT — 8

Program	Default
[114] Voice Mail Command DTMF Set	LV-MSG — H; GETMSG — *H; AA-SVC — #8 ; VM-SVC — #6
[116] Software Version Display	Not applicable
[117] Charge Display Selection	Currency
[118] Charge Verification Assignment	All jacks — Enable
[119] Charge Verification ID Code Set	1234
[120] User Password	1234
[121] Pulse Dial Reception Assignment	Enable
[122] Automatic Door Open Assignment	All doorphone numbers—Disable—Day/Night
[125] Currency Assignment	Pound*
[126] Voice Mail Number Assignment	All jacks — Blank
[127] Voice Mail Extension Number Assignment	VM-01=265, VM-02=266, VM-03=267, VM-04=268,
[128] Voice Mail Extension Group Assignment	All voice mail numbers — EXG 1
[129] Operator Queue	Queue: 6, Hurry-Up No.: 3
[130] Phantom Extension Number Assignment	All locations — Not Stored
[131] Hunting Group Assignment	All hunting groups — Disable
[132] Hunting Group Name Assignment	All hunting groups — Not Stored
[133] Hunting Overflow	All hunting groups — Busy, 0
[134-135] Hunting Intercept — Day/Night	All hunting groups – Disable — Day/Night
[137-138] Time Table Assignment — Day/ Night	All Hunting Groups — Not Stored
[139] Time Table	All time tables — Blank
[140] Phantom Extension Name	All locations — Not stored
[141] Off-Hook Monitor	Enable
[143] CCBS Feature	Disable

Program	Default
[144] Hunting Group Busy on Busy	All hunting group — 0
[145] Second Ringer For Doorphone Assignment	All doorphone numbers—Enable—Day/Night

4   Timer Programming

Program	Default
[200] Hold Recall Time	60 s
[201] Transfer Recall Time	12 rings
[202] Call Forwarding — No Answer Time	3 rings
[203] Intercept Time	12 rings
[204] Pickup Dial Waiting Time	1 s
[205] Extension-to-Outside Line Call Duration Time	10 min
[206] Outside-to-Outside Line Call Duration Time	10 min
[207] First Digit Time	10 s
[208] Inter Digit Time	10 s
[209] Automatic Redial Repeat Times	4 times
[210] Automatic Redial Interval Time	120 s
[211] Dial Start Time	0 ms
[212] Call Duration Count Start Time	0 s
[213] External Relay Connecting Time	5 s
[214] Message Waiting Ring Interval Time	10 min
[215] Ring Off Detection Time	5 s
[217] Timed Reminder Alarm Ring Time	30 s

Program	Default
[218] Doorphone-to-CO Line Call Duration Time	0 s
[220] DISA Prolong Time	3 min
[221] DISA Automated Attendant (AA) Wait Time	1 s
[222] OGM Recording Time	3 min
[223] Built-in Voice Message Recording Time	5 min

5 TRS Programming

Program	Default
[301-305] TRS Denied Code Entry for Levels 2 through 6	All locations — Not Stored
[306-310] TRS Excepted Code Entry for Levels 2 through 6	All locations — Not Stored
[311] Emergency Dial Number Set	Location 01 — 999; 02 — 112; 03 through 10 — Not Stored

6 CO Line Programming

Program	Default
[400] CO Port Connection Assignment	All CO ports — Connect
[402] Dial Mode Selection	DTMF
[403] Pulse Speed Selection	10 pps
[404] DTMF Time	80 ms
[411] Host PBX Access Codes	All CO ports — Not Stored
[412] Pause Time	All CO ports — 3.5 s
[413] Flash Time	96 ms

Program	Default
[414] Disconnect Time	2.0 s
[418] Second Ringer Assignment	All CO port — Disable
[421] CO Port Name	All ports — Not stored
[422] ISDN Port Type	Port 2 — CO Port 3 — Extension
[423] ISDN Layer 1 Active Mode	Port 1, 2 — Permanent Port 3 — Call
[424] ISDN Configuration	Port 1, 2 — Point Port 3 — Multipoint
[425] ISDN Data Link Mode	Port 1, 2 — Permanent Port 3 — Call
[426] ISDN TEI Mode	Port 1, 2 — Fix 0 Port 3 — Automatic
[427] ISDN Extension Multiple Subscriber Number	All ports — Disable
[428] ISDN Extension Progress Tone	All ports — Enable
[452] Extension Ringing Assignment	HND 01, 61, 62: All jacks – Immediate HND 02 through 60: All jacks – Disable
[453] Other Extension Ringing Assignment	All handling tables — Not Stored
[454] ISDN Extension Ringing Assignment	All handling tables — Not Stored
[455] Built-in Voice Message for Call Handling	All handling tables — Disable
[456] Call Handling When All Busy	All handling tables — Recovery
[457] Intercept Extension	All handling tables — Not Stored
[458] Intelligent Call Handling Table for Analogue CO	01
[460] ISDN Call Hold	All ports — Disable
[461] ISDN Call Transfer	All ports — Disable
[462] ISDN Conference	All ports — Disable

Program	Default
[463] ISDN Call Forwarding	All ports — Disable
[464] ISDN Call Deflection	All ports — Disable

7   COS Programming

Program	Default
[500-501] Toll Restriction Level — Day/Night	All COS — Level 1 — Day/Night
[502] Extension-to-CO Call Duration Limit	All COS — Disable
[503] Call Transfer to CO Line	All COS — Enable
[504] Call Forwarding to CO Line	All COS — Disable
[505] Executive Busy Override	All COS — Disable
[506] Executive Busy Override Deny	All COS — Enable
[507] Do Not Disturb Override	All COS — Disable
[508] Account Code Entry Mode	All COS – Option
[509-510] Toll Restriction Level for System Speed Dialling – Day/Night	All COS — Level 1 — Day/Night
[511] Door Opener Access	All COS — Enable
[512] External Relay Access	All COS — Enable
[513] Night Service Access	All COS — Enable
[514] Do Not Disturb (DND) for Intelligent Call Handling 1:1 Call	All COS — Disable
[516] Calling Line Identification Restriction	All COS — Disable
[517] Connected Line Identification Restriction	All COS — Disable
[518] CFU/CFB/CFNR Assignment	All COS — Disable
[519] Off-Hook Call Announcement (OHCA)	All COS — Enable
[520] Call Forwarding from Hunting Group	All COS — Disable

Program	Default
[521] Doorphone Call Forwarding to CO Line	All COS — Disable

8   Extension Programming

Program	Default
[600] EXtra Device Port	All jacks — Enable
[601] Class of Service	All jacks-1/2 — COS 1
[602] Extension Group Assignment	All jacks-1/2 — Extension group 1: Enable
[605-606] Outgoing Permitted CO Line Assignment — Day/Night	All jacks-1/2 — all CO ports — Enable — Day/Night
[607-608] Doorphone Ringing Assignment — Day/Night	Jack 1-1 —123; Other jacks — Disable— Day/Night
[609] Voice Mail Access Codes	All jacks — Not Stored
[610] Department Codes	All jacks — Not Stored
[611] Extension Connection Assignment	All jacks — Connect
[612] Data Line Security	All jacks — Off
[613] ISDN Class of Service	All ports — COS 1
[614] Department Codes of ISDN Port	All ports — Not Stored
[615-616] Outgoing Permitted CO Line Assignment – Day/Night for ISDN Extension	All ports — all CO lines — Enable — Day/Night
[617] Live Call Screening Recording Mode Assignment	All jacks — Stop Record
[622] Incoming Call Display	All jacks — Caller
[623] CLIP/COLP Number Assignment for Extension	All jacks — Not Stored
[624] CLIP/COLP Number Assignment for ISDN Extension	All ports — Not Stored

Program	Default
[625-626] Built-in Voice Message for Extension — Day/Night	All jacks — BV
[627] Voice Message Resource Assignment	Jack 1-1: BV1 Jack 2-1: BV1 Other jacks: BV2
[628] Built-in Voice Message Access Code through CO Line	DPT extensions : Jack 1-1 : 0201/Jack 2-1 : 0202/Jack 3-1 : 0203/Jack 4-1 : 0204/Jack 5-1 : 0205/Jack 6-1 : 0206 /Jack 7-1 : 0207/Jack 8-1 : 0208 XDP extensions : Jack 1-2 : 0301/Jack 2-2 : 0302/Jack 3-2 : 0303/Jack 4-2 : 0304
[629] Telephone Answering Machine (TAM) Connection Assignment	All jacks — Disable
[630] ISDN Bearer Mode	All jacks — Automatic
[631] CLIP/COLP Number Assignment for ISDN Port	All ports — Not Stored
[632] Caller ID	All jacks — Disable
[633] Caller ID Line Access Number	Enable
[634] Caller ID Type	During Ring
[635] Caller ID Parameter	Date and Time/Name — Enable
[636] Single Line Telephone Bell Cadence	Bell on: 1200 ms/Bell off: 3800 ms
[637] Single Line Telephone Bell Pattern	Automatic

9   LCR Programming

Program	Default
[7000] LCR Mode	Off
[7002] BTL Access Code	121
[7003] Itemised Code Set	All jacks – Not Stored

Program	Default
[7004] ISDN Itemised Code Set	All ports – Not Stored
[7X0Y] LCR Leading Digit Entry for Plan 1-8	Carrier/Table 1: Location 01 – ***** All other locations – Not stored
[7X1Y] LCR Time and Fee for Plan 1-8	Not stored
[7X20] LCR Exceptional Code	All locations – Not stored
[7X21] LCR Carrier Code	Program 7121 (carrier 1) – 131; Other programs (carriers 2-8) – Not stored
[7X22] LCR Carrier Modify Command	Program 7122 (carrier 1) – CPTAIH; Other programs (carriers 2-8) – Not stored
[7X23] LCR CO Port Assignment	Program 7123 (carrier 1) – 1234 Other programs (carriers 2-3) – Not stored
[7X24] LCR Authorisation Code	All programs – Not stored

10   Resource Programming

Program	Default
[800] SMDR Incoming/Outgoing Call Log Printout	Outgoing calls — Off; Incoming calls — Off
[801] SMDR Format	Page length — 66; Skip perforation — 0; Page width — 80
[802] System Data Printout	Not applicable.
[803] Music Source Use	Hold: Music (External Music) BGM: Music (External Music)
[804] External Pager BGM	Disable
[805] External Pager Confirmation Tone	On
[806] RS-232C Parameters	New line code = CR+LF; Baud rate = 9600; Word length = 8; Parity bit = None; Stop bit length = 1 — Port 1
[809] DISA Security Type	Trunk

Program	Default
[810] DISA Tone Detection	Enable
[811] DISA User Codes	All COS number – 8 All user codes – Not stored
[813] Floating Number Assignment	Pager = 296, Ringer = 298, Hunting Group = Not Stored, DTA = 399
[815] DISA Automated Attendant (AA)	All numbers — Not Stored
[820] OGM Recording	Hand Set (SP-Phone)
[822] Built-in Voice Message Total Recording Time	30 min
[895] OGM and Voice Message Clear	Not applicable.

11   Optional Programming

Program	Default
[990] System Additional Information	See "Default" shown in the lists.
[991] COS Additional Information	Bit 4, 3, 2, 1: All COS – 0000 Bit 5: All COS – 1

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This Equipment complies with the essential requirements of the Directive 1999/5/EC Radio and telecommunications terminal equipment directive.