

# **Panasonic**

Digital Super Hybrid System

**KX-TD816JT**

**KX-TD1232JT**

**Programming Guide for KX-TD7590JT**

**and**

**Programming Guide Addendum for**

**KX-TD816JT/ KX-TD1232JT**

In this manual, the suffix "JT" of each model number is omitted.

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*Section 1*  
*DECT Programming*

## 1.1 DECT Programming

### [020] PS Flexible Button Assignment

#### Description

Used to determine how the flexible CO buttons are used on PSs.

#### Selection

- PS registration number:  
     KX-TD816 – **01 through 16**  
     KX-TD1232 – **01 through 64**
- Flexible CO button number: **1 through 3**
- Button Code (plus parameter, if required)

Button Code	Parameter
<b>0</b> (Single-CO)	KX-TD816: <b>01 through 08</b> (Outside line number) KX-TD1232: <b>01 through 54</b> (Outside line number)
<b>1</b> (DSS)	<b>2 through 4 digits</b> (Extension number)
<b>2</b> (One-Touch)	<b>16 digits max.</b> (Telephone number)
<b>3</b> (Message Waiting)	None
<b>4</b> (FWD/DND)	None
<b>5</b> (Save)	None
<b>6</b> (Account)	None
<b>7</b> (Conference)	None
<b>82</b> (Voice Mail Transfer)	<b>2 through 4 digits</b> (Voice mail extension number)
<b>83</b> (Two-Way Record)*	<b>2 through 4 digits</b> (Voice mail extension number)
<b>84</b> (Two-Way Transfer)*	<b>2 through 4 digits</b> (Voice mail extension number)
<b>*</b> (Loop-CO)	None
<b>#</b> (Group-CO)	<b>1 through 8</b> (Outside line group number)

\* 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; e.g.KX-TVP200).

#### Default

All PSs – CO 1 = Loop-CO, CO2 and CO3 = Not Stored

## Programming

1. Enter **020**.  
Display: PS TASTOFLESSIB
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display: PT-PGM MODO
4. Press the **CO button** to be changed.  
The display shows the button pre-assignment.  
Display example: URB-01
5. Enter the **button code** (plus **parameter**, if required).  
To change the parameter, press **CLEAR** and enter the new parameter.
6. Press **STORE**.
7. To programme another CO button for the same PS, repeat steps 4 through 6.  
To programme another PS, 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

None

## Feature References

Button, Flexible

## [100] Flexible Numbering

### Description

Assigns the leading digits of extension numbers and feature numbers for system features. In addition to current flexible numbering, a feature number for the Super EXtra Device port (SXD) can be assigned.

Number	Feature	Default
86	SXD	48

For other feature numbers, refer to the main Installation Manual.

### Selection

- Selection number: **86**
- Feature number: **1 through 3 digits**

### Default

48

### Programming

1. Enter **100**.  
Display: NUMERAZ FLESSIB
2. Press **NEXT**.  
Display: NUM SELEZ?→
3. Enter a **selection number**.  
To enter selection number 01, you can also press **NEXT**.  
Display example: 01. 1-INT S:1
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: CANCELLA TUTTO?

**4.** Press **STORE**.

**5.** Press **END**.

## Conditions

- Each feature number has one through three 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).

## Feature References

Flexible Numbering

## [109] Expansion Unit Type

### Description

Assigns the type of expansion units to be used in the Master and Slave Systems. This allows the system to identify the unit in each expansion location.

### Selection

KX-TD816

- Areas 1; 2 = **C (4CO) / S1 (2S0) / S2 (6S0) / EM(4E&M) / E (EXT) / D (No Use)**

KX-TD1232

- **Master / Slave**
- Areas 1; 2; 3 = **C (4CO) / S1 (2S0) / S2 (6S0) / S3 (1PRI) / EM (4E&M) / E1 (EXT1) / E2 (EXT2) / D (No Use)**  
(Master system only: S3, E1 and E2 for the KX-TD144 or KX-TD146)

### Default

KX-TD816 – C; E

KX-TD1232 – Master and Slave – C; E1; E2

### Programming

1. Enter **109**.  
Display: `MODULO ESPANS`
2. Press **NEXT** to program Master System.  
To program "Slave," press **NEXT** twice.  
Display example: `MASTER: C; E1; E2`
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **→**.
5. Keep pressing **SELECT** until the desired selection is displayed.
6. Repeat steps 4 and 5 until the all the required entries are completed.
7. Press **STORE**.  
If only one system is in operation, go to step 8.



8. Press **NEXT** to program Slave System.

Display example: SLAVE : C; E1; E2

9. Repeat steps 3 through 7.

10. Press **END**.

## Conditions

- In case of starting the system for the first time or System Data Clear, the application for location will adapt the practical installation instead of system default setting.
- There are two expansion areas on the KX-TD816, areas 1 and 2 from bottom to top. There are three expansion area on the KX-TD1232, areas 1, 2 and 3 from bottom to top.
- If the Slave System is out-of-service or in case of KX-TD816, skip the steps 8 and 9.
- After changing the setting, to make your setting effective, unplug the system once and plug it in again. Otherwise the previous setting will be maintained.

## Feature References

Module Expansion

## [650] PS Registration

### Description

Assigns a registration number and an extension number to each PS. Display PT and the PS whose registration number is to be set are required for this programme.

### Selection

(With a display PT)

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- PS extension number: **2 through 4 digits**

(With a PS)

- DECT system number: **1 through 4**
- PS password: **4 digits**
- System lock password: **4 digits**

### Default

All PSs – Not Stored

### Programming

#### [Registering for the first time]

(With a display PT)

1. Enter **650**.

Display: REGISTRAZIONE PS

2. Press **NEXT**.

Display: NUM PS?→

3. Enter the **PS registration number**.

Display example: PS01:NON MEMORIZZATO

4. Enter the **PS extension number**.

Display example: PS01:INT 281

5. Press **STORE**.

Display (If enabled): ESECUZIONE

Continue programming from step 6 with a PS within five minutes.

Display (If disabled): RIFIUTATO

The Cell Station (CS) may not be connected or not working. After connecting the CS or resetting the PBX, wait for at least one minute and try again from the beginning.

(With a PS)

6. Press the **POWER** button for a while (about 5 seconds).

7. Press the **FUNCTION** button.

8. Press the **FUNCTION** button again.

Or Press the **UP/DOWN** button repeatedly until “PROGRAM” is selected and then press the **SELECT** button.

9. Press the **UP/DOWN** button repeatedly until the display below is selected.

Display: PRG. INIZIALE

10. Press the **SELECT** button.

11. Press the **UP/DOWN** button repeatedly until the display below is selected.

Display: REGISTRAZIONE

12. Enter the **SELECT** button.

13. Press the **UP/DOWN** button repeatedly until the desired **DECT system number** is selected.

Display example: REGISTRAZIONE

DECT-SYS 1

DECT-SYS 2

14. Press the **SELECT** button.

Display example: IMMETTERE CODICE  
=-----

15. Enter the **PS password**.

Display example: IMMETTERE CODICE  
=\*\*\*\*\_----

16. Press the **AUTO/OK** button.

Display: ESECUZIONE

You will hear a confirmation tone and the display changes as follows.

Display example: DECT-SYS BLOC.

ABILITATA

DISAB

17. Enter the **UP/DOWN** button to select “DISABLE” or “ENABLE” for the System Lock.

Display example: DECT-SYS BLOC.

ABILITATA

DISAB

18. Press the **SELECT** button.

Display example:

(if disabled): SBLOCCATO

(if enabled) : IMMETTERE CODICE  
=-----

19. If you select "ENABLE" in step 17, enter a **System Lock password**.

Display: IMMETTERE CODICE  
=\*\*\*\*

20. Press the **AUTO/OK** button.

Display: REIMMETT. CODICE  
=-----

21. Enter the **System Lock password** again.

Display: REIMMETT. CODICE  
=\*\*\*\*

22. Press the **AUTO/OK** button.

Display: BLOCCATO

(With a display PT)

23. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.

24. Repeat steps 4 through 22.

25. Press **END**.

[Re-registering] (e.g. when changing the DECT system)

1. Repeat steps 1 through 8 of the "Registering for the first time" programming.

2. Press the **UP/DOWN** button repeatedly until the display below is selected.

Display: PROGRAM. PS

3. Press the **SELECT** button.

4. Press the **UP/DOWN** button repeatedly until the display below is selected.

Display: PRG SISTEMA DECT

5. Press the **SELECT** button.

If a System Lock password is registered before, the display below will appear.

Display example: DECT-SYS BLOC.  
PASSWORD =-----

6. Enter a **System Lock password** and press the **AUTO/OK** button, if required.

Display: DECT-SYS BLOC.

PASSWORD =\*\*\*\*

7. Go to steps 11 through 25 of the “Registering for the first time” programming.

## Conditions

- You can assign an extension number to each PS also in programme, [671] PS Extension Number Set.
- The PS password can be assigned in programme [672] PS Password Set.
- One PS must have only one registration number. It is not possible to assign the different registration number for one PS.
- If the PS extension number or the PS password is changed after registering, the PS cannot be used until it is registered again in this programme.
- After pressing the AUTO/OK button in step 16, do not press END before you hear a confirmation tone, or it may not be registered correctly.
- To re-assign the PS, which is set the System Lock, to the other DECT system, it is required to cancel the System Lock first in PS Programming, “DECT System Lock Password Set.”
- Register the PS from a manager DPT connected only to the master cabinet.

## Feature References

Digital Wireless Connection

## [651] PS Termination

### Description

Deletes a stored PS so that it cannot be used in the system.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**

### Default

Not applicable

### Programming

1. Enter **651**.  
Display: TERMINAZIONE PS
2. Press **NEXT**.  
Display: NUM PS? →
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:INT 281
4. Press **STORE**.  
Display: ESECUZIONE  
The system searches for the PS registration number while "Executing" is blinking, and deletes the registration after it is found.  
Display example: CANCELLATO
5. To delete another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
6. Repeat steps 3 through 5.
7. Press **END**.

**Even if "Rejected" is displayed in step 4 above, you can delete the PS. In this case, Registration Clear on the PS (PS Programming) is required.**

Display: RIFIUTATO (The PS was not deleted correctly.)  
The display will show the next example below in a few seconds.  
Display example: CANCELLARE?

8. Go to Step 7 if you do not want to delete.
9. Press **STORE**.

**10.**To delete another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.

**11.**Repeat steps 3 through 5.

**12.**Press **END**.

## Conditions

- Deleting the same PS registration number from the PS by PS Programming is only necessary when it is deleted after "Rejected" is displayed in this programme.
- If a PS registration is terminated in this programme, all the PS assignments and its extension assignments will return to the default settings. If you only want to change the PS, retaining all the assignments, re-enter the replacing PS on the old PS registration number in programme [650] PS Registration. In this case, you should reset the system so that the assignment is activated.

## Feature References

Digital Wireless Connection

## [653] PS Extension Name Set

### Description

Assigns names to the PS extension numbers programmed in programme [671] PS Extension Number Set.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- Name: **10 characters (max.)**

### Default

All PSs – Not Stored

### Programming

1. Enter **653**.  
Display: SET NOME EXT PS
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:NON MEMORIZZATO
4. Enter the **name**.  
For entering characters, see Section 1.3 Entering Characters in user manual.  
To delete the current entry, press **CLEAR**.  
To change the current entry, press **CLEAR** and enter the new name.
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

None

### Feature References

Digital Wireless Connection



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## [654] SXDP Assignment

### Description

Disables or enables the Super EXtra Device Port (SXDP) feature for wired extensions.

### Selection

- Jack number:  
KX-TD816 – **01 through 16 (-1 / -2), \***  
KX-TD1232 – **01 through 64 (-1 / -2), \***  
(-1= first part, -2= second part, \*=all jacks)
- **Enable / Disable**

### Default

All jacks – Enable

### Programming

1. Enter **654**.  
Display: ASSEGN.SXDP
2. Press **NEXT**.  
Display: NUM JACK?→
3. Enter the **jack number**.  
To enter jack number 01, you can also press **NEXT**.  
To select the second part (-2), press **NEXT** after entering the jack number.  
Display example: ABILITATA
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To programme another jack, press **NEXT** or **PREV**, or **SELECT** and the desired **jack number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

- After programmed, you must reset your system.
- To assign all jacks to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the jack 01.

### Feature References

Super EXtra Device Port (SXDP)

## [655] PS Budget Management

### Description

Assigns the charge limit for a call on a PS basis.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16, \***  
KX-TD1232 – **01 through 64, \***  
(\* = all PS registration numbers)
- Charge limit (Charge): **0 through 59999**

### Default

All PSs – 0

### Programming

1. Enter **655**.  
Display: LIMITE CARICA PS
2. Press **NEXT**.  
Display: NUM PS? →
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01: 0
4. Enter a **charge limit**.  
To delete the charge limit, press **CLEAR**.
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

- If the charge limit is set "0", no restriction is applied.
- To assign all PSs to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.
- The displayed currency denomination can be programmed by programme [121] Assignment of Denomination.

## **Feature References**

Budget Management

Charge Fee Reference

## [656] PS Charge Verification Assignment

### Description

Assigns the PS which is allowed to refer or clear the charge information on the extension, outside line, department code, account code, and total.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16, \***  
KX-TD1232 – **01 through 64, \***  
(\* = all PS registration numbers)
- **Enable / Disable**

### Default

All PSs – Enable

### Programming

1. Enter **656**.  
Display: PS RIF.CARICA
2. Press **NEXT**.  
Display: NUM PS? →
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:ABILITATA
4. Keep pressing **SELECT** until the desired selection is displayed.
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Press **END**.

### Conditions

- To assign all PSs to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.

### Feature References

Charge Fee Reference

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## [657] PS Class of Service

### Description

Programmes each PS a Class of Service (COS). The COS determines the call handling abilities for each PS. Primary and secondary COS numbers can be assigned for each PS.

### Selection

- PS registration number:  
     KX-TD816 – **01 through 16, \***  
     KX-TD1232 – **01 through 64, \***  
     (\*=all PS registration numbers)
- COS number: **1 through 8**

### Default

All PSs – Primary / Secondary – COS 1

### Programming

1. Enter **657**.  
     Display: PS ASS.COS
2. Press **NEXT**.  
     Display: NUM PS?→
3. Enter the **PS registration number**.  
     You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
     Display example: PS01:CS1, CS1
4. Enter a **primary COS number**.  
     To change the current entry, enter the new number.
5. Press **➡**.
6. Enter a **secondary COS number**.  
     To change the current entry, enter the new number.
7. Press **STORE**.
8. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
9. Repeat steps 4 through 8.
10. Press **END**.

### Conditions

- There is a maximum of eight Classes of Service. Every PS must be assigned to a Class of Service and is subject to COS Programming in programmes [500] through [518] and [991].

- To assign all PSs to one COS, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.

## **Feature References**

Class of Service (COS)

## [658] PS Extension Group Assignment

### Description

Assigns each PS to an extension group. Extension groups are used for Group Call Pickup.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16, \***  
KX-TD1232 – **01 through 64, \***  
(\* = all PS registration numbers)
- Extension group number: **1 through 8**

### Default

All PSs – Extension group 1

### Programming

1. Enter **658**.  
Display: PS GRUPPO EXT
2. Press **NEXT**.  
Display: NUM PS? →
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:EXG01
4. Enter an **extension group number**.  
To change the current entry, press **CLEAR** and enter the new extension group number.
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

## Conditions

- There is a maximum of eight extension groups. Each PS can only belong to one group.
- To assign all PSs to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.

## Feature References

Call Pickup, Group  
Extension Group



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## [659-660] PS DIL 1:N Extension – Day / Night

### Description

A DIL 1:N line can be assigned to call more than one extension. All incoming calls from the programmed outside lines are directed to the specified PSs. This programme assigns the PSs for each outside line in both the day and night modes.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- Outside line number:  
KX-TD816 – **01 through 08, \***  
KX-TD1232 – **01 through 24, \***  
(\* = all outside lines)
- **Enabl** (enable) / **Disab** (disable)

### Default

All PSs – All outside lines – Disable – Day / Night

### Programming

1. Enter a programme address (**659 for day or 660 for night**).  
Display example: PS DIL 1:N G
2. Press **NEXT**.  
Display: NUM PS? →
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:LU01:DISAB
4. Enter the **outside line number**.  
You can also keep pressing **➡** or **⬅** until the desired outside line number 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 programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
8. Repeat steps 4 through 7.
9. Press **END**.

## Conditions

- To assign all outside lines to “Disable”, press the \* key in step 4.  
In this case, the display shows the contents programmed for outside line 01.
- When you change the PS registration number by pressing **NEXT** or **PREV**, the outside line number will not changed.  
<Example> PS01:CO06.....Press **NEXT**.....PS02:CO06

## Feature References

Direct In Lines (DIL)

Night Service

## [661-662] PS Outgoing Permitted Outside Line Assignment – Day / Night

### Description

Determines which outside lines can be accessed by a PS in both the day and night modes. PS users can make outgoing outside calls using the assigned outside lines.

### Selection

- PS registration number:  
     KX-TD816 – **01 through 16, \***  
     KX-TD1232 – **01 through 64, \***  
     (\*=all PS registration numbers)
- Outside line number:  
     KX-TD816 – **01 through 08, \***  
     KX-TD1232 – **01 through 24, \***  
     (\*=all outside lines)
- **Enabl** (enable) / **Disab** (disable)

### Default

All PSs – All outside lines – Enable – Day / Night

### Programming

1. Enter a programme address (**661 for day or 662 for night**).  
     Display example: PS LU USC G
2. Press **NEXT**.  
     Display: NUM PS?→
3. Enter the **PS registration number**.  
     You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
     Display example: PS01:LU01:ABIL
4. Enter the **outside line number**.  
     You can also keep pressing **➡** or **⬅** until the desired outside line number 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 programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
8. Repeat steps 4 through 7.
9. Press **END**.

## Conditions

- To assign all PSs or all outside lines to one selection, press the \* key in step 3 or 4. In this case, the display shows the contents programmed for outside line 01 or the PS 01.
- When you change the PS registration number by pressing **NEXT** or **PREV**, the outside line number will not change.  
<Example> PS01:CO06.....Press **NEXT**.....PS02:CO06

## Feature References

Night Service

Outside Line Connection Assignment - Outgoing

---

## [665] PS Voice Mail Access Codes

### Description

Assigns a mailbox number for each PS only if programme [990] System Additional Information, Field (18) , is set to "free."

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- Mailbox number: **16 digits (max.)**

### Default



All PSs – Not Stored

### Programming

1. Enter **665**.  
Display: PS ID CODE VM
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:NON MEMORIZZATO
4. Enter the **mailbox 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 programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

- The system supports a maximum of eight jacks (16 jacks during System Connection) 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 mailbox number which have scrolled off the display, press  or .

## Feature References

Voice Mail Integration for Inband

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## [671] PS Extension Number Set

### Description

Assigns an extension number to each PS.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- PS extension number: **2 through 4 digits**

### Default

All PSs – Not Stored

### Programming

1. Enter **671**.  
Display: PS SET NUM.EXT
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:NON MEMORIZZATO
4. Enter the **PS extension number**.  
To delete the current entry, press **CLEAR**.  
To change the current entry, press **CLEAR** and enter the new name.  
Display example: PS01:INT 281
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

- Each PS extension number can be two to four digits, consisting of **0 through 9**. The \* and # keys cannot be used.
- A PS extension number can also be assigned in programme [650] PS Registration.
- A PS extension number is invalid if the first or second digits do not match with the setting in programme [100] Flexible Numbering, (01) - (16) 1st through 16th hundred extension

blocks. If one digit is assigned as the leading digit, some PS extension numbers have two or three digits. If two digits are assigned, they have three digits and some may have four digits.

- Double entries or incompatible entries are invalid including the assignment in programmes [003] Extension Number Set, [012] ISDN Extension Number Set, [127] Voice Mail Extension Number Assignment, [130] Phantom Extension Number Assignment or [813] Floating Number Assignment. Valid entry examples are: 10 and 11; 10 and 110. Invalid entry examples are: 10 and 106; 210 and 21.
- Programme [653] PS Extension Name Set, is used to name the PSs.
- It is possible to modify the extension number in this programme. If the PS extension number was modified, re-register the PS to the system in programme [650] PS Registration, in order to use the extension number.

### Feature References

Digital Wireless Connection



## [672] PS Password Set

### Description

Assigns a registration password, which is used for registration (programme [100] Flexible Numbering), to each PS.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16**  
KX-TD1232 – **01 through 64**
- PS password: **4 digits**

### Default

All PSs – 1234

### Programming

1. Enter **672**.  
Display: PS SET PASSWORD
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:1234
4. Enter the **PS password**.  
Display example: PS01:5678
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 4 through 6.
8. Press **END**.

### Conditions

None

### Feature References

None

## [673] PS CLIP / COLP Number Assignment

### Description

Assigns a CLIP / COLP number to each Portable Station.

### Selection

- PS registration number:  
KX-TD816 – **01 through 16, \***  
KX-TD1232 – **01 through 64, \***  
\* all PS registration numbers)
- CLIP/COLP number: **16 digits (max.)**

### Default

All PSs – Not Stored

### Programming

1. Enter **673**.  
Display: PS CLIP/COLP
2. Press **NEXT**.  
Display: NUM PS?→
3. Enter the **PS registration number**.  
You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
Display example: PS01:NON MEMORIZZATO
4. Enter a **CLIP / COLP number**.  
To change the current entry, press **CLEAR** and the new number.
5. Press **STORE**.
6. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
7. Repeat steps 3 through 6.
8. Press **END**.

### Conditions

- Each CLIP / COLP number can be a maximum of 16 digits, consisting of **0 through 9**.
- To assign all PSs to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.

### Feature References

Calling / Connected Line Identification Presentation (CLIP / COLP)

Calling / Connected Line Identification Restriction (CLIR / COLR)

---

## [676] PS Incoming Call Display

### Description

Allows you to choose between three display types when an incoming call is received by PS.

**Calling:** The incoming caller's telephone number is displayed.

**Called:** The called telephone number is displayed.

**Line Name:** The outside line name assigned in the [417] programme is displayed.

### Selection

- PS registration number:  
     KX-TD816 – **01 through 16, \***  
     KX-TD1232 – **01 through 64, \***  
     (\*=all PS registration numbers)
- Display Types: **Calling / Called / Line name**

### Default

All PSs – Calling

### Programming

1. Enter **676**.  
     Display: PS DISPLAY ENTR.
2. Press **NEXT**.  
     You can also keep pressing **NEXT** until the desired PS registration number is displayed.  
     Display example: PS01: CHIAMANTE
3. Keep pressing **SELECT** until the desired selection is displayed.
4. Press **STORE**.
5. To programme another PS, press **NEXT** or **PREV**, or **SELECT** and the desired **PS registration number**.
6. Repeat steps 4 through 6.
7. Press **END**.

### Conditions

- To assign all PSs to one selection, press the \* key in step 3. In this case, the display shows the contents programmed for the PS 01.
- If the receiving call is in the 1:N status, the display only shows outside line number.

### Feature References

Display, Message

Incoming Outside Call Information Display

## [680] Cell Station Number Assignment for Master CS

### Description

Assigns the cell station number which is used for the master CS.

### Selection

- Cell Station number:  
KX-TD816 – **RIF1 / RIF2 / RIF3 / RIF4 / RIF5 / RIF6**  
KX-TD1232 – **E1-RIF1 / E1-RIF2 / E1-RIF3 / E1-RIF4 / E1-RIF5 / E1-RIF6 /**  
**E2-RIF1 / E2-RIF2 / E2-RIF3 / E2-RIF4 / E2-RIF5 / E2-RIF6**  
(E1: Cell Station Interface Unit1 / E2: Cell Station Interface Unit2 / RIF1: Cell Station1 /  
RIF2: Cell Station2 / RIF3: Cell Station3 / RIF4: Cell Station4 / RIF5: Cell Station5 / RIF6:  
Cell Station6)

### Default

Not Stored

### Programming

1. Enter **680**.  
Display: ASS.CS MASTER
2. Press **NEXT**.  
Display example: M-CS:NON MEMORIZZATO
3. Keep pressing **SELECT** until the desired selection is displayed.  
Display example: M-CS:E1-RIF1
4. Press **STORE**.
5. Press **END**.

### Conditions

- For changing the assignment of the Master CS, the assigned system programming data or radio information data should be cleared in programme [682] Radio Information Data Clear. In this case, the re-registration of PSs is essential.
- CSs do not work without this assignment.
- The Master CS must support GAP. In case a CS doesn't support GAP, the operation under this CS is not guaranteed (except with a proprietary telephone).

### Feature References

None

## [681] PS Radio System ID Reference

### Description

Shows a radio system ID which is required for each PS to recognize its registered PBX.

### Selection

None

### Default

Not Stored

### Programming

1. Enter **681**.  
Display: `RADIOSIST.ID SET`
2. Press **NEXT**.  
Before a Radio System ID is assigned;  
Display: `NON MEMORIZZATO`  
After a Radio System ID is assigned;  
Display example: `00123456`
3. Press **END**.

### Conditions

- The radio system ID must be assigned to support the DECT system (KX-TD144 / TD146 / KX-TD142). If not, only the wired extension port of the KX-TD144 can be used.
- If the radio system ID is not assigned properly, the registered PS may not work properly.

### Feature References

None

## [682] Radio Information Data Clear

### Description

Clears the assigned radio information data.

### Selection

None

### Default

Not applicable.

### Programming

1. Enter **682**.  
Display: CANC.DATI RADIO
2. Press **NEXT**.  
Display example: CANC.OK?
3. Press **STORE**.
4. Press **END**.

### Conditions

- The data, regarding following system programmings, is cleared;  
[650] PS Registration  
[672] PS Password Set

### Feature References

None

## 1.2 Programming Tables

PS Register No.	[020] PS Flexible Button Assignment					
	Flexible CO 1		Flexible CO 2		Flexible CO 3	
	BC	Parameter	BC	Parameter	BC	Parameter
01						
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						

**Default (all PSs):**  
 Flexible CO 1 = Loop-CO,  
 Flexible CO 2 and 3 = Not Stored

**Note:**  
**BC (Button Code)**  
 0 : Single-CO  
 1 : DSS  
 2 : One-Touch Dialling  
 3 : Message Waiting  
 4 : FWD/DND  
 5 : Save  
 6 : Account  
 7 : Conference  
 82 : Voice Mail (VM) Transfer  
 83 : Two-Way Record  
 84 : Two-Way Transfer  
 \* : Loop-CO  
 # : Group-CO

**Parameter**  
 0 (Single-CO) : Outside line no.  
 (TD816: 01 – 08, TD1232: 01 – 54)  
 1 (DSS): Extension no. (2 – 4 digits)  
 2 (One-Touch Dialling)  
 82 (VM Transfer) / 83 (Two-Way Record) /  
 84 (Two-Way Transfer):  
 VM extension no. (2 – 4 digits)  
 # (Group-CO) : Outside line group no. (1 – 8)

[020] PS Flexible Button Assignment					
PS Register No.	Flexible CO 1		Flexible CO 2		Flexible CO 3
	BC	Parameter	BC	Parameter	Parameter
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					

**Default (all PSs):**  
 Flexible CO 1 = Loop-CO,  
 Flexible CO 2 and 3 = Not Stored

**Note:**  
**BC (Button Code)**  
**0** : Single-CO  
**1** : DSS  
**2** : One-Touch Dialling  
**3** : Message Waiting  
**4** : FWD/DND  
**5** : Save  
**6** : Account  
**7** : Conference  
**82** : Voice Mail (VM) Transfer  
**83** : Two-Way Record  
**84** : Two-Way Transfer  
**\*** : Loop-CO  
**#** : Group-CO

**Parameter**  
**0** (Single-CO) : Outside line no.  
 (TD816: 01 – 08, TD1232: 01 – 54)  
**1** (DSS): Extension no. (2 – 4 digits)  
**2** (One-Touch Dialling)  
**82** (VM Transfer) / **83** (Two-Way Record) /  
**84** (Two-Way Transfer):  
 VM extension no. (2 – 4 digits)  
**#** (Group-CO) : Outside line group no. (1 – 8)



PS Register No.	[020] PS Flexible Button Assignment					
	Flexible CO 1		Flexible CO 2		Flexible CO 3	
	BC	Parameter	BC	Parameter	BC	Parameter
45						
46						
47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						
62						
63						
64						

**Default (all PSs):**

Flexible CO 1 = Loop-CO,  
Flexible CO 2 and 3 = Not Stored

**Note:**

**BC (Button Code)**

- 0 : Single-CO
- 1 : DSS
- 2 : One-Touch Dialling
- 3 : Message Waiting
- 4 : FWD/DND
- 5 : Save
- 6 : Account
- 7 : Conference
- 82 : Voice Mail (VM) Transfer
- 83 : Two-Way Record
- 84 : Two-Way Transfer
- \* : Loop-CO
- # : Group-CO

**Parameter**

- 0 (Single-CO) : Outside line no.  
(TD816: 01 – 08, TD1232: 01 – 54)
- 1 (DSS): Extension no. (2 – 4 digits)
- 2 (One-Touch Dialling)
- 82 (VM Transfer) / 83 (Two-Way Record) /
- 84 (Two-Way Transfer):  
VM extension no. (2 – 4 digits)
- # (Group-CO) : Outside line group no. (1 – 8)

<b>[100] Flexible Numbering</b>		
Item	Feature	Default Parameter
86	SXDP	48
(Selection) 1 – 3 digits, (Valid Entries) 0 – 9, *, #		

[109] Expansion Unit Type

Area No.	1				2						
	C	S1	S2	EM	D	E	S1	S2	EM	E	D
TD816	✓					✓					
Selection											
Default											
Parameter											

Master System														
Area No.	1				2				3					
	C	S1	S2	EM	E1	E2	D	C	S1	S2	EM	E1	E2	D
TD1232	✓												✓	
Selection														
Default														
Parameter														

Slave System														
Area No.	1				2				3					
	C	S1	S2	EM	E1	E2	D	C	S1	S2	EM	E1	E2	D
TD816	✓												✓	
Selection														
Default														
Parameter														

<Note> TD816- C:4CO / S1:2S0 / S2:6S0 / EM:4E&M / E:EXT / D:No Use  
 TD1232 - C:4CO / S1:2S0 / S2:6S0 / S3:1PRI / EM:4E&M / E1:EXT1 / E2:EXT2  
 / D:No Use (Master system only : S3, E1 and E2 for the KX-TD144 or KX-TD146)

PS Regist No.	[650] PS Registration		[653] PS Extension Name Set	[671] PS Extension Number Set	[672] PS Password Set
	DECT System No. (1-4)	System Lock Password (4 digits)			
Default: all		Not Stored	Name 10 characters (max.) Not Stored	PS Extension No. (2-4 digits) Not Stored	PS Password (4 digits) 1234
All PSs					
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

PS Regist No.	[650] PS Registration		[653] PS Extension Name Set	[671] PS Extension Number Set	[672] PS Password Set
	DECT System No. (1-4)	System Lock Password (4 digits)			
Default: all	Not Stored		Name 10 characters (max.)	PS Extension No. (2-4 digits)	PS Password (4 digits)
All PSs	Not Stored		Not Stored	Not Stored	1234
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					

PS Regist No.	[650] PS Registration		[653] PS Extension Name Set	[671] PS Extension Number Set	[672] PS Password Set
	DECT System No. (1-4)	System Lock Password (4 digits)			
Default: all		Not Stored	Name 10 characters (max.) Not Stored	PS Extension No. (2-4 digits) Not Stored	PS Password (4 digits) 1234
All PSs					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					

<b>[654] SXDP Assignment</b>														
Default: All jacks – Enable														
Jack No.	E	D	Jack No.	E	D	Jack No.	E	D	Jack No.	E	D	Jack No.	E	D
All jacks														
01-1			12-1			23-1			34-1			45-1		
01-2			12-2			23-2			34-2			45-2		
02-1			13-1			24-1			35-1			46-1		
02-2			13-2			24-2			35-2			46-2		
03-1			14-1			25-1			36-1			47-1		
03-2			14-2			25-2			36-2			47-2		
04-1			15-1			26-1			37-1			48-1		
04-2			15-2			26-2			37-2			48-2		
05-1			16-1			27-1			38-1			49-1		
05-2			16-2			27-2			38-2			49-2		
06-1			17-1			28-1			39-1			50-1		
06-2			17-2			28-2			39-2			50-2		
07-1			18-1			29-1			40-1			51-1		
07-2			18-2			29-2			40-2			51-2		
08-1			19-1			30-1			41-1			52-1		
08-2			19-2			30-2			41-2			52-2		
09-1			20-1			31-1			42-1			53-1		
09-2			20-2			31-2			42-2			53-2		
10-1			21-1			32-1			43-1			54-1		
10-2			21-2			32-2			43-2			54-2		
11-1			22-1			33-1			44-1			55-1		
11-2			22-2			33-2			44-2			55-2		

<Note> E: Enable, D: Disable

PS Regist No.	[655] PS Budget Management Charge Limitation (0 – 59999)	[656] PS Charge Verification Assignment		[657] PS Class of Service	
		Enable	Disable	Primary	Secondary
Default: all	0	✓		1	1
All PSs					
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					



PS Regist No.	[655] PS Budget Management Charge Limitation (0 – 59999)	[656] PS Charge Verification Assignment		[657] PS Class of Service	
		Enable	Disable	Primary	Secondary
Default: all	0	✓		1	1
All PSs					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					

PS Regist No.	[655] PS Budget Management Charge Limitation (0 – 59999)	[656] PS Charge Verification Assignment		[657] PS Class of Service	
		Enable	Disable	Primary	Secondary
Default: all	0	✓		1	1
All PSs					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					

<b>[658] PS Extension Group Assignment</b>																	
PS Regist No.	EG1	EG2	EG3	EG4	EG5	EG6	EG7	EG8	PS Regist No.	EG1	EG2	EG3	EG4	EG5	EG6	EG7	EG8
	<Note> EG : Extension group									<Note> EG : Extension group							
Default: all	Extension group 1								Default: all	Extension group 1							
01									23								
02									24								
03									25								
04									26								
05									27								
06									28								
07									29								
08									30								
09									31								
10									32								
11									33								
12									34								
13									35								
14									36								
15									37								
16									38								
17									39								
18									40								
19									41								
20									42								
21									43								
22									44								

[658] PS Extension Group Assignment									
PS Regist No.	EG1	EG2	EG3	EG4	EG5	EG6	EG7	EG8	<Note> EG : Extension group
	Extension group 1								
Default: all									
45									
46									
47									
48									
49									
50									
51									
52									
53									
54									
55									
56									
57									
58									
59									
60									
61									
62									
63									
64									

<Note> EG: Extension group

[659] PS DIL 1:N Extension – Day		<Note> E: Enable, D: Disable																								
		CO01	CO02	CO03	CO04	CO05	CO06	CO07	CO08	CO09	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24	
PS Regist No.	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
01																										
02																										
03																										
04																										
05																										
06																										
07																										
08																										
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12																										
13																										
14																										
15																										
16																										
17																										
18																										
19																										
20																										
21																										
22																										

[659] PS DIL 1:N Extension – Day		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
23																									
24																									
25																									
26																									
27																									
28																									
29																									
30																									
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37																									
38																									
39																									
40																									
41																									
42																									
43																									
44																									

[659] PS DIL 1:N Extension – Day		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
45																									
46																									
47																									
48																									
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59																									
60																									
61																									
62																									
63																									
64																									

[660] PS DIL 1:N Extension – Night		<Note> E: Enable, D: Disable																								
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024	
PS Regist No.	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
01																										
02																										
03																										
04																										
05																										
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[660] PS DIL 1:N Extension – Night		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
23																									
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[660] PS DIL 1:N Extension – Night		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
45																									
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[661] PS Outgoing Permitted Outside Line Assignment – Day		<Note> E: Enable, D: Disable																							
		CO01	CO02	CO03	CO04	CO05	CO06	CO07	CO08	CO09	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
01																									
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[661] PS Outgoing Permitted Outside Line Assignment – Day		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
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[661] PS Outgoing Permitted Outside Line Assignment – Day		<Note> E: Enable, D: Disable																							
		CO01	CO02	CO03	CO04	CO05	CO06	CO07	CO08	CO09	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
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[662] PS Outgoing Permitted Outside Line Assignment – Night		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
01																									
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[662] PS Outgoing Permitted Outside Line Assignment – Night		<Note> E: Enable, D: Disable																							
		CO01	CO02	CO03	CO04	CO05	CO06	CO07	CO08	CO09	CO10	CO11	CO12	CO13	CO14	CO15	CO16	CO17	CO18	CO19	CO20	CO21	CO22	CO23	CO24
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
23																									
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[662] PS Outgoing Permitted Outside Line Assignment – Night		<Note> E: Enable, D: Disable																							
		C001	C002	C003	C004	C005	C006	C007	C008	C009	C010	C011	C012	C013	C014	C015	C016	C017	C018	C019	C020	C021	C022	C023	C024
PS Regist No.		E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D	E	D
Default: all		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓		✓	
45																									
46																									
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PS Regist No.	[665] PS Voice Mail Access Codes	[673] PS CLIP / COLP Number Assignment	[676] PS Incoming Call Display		
			Calling	Called	Line name
Default: all	Mailbox No. (16 digits max.) Not Stored	CLIP / COLP number (16 digits max.) Not Stored	✓		
All PSs					
01					
02					
03					
04					
05					
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

PS Regist No.	[665] PS Voice Mail Access Codes		[673] PS CLIP / COLP Number Assignment		[676] PS Incoming Call Display		
	Mailbox No. (16 digits max.)	CLIP / COLP number (16 digits max.)	Calling	Called	Line name		
Default: all	Not Stored	Not Stored	✓				
All PSs							
23							
24							
25							
26							
27							
28							
29							
30							
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42							
43							
44							

PS Regist No.	[665] PS Voice Mail Access Codes	[673] PS CLIP / COLP Number Assignment	[676] PS Incoming Call Display		
			Calling	Called	Line name
Default: all	Mailbox No. (16 digits max.) Not Stored	CLIP / COLP number (16 digits max.) Not Stored	✓		
All PSs					
45					
46					
47					
48					
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[680] Cell Station Number Assignment for Master CS	
Default	Cell Station No.: TD816 (RIF1 – RIF6), TD1232 (E1-RIF1 - E1-RIF6, E2-RIF1 – E2-RIF6)
Not Stored	TD816
	TD1232

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*Section 2*

*Programming Guide Addendum for  
KX-TD816JT / KX-TD1232JT*

*The Programming Guide is for software version P351G or later for KX-TD 816 and P251F or later for KX-TD1232.*

*Please read this manual first and then Programming Guide.*

## 2.1 Changed and Added Programming

Section or Programming Address	Changing or Additional Information									
Introduction	<p><b>About this Programming Guide (Additional)</b></p> <ul style="list-style-type: none"> <li>• ETS 300 130 Malicious Call Identification (MCID) supplementary service.</li> <li>• ETS 300 359 Completion of Calls to Busy Subscriber (CCBS) supplementary service.</li> </ul>									
[016] DISA/TIE User Codes	This programme is added. For details, refer to page 71.									
[100] Flexible Numbering	<p><b>Feature Number List (Additional)</b></p> <table border="1"> <thead> <tr> <th>Number</th> <th>Feature</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>38</td> <td>External feature access/ Cancellation of Automatic Callback Busy/ Cancellation of CCBS</td> <td>6</td> </tr> <tr> <td>89</td> <td>MCID</td> <td>737</td> </tr> </tbody> </table> <p><b>Selection (Changing)</b> <b>01 through 89</b></p>	Number	Feature	Default	38	External feature access/ Cancellation of Automatic Callback Busy/ Cancellation of CCBS	6	89	MCID	737
Number	Feature	Default								
38	External feature access/ Cancellation of Automatic Callback Busy/ Cancellation of CCBS	6								
89	MCID	737								
[127] UCD Time Table	<p>In the <b>Description</b> section, the <b>RT</b> is changed as follows. RT: Returns to the top/<b>second</b>*<sup>1</sup> of the sequence.</p> <p><b>Condition (Additional)</b></p> <ul style="list-style-type: none"> <li>• *<sup>1</sup> Top or second can be selected by programme [990] System Additional Information Area 08 - Bits 7-10.</li> </ul>									
[216] Message Waiting Ring Interval Time	<p>The <b>Default</b> has been changed as follows: 10 min. → <b>0</b></p>									
[811] DISA/TIE User Codes	This programme has been replaced with a new one. Refer to page 73.									
[990] System Additional Information	<p><b>Description (Additional)</b></p> <p><b>Chart for the Areas and Bits</b> has been added. Refer to page 75. <b>Explanation</b> for Area 08 and 09 has been added. Refer to page 75.</p>									
[991] COS Additional Information	This programme has been replaced with a new one. Refer to page 80.									
Default Values	<p>[016] is added to the values list as follows:</p> <table border="1"> <thead> <tr> <th>Programme</th> <th>Default</th> </tr> </thead> <tbody> <tr> <td>[016] DISA/TIE User Codes</td> <td>All DISA/TIE user code numbers- DISA/TIE user code=Blank; COS number=8</td> </tr> </tbody> </table>	Programme	Default	[016] DISA/TIE User Codes	All DISA/TIE user code numbers- DISA/TIE user code=Blank; COS number=8					
Programme	Default									
[016] DISA/TIE User Codes	All DISA/TIE user code numbers- DISA/TIE user code=Blank; COS number=8									

## [016] DISA / TIE User Codes

### Description

Assigns the Direct Inward System Access (DISA) and TIE User Codes and a Class of Service (COS) to each code. The code COS determines the toll restriction level of the DISA and TIE caller.

### Warning

When you enable the Outside-to-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 as long and random as you can make it.
- c) Change the password frequently.

### Selection

- DISA / TIE user code number: **01 through 32**
- DISA / TIE user code: **4 through 10 digits**
- COS number: **1 through 8**

### Default

All DISA / TIE user code numbers – DISA / TIE user code=Blank; COS number=8

### Programming

1. Enter **016**.  
Display: User Code
2. Press **NEXT**.  
Display: User Code NO?→
3. Enter a **DISA / TIE user code number**.  
To enter user code number 01, you can also press **NEXT**.  
Display example: 01:0001 C:8
4. Enter a **DISA / TIE user code**.  
To delete the current entry, press **CLEAR**.  
To change the current entry, enter the new code.
5. Press **➡** to programme **COS**.
6. Enter a **COS number**.  
To change the current entry, enter the new COS number.
7. Press **STORE**.

8. To programme another user code, press **NEXT** or **PREV**, or **SELECT** and the desired **DISA / TIE user code number**.
9. Repeat steps 4 through 8.
10. Press **END**.

### Conditions

- This setting is required if Trunk (Outside line) Security mode is selected in programmes [440] TIE Security Type and [809] DISA Security Type.
- Each code should be unique and composed of four through ten numerical digits, **0 through 9**.

### Features Guide References

Direct Inward System Access (DISA)  
E&M (TIE) Line Service



## [811] DISA / TIE User Codes

### Description

Assigns the Direct Inward System Access (DISA) and TIE User Codes and a Class of Service (COS) to each code. The code COS determines the toll restriction level of the DISA and TIE caller.

### Warning

When you enable the Outside-to-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 as long and random as you can make it.
- c) Change the password frequently.

### Selection

- DISA / TIE user code number: **01 through 32**
- DISA / TIE user code: **4 through 10 digits**
- COS number: **1 through 8**

### Default

All DISA / TIE user code numbers – DISA / TIE user code=Blank; COS number=8

### Programming

1. Enter **811**.  
Display: User Code
2. Press **NEXT**.  
Display: User Code NO?→
3. Enter a **DISA / TIE user code number**.  
To enter user code number 01, you can also press **NEXT**.  
Display example: 01:0001 C:8
4. Enter a **DISA / TIE user code**.  
To delete the current entry, press **CLEAR**.  
To change the current entry, enter the new code.
5. Press **➡** to programme **COS**.
6. Enter a **COS number**.  
To change the current entry, enter the new COS number.
7. Press **STORE**.

8. To programme another user code, press **NEXT** or **PREV**, or **SELECT** and the desired **DISA / TIE user code number**.
9. Repeat steps 4 through 8.
10. Press **END**.

### Conditions

- This setting is required if Trunk (Outside line) Security mode is selected in programmes [440] TIE Security Type and [809] DISA Security Type.
- Each code should be unique and composed of four through ten numerical digits, **0 through 9**.

### Features Guide References

Direct Inward System Access (DISA)  
E&M (TIE) Line Service

## 2.2 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.

Chart for the Areas and Bits

		Bit Number															
		16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Display Example	Area 01	0	0	1	0	1	0	0	0	1	1	0	0	0	0	1	
	Area 02	1	1	0	0	0	1	1	0	0	0	1	0	1	1	0	0
	Area 03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Area 04	1	1	1	1	1	0	1	1	0	0	0	0	0	0	0	0
	Area 05	1	1	1	1	1	1	1	0	1	1	1	0	1	0	1	1
	Area 06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Area 07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Area 08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Area 09	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1

Explanation for Areas 08 and 09

Area	Bit	Description	Selection	Default	Feature Guide References
08	1	Reserved			
	2	Enables or disables the MCID service even after the caller hangs up. If enabled, the call will not be disconnected until you go on-hook.	0 : enable 1 : disable	1	Malicious Call Identification (MCID)
	3	Reserved			

## Explanation for Areas 08 and 09

Area	Bit	Description	Selection	Default	Feature Guide References
08	5,4	When an incoming call reaches an extension in the Hunting Type (UCD and Ring Group) directly, this programme determines the time that the call activates the UCD (Ring) Time Table or not to activate at all.	<b>00</b> : after 5 s <b>01</b> : after 10 s <b>10</b> : after 15 s <b>11</b> : not activate	11	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	6	Selects to send a caller Music on Hold/ ringback tone or keep an outgoing message when an idle extension in the Hunting Type (UCD/Ring) receives a queuing call. And either Music on Hold or ringback tone can be selected by programme [990] Area 01-Bit 1.	<b>0</b> : keep outgoing message <b>1</b> : Music on Hold/ ringback tone	1	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	7	Determines where "RT" of the sequence returns in the UCD (Ring) Time Table 1.	<b>0</b> : second <b>1</b> : top	1	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	8	Determines where "RT" of the sequence returns in the UCD (Ring) Time Table 2.	<b>0</b> : second <b>1</b> : top	1	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	9	Determines where "RT" of the sequence returns in the UCD (Ring) Time Table 3.	<b>0</b> : second <b>1</b> : top	1	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	10	Determines where "RT" of the sequence returns in the UCD (Ring) Time Table 4.	<b>0</b> : second <b>1</b> : top	1	<ul style="list-style-type: none"> <li>• Ring Group</li> <li>• Uniform Call Distribution (UCD)</li> </ul>
	11	Selects extensions that can monitor the information of incoming outside calls to the Hunting Type (UCD/Ring). These extensions should be connected to the Master system. [KX-T7536 and KX-T7235 only] <b>specific</b> : extensions assigned COS 1 <b>all</b> : all extensions	<b>0</b> : specific <b>1</b> : all	1	Call Monitoring in UCD / Ring Group

## Explanation for Areas 08 and 09

Area	Bit	Description	Selection	Default	Feature Guide References
08	12	Clears "Total Call" in all group numbers at the monitoring display or not, when the night mode is switched to the day mode.	<b>0</b> : clear <b>1</b> : do not clear	1	Call Monitoring in UCD / Ring Group
	13	Selects to show incoming call display (CLIP) or the number/name of the original extension when transferring an incoming outside call to an extension (Call Transfer, Screened - to Extension). The system allows to choose between three display types when an incoming call is received in programme [612] Incoming Call Display.	<b>0</b> : number/name of the original extension <b>1</b> : CLIP	1	Call Transfer
	14-15	Reserved			
	16	Selects the time that the system disconnects the outside line after the other party hangs up during a conversation between the proprietary telephone (PT) and the Outside line.	<b>0</b> : 3 s <b>1</b> : 15 s	1	None
09	1	Detects the Continuous Tone or not, when the Tone Detection has been assigned to "Enable" in programme [810] DISA Tone Detection.	<b>0</b> : do not detect <b>1</b> : detect	1	DISA
	2	Detects the Cycled Tone or not, when the Tone Detection has been assigned to "Enable" in programme [810] DISA Tone Detection.	<b>0</b> : do not detect <b>1</b> : detect	1	DISA
	3	Detects the No Tone or not, when the Tone Detection has been assigned to "Enable" in programme [810] DISA Tone Detection.	<b>0</b> : do not detect <b>1</b> : detect	1	DISA
	4	Selects the type of Tone, when dialling the feature number to seize the outside line through Automatic Route Selection (ARS).	<b>0</b> : Tone 4 <b>1</b> : Tone 1	1	Automatic Route Selection (ARS)
	5	Reserved			
	6	Allows to use "99" as an account code delimiter or not.	<b>0</b> : deny <b>1</b> : allow	1	Account Code Entry

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**Explanation for Areas 08 and 09**

Area	Bit	Description	Selection	Default	Feature Guide References
09	7	Selects whether to show the caller's number (CLIP) on the display of Portable Station (PS) or not when a call is received. CLIP may not be displayed depending on the type of Portable Station (PS). However, CLIP is shown on KX-TD7500/KX-TD7590 in spite of being pre-assigned this programme. (Exception: CLIP is not shown when receiving a call as DIL 1:N.)	0 : show 1 : do not show	0	None
	8-16	Reserved			

**Selection**

- Area code: **01 through 09**
- Selection: See "**Selection**" in the explanation table.

**Default**

See "Default" shown in the explanation table.

**Programming**

1. Enter **990**.  
Display: System Add Inf.
2. Press **NEXT**.  
Display: Area NO?→
3. Enter an **area code (01 through 09)**.  
Display example: 0010100011000001
4. Keep pressing **▶** or **◀** to move the cursor to the desired bit.
5. Enter your **selection (0 or 1)**.  
To change the current entry, press **STORE** and enter the new selection.
6. To programme another bit, repeat steps 4 and 5.
7. Press **STORE**.
8. To programme 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

Adds the following programming items on a Class of Service (COS) basis, if required:

Bits 1-8: COS Additional Information

Bits 9-16: System Additional Information.

**COS 1-8** There are 8 bits available in Bit 1-8 as follows:

#### Display Example

	Bit Number																	
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1		
<b>Display Example</b>									<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>		

↓  
(System Additional Information)

#### Explanation for Bits 1 through 8

Bit	Description	Selection	Default	Feature Guide References
1-4	Sets the number of digits allowed to dial out during an analogue outside call. If an outside party hangs up and the extension user tries to dial out still on the outside line, the system will disconnects the line at the time the assigned number of digits are dialled. This programme is effective if the Calling Party Control (CPC) Signal Detection is not provided by the outside line. The bits 4, 3, 2 and 1 is used to enter your selection.	<b>0000</b> : no limit <b>0001</b> : 1 digit <b>0010</b> : 2 digits <b>0011</b> : 3 digits <b>0100</b> : 4 digits <b>0101</b> : 5 digits <b>0110</b> : 6 digits <b>0111</b> : 7 digits <b>1000</b> : 8 digits <b>1001</b> : 9 digits <b>1010</b> : 10 digits <b>1011</b> : 11 digits <b>1100</b> : 12 digits <b>1101</b> : 13 digits <b>1110</b> : 14 digits <b>1111</b> : 15 digits	0000	Class of Service (COS)
5	Enables or disables the Call Forwarding - Follow Me feature.	<b>0</b> : disable <b>1</b> : enable	1	Call Forwarding



Bit	Description	Selection	Default	Feature Guide References
6-8	Reserved			

### System Additional Information 2

**COS 5** There are 8 bits available in System Additional Information Area as follows:

#### Display Example

	Bit Number															
	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
Display Example	1	1	1	1	1	1	1	1	/							

↓  
(COS Additional Information)

### Explanation for Bits 9 through 16

Bit	Description	Selection	Default	Feature Guide References
9	Enables or disables the Completion of Calls to Busy Subscriber (CCBS) function.	<b>0</b> : enable <b>1</b> : disable	1	Completion of Calls to Busy Subscriber (CCBS)
11,10	Sets the time the system waits before sending a CCBS signal (by dialling "6" or pressing "CCBS" button) while hearing dial tone 4.	<b>00</b> : 20 s <b>01</b> : 15 s <b>10</b> : 10 s <b>11</b> : 5 s	11	Completion of Calls to Busy Subscriber (CCBS)
12-16	Reserved			

### Selection

- COS number: **1 through 8**, \* (\*=all COS)
- Selection: See "**Selection**" shown above for each area.

## Default

See "**Default**" shown in the list.

## 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 (0 or 1)**.

To change the current entry, press **STORE** and the new selection.

6. To programme another bit, repeat steps 4 and 5.

7. Press **STORE**.

8. To programme another COS, press **SELECT** and the desired **COS number**.

9. Repeat steps 4 through 8.

10. Press **END**.

## Conditions

None



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