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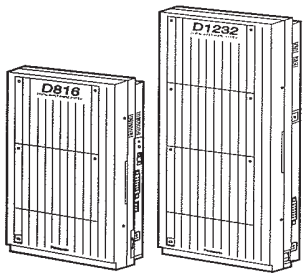
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Panasonic



Digital Super Hybrid System

Features Guide

Model KX-TD816
KX-TD1232



Please read this manual before using the Digital Super Hybrid System.

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Introduction

About this Features Guide

This Features Guide is designed to serve as an overall features reference for the Panasonic Digital Super Hybrid System, KX-TD816/KX-TD1232.
It explains what the KX-TD816/KX-TD1232 System can do, and how to obtain the most out of its many features and capabilities.

Terms used in this Features Guide

Connection References

Lists any additional hardware required to use the feature.
Refer to the "Connection" section in the *Installation Manual* for detailed information.

Programming References

The related and required programming titles are noted for your reference.
System Programming can be done with a PC or a proprietary telephone.
To program with a proprietary telephone, refer to the "System Programming" section in the *Programming Guide* for detailed information.
Station Programming is individual programming executed by each Proprietary Telephone (PT) user at his or her own PT. They can customize their PTs based on their personal needs.
Refer to the "Station Programming" section in the *User Manual* for detailed information.

Features Guide References

The related feature titles described in this *Features Guide* are noted for your reference.

User Manual References

The operation required to implement the feature is noted for your reference.
Refer to the "Station Features and Operation", "Station Programming" and "User Programming" sections in the *User Manual* for detailed information.

Additional Helpful Information

Along with this Feature Guide, the following manuals are available to help you install, program, and use the KX-TD816/KX-TD1232 System:

Installation Manual

Provides instructions for installing and wiring the hardware.

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User Manual

Designed for users of Digital Super Hybrid System, KX-TD816/KX-TD1232. The focus is Digital Proprietary Telephones (DPTs), Digital DSS Consoles, Single Line Telephones (SLTs) and their features.

Programming Guide

Provides step-by-step programming instructions for a proprietary telephone.

Programming Tables

Designed to be used as a hard copy reference for planning and recording how the KX-TD816/ KX-TD1232 System is to be programmed.

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Section 1

General Features

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1.1 General Features

Absent Message Capability

Description

Once set, this feature provides a message on the display of the calling extension to show the reason for the called extension's absence. Nine messages can be programmed as desired which are available for every extension user. There are six pre-programmed default messages. Setting or canceling a message can be done by individual extension users but only callers with a display telephone can view the message.

Conditions

- Six default messages, which are changeable, are shown below. The "%" means a parameter to be entered when assigning a message at an individual extension.
  - **a)** Will Return Soon
  - **b)** Gone Home
  - **c)** At Ext %%% (extension number)
  - **d)** Back at %% : %% (hour : minute)
  - **e)** Out Until %% / %% (month / day)
  - **f)** In a Meeting
- An extension user can select only one message at a time. The selected message is displayed every time the user goes off-hook.

Programming Guide References

- [008] Absent Messages
- [100] Flexible Numbering

Features Guide References

None

User Manual References

- 4.3.1 Absent Message Capability

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Account Code Entry

Description

An Account Code is used to identify incoming and outgoing outside calls for accounting and billing purposes. The account code is appended to the Station Message Detail Recording (SMDR) call record. For incoming outside calls, account codes are optional. For outgoing outside calls, there are three modes available to enter an account code: Verified-All Calls mode; Verified Toll Restriction Override mode; and Option mode. One mode is selected for each extension on a Class of Service basis.
In Verified-All Calls mode, the user must always enter a pre-assigned account code when making any of the following calls.

- Call Forwarding — to Outside Line
- Line Access
- One-Touch Dialing
- Pickup Dialing
- Station Speed Dialing
- System Speed Dialing

If the user uses Last Number Redial or Saved Number Redial, he/she does not have to re-enter the Account Code.

In Verified-Toll Restriction Override mode, the user can enter a pre-assigned account code only when the user needs to override toll restriction.
In Option mode, the user can enter any account code if needed.

Conditions

- An account code can be stored into Memory Dialing (System / Station Speed Dialing; One-Touch Dialing; Pickup Dialing; Call Forwarding — to Outside Line).
- The Account button may be used in place of the feature number. A flexible button on the proprietary telephone set can be programmed as the Account button.
- Account code entry after Calling Party Control (CPC) Signal Detection must be done within 15 seconds. Otherwise, SMDR call record is activated and entry becomes impossible afterwards.
- If disconnection signal is selected in program [990], Area 01 - Bit 3, the Verified-All Calls extension is allowed to make an outside call using the same line with Flash function.
- In any mode, emergency dial numbers stored in program [334] "Emergency Dial Number Set" can be dialed out without an account code entry.
- If the account code is entered several times, the last entered code is printed out in the Station Message Detail Recording (SMDR).
  Program [990], Area 06 - Bit 5, can disable overwriting the data to print out the first entered code.

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Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [105] Account Codes
- [508] Account Code Entry Mode
- [990] System Additional Information

Features Guide References

- Toll Restriction Override by Account Code Entry

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.2 Account Code Entry

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Alternate Calling — Ring / Voice

Description

This system offers two methods of Intercom Calling — Ring-Calling and Voice-Calling. Ring-Calling informs the called party of an incoming call with a ring tone, while the Voice-Calling uses the calling party's voice. The proprietary telephone user can select ring tone or voice calling by Station Programming. If the user selects Voice-Calling, the calling party can talk to the user immediately after the confirmation tone. The calling extension user can change the called extension user's pre-set method (ring tone or voice) by pressing "✳" after dialing the extension number. By doing so, Ring-Calling is switched to Voice-Calling, or vice versa, at the called extension.

Conditions

- Single line telephone users receive calls with Ring-Calling only.

Programming Guide References

No programming required.

Features Guide References

- Handsfree Answerback

User Manual References

- 2.1.1 Station Programming Instructions
- 4.3.3 Alternate Calling — Ring / Voice

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Answering, Direct Outside Line

Description

Allows the proprietary telephone user to answer an incoming call by simply pressing the appropriate CO button without lifting the handset or pressing the SP-PHONE / MONITOR button.

Conditions

This feature permits the user to specify the desired line to be answered if multiple incoming lines are ringing.

Programming Guide References

No programming required.

Features Guide References

- Outside Line Connection Assignment

User Manual References

- 4.3.4 Answering, Direct Outside Line [PT only]

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Automatic Callback Busy (Camp-On)

Description

Allows the caller to be informed when the called party or the selected outside line becomes free.

Automatic Callback — Extension

If the caller answers the callback ringing, the called extension automatically starts ringing.

Automatic Callback — Outside Line

If the caller answers the callback ringing, the line is automatically selected to allow the user to make an outside call.

Conditions

- If the callback ringing is not answered in four rings (within 10 seconds) the callback is canceled.
- More than one extension user can set this function to one extension or outside line at the same time.

Programming Guide References

- [100] Flexible Numbering

Features Guide References

None

User Manual References

- 4.3.5 Automatic Callback Busy (Camp-On)

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Automatic Configuration*1

Description

The system sends the Voice Processing System (VPS) data which contains the extension number configuration information. The VPS automatically creates mailboxes with this data (Quick Setup).

Conditions

- The data is transmitted to the VPS via the lowest jack port.
- Please see the Note in the Programming Guide, [003] Extension Number Set. [003] should be done before Automatic Configuration is performed.

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

Not applicable.

*1 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-TVS100).

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Automatic Hold by CO Button

Description

This feature, if programmed, allows a proprietary telephone user to hold a current outside call by pressing another CO button. While talking to an outside party, pressing a CO button for an incoming or outgoing call provides an automatic hold for the current call.

Conditions

- If Automatic Hold mode is disabled, pressing a CO button disconnects the current call. (Default=Disable)
- It is possible to return to the held party by pressing the corresponding CO button.

Programming Guide References

- [108] Automatic Hold by CO / DSS Button

Features Guide References

None

User Manual References

Not applicable.

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Automatic Route Selection (ARS)

Description

Automatic Route Selection (ARS) is a system programmable feature that automatically selects the least expensive route available at the time an outgoing outside call is made. Preprogramming eliminates dialing the access code of the least expensive carrier. All the user has to do is dial the feature number for ARS, and the number. The appropriate outside line group is selected and the access code is added before the number is outpulsed.

The software contained in Automatic Route Selection (ARS) to allow user access to the network must be upgraded to recognize newly established network area codes and exchange codes as they are placed into service.
Failure to upgrade the premises systems or peripheral equipment to recognize the new codes as they are established will restrict the customer and the customer's employees from gaining access to the network and to these codes.

Programming Example

The following is an example to show how to program ARS so that the user can call the XYZ Company via the least expensive line.

1. Program ARS to work when the feature number for ARS is dialed by the user. Use the program [312] ARS Mode to enable the feature.
2. Store the telephone number of the outside party that will use the ARS feature. For example, if XYZ Company's telephone number is "1-234-567-8910" (not including the line access code), store the leading digits of the number "1234567890" (max. 10 digits). To store the numbers, use one of the programs [314] through [321] ARS Leading Digit Entry for Plans 1 through 8 (Leading Digit Tables 1 through 8). The following assumes that we have selected Leading Digit Table 1 to store the number. Remember that Table number 1 matches Route Plan Table 1.

   Example: Program Address [314] Leading Digit Table a

Table a

Location	Entry
01	1234567890
02	
•	
•	
•	
100	

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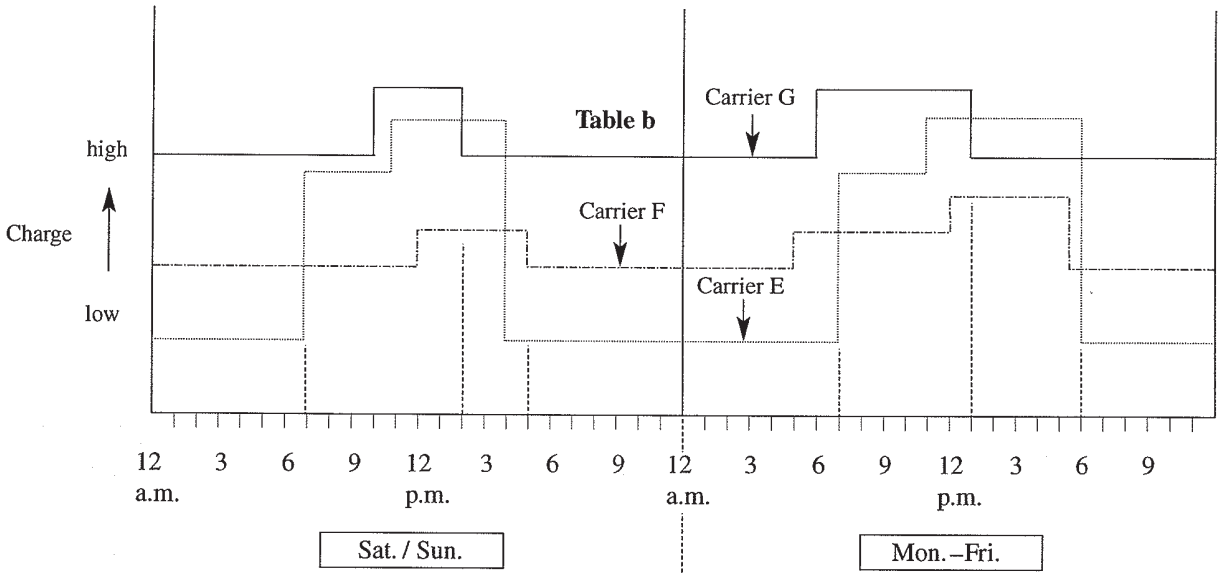
3. Check all carriers available to call the stored telephone number and their outside line groups. Suppose there are three carriers available to call the XYZ Company and each carrier's line is assigned to an outside line group as follows:

   Carrier E — Outside Line Group 1

   Carrier F — Outside Line Group 2

   Carrier G — Outside Line Group 3

   Then check the fee charged by each carrier:



As shown in Table b, the least costly route varies with the day of the week and the time of day. To select the least expensive line at a certain time, split the day into three zones as follows:

Table c

Sat. / Sun.	Mon. - Fri.
(1) 7:00 a.m. - 2:00 p.m.	(1) 7:00 a.m. - 1:00 p.m.
(2) 2:00 p.m. - 5:00 p.m.	(2) 1:00 p.m. - 6:00 p.m.
(3) 5:00 p.m. - 7:00 a.m.	(3) 6:00 p.m. - 7:00 a.m.

To program the time zones above, use the program [313] ARS Time. Four time zones (Time-A, Time-B, Time-C, Time-D) are provided. Enter the starting hour for each zone.

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Example: Program Address [313] ARS Time Table

Table d (Example: ARS Time Table)

Sat. / Sun.		Mon. - Fri.		
Time Zones	**Entry**	**Time Zones**	**Entry**	
Time-A	7:00 a.m.	Time-A	7:00 a.m.	← Enter the starting time of each zone. If a zone is not necessary, select "Disable."
Time-B	2:00 p.m.	Time-B	1:00 p.m.	
Time-C	5:00 p.m.	Time-C	6:00 p.m.	
Time-D	Disable	Time-D	Disable	

4. Determine the priority of the outside line groups in each time zone. The table below shows the carrier and outside line groups selected for each priority and time zone:

Table e

	Time-A	Time-B	Time-C
Least Costly Carrier / Outside Line Group (Priority 1)	Carrier F/Group 2	Carrier F/Group 2	Carrier E/Group 1
Next Less Costly Carrier / Outside Line Group (Priority 2)	Carrier E/Group 1	Carrier G/Group 3	Carrier F/Group 2
Most Costly Carrier / Outside Line Group (Priority 3)	Carrier G/Group 3	Carrier E/Group 1	Carrier G/Group 3

To have the system use the priorities shown above, use one of the programs [322] through [329] "ARS Routing Plans 1 through 8" (Route Plan Tables 1 through 8). As we have already selected Leading Digit Table a, select Route Plan Table a. Enter the outside line group numbers in order of priority. If the specified outside line group requires digit modification, assign the appropriate digit modification table number (1 to 8).

This table is required to have the system automatically add a specific carrier access code to the user-dialed number.

Example: Program [322] Route Plan Table a

Table f

	Time -A		Time -B		Time -C		Time -D	
	COG	**Modify**	**COG**	**Modify**	**COG**	**Modify**	**COG**	**Modify**
Priority 1	2	2	2	2	1	1		
Priority 2	1	1	3	3	2	2		
Priority 3	3	3	1	1	3	3		

COG: Outside Line Group

Modify: Modification Table Number

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5. Create a Digit Modification Table. Carriers E, F and G match the outside line groups and Modification Tables as follows and have the following Access Codes:

Table g

Carrier	COG	Mod. Table	Access Code
E	1	1	1-0-333
F	2	2	1-0-555
G	3	3	1-0-666

According to Table f, enter the Access Codes in the respective Modification Tables using programs [330] "RS Modify Removed Digit" and [331] "RS Modify Added Number" as follows:

Example: Program [330] Digit Modification Tables

Modification Table a			Modification Table b			Modification Table c		
Remove	0		Remove	0		Remove	0	← Enter the number of digits to be deleted.
Add	10333		Add	10555		Add	10666	← Enter the digits to be added.

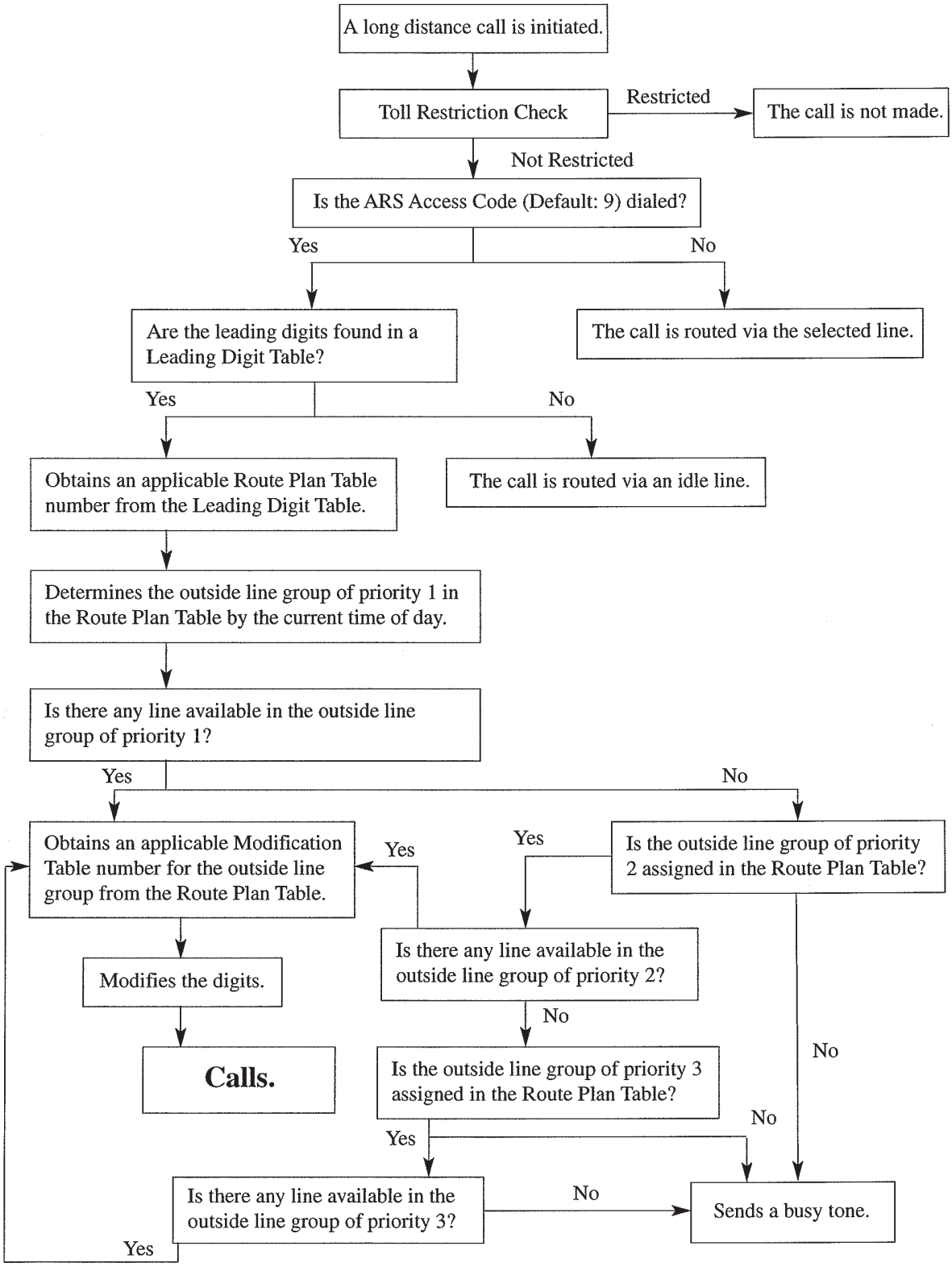
If Modification Table a is applied, the user-dialed number "9-1-234-567-8910" is modified to "9-10333-1-234-567-8910" to access the least expensive Carrier E.
Similarly, if Modification Table b is applied, it is modified to "9-10555-1-234-567-8910" to access Carrier F.
Use the "Removed Digit" program when it is necessary to delete some leading digits from the user-dialed number. For example, if the user manually dials a Carrier Access Code but the carrier is not the least expensive, modification is required. For example, to delete "10333" from the beginning of the user-dialed number and add "10555", enter "5" in the "Removed Digit" program. Enter "10555" in the "Added Number" program. When "9-10333-1-234-567-8910" is dialed,

9-10333-1-234-567-8910.
↓

The five digits are deleted and "10555" is added.
"10555-1-234-567-8910" is sent to the outside line.

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Flow Chart of the ARS procedure



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Conditions

- A Toll Restriction check is done before ARS is applied.
- ARS works according to the selected dialing plan. Thus, if the user dialed number is not found in the dialing plan (Leading Digit Tables), the dialed number is sent out by a Local Access (Automatic line access) Code.
- ARS is not applied to a call specifying an outside line group. In other words, it is possible to make an outside call by assigning an outside line group directly (ARS Override).
- This feature also applies to Call Forwarding — to Outside Line.

Programming Guide References

- [100] Flexible Numbering
- [312] ARS Mode
- [313] ARS Time
- [314-321] ARS Leading Digit Entry for Plans 1 through 8
- [322-329] ARS Routing Plans 1 through 8
- [330] ARS Modify Removed Digit
- [331] ARS Modify Added Number

Features Guide References

- Line Access, Automatic

User Manual References

- 4.3.64 Outward Dialing, Line Access — SUMMARY

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Automatic Station Release

Description

After going off-hook, if an extension user fails to dial any digits within a specified time period, the user will be disconnected from the line after reorder tone is sent. To get a line again, the user must go back on-hook and then off-hook.

Conditions

This function works in the following cases:
When making a call

a) The first digit has not been dialed within 10 seconds.

b) After a digit is dialed, the next one is not dialed within five seconds (Intercom call only).

Programming Guide References

- [207] First Digit Time
- [208] Inter Digit Time

Features Guide References

None

User Manual References

Not applicable.

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Background Music (BGM)

Description

Allows the proprietary telephone user to listen to background music from the monitor speaker on the telephone.

Conditions

- It may be required to connect a user-supplied external music source, such as a radio. One external music source can be connected to KX-TD816, and up to two sources can be connected to KX-TD1232 per system.
- It is required to select a music source used for BGM by System Programming.
- The music source is used for BGM and/or Music on Hold. It is also possible to disable the BGM and/or Music on Hold.
- The music is interrupted when you go off-hook.

Connection References

- 2.3.7 External Music Source Connection

Programming Guide References

- [803] Music Source Use
- [990] System Additional Information

Features Guide References

- Music on Hold

User Manual References

- 4.3.6 Background Music (BGM) [PT only]

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Background Music (BGM) — External

Description

Background music (BGM) can be broadcast in your office through the external pagers. The BGM can be turned on and off by the operator or manager.

Conditions

- It is required to connect an external pager. The pager is a user-supplied item. One pager and one external music source can be installed to KX-TD816, and up to two pagers and up to two external music sources can be installed to KX-TD1232 per system.
- Each pager can be programmed to send BGM or not.
- Priority of access to external pager is: (1)Trunk (Outside Line) Answer From Any Station (TAFAS); (2)Paging; (3)BGM. Higher priorities will override the BGM.

Connection References

- 2.3.6 External Pager (Paging Equipment) Connection
- 2.3.7 External Music Source Connection

Programming Guide References

- [100] Flexible Numbering
- [803] Music Source Use
- [804] External Pager BGM
- [990] System Additional Information

Features Guide References

- Background Music (BGM)

User Manual References

- 4.3.6 Background Music (BGM) [PT only]

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Bilingual Display

Description

Provides the display proprietary telephone user with either an English or French display. Either display can be selected by Station Programming.

Conditions

None

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

- 2.1.1 Station Programming Instructions

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Busy Lamp Field

Description

The LED (Light Emitting Diode) indicators of the DSS (Direct Station Selection) buttons, each of which corresponds to a selected extension, reveal whether the corresponding extensions are idle or busy.

Conditions

- This function is available for DSS buttons on DSS Consoles and for flexible CO buttons assigned as DSS buttons on proprietary telephones.
- A DSS button indicator lights red if the corresponding extension is busy.

Programming Guide References

- [005] Flexible CO Button Assignment

Features Guide References

- Button, Direct Station Selection (DSS)
- DSS Console

User Manual References

- 2.2.2 Flexible Button Assignment

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Busy Station Signaling (BSS)

Description

When attempting to call a busy extension (ringing or having a conversation), Busy Station Signaling allows you to signal the user on the phone to answer your call. The called extension user hears a Call Waiting tone and is able to answer the call.

Conditions

- This feature only works if the called extension has activated Call Waiting. If it is activated, the caller will hear ringback tone.
- If the called party has been set to activate the Off-Hook Call Announcement (OHCA) or Whisper OHCA function, the caller can announce the call through the speaker or the handset.
- If none of three features, Call Waiting, OHCA or Whisper OHCA is set at the called party, the caller will hear a reorder tone.

Programming Guide References

No programming required.

Features Guide References

- Call Waiting
- Off-Hook Call Announcement (OHCA)
- Whisper OHCA

User Manual References

- 4.3.7 Busy Station Signaling (BSS)

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Button, Direct Station Selection (DSS)

Description

DSS button permits the proprietary telephone user one-touch access to other extension users.

Conditions

- A flexible CO button on a proprietary telephone can be assigned as a DSS button using either System or Station Programming.
- DSS buttons are provided on DSS Consoles with a default setting. Changing the setting is possible from the paired telephone using Station Programming.
- Once a button is assigned as a DSS button, it provides Busy Lamp Field (BLF) status.
- The mode of a DSS button on a DSS Console / proprietary telephone can be programmed to disconnect the outside line and calls the extension or hold and transfers the call to the extension (One-Touch Transfer by DSS Button).

Programming Guide References

- [005] Flexible CO Button Assignment
- [108] Automatic Hold by CO / DSS Button

Features Guide References

- Busy Lamp Field
- DSS Console
- One-Touch Transfer by DSS Button

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.2.1 Making Calls
- 4.3.25 Call Transfer — to Extension

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Button, Flexible

Description

The use of Flexible Buttons is determined by either System or Station Programming. The following three types of Flexible Buttons are provided on proprietary telephones (PT) and DSS Console:

- Flexible CO buttons (provided on PT only)
- Flexible Direct Station Selection (DSS) buttons (provided on DSS Console only)
- Programmable Feature (PF) buttons

The table below shows all of the features which can be assigned to Flexible Buttons.

Button / Features to be assigned	CO (PT)	DSS (PT/DSS)	PF (PT/DSS)
Single-CO	✔		
Group-CO	✔		
Log-In / Log-Out	✔		
Loop-CO	✔		
Direct Station Selection (DSS)	✔	✔	
Live Call Screening*	✔	✔	
Live Call Screening Cancel*	✔	✔	
Message Waiting	✔	✔	
MESSAGE (Another / Phantom Extension)	✔	✔	
Night	✔	✔	
Phantom Extension	✔	✔	
Two-Way Record*	✔	✔	
Two-Way Transfer*	✔	✔	
Account Code Entry	✔	✔	✔
Conference	✔	✔	✔
FWD/DND	✔	✔	✔
One-Touch Dialing	✔	✔	✔

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Button Features to be assigned	CO (PT)	DSS (PT/DSS)	PF (PT/DSS)
Saved Number Redial	✔	✔	✔
Voice Mail Transfer	✔	✔	✔

* 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-TVS100).

" ✔"indicates that the feature is available.

Conditions

- An outside line can only appear on one Single-CO button of any given telephone. A station can only appear on one DSS button of any given telephone or DSS Console.
- It is possible to set the Group-CO or Loop-CO buttons on one telephone. Incoming and outgoing calls on the line are shown on the button in the following priority.
  Single-CO > Group-CO > Loop-CO

Programming Guide References

- [005] Flexible CO Button Assignment

Features Guide References

- DSS Console
- Buttons on Proprietary Telephones

User Manual References

- 2.2.2 Flexible Button Assignment

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Button, Group-CO (G-CO)

Description

To support efficient utilization of outside lines, a group of outside lines (outside line group) can be assigned to a CO button. The function is referred to as Group-CO (G-CO). The G-CO button works in conjunction with the Direct In Lines (DIL) 1:N feature. Any incoming call from any outside line in the outside line group arrives at the G-CO button. To make an outside call, the user can access an idle outside line in the group by simply pressing the assigned G-CO button.

Conditions

- No G-CO button is originally provided on a proprietary telephone (PT). It is programmable on a CO button by either System or Station Programming.
- It is necessary to program the extension for receiving and / or originating calls on outside lines.
- It is possible to assign the same outside line group to more than one G-CO button on the same PT.
- It is possible to assign the same line to a Single-CO (S-CO) button and to a G-CO button.
- Immediate, delayed, no ringing or no incoming call (disable) can be selected on an extension — outside line basis.
- The digital PT user can choose a desired ringer frequency for each G-CO button by System or Station Programming.

Programming Guide References

- [005] Flexible CO Button Assignment
- [400] Outside Line Connection Assignment
- [401] Outside Line Group Assignment
- [603-604] DIL 1:N Extension and Delayed Ringing —— Day / Night
- [605-606] Outgoing Permitted Outside Line Assignment —— Day / Night

Features Guide References

- Answering, Direct Outside Line
- LED Indication, Outside Line
- Line Access, Outside Line Group
- Line Access, Direct
- Outside Line Group
- Ringing, Delayed
- Ringing Tone Selection for CO Buttons

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User Manual References

- 2.2.2 Flexible Button Assignment
- 2.2.4 Ringing Tone Selection for CO Buttons
- 4.2.1 Making Calls
- 4.2.2 Receiving Calls
- 4.3.4 Answering, Direct Outside Line [PT only]
- 4.3.64 Outward Dialing, Line Access — SUMMARY

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Button, Loop-CO (L-CO)

Description

All outside lines can be assigned to a flexible CO button on a proprietary telephone (PT). The assigned button serves as a Loop-CO (L-CO) button. An incoming call on any outside line arrives at the L-CO, unless there are Single-CO (S-CO) or Group-CO (G-CO) buttons associated with the line or unless the button is already in use. To make an outside call, the PT user simply press the dedicated L-CO button.

Conditions

- No L-CO button is originally provided on a PT. A flexible CO button can be assigned as an L-CO button in either System or Station Programming.
- It is possible to assign more than one L-CO button on a PT.
- Pressing the L-CO button provides the same operation as dialing an automatic line access code. This results in Automatic Line Access or Automatic Route Selection (ARS), if programmed.
- Immediate, delayed, no ringing or no incoming call (disable) can be selected on an extension—outside line basis.
- The digital PT user can choose a desired ringer frequency for each L-CO button by System or Station Programming.

Programming Guide References

- [005] Flexible CO Button Assignment
- [400] Outside Line Connection Assignment
- [603-604] DIL 1:N Extension and Delayed Ringing —— Day / Night
- [605-606] Outgoing Permitted Outside Line Assignment —— Day / Night

Features Guide References

- Answering, Direct Outside Line
- LED Indication, Outside Line
- Line Access, Automatic
- Line Access, Direct
- Ringing, Delayed
- Ringing Tone Selection for CO Buttons

User Manual References

- 2.2.2 Flexible Button Assignment
- 2.2.4 Ringing Tone Selection for CO Buttons
- 4.2.1 Making Calls
- 4.2.2 Receiving Calls
- 4.3.64 Outward Dialing, Line Access — SUMMARY

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Button, Single-CO (S-CO)

Description

A Single-CO (S-CO) button is an outside line access button. This allows the proprietary telephone (PT) user to access a specific line by pressing a S-CO button. An incoming call can be directed to an S-CO button.

Conditions

- The default setting for CO buttons is changeable. (Flexible CO Button)
- An S-CO button provides outside line status.
- It is possible to assign one outside line to both a S-CO and a Group-CO (G-CO) button.
- If Automatic Route Selection (ARS) is set, it is overridden by an outgoing call made by pressing the S-CO button.
- Incoming calls appear on the proprietary telephone, when an extension is assigned as the incoming call destination and a S-CO, G-CO and/or Loop-CO (L-CO) button is assigned.
- Immediate, delayed, no ringing or no incoming call (disable) can be selected on an extension — outside line basis.
- The digital PT user can choose a desired ringing tone type for the S-CO button by System or Station Programming.

Programming Guide References

- [005] Flexible CO Button Assignment
- [400] Outside Line Connection Assignment
- [603-604] DIL 1:N Extension and Delayed Ringing —— Day / Night
- [605-606] Outgoing Permitted Outside Line Assignment —— Day / Night

Features Guide References

- Answering, Direct Outside Line
- LED Indication, Outside Line
- Line Access, Direct
- Line Access, Individual
- Ringing, Delayed
- Ringing Tone Selection for CO Buttons

User Manual References

- 2.2.2 Flexible Button Assignment
- 2.2.4 Ringing Tone Selection for CO Buttons
- 4.2.1 Making Calls
- 4.2.2 Receiving Calls
- 4.3.64 Outward Dialing, Line Access — SUMMARY

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Buttons on Proprietary Telephones

Description

Proprietary telephones are provided with the feature / line access buttons listed below:

KX-T Proprietary Telephones:

Buttons	7020	7030	7050	7055	7130 7135	7220	7230	7235	7250	7420	7425	7431	7433	7436
AUTO ANSWER / MUTE*1	✔	✔			✔	✔	✔	✔		✔	✔	✔	✔	✔
AUTO DIAL / STORE*1	✔	✔	✔	✔*2	✔	✔	✔	✔	✔*2	✔	✔	✔	✔	✔
CO*1*3	✔ (12)	✔ (12)	✔ (12)	✔ (3)	✔ (12)	✔ (24)	✔ (24)	✔ (12)	✔ (6)	✔ (12)	✔ (24)	✔ (12)	✔ (24)	✔ (24)
CONF*1	✔	✔	✔*2	✔*2	✔	✔	✔	✔		✔	✔	✔	✔	✔
FLASH	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Function								✔ (10)						✔ (10)
FWD / DND*1	✔	✔			✔	✔	✔	✔		✔	✔	✔	✔	✔
HOLD	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
INTERCOM*1	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Jog Dial										✔	✔	✔	✔	✔
MESSAGE*1	✔	✔	✔		✔	✔	✔	✔		✔	✔	✔	✔	✔
MODE												✔		
MONITOR			✔*1	✔					✔					
PAUSE	✔	✔	✔	✔	✔		✔	✔		✔	✔	✔	✔	✔
PF (Programmable Feature)	✔ (4)	✔ (4)	✔ (4)	✔ (3)	✔ (12)									
PROGRAM						✔	✔	✔	✔	✔	✔	✔	✔	✔
REDIAL	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
SAVE					✔									

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KX-T Proprietary Telephones:

Buttons	7020	7030	7050	7055	7130 7135	7220	7230	7235	7250	7420	7425	7431	7433	7436
SELECT												✔		
SHIFT*1							✔	✔					✔	✔
Soft							✔ (3)	✔ (3)					✔ (3)	✔ (3)
SP-PHONE*1	✔	✔			✔	✔	✔	✔		✔	✔	✔	✔	✔
TRANSFER	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
VOLUME						✔	✔	✔	✔					

KX-T73 series Proprietary Telephones:

Buttons	7320	7335	7350	Buttons	7320	7335	7350	Buttons	7320	7335	7350
AUTO ANS / MUTE*1	✔	✔		AUTO / STORE*1	✔	✔	✔	CO*1*3	✔ (12)	✔ (12)	✔ (12)
FLASH	✔	✔	✔	HOLD	✔	✔	✔	INTERCOM*1	✔	✔	✔
MESSAGE*1	✔	✔	✔	MONITOR			✔	PAUSE	✔	✔	✔
PROGRAM	✔	✔	✔	REDIAL	✔	✔	✔	SP-PHONE	✔	✔	
TRANSFER	✔	✔	✔	VOICE CALL*1			✔	VOLUME	✔	✔	✔

*1 The button is provided with an LED (Light Emitting Diode).

*2 The button is provided without an LED.

*3 The buttons which can be changed to function as a feature button are called flexible buttons.

✔: The button is provided on the designated telephones.

(x): Shows the number of buttons only if multiple buttons are provided.

The functions of the listed buttons are described below:
AUTO ANSWER / MUTE: This dual function button is used for extension auto-answer and microphone mute during a conversation.
AUTO DIAL / STORE: Used for System Speed Dialing and storing program changes.
CO (Central Office line): Can make or receive an outside call or can be re-assigned to a different CO or to various feature buttons.
CONF (Conference): Used to establish a three-party conference.
FLASH or FLASH / RCL Allows you to disconnect the current call and originate another call without hanging up (Flash). Sends a flash signal to the Central Office or host PBX to access

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their features (External Feature Access).
Function: Used to perform the displayed function / operation.
FWD / DND (Call Forwarding / Do Not Disturb): Used to program Call Forwarding, set Do Not Disturb.
HOLD: Used to place a call on hold.
INTERCOM: Used to make or receive intercom calls.
Jog Dial: Used to adjust the ringer, speaker, handset and headset volume and the display contrast. With the KX-T7431, KX-T7433 and KX-T7436, it can also be used to select data from the Call Directory and the System Feature Access Menu on the display.
MESSAGE: Used to send a message or display current message.
MODE: Used to shift the display in order to access various features.
MONITOR: Used for a hands free operation.
PAUSE: Inserts a pause in a speed dial number. With an analog proprietary telephone, it is used as the PROGRAM button.
PF (Programmable Feature): This flexible button can be programmed to be a One-Touch Dialing, FWD / DND, SAVE, Account, CONF (Conference) or Voice Mail Transfer button, as desired.
PROGRAM: Used to enter / exit the Programming mode. With the KX-T7220 and KX-T7250, it can also be used as the PAUSE button.
REDIAL: Used for Last Number Redial.
SAVE: Used to store a dialed telephone number for Saved Number Redial.
SELECT: Used to select the displayed function or to call for the displayed phone number.
SHIFT: Used to access the second level of Soft button function.
Soft: Pressing a Soft button performs the function / operation appearing on the bottom line of the display.
SP-PHONE (Speakerphone): Used for a handsfree operation. Pressing the button causes the telephone to switch between handset and handsfree operation.
TRANSFER: Transfers a call to another extension or external destination.
VOICE CALL: Used for extension auto-answer (handsfree conversation is not available), and handset microphone mute during a conversation.
VOLUME: Used to adjust the ringer, speaker, handset and headset volume and the display contrast.

Conditions

- Certain buttons are equipped with light indicators (LED's) to show line or feature status.
- CO buttons can be classified according to the following three types: Single-CO (S-CO) button / Group-CO (G-CO) button / Loop-CO (L- CO) button

Programming Guide References

- [005] Flexible CO Button Assignment

Features Guide References

None

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User Manual References

- 2.2.2 Flexible Button Assignment

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CALL FORWARDING FEATURES — SUMMARY

Description

Call forwarding features enable you to have your calls forwarded to a specified destination. You may specify the circumstances under which your calls are forwarded. The following Call Forwarding features are available:

Call Forwarding — All Calls

Call Forwarding — Busy

Call Forwarding — Busy / No Answer

Call Forwarding — Follow Me

Call Forwarding — No Answer

Call Forwarding — to Outside Line

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Call Forwarding — All Calls

Description

This feature is used when you want all your calls to be automatically re-directed to another extension.

Conditions

- Types of calls which are forwarded by this feature are:
  Outside calls — Direct In Lines (DIL) 1:1; Direct Inward System Access (DISA)*1; Intercept Routing
  Intercom calls — Extension; Transfer
- There can only be one stage of Call Forwarding, if a call is forwarded to an extension which is also in Call Forwarding. In this case, Station Hunting can be activated for the forwarded call.
- Although calls are forwarded, Message Waiting is not. The MESSAGE button indicator is lit on the originally called extension.
- If an extension in Call Forwarding is also in a Hunt group, a call directed to the extension is forwarded. Station Hunting still applies for calls directed to other extensions in the Hunt group.
- Both the Call Forwarding and Do Not Disturb (DND) functions can be set at the same time, but cannot work at the same time.
- Pressing the FWD/DND button while on-hook allows the user to enable or disable the Call Forwarding or DND function. If the user sets both functions, alternating the mode is also available by pressing the FWD/DND button.
- A Floating Station cannot be programmed as the forwarded destination.
- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 4, 3".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [990] System Additional Information

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Features Guide References

None

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.9 Call Forwarding — All Calls

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Call Forwarding — Busy

Description

A call directed to your extension is forwarded to another extension if your telephone is busy.

Conditions

- Types of calls which are forwarded by this feature are:
  Outside calls – Direct In Lines (DIL) 1:1; Direct Inward System Access (DISA)*1; Intercept Routing
  Intercom calls – Extension; Transfer
- There can only be one stage of Call Forwarding, if a call is forwarded to a station which is also in Call Forwarding. In this case, Station Hunting is activated for the forwarded call.
- Although calls are forwarded, Message Waiting is not. The MESSAGE button indicator is lit on the originally called extension.
- If an extension in Call Forwarding is also in a Hunt group, a call directed to the extension is forwarded. Station Hunting still applies for calls directed to other extensions in the Hunt group.
- Both the Call Forwarding and Do Not Disturb (DND) functions can be set at the same time, but cannot work at the same time.
- Pressing the FWD/DND button while on-hook allows the user to enable or disable the Call Forwarding or DND function. If the user sets both functions, alternating the mode is also available by pressing the FWD/DND button.
- A Floating Station cannot be programmed as the forwarded destination.
- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 4, 3".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [990] System Additional Information

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Features Guide References

- Call Forwarding — Busy / No Answer

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.10 Call Forwarding — Busy

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Call Forwarding — Busy / No Answer

Description

Your calls are forwarded to another extension if your extension is busy or you do not answer the call within a pre-determined time.

Conditions

- Types of calls which are forwarded by this function are:
  Outside calls – Direct In Lines (DIL) 1:1; Direct Inward System Access (DISA)*1; Intercept Routing
  Intercom calls – Extension; Transfer
- This function operates the same way as Call Forwarding - Busy and Call Forwarding - No Answer.
- There can only be one stage of Call Forwarding if a call is forwarded to a station which is also in Call Forwarding. In this case, Station Hunting is activated for the forwarded call.
- Although calls are forwarded, Message Waiting is not. The MESSAGE button indicator is lit on the originally called extension
- If an extension in Call Forwarding is also in a Hunt group, a call directed to the extension is forwarded. Station Hunting still applies for calls directed to other extensions in the Hunt group.
- Both the Call Forwarding and Do Not Disturb (DND) functions can be set at the same time, but cannot work at the same time.
- Pressing the FWD/DND button while on-hook allows the user to enable or disable the Call Forwarding or DND function. If the user sets both functions, alternating the mode is also available by pressing the FWD/DND button.
- A Floating Station cannot be programmed as the forwarded destination.
- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 4, 3".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

*1 Available for the KX-TD1232 only.

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Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [202] Call Forwarding — No Answer Time
- [990] System Additional Information

Features Guide References

- Call Forwarding — Busy
- Call Forwarding — No Answer

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.12 Call Forwarding — Busy / No Answer

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Call Forwarding — Follow Me

Description

If you forget to set Call Forwarding - All Calls before you leave your desk, this allows you to set the same function from the destination extension.

Conditions

- Same as the conditions of Call Forwarding - All Calls.
- It is programmable to enable or disable this feature on a Class of Service basis.
- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 3, 4".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [990] System Additional Information
- [991] COS Additional Information

Features Guide References

- Call Forwarding — All Calls

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.14 Call Forwarding — Follow Me

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Call Forwarding — No Answer

Description

Calls to your extension are forwarded to another extension if you do not answer the call in a pre-determined time.

Conditions

- Types of calls which are forwarded by this function are:
  Outside calls – Direct In Lines (DIL) 1:1; Direct Inward System Access (DISA)*1; Intercept Routing
  Intercom calls – Extension; Transfer
- This function operates if an incoming call is not answered in a specific period of time. Therefore, this function also applies if your extension is busy and cannot answer the incoming call within the time.
- There can only be one stage of Call Forwarding if a call is forwarded to a station which is also in Call Forwarding. In this case, Station Hunting is activated for the forwarded call.
- Although calls are forwarded, Message Waiting is not. The MESSAGE button indicator is lit on the originally called extension.
- If an extension in Call Forwarding is also in a Hunt group, a call directed to the extension is forwarded. Station Hunting still applies for calls directed to other extensions in the Hunt group.
- Both the Call Forwarding and Do Not Disturb (DND) functions can be set at the same time, but cannot work at the same time.
- Pressing the FWD/DND button while on-hook allows the user to enable or disable the Call Forwarding or DND function. If the user sets both functions, alternating the mode is also available by pressing the FWD/DND button.
- A Floating Station cannot be programmed as the forwarded destination.
- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 4, 3".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

*1 Available for the KX-TD1232 only.

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- Each PT and SLT extension (not ISDN / T1 line extension) can be assigned a call forward no answer timer on program "[619] Extension Call Forwarding — No Answer Time". If it is not changed, the timer assigned in program "[202] Call Forwarding — No Answer Time" is used.

Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [202] Call Forwarding — No Answer Time
- [990] System Additional Information

Features Guide References

- Call Forwarding — Busy / No Answer

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.11 Call Forwarding — No Answer

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Call Forwarding — to Outside Line

Description

Calls directed to your extension will be sent to an external destination. The outside telephone number must be pre-programmed.

Conditions

- Types of calls which are forwarded by this function are:
  Outside calls – Direct In Lines (DIL) 1:1;
  Direct Inward System Access (DISA)*1
  Intercom calls – Extension; Transfer
- The forwarding extension's Toll Restriction, Automatic Route Selection (ARS) and Account Code Entry requirements still apply.
- Although calls are forwarded, Message Waiting is not. The MESSAGE button indicator is lit on the originally called extension.
- If an extension in Call Forwarding is also in a Hunt group a call directed to the extension is forwarded. Station Hunting still applies for calls directed to other extensions in the Hunt group.
- Both the Call Forwarding and Do Not Disturb (DND) functions can be set at the same time, but cannot work at the same time.
- Pressing the FWD/DND button while on-hook allows the user to enable or disable the Call Forwarding or DND function. If the user sets both functions, alternating the mode is also available by pressing the FWD/DND button.
- Class of Service programming determines the extensions that are able to perform this function.
- If an extension is limited by the program "[502] Extension-to-Outside Line Call Duration Limit" according to its Class of Service, the extension is unable to forward an outside call to an outside line.
- If a call between an extension and an outside party is established by this feature, the duration of the call period can be restricted depending on the setting of the system timer. If a call between two outside parties is established by this feature, the duration of the call is determined by another system timer. An alarm tone is generated to both outside parties 15 seconds before the time-out. The call is disconnected at the time-out.

*1 Available for the KX-TD1232 only.

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- The flashing pattern of LED for FWD / DND button can be selected on program "[990] System Additional Information, Area 09 - Bit 4, 3".

[990] System Additional Information, Area 09 - Bit 4, 3	FWD	DND
11	Red Flashing	Red on
10	Red on	Red on
01	Red on	Red Flashing
00	Red Flashing	Red Flashing

Programming Guide References

- [005] Flexible CO Button Assignment
- [100] Flexible Numbering
- [205] Extension-to-Outside Line Call Duration Time
- [206] Outside-to-Outside Line Call Duration Time
- [502] Extension-to-Outside Line Call Duration Limit
- [504] Call Forwarding to Outside Line
- [990] System Additional Information

Features Guide References

- Limited Call Duration

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.13 Call Forwarding — to Outside Line

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Call Hold — Intercom

Description

This is used to place an intercom call on hold. The held call can be retrieved by the user who held it or by any other extension.

Conditions

- Only one intercom call can be placed on hold at each telephone at one time (up to ten calls in the system — Call Park). With a proprietary telephone, outside calls and one intercom call can be placed on hold at the same time. With a single line telephone, either one outside or intercom call can be held.
- If a call on hold is not retrieved within a specific period of time, Hold Recall is emitted.
- Music is sent to the party on hold, if available (Music on Hold).

Programming Guide References

- [100] Flexible Numbering
- [200] Hold Recall Time

Features Guide References

- Call Park
- Hold Recall
- Music on Hold

User Manual References

- 4.3.16 Call Hold

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Call Hold — Outside Line

Description

Allows the extension user to put an outside call on hold. The held call can be retrieved by the user who held it or by any other extension.

Conditions

- With a single line telephone, the user can hold only one call whether it is an extension or outside call.
- Music is sent to the party on hold, if available (Music on Hold).
- If a call on hold is not retrieved in a specific period of time, Hold Recall is emitted.
- If an outside party is placed on hold and not retrieved within 30 minutes, it is automatically disconnected.

Programming Guide References

- [100] Flexible Numbering
- [200] Hold Recall Time

Features Guide References

- Hold Recall
- Music on Hold

User Manual References

- 4.3.16 Call Hold

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Call Hold Retrieve — Intercom

Description

Allows the extension user to retrieve a call that has been placed on hold by another extension.

Conditions

Confirmation tone is sent to the user when the hold is retrieved by the feature number. Eliminating the tone is programmable.

Programming Guide References

- [100] Flexible Numbering
- [990] System Additional Information

Features Guide References

- Call Hold — Intercom

User Manual References

- 4.3.18 Call Hold Retrieve

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Call Hold, Exclusive — Intercom

Description

Allows the proprietary telephone user to prevent other extension users from retrieving a held intercom call. Only the user who held the call can retrieve it.

Conditions

- Only one intercom call can be placed on Call Hold or Exclusive Call Hold at a time.
- If a call on hold is not retrieved in a specific period of time, Hold Recall is emitted. After Hold Recall is emitted, the held call can be retrieved from any extension.
- Music is sent to the party on hold, if available (Music on Hold).

Programming Guide References

- [200] Hold Recall Time

Features Guide References

- Hold Recall
- Music on Hold

User Manual References

- 4.3.17 Call Hold, Exclusive [PT only]

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Call Hold, Exclusive — Outside Line

Description

Allows the proprietary telephone user to prevent other extension users from retrieving a held outside call. Only the user who held the call can retrieve it.

Conditions

- If a call on hold is not retrieved in a specific period of time, Hold Recall is emitted. After Hold Recall is emitted, the held call can be retrieved from any extension.
- If an outside party is placed on hold and not retrieved in 30 minutes, it is automatically disconnected.
- Music is sent to the party on hold, if available (Music on Hold).

Programming Guide References

- [200] Hold Recall Time

Features Guide References

- Hold Recall
- Music on Hold

User Manual References

- 4.3.17 Call Hold, Exclusive [PT only]

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Call Log, Incoming

Description

If the display digital proprietary telephone (DPT: KX-T7433, KX-T7436, KX-T7230 or KX-T7235) user cannot answer a call, the telephone automatically records the caller's information. The user can also record the caller's information manually, even after answering the call. Moreover, the user can call back the caller by checking the call log. This is available if a telephone receives incoming outside calls with a Caller ID service. A maximum of 30 calls per telephone can be logged.
The displayed information is as follows:

- The receiving outside line number and name
- The party's phone number and name
- The date and time the call was made
- The sequence number and number of times called

Conditions

- It is necessary to assign your area code first before you use the Caller ID feature.
- The call is registered at the time DPT finishes ringing. If a call is directed to multiple DPTs, the call is registered at the DPT that has the smallest jack number of the ringing DPTs. However, if the telephone which is connected to the smallest jack is not a DPT, the call is not registered.
- Information is also recorded even if a transferred call (unscreened) is not answered.
- When the call log is full (i.e., 30 calls are stored), the user can select to overwrite the data, replacing the oldest call with the newest one at his / her extension (Call Log, Incoming).
- The telephone user can lock the display of the unit so that incoming call information is not shown on the display. The operator can cancel the lock in case the user forgets the lock code.
- The system automatically modifies the incoming caller's number in a pre-programmed way for local or long distance calls. The modified number will be recorded for calling back. There are ten locations for area codes (program [125]) which are correspond to that of modified numbers for local call (program [126]).
  <Preparation example>
  [125] Area Code Assignment: 201
  [126] Caller ID Modification for Local Call: delete — 3 digits, add — blank
  [127] Caller ID Modification for Long Distance Call: delete — 0 digit, add — 1

	Caller's number provided by CO	**Recorded caller's number**
Local call	2011234567	1234567 (modified by steps [126])
Long distance call	7149876543	17149876543 (modified by [127])

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Connection References

- 2.4.8 Caller ID Card Installation

Programming Guide References

- [100] Flexible Numbering
- [110] Caller ID Code Set
- [111] Caller ID Name Set
- [125] Area Code Assignment
- [126] Caller ID Modification for Local Call
- [127] Caller ID Modification for Long Distance Call
- [406] Caller ID Assignment
- [417] Outside Line Name Assignment

Features Guide References

- Caller ID

User Manual References

- 4.4.3 Call Log Lock Control, Incoming
- 4.5.3 Call Log, Incoming (KX-T7436 / KX-T7433 / KX-T7235 / KX-T7230 only)
- 4.5.4 Call Log Lock, Incoming (KX-T7436 / KX-T7433 / KX-T7235 / KX-T7230 only)

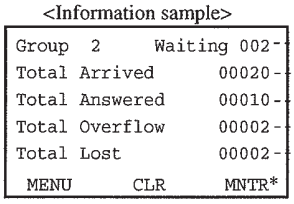
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Call Monitoring in Station Hunting

Description

Allows the extensions to monitor the information of incoming outside calls to the Station Hunting type (UCD/Ring Group). This feature is only available for specified extensions. Extension users can confirm how the incoming calls have been treated. The display information is as follows:

<Information sample>



-- Extension group no. (1-8, ∗(∗: all))/ Waiting calls (000-255)
-- Total of received calls (00000-65535)
-- Total of answered calls (00000-65535)
-- Total of transferred calls (00000-65535)
-- Total of disconnected waiting calls (00000-65535)

*When set by program [991], "MNTR" will be displayed.

Conditions

- This feature is only available for KX-T7436 and KX-T7235.
- Only extensions connected to the Master system can display the information. Up to 8 extension users can monitor simultaneously.
- Extensions which are enabled to monitor are limited to ones pre-assigned as COS 1 from the default (none) by program "[991] COS Additional Information, COS 4 - Bit 9".
- Only extensions in the Station Hunting (UCD/Ring Group) are monitored. Other Hunting types are skipped.
- When receiving a call, the monitoring display remains with the flashing LED and ringing.
- If the Station Hunting type is changed, "Total Call" in that group number is cleared.
- If "Total Call" counts 65535 calls (max.), the number freezes.
- When entering ✳ for all, total calls of all groups is displayed.
- In the monitoring display, an extension user can clear "Total Call" at each Station Hunting type (UCD/Ring Group).
- When the night mode is switched to the day mode, the system can clear "Total Call" in all Station Hunting types (UCD/Ring Group) by program "[991] COS Additional Information, COS 4 - Bit 10".

Programming Guide References

- [106] Station Hunting Type
- [602] Extension Group Assignment
- [991] COS Additional Information

Features Guide References

None

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User Manual References

- 4.5.6 Call Monitoring in Station Hunting (KX-T7436 / KX-T7235 only)

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Call Park

Description

Allows the extension user to place a held call into a system parking area. This releases the user from the parked call to perform other operations. The parked call can be retrieved by any extension user.

Conditions

- The system contains ten parking areas, each of which has its own call park number. Up to ten calls can be parked at the same time in the system. Under the System Connection*1 all users may access the same call parking area. The number of holding slots remains at 10.
- If a parked call is not retrieved in a specific period of time, Call Park Recall occurs.
- If a parked call is not retrieved in 30 minutes, it is automatically disconnected.
- A confirmation tone is sent to the user when the parked call is retrieved. Eliminating the tone is programmable.

Programming Guide References

- [100] Flexible Numbering
- [219] Call Park Recall Time
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.19 Call Park

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Call Pickup Deny

Description

Allows the user to prevent other extensions from picking up calls ringing at his / her extension by using the call pickup features.

Conditions

Distinctive Dial Tone is sent to the user on the extension with this feature when the user goes off-hook.

Programming Guide References

- [100] Flexible Numbering

Features Guide References

- Call Pickup, Directed
- Call Pickup, Group
- Call Pickup, Outside Line

User Manual References

- 4.3.23 Call Pickup Deny

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Call Pickup, Directed

Description

Allows an extension user to answer a call ringing at any other extension.

Conditions

- Doorphone calls can be picked up from extensions that are not programmed to answer doorphone calls.
- A confirmation tone is sent to the user when the call is picked up. Eliminating the tone is programmable.
- You can pick up a call by pressing a flashing DSS (Direct Station Selection) button assigned on a proprietary telephone.

Programming Guide References

- [100] Flexible Numbering
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.20 Call Pickup, Directed

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Call Pickup, Group

Description

Allows an extension user to answer a call that is ringing at another telephone, if the call is ringing within the user's extension group.

Conditions

- The user can pick up an incoming outside, intercom, or doorphone call.
- The priority of Group Call Pickup is as follows:
  Outside call > Transferred call > Extension call > Doorphone call
- Group Call Pickup starts with the lowest jack number.
- A confirmation tone is sent to the user when the call is picked up. Eliminating the tone is programmable.

Programming Guide References

- [100] Flexible Numbering
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.21 Call Pickup, Group

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Call Pickup, Outside Line

Description

Allows an extension user to answer an incoming outside call that is ringing at another telephone.

Conditions

- Call Pickup starts with the lowest CO number.
- A confirmation tone is sent to the user when the call is picked up. Eliminating the tone is programmable.

Programming Guide References

- [100] Flexible Numbering
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.22 Call Pickup, Outside Line

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Call Splitting

Description

Allows the extension user to alternate between two other parties. Placing the current call on hold allows the user to have a conversation with the other party.

Conditions

Call Splitting is impossible during Doorphone Call or Paging.

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

- 4.3.24 Call Splitting

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CALL TRANSFER FEATURES — SUMMARY

Description

Call Transfer features allow the user to transfer a call to another party. This operation can be screened or unscreened. Screened call transfer is used when you want to announce the call to the other party before completing the transfer. Unscreened call transfer immediately releases the caller to the called party. An intercom or an outside call can be transferred to an extension or to an outside party by:

Call Transfer, Screened — to Extension

Call Transfer, Screened — to Outside Line

Call Transfer, Unscreened — to Extension

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Call Transfer, Screened — to Extension

Description

Allows the extension user to voice-announce to the extension and transfer the call.

Conditions

- The destination extension must have a CO button which is common to the outside line in use by the transferring party.
- The destination extension shows the Caller ID and the extension number where the call was transferred from on the display.

<Example> The Caller ID number "123456789" is transferred from extension 101.

```
101→123456789
```

The priority of the display is:
Caller ID name > Caller ID number > Outside line number and name.
If your telephone has a two, three or six line display, both the Caller ID name and number are displayed.
The system can select to show CLIP or the extension number and name by program "[990] System Additional Information, Area 10 - Bit 15".

Programming Guide References

- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.25 Call Transfer — to Extension

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Call Transfer, Screened — to Outside Line

Description

Allows the proprietary telephone user to voice-announce to the external party and transfer the call.

Conditions

- Class of Service programming determines the extensions that are able to perform this.
- If a call between two external parties is established by this feature, the duration of the call period is restricted by a system timer. Hold Recall is generated to the extension who transferred the call 50 seconds before the time-out. Also Hold Alarm tone is generated to both outside parties 15 seconds before the time-out. The call is disconnected at the time-out unless the extension restores the conference.

Programming Guide References

- [205] Extension-to-Outside Line Call Duration Time
- [206] Outside-to-Outside Line Call Duration Time
- [502] Extension-to-Outside Line Call Duration Limit
- [503] Call Transfer to Outside Line
- [990] System Additional Information

Features Guide References

- Hold Recall

User Manual References

- 4.3.26 Call Transfer — to Outside Line

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Call Transfer, Unscreened — to Extension

Description

Allows the user to transfer an intercom or outside call directly to an extension party. After dialing the destination extension, the user replaces the handset while listening for the ringback tone.

Conditions

- If the destination party does not answer within the transfer recall time, the call will return to the user or Operator 1. You can select either one by system programming.
- This function is possible when the destination is sending ringback or busy tone. If the destination is busy, Camp-On Transfer occurs.
- The ringing signal pattern follows the regular ringing pattern depending on the party being transferred: outside or extension call ringing.
- An outside call can be transferred directly to a Uniform Call Distribution (UCD) group so that an idle extension is automatically hunted by UCD. If all extensions in a UCD group are busy, the incoming outside call will be handled by the UCD Time Table.
- It is possible for any extension user to transfer a call to the modem for remote maintenance.
- If music on hold is enabled, music is sent to the caller while being transferred. It is system-programmable whether to send ringback tone or music on hold to the caller by program "[990] System Additional Information, Area 01 - Bit 1".
- The destination extension must have a CO button which is common to the outside line in use by the transferring party.

Programming Guide References

- [201] Transfer Recall Time
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.25 Call Transfer — to Extension

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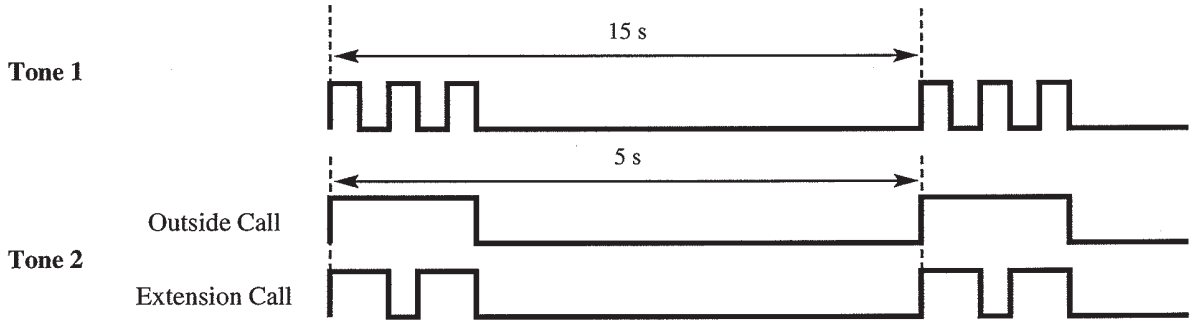
Call Waiting

Description

During a conversation, a call waiting tone informs the user of another incoming call that is waiting. He or she can answer the second call by disconnecting or placing the current call on hold. Call waiting tone can be activated or deactivated by dialing the appropriate feature number.

Conditions

- The call waiting tone is generated when an outside call (except a DISA (Direct Inward System Access)*1 call or doorphone call) is received, or when an extension caller executes Busy Station Signalling (BSS).
- Setting Data Line Security temporarily cancels Call Waiting which has been turned on by an extension user.
- For proprietary telephone users, two types of call waiting tone are provided to prevent them from missing the tone as shown below:
  A proprietary telephone user can select the desired type by Station Programming.



Programming Guide References

- [100] Flexible Numbering

Features Guide References

- Busy Station Signaling (BSS)

User Manual References

- 2.1.1 Station Programming Instructions
- 4.3.27 Call Waiting

*1 Available for the KX-TD1232 only.

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Call Waiting from Central Office

Description

During a conversation, a call waiting tone offered by your Central Office informs the user of another incoming call that is waiting. He or she can answer the second call by placing the current call on hold.

Conditions

None

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

- 4.3.28 Call Waiting from Central Office

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Caller ID

Description

Provides the display proprietary telephone and single line telephone users with caller information, such as his / her name and telephone number, on the outside line assigned to receive Caller ID service calls.

Conditions

- An optional Caller ID Card (KX-TD193) must be installed.
- For single line telephone users, an 8-Station Line Unit with SLT CID (KX-TD171) must be installed. This card adds eight extensions including either one of two extensions which enables the Caller ID feature for single line telephone users. Program "[133] Caller ID Extension Assignment" is required to determine the Caller ID enabling extensions. However, receiving or not receiving Caller ID information depends on the type of single line telephone you have.
- Up to 500 Caller ID entry numbers can be stored in a table called the "Caller ID Table" in the system. Each entry can consist of a caller's telephone number and name.
- If neither the telephone number nor the name is stored in the Caller ID Table, the number sent from Caller ID service is displayed.
- If the network provides a single message, the system searches for the name from the number in the Caller ID Table and displays both of them.
- The outside lines where a Caller ID service is offered by a Central Office must be assigned.
- A display digital proprietary telephone (KX-T7433, KX-T7436, KX-T7230 or KX-T7235) user can record call information received by Caller ID (Call Log, Incoming feature).
- An analog proprietary telephone will show either the name or the number. To alternate the display, press the ✳ key.
- If an outside line name is assigned or the DID (Direct Inward Dialing) lines are connected, the user can select the initial display, Caller ID, outside line name or DID extension name by Station Programming.
- A single line telephone, connected with a digital proprietary telephone by the XDP feature, can receive Caller ID information. But one connected in parallel with an analog or digital proprietary telephone cannot receive the information.
- Caller ID information is for outside calls only. Call information transferred by the Call Forwarding, IRNA, and Station Hunting features can be sent to the destination extension. Call information transferred by the Call Transfer, Screened - to Extension feature cannot be sent. However, when a call is transferred by the Call Transfer, Unscreened feature, the information can be sent to the destination extension.
- If an ID Code transmitted from an ISDN line is found in the Caller ID Code Table, the caller's ID Code is displayed on the called party's telephone. If an ID Code is assigned a name, the name is displayed with the ID Code.

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Connection References

- 2.4.4 8-Station Line Unit with SLT CID Connection
- 2.4.6 Installing Expansion Unit
- 2.4.8 Caller ID Card Installation

Programming Guide References

- [110] Caller ID Code Set
- [111] Caller ID Name Set
- [125] Area Code Assignment
- [126] Caller ID Modification for Local Call
- [127] Caller ID Modification for Long Distance Call
- [133] Caller ID Extension Assignment
- [406] Caller ID Assignment
- [417] Outside Line Name Assignment
- [990] System Additional Information

Features Guide References

- Calling Line Identification Presentation (CLIP)
- Call Log, Incoming

User Manual References

- 2.2.1 Initial Settings
- 4.5.3 Call Log, Incoming (KX-T7436 / KX-T7433 / KX-T7235 / KX-T7230 only)

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Calling Line Identification Presentation (CLIP)

Description

Allows the extension user to display the calling party's number on the LCD of the called party's telephone when receiving a call (CLIP). This feature is one of ISDN's services.

CLIP for BRI (when making an outside call through the BRI ISDN line)
Multiple Directory Number (MDN) will be sent to the other party. If the extension number is assigned in program [455-456] Extension Ringing Assignment —— Day / Night for ISDN, a corresponding MDN assigned in program [454] DN Assignment will be used. If not assigned in program [455-456], the MDN assigned in the youngest location of the corresponding port in program [454] will be used.

CLIP for PRI (when making an outside call through the PRI ISDN line)
When "Regular" is assigned in program [420] ISDN Ring Service Assignment, the number pre-assigned in [418] Outside Line Number Assignment for PRI CLIP is sent to the other party as the CLIP number. If "ISDN" is assigned in program [420], the number sent as the CLIP number is as follows:
CLIP number (16 digits max.) for each extension can be assigned in programs [622] Extension CLIP Number Assignment and [624] ISDN Extension CLIP Number Assignment, while a CLIP number (16 digits max.) for each outside line can be assigned in program [418].
The extension user can select to show an outside line number or an extension number as the CLIP number.

Conditions

- The CLIP service for outgoing outside calls can be restricted by System Programming (CLIR: Calling Line Identification Restriction).

Programming Guide References

- [100] Flexible Numbering
- [418] Outside Line Number Assignment for PRI CLIP
- [420] ISDN Ring Service Assignment
- [454] DN Assignment
- [622] Extension CLIP Number Assignment
- [624] ISDN Extension CLIP Number Assignment

Features Guide References

- Calling Line Identification Restriction (CLIR)

User Manual References

- 4.3.29 Calling Line Identification Presentation (CLIP)
- 4.3.30 Calling Line Identification Restriction (CLIR)

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Calling Line Identification Restriction (CLIR)

Description

Allows the extension user to restrict displaying the calling party's number to the called party when making a call. This feature is one of ISDN's services.

Conditions

- If disabled, the called party can check the calling party's number before the called party answers the call (CLIP: Calling Line Identification Presentation).
- Even if disabled, the extension user can restrict to send a CLIP number to the other party simply by dialing the feature number.

Programming Guide References

- [419] ISDN Outgoing CLIR Service Assignment
- [454] DN Assignment

Features Guide References

- Calling Line Identification Presentation (CLIP)

User Manual References

- 4.3.29 Calling Line Identification Presentation (CLIP)
- 4.3.30 Calling Line Identification Restriction (CLIR)

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Calling Party Control (CPC) Signal Detection

Description

The Calling Party Control (CPC) Signal is an on-hook indication (disconnect signal) sent from the outside line when the telephone is hung up at the other end. To maintain efficient utilization of outside lines, the system monitors their state and when CPC Signal is detected from a line, the system disconnects the line and alerts the extension with a reorder tone.

Conditions

- CPC Signal Detection is enabled or disabled on incoming and outgoing outside calls by System Programming.
- Generally CPC Signal Detection works on incoming outside calls, and does not work on outgoing outside calls (except once they are placed on Call Hold, Exclusive Call Hold, or Consultation Hold). In this case, if the extension user remains off-hook after the completion of an outgoing outside call, the system does not release all the switches used to establish the connection. The connected outside line will continue to be in use. To prevent this, it is programmable to make CPC Signal Detection work on outgoing outside calls. (Note: Some Central Offices may send CPC-like signals during the dialing sequence and an attempt to make a call may be terminated. If your CO does not send such signals, it is recommended to make CPC Signal Detection work on outgoing outside calls.)
- If your Central Office does not send CPC-like signals, it is effective to limit the dialed numbers during a call by the program [991] "COS Additional Information"; Class of Service to prevent unauthorized calls.
- If a CPC Signal is detected during a Conference call, the line is disconnected and the remaining two parties resume the call.
- If a CPC Signal is detected during a call between a caller using the Direct Inward System Access (DISA)*1 feature and an extension or an outside party, the line is disconnected.

Programming Guide References

- [405] CPC Signal Detection Incoming Set
- [415] CPC Signal Detection Outgoing Set
- [991] COS Additional Information

Features Guide References

None

User Manual References

Not applicable.

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Camp-On Transfer to Phantom Extension

Description

Allows the extension user to transfer an intercom or outside call directly to busy phantom extensions. After dialing the destination number, the user hangs up the handset after hearing the busy tone. The call is transferred when at least one extension becomes free.

Conditions

- If the destination party is busy during the transfer recall time, the call will return to the user or Operator 1. You can select either one by program "[990] System Additional Information, Area 02 - Bit 1".
- If music on hold is enabled, music is sent to the caller while being transferred. Sending ringback tone or music on hold is programmable by program "[990] System Additional Information, Area 01 - Bit 1".

Programming Guide References

- [201] Transfer Recall Time
- [990] System Additional Information

Features Guide References

None

User Manual References

- 4.3.31 Camp-On Transfer to Phantom Extension

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Class of Service (COS)

Description

COS is used to define the features which are allowed for a group of extensions. Each extension is assigned a COS number. Eight Classes of Service are available.

Conditions

- The programmable items are shown below:
  - **a)** Outgoing call restriction level (Day mode / Night mode) — 1 through 8
  - **b)** Restriction of outside call duration
  - **c)** Transfers a call to an outside party
  - **d)** Forwards a call to an outside party
  - **e)** Executive Busy Override
  - **f)** Executive Busy Override Deny
  - **g)** Overrides Do Not Disturb of the called extension
  - **h)** Account Code Entry operation — verified - all calls / verified - toll restriction override / option
  - **i)** Off-Hook Call Announcement (OHCA)
  - **j)** Accesses the Night Service
  - **k)** The number of permitted dialing digits during an outside call
  - **l)** Call Forwarding — Follow Me
- A Class of Service can be assigned to a DISA (Direct Inward System Access) user code*1.
- The extension user can use all of the COS functions of their own extension at another extension by entering a working COS password (Walking COS).

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Programming Guide References

- [017] DISA User Codes
- [500-501] Toll Restriction Level —— Day / Night
- [502] Extension-to-Outside Line Call Duration Limit
- [503] Call Transfer to Outside Line
- [504] Call Forwarding to Outside Line
- [505] Executive Busy Override
- [506] Executive Busy Override Deny
- [507] Do Not Disturb Override
- [508] Account Code Entry Mode
- [509] Off-Hook Call Announcement (OHCA)
- [510] Night Service Access
- [601] Class of Service
- [613] ISDN Class of Service
- [991] COS Additional Information

Features Guide References

- Walking COS

User Manual References

Not applicable.

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Conference

Description

The system supports three-party conference calls, including outside or inside parties. During a two-party conversation, the extension user can add a third party to their conversation, thereby establishing a conference.

Conditions

- Possible conference combinations are:1-inside and 2-outside; 2-inside and 1-outside; and 3-inside.
- Up to six conference calls are allowed simultaneously.
- A three-party call is also established by Executive Busy Override or Privacy Release.
- When a two-party call is changed to a three-party call or vice versa, a confirmation tone is sent to all three parties. Eliminating the tone is programmable.
- The third party must have a CO button which is common to the outside line used by the original parties.

Programming Guide References

- [005] Flexible CO Button Assignment
- [990] System Additional Information

Features Guide References

- Conference, Unattended

User Manual References

- 2.2.2 Flexible Button Assignment
- 4.3.32 Conference

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Conference, Unattended

Description

When a proprietary telephone user is in a conference with two outside parties, the user can leave the conference to allow the other two parties to continue conversation. This is called an Unattended Conference. The user may return to the conference, if desired.

Conditions

- An Unattended Conference can be established when the extension is allowed to transfer a call to an outside line.
- The duration of an unattended conference is restricted by a system timer. Hold Recall results to the extension user who left the conference 50 seconds before the time-out. An alarm tone is generated to both outside parties 15 seconds before the time-out. The call is disconnected at the time-out unless the extension returns to the call.

Programming Guide References

- [206] Outside-to-Outside Line Call Duration Time
- [502] Extension-to-Outside Line Call Duration Limit
- [503] Call Transfer to Outside Line

Features Guide References

- Conference
- Hold Recall
- Limited Call Duration

User Manual References

- 4.3.33 Conference, Unattended [PT only]

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Confirmation Tone

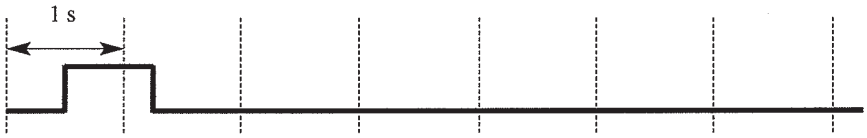
Description

At the end of many different functions the system confirms the success of the operation by sending a confirmation tone to the extension user through the speaker of the telephone.

Confirmation tone 1:

a) Indicates that the new setting differs from the previous setting.

b) Set or cancel the Electronic Station Lockout.

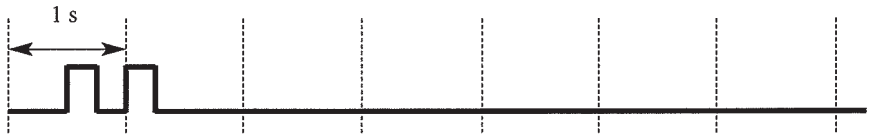


Confirmation tone 2:

a) Indicates that the new setting is identical to the previous setting.

b) In addition, sent when various features are successfully performed or accessed. (e.g., Call Hold; Automatic Callback Busy)

c) Sent when accessing external paging equipment. (e.g., Paging — All; Paging — External) Confirmation tone from external pagers can be enabled or disabled.



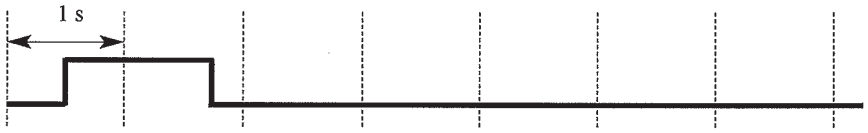
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Confirmation tone 3:

Sent when a conversation is established just after dialing.
For example, when accessing the following features by the feature numbers:

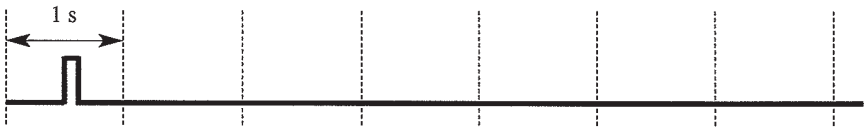
- Call Park Retrieve
- Call Pickup
- Hold Retrieve
- Paging / Paging Answer
- Trunk (Outside Line) Answer From Any Station (TAFAS)

This tone can be eliminated by System Programming so that the user can start talking instantly.



Confirmation tone 4:

Sent when moving from a two-party call to a three-party call, and vice versa. (These are caused by Executive Busy Override, Conference, or Privacy Release.) It is possible to eliminate this tone by System Programming.



Conditions

Confirmation Tone 1 and 2 are provided to reconfirm the assigned feature.

Programming Guide References

- [805] External Pager Confirmation Tone
- [990] System Additional Information

Features Guide References

None

User Manual References

Not applicable.

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Consultation Hold

Description

Allows the extension user to place a call on hold temporarily to transfer it, make a Conference call, or perform Call Splitting. The held call can be retrieved from other extensions.

Conditions

- With a proprietary telephone, Consultation Hold is established by pressing TRANSFER or CONF button. With a single line telephone, it is established by pressing the hooks witch lightly.
- Doorphone calls and paging calls cannot be placed on Consultation Hold.
- A new incoming call will not arise at the extension which is keeping a call on Consultation Hold. The extension is regarded as busy.
- If a calling party is placed on hold, music is sent to the party, if available. (Music on Hold)
- If a call on hold is not retrieved in a specific period of time, Transfer Recall starts.
- If an outside call is placed on hold and not retrieved in 30 minutes, it is automatically disconnected.

Programming Guide References

- [201] Transfer Recall Time
- [990] System Additional Information

Features Guide References

- Call Splitting
- Call Transfer, Screened — to Extension
- Call Transfer, Screened — to Outside Line
- Call Transfer, Unscreened — to Extension
- Conference
- Conference, Unattended
- Music on Hold

User Manual References

Not applicable.

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Data Line Security

Description

Data Line Security is a function that can be set on individual extensions. Once set, communication between the extension and the other end is protected from signals such as Call Waiting, Hold Recall and Executive Busy Override. Data equipment or a facsimile may be connected to an extension jack so that the user can perform data communications. During communication, Data Line Security maintains secure data transmission against tones or interruptions from other extensions.

Conditions

- Assigning Data Line Security always offers conversation privacy unless Privacy Release is executed.
- If one extension in a conversation has set Data Line Security, it applies to both extensions.

Programming Guide References

- [100] Flexible Numbering

Features Guide References

None

User Manual References

- 4.3.35 Data Line Security

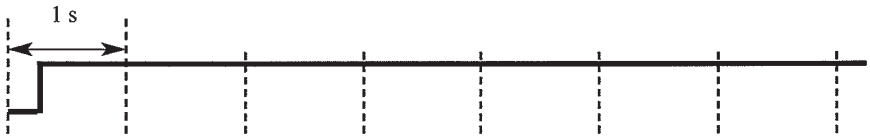
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Dial Tone, Distinctive

Description

Four types of dial tone patterns are available to give information about features activated on the telephone set.

Dial tone 1: Normal dial tone. None of the features listed below are activated.



Dial tone 2: Emitted when any one of the features below are set.
Absent Message Capability
Background Music (BGM) (for proprietary telephones only)
Call Forwarding
Call Pickup Deny
Call Waiting
Data Line Security
Do Not Disturb (DND)
Electronic Station Lockout
Executive Busy Override Deny
Pickup Dialing
Timed Reminder

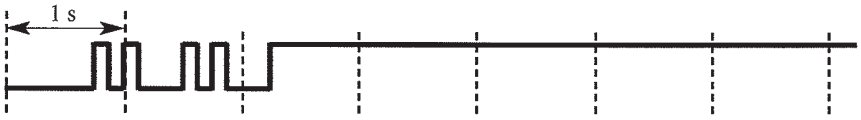


Dial tone 3: Emitted when performing Account Code Entry. Also sounds when answering Timed Reminder call.



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Dial tone 4: Emitted when messages are waiting for the extension.



Conditions

None

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

Not applicable.

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Dial Type Selection

Description

Allows you to select the desired dialing mode for each outside line regardless of originating call extension (rotary or tone).
There are three dialing modes available:

DTMF (Dual Tone Multi-Frequency) Mode
The dialing signal from an extension, either tone or rotary, is converted to tone dialing. DTMF signals are transmitted to the outside line.

Pulse Dial (Rotary) Mode
The dialing signal from an extension, either tone or rotary, is converted to rotary dialing. Rotary pulses are transmitted to the outside line.

Call Blocking Mode
Set this mode on outside lines that can receive both tone and rotary, but under contract with the Central Office for rotary only. When dialing to a line using a touch-tone telephone, only rotary is sent to the Central Office.

Conditions

- It is possible for the extension user to temporarily convert the pre-assigned rotary dialing mode to DTMF mode (Pulse to Tone Conversion). DTMF mode cannot be changed to rotary.
- Either DTMF or rotary dialing can be assigned for the DISA (Direct Inward System Access)*1 outgoing line. With DISA*1, Pulse to Tone Conversion is not possible.
- In case an outside line can receive both DTMF and pulse signals and is contracted for DTMF with a Central Office, DTMF mode should be selected for the line. If it is contracted for rotary mode, Call Blocking mode should be selected for the line.
- If a line is assigned Pulse Dial mode, select an appropriate pulse speed, pulse break ratio, and inter-digit pause for the line, if necessary. If a line is assigned DTMF, select an appropriate DTMF duration for the line, if necessary.
- After a held call is retrieved, the dial mode goes back to the one originally programmed on the outside line.

Programming Guide References

- [402] Dial Mode Selection
- [403] Pulse Speed Selection
- [404] DTMF Time
- [990] System Additional Information

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Features Guide References

- End-to-End DTMF Signaling (Tone Through)
- Pulse to Tone Conversion

User Manual References

Not applicable.

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Direct In Lines (DIL)

Description

Enables an incoming outside call to go directly to one or more answering points.
DIL 1:1 puts an incoming outside call to a single destination. Assignable destinations are: (1) extension; (2) modem; (3) external pager; (4) DISA (Direct Inward System Access) *1 message; (5) extension group; or (6) phantom extension. This outside line can be used by multiple extension users to make calls.
DIL 1:N puts an incoming outside call to multiple destinations. Assignable destinations are extensions only. This outside line can be used by multiple extension users to make and receive calls.
Both DIL 1:1 and 1:N can have different destinations for day and night modes (Night Service).

Conditions

- If an outside line is programmed for both DIL 1:1 and DIL 1:N, it is regarded as a DIL 1:1 line.
- DIL 1:1 to the modem*1 allows the caller to perform remote administration. DIL 1:1 to an external pager causes the pager to sound when receiving incoming calls (TAFAS: Trunk (Outside Line) Answer From Any Station feature). DIL 1:1 to DISA message allows an external caller to access the system directly (DISA feature)*1.

Programming Guide References

- [407-408] DIL 1:1 Extension —— Day / Night
- [603-604] DIL 1:N Extension and Delayed Ringing —— Day / Night

Features Guide References

None

User Manual References

Not applicable.

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Direct Inward Dialing (DID)

Description

Incoming calls can be put directly through to destinations according to the subscriber numbers sent from the Central Office. Assignable destinations are: (1) extension, (2) external pager (for TAFAS: Trunk (Outside Line) Answer From Any Station), (3) modem (for remote system administration), (4) extension group, and (5) phantom extension.
The examples below explain the procedures for DID programming.

[Programming Example]

1. A subscriber number received from the exchange is converted into an DID transferred number programmed in [433] "DID Subscriber Number Removed Digit" and [434] "DID Added Number".

   <Example>

   DID format settings
   Deleted Digit: 2
   Added Dial No.: 2

   Subscriber number received from the exchange: 43112

   <Explanation>

   1) 2 digits are deleted, "43", making the number 112.
   2) The number "2" is added, making the final number 2112 which serves as the extension number. Note that digits are inserted at the beginning of the number.

2. The DID number programmed in Programming Example 1, can be converted using the Transfer Table. Program [135] "DID Number Conversion Selection" is used to enable or disable to use the Transfer Table (default: use the Transfer Table).

<Example>

Location Number	[136] DID Number	[137] DID Extension (Day)	[138] DID Extension (Night)	[139] DID Extension Name
001	2111	101	101	Tom Smith
002	2112	102	101	Bob James
003	2 * 03	103	101	Mike White
:	:	:	:	:
200	22 * 0	192	101	John P.

<Explanation>

If the DID transferred number matches the DID number assigned in program [136] DID Number Assignment, the call is received at the DID extension assigned in program [137-138] DID Extension —— Day / Night. The name for the DID extension can be given in program [139] DID Extension Name Set.

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The wild character "✳" can be entered in a DID number.
The DID extension name is displayed as follows.

```
DID:Tom Smith
```

Conditions

- An optional 4-DID Line Unit (KX-TD185) must be installed for this feature.
- If the destination is in the Do Not Disturb mode, or has disabled the Call Waiting mode and is busy, the following may occur:
  1) The call is sent to the IRNA destination.
  2) The call is received at the corresponding CO button which only flashes. (Default)
  3) The system sends a busy tone.
  To select how the call is treated, refer to program "[990] System Additional Information, Area 07 - Bit 11, 10".
- To prohibit outgoing calls from a DID line, program [605-606] Outgoing Permitted Outside Line Assignment —— Day / Night or [614-615] Outgoing Permitted Outside Line Assignment —— Day / Night for ISDN Extension is necessary to determine which outside lines cannot be accessed by an extension.

Connection References

- 2.4.5 4-DID Line Unit Connection
- 2.4.6 Installing Expansion Unit

Programming Guide References

- [109] Expansion Unit Type
- [135] DID Number Conversion Selection
- [136] DID Number Assignment
- [137-138] DID Extension —— Day / Night
- [139] DID Extension Name Set
- [401] Outside Line Group Assignment
- [430] DID / TIE Format Number Assignment
- [431] DID / TIE Incoming Assignment
- [432] DID / TIE Outgoing Assignment
- [433] DID / TIE Subscriber Number Removed Digit
- [434] DID / TIE Added Number
- [435] DID / TIE Wink Time Out Assignment
- [605-606] Outgoing Permitted Outside Line Assignment —— Day / Night
- [990] System Additional Information

Features Guide References

None

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User Manual References

- 2.1.1 Station Programming Instructions

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Direct Inward System Access (DISA)*1

Description

Allows an outside caller to access specific system features as if the caller is an extension in the system. The caller can have direct access to features such as:

- Placing an intercom call to an extension, operator, modem (for remote system administration) or external pager (for TAFAS: Trunk (Outside Line) Answer From Any Station).
  You also have the option of dialing route for an extension using an one digit number (DISA built-in auto attendant number) via DISA calls.
- Calling an external party.

It is necessary to select either Non Security, Outside Line Security or All Security mode to have direct access to these features. In Non Security mode, any caller may make outside or intercom calls. In Outside Line Security mode, it is necessary to enter a pre-assigned DISA user code to make outside calls. In All Security mode, it is necessary to enter a pre-assigned DISA user code to make both outside and intercom calls. This prevents the caller from making unauthorized calls. However, when making an outside call by Call Forwarding — to Outside Line, the call is permitted (exception). An Outgoing Message can be programmed for the DISA feature. When a caller reaches the DISA line, a pre-recorded message will greet the caller. Two different DISA messages may be recorded by the operator or manager. Thus, one message may be used in day mode and the other in night mode, or they can be used for different outside lines.

Note

Warning for the Direct Inward System Access Users

When you enable the Outside – Outside Line Call feature of **Direct Inward System Access (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 call using your telephone line, and the cost may be charged to your account.

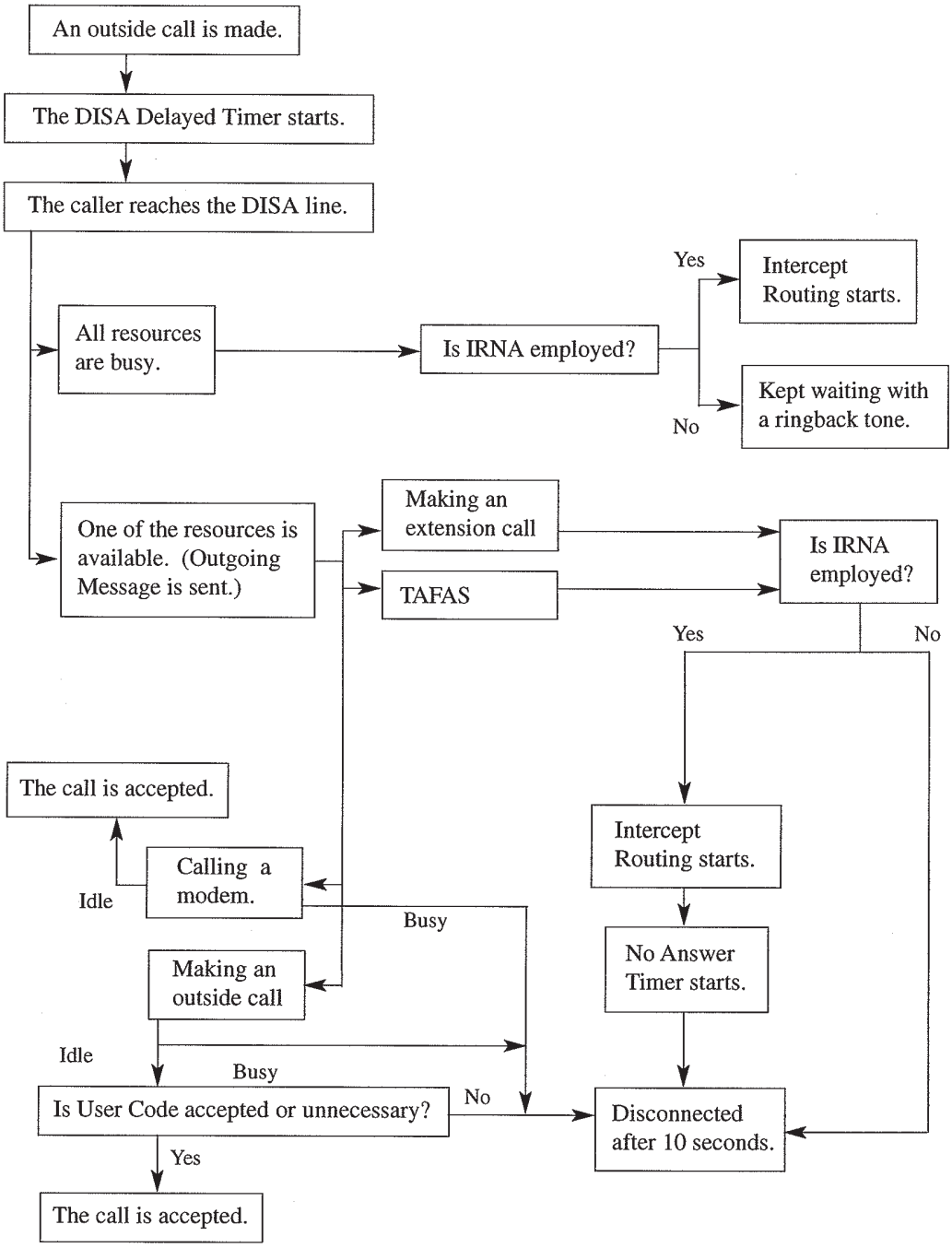
In order to avoid this problem, we strongly recommend the following points:

1. Carefully maintain the secrecy of the password.
2. Specify a complicated password as long and random as you can make it.
3. Change the password frequently.

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Flow chart of possible cases and results for DISA calls



Conditions

- The following items are required for the DISA feature:
  a) An optional DISA Card must be installed.

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b) The Floating Station number of the DISA message should be assigned as the Direct In Lines (DIL) 1:1 destination. This assigns the DISA line and the message accessed by external callers.

c) The DISA message(s) should be recorded by the operator or manager.

- A DISA call is answered after a ringback tone is returned to the caller after the DISA Delayed Answer Time expires. The caller can dial during the message.
- The floating number of a DISA message may be selected as the destination of Intercept Routing.
- This system can store up to ten programmable DISA built-in auto attendant numbers. After listening to the DISA message, the caller can dial a single digit.
- The DISA built-in auto attendant number may be the same as the first digit of other numbers (extension number, floating number, etc.). To avoid confusion, the system waits for the second digit for a preprogrammed amount of time (default: 1 second). If the timer runs out of time, the system assumes that the first digit is a DISA built-in auto attendant number.
- Only one DISA card can be installed per system. During System Connection, the DISA card is effective only for an outside line used in the same system.
- The DISA line can be used to originate outside calls if a security code (if required) has been dialed.
- This system can store up to 32 programmable DISA user codes. Each code should be unique. It is possible to assign a Class of Service number to each code. The Class of Service of the code defines the Toll Restriction level.
- The duration of outside-to-outside line calls is limited. When the specified time expires, both lines are disconnected unless the caller re-tries or extends the time, if available. A warning tone is sent to both parties 15 seconds before the time-limit at five-second intervals.
- Extending the call duration can be enabled from one to seven minutes or disabled. The caller can do this several times.
- To detect the end of an outside-to-outside line call, CPC Signal Detection and Tone Detection can be assigned.
- When you dial the wrong DISA user code 3 times, your call will be disconnected.
- The DISA re-try function (pressing "✳") can be disabled when the program "[990] System Additional Information, Area 05 - Bit 3" is set to 0. By default, the function is enabled.
- If the destination is in the Do Not Disturb mode, or has disabled the Call Waiting mode and is busy, the following may occur:
  1) The call is sent to the IRNA destination.
  2) The call is received at the corresponding CO button which only flashes. (Default)
  3) The system sends a busy tone.
  To select how the call is treated, refer to program "[990] System Additional Information, Area 07 - Bit 9, 8".

Connection References

- 2.4.7 DISA Card and Remote Card / Unit Installation

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Programming Guide References

- [017] DISA User Codes
- [100] Flexible Numbering
- [203] Intercept Time
- [206] Outside-to-Outside Line Call Duration Time
- [213] DISA Delayed Answer Time
- [214] DISA Prolong Time
- [215] Outgoing Message Time
- [218] DISA AA Wait Time
- [405] CPC Signal Detection Incoming Set
- [407-408] DIL 1:1 Extension —— Day / Night
- [409-410] Intercept Extension —— Day / Night
- [415] CPC Signal Detection Outgoing Set
- [809] DISA Security Type
- [810] DISA Tone Detection
- [812] DISA DTMF Repeat
- [815] DISA Built-in Auto Attendant
- [990] System Additional Information

Features Guide References

- Intercept Routing
- Outgoing Message (OGM)

User Manual References

- 4.3.36 Direct Inward System Access (DISA)

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Display Contrast Adjustment

Description

Allows the display proprietary telephone user to adjust the display contrast.

Conditions

The adjusting method depends on the type of proprietary telephone (PT) you have.

- With a KX-T7400 series digital PT, the MODE or Soft buttons and the Jog Dial are used to sharpen the contrast to one of three levels.
- With a KX-T7200 series digital PT, the Soft buttons and the Volume button are used to sharpen the contrast to one of three levels.
- With an analog PT, a sliding lever on the telephone (CONTRAST selector) is used to select one of three available levels.

Programming Guide References

No programming required.

Features Guide References

None

User Manual References

- 1.1.5 Initial Setting for KX-T7400 Series
- 1.1.6 Initial Setting for KX-T7200 Series

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