

Section 3
Features

Absent Message Capability

Allows an extension user to set a message which will be displayed at the calling extension to show the reason for the called extension's absence. One of 6 messages can be programmed as desired, which are available for any telephone (single line telephone or proprietary telephone). Setting or cancelling a message can be done by individual extension users but only callers using a proprietary telephone with a LCD can see the message.



- The 6 messages are shown below. “%” means a parameter to be entered when assigning a message at an extension.
 - (1) Will Return Soon
 - (2) Gone Home
 - (3) At Ext %%% (extension number)
 - (4) Back at %% : %% AM (or PM) (hour : minute)
 - (5) Out Until %%/%% (day / month)
 - (6) In a Meeting
- An extension user can only select one message at a time. The selected message is displayed every time the user goes off-hook.



- **Operating Instructions Reference**
 - 1.6 Before Leaving Your Desk, “Showing Your Message on the Calling Party’s Display (Absent Message Capability)”

Account Code Entry

An account code is used to identify incoming and outgoing outside calls for accounting and billing purposes. The account code is appended to the SMDR call record. For incoming outside calls, an account code is optional. For outgoing outside calls, there are 4 account input modes programmable in program [605], Option, Forced, Verify–All and Verify–Toll.

- Option:** A 4-digit code may be entered during a conversation or within 30 seconds after a conversation when a record is needed.
- Forced:** A 4-digit code must be entered within 5 seconds after an exchange line is seized. The code can be any number.
- Verify–All:** Enables to make an outside call if the code entered within 5 seconds after an extension user seizes an exchange line is the same as one of the account codes programmed in [310].
- Verify–Toll:** Enables to override call barring temporarily by entering one of the account codes programmed in [310] within 5 seconds after an exchange line is seized. Calls with COS numbers 3 through 5 will be treated as calls with COS number 2. Calls with COS numbers 1 and 2 will not be affected.



- **Required System Programming**

- [\[310\] Account Codes](#)
- [\[601\]-\[603\] Call Barring – Class of Service Assignment —Day/Night/Lunch](#)
- [\[605\] Account Code Entry Mode](#)
- [\[805\] SMDR Account Code Selection](#)

- **Related Feature References**

- Station Message Detail Recording (SMDR),
- Call Barring Override by Account Codes

- **Operating Instructions Reference**

- 1.7 Useful Features, “Calling with Account Codes (Account Code Entry)”

Alternate Calling – Ring/Voice

This system offers a proprietary telephone user 2 types of intercom calling, Voice Call mode and Tone (ring) Call mode. “Voice Call” informs the called party of an incoming call with the calling party’s voice, while “Tone Call” uses a ring tone. A proprietary telephone user can select “Voice Call” or “Tone Call” in the Proprietary Telephone Settings. If the user selects “Voice Call”, the calling party can talk to the user immediately after the confirmation tone. The calling party can switch the pre-set mode at the called extension, from “Voice Call” to “Tone Call” or vice versa, by pressing “*” after dialling the extension number.



- A rotary telephone user cannot change the pre-set mode at the called extension.



- **Operating Instructions References**

- 1.2 Proprietary Telephone Settings, “Customising Your Telephone Functions”, Intercom Alert Assignment
- 1.7 Useful Features, “Alternate Calling – Ring/Voice”

Automatic Callback Busy (Camp-On)

When the selected exchange line or dialed extension is busy, the system will automatically notify an extension user with a callback ringing when the line becomes available. When the user answers the callback ringing:

For an extension: The called extension starts ringing without dialling.

For an exchange line: The line is seized.



- **Operating Instructions Reference**

- 1.3 Making Calls, “Making Your Telephone Ring Back Automatically When a Line Becomes Free (Automatic Callback Busy – Camp-On)”

Automatic Exchange Line Access Number

An Automatic Line Access number (0 or 9) can be programmed. When an extension user dials an Automatic Line Access number before a telephone number, an available exchange line from the assigned lines in program [419] is seized automatically. If “0” is selected in program [121], the operator call will be “9” automatically. If “9” is selected in program [121], the operator call will be “0” automatically.



- **Related Feature References**

- Operator Call, Outside Calling

- **Required System Programming**

- [\[121\] Automatic Exchange Line Access Number Selection](#)

- [\[419\] Automatic Designated Exchange Line Access](#)

Automatic Route Selection (ARS)

The system automatically selects the least expensive route available at the time a long distance call is made on the exchange line enabled for ARS feature. It is not necessary to dial the access code of the least expensive carrier.

1. Normal Use

To make a call via the least expensive carrier, the dialled number is modified. The following are modification examples.

Example 1 (Long distance call using Route 1):

[350] "ARS Selection": Enable
 [351] "Route 1 Selection Codes (Leading Digit)": 0
 [355] "Route 1 Exception Codes": 07
 [360] "ARS Modification – Removed Digits": 0 (No deletion)
 [361] "ARS Modification – Added Number": 131 (Code of least expensive carrier for a long distance call)
 [381] "Route 1 Authorisation Code": 0123456789
 [385] "Route 1 Itemised Bill": Enable
 [389] "Itemised Bill Code Assignment": 201

<Dialled number>	→	<Modified number>
01633 877 467	→	131 0123456789 201 01633 877 467

Example 2 (International call using Route 2):

[350] "ARS Selection": Enable
 [352] "Route 2 Selection Codes (Leading Digit)": 00
 [360] "ARS Modification – Removed Digits": 0
 [361] "ARS Modification – Added Number": 1620 (Code of least expensive carrier for an international call)
 [386] "Route 2 Itemised Bill": Enable
 [389] "Itemised Bill Code Assignment": 201

<Dialled number>	→	<Modified number>
00 44 1344 853941	→	1620 201 00 44 1344 853941

Example 3 (Long distance call via the first carrier):

[350] "ARS Selection": Enable
 [359] "1st Carrier Selection Code": 121

<Dialled number>	→	<Modified number>
121 01633 877 467	→	01633 877 467

2. Special Use

If an extension user always uses the Automatic Line Access number (9 or 0) when making an outside call and wants to seize the specified trunk group as below automatically, refer to the following program assignment.

<Example>

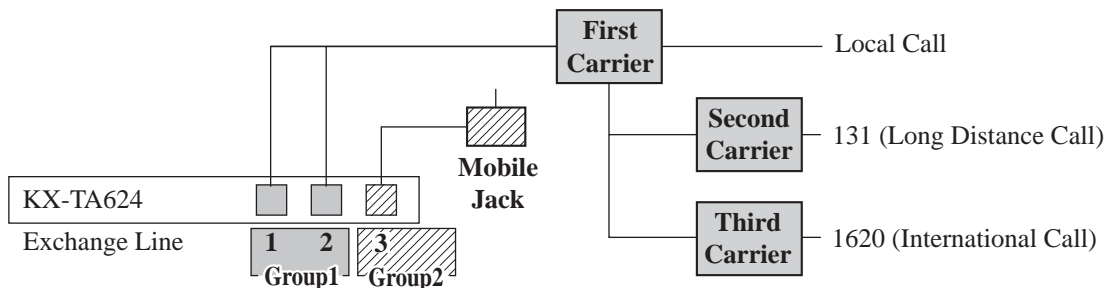
- Trunk group which connects with the least expensive carrier for a long distance call (Long distance calls start with “0”. Carrier code = 131)
- Trunk group which connects with the least expensive carrier for an international call (International calls start with “00”. Carrier code = 1620)
- Trunk group connected to a mobile telephone (No modification of the dialed number is necessary.)

To specify how to modify the dialed number, and specify a trunk group for each route

Program Address Route No.	[351] [354]	[355] [358]	[360]	[361]	[364]
Route 1	0	07	0 digit	131	trunk group number 1
Route 2	00		0 digits	1620	trunk group number 1
Route 3	079		0 digit		trunk group number 2

To specify exchange lines in the trunk groups

Program Address Exchange Line No.	[404] Trunk Group Assignment	[350]	[419] Automatic Designated Exchange Line Access
1	trunk group number 1	Enable	Enable
2	trunk group number 1	Enable	Enable
3	trunk group number 2	Enable	Disable



Example 5 [Long distance call using Route 1 (trunk group number 1)]:

<Dialled number>		<Modified number>
9 01633 877 467	—————>	131 01633 877 467

Example 6 [International call using Route 2 (trunk group number 1)]:

<Dialled number>		<Modified number>
9 00 44 1344 853941	—————>	1620 201 00 44 1344 853941

Example 7 [Mobile telephone call using Route 3 (trunk group number 2)]:

<Dialled number>		<Modified number>
9 07979 123456	—————>	07979 123456

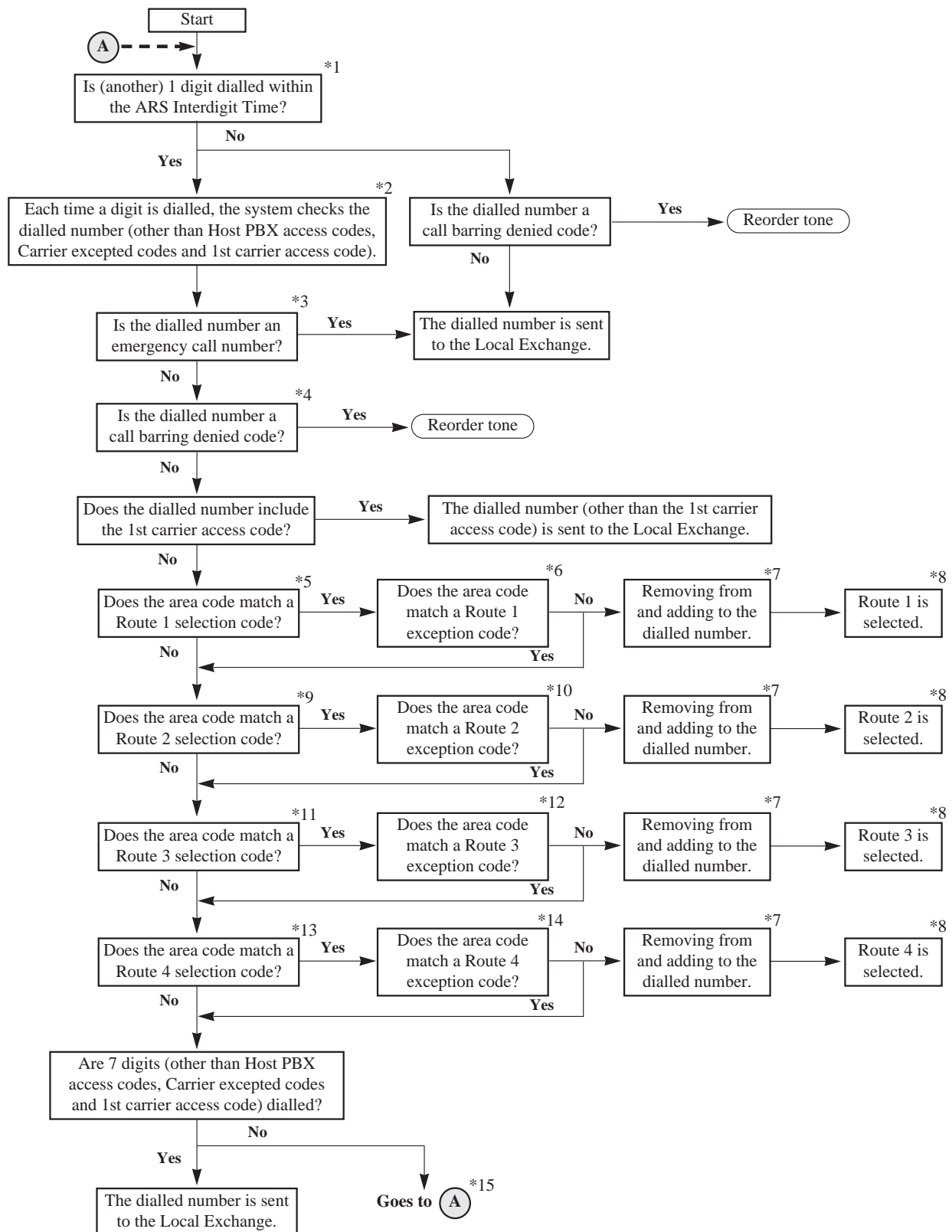
- System Programming is required to execute this feature.
- If an extension user makes an outside call using the Automatic Line Access number (9 or 0) and the dialled number does not apply to any numbers assigned in programs [351]–[354], an exchange line which has selected “Enable” in program [419] “Automatic Designated Exchange Line Access” is automatically seized.



- **Required System Programming**

- [350] ARS Selection
- [351]-[354] Routes 1 through 4 Selection Codes (Leading Digits)
- [355]-[358] Routes 1 through 4 Exception Codes
- [359] 1st Carrier Selection Code (BT Line Access Code)
- [360] ARS Modification – Removed Digits
- [361] ARS Modification – Added Number
- [362] ARS Dial Tone Pattern Selection
- [363] ARS Interdigit Time
- [364] ARS Trunk Group
- [381]-[384] Routes 1 through 4 Authorisation Codes
- [385]-[388] Routes 1 through 4 Itemised Bill
- [389] Itemised Bill Code Assignment

Flow chart of possible cases and results for ARS calls



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- *1: The ARS Interdigit timer is assigned in program [363] “ARS Interdigit Time”.
 - *2: The codes are assigned in the following programs.
 - Host PBX access codes: [403] “Host PBX Access Codes”
 - Carrier excepted codes: [300] “Carrier Excepted Code Assignment”
 - 1st carrier access code: [359] “1st Carrier Selection Code”.
 - *3: Emergency call numbers are assigned in program [309] “Emergency Dial Number Set”.
 - *4: Call Barring denied codes are assigned in program [302]-[305] “Call Barring – Classes 2 through 5 Denied Codes”.
 - *5: Route 1 selection codes are assigned in program [351] “Route 1 Selection Codes (Leading Digits)”.
 - *6: Route 1 exception codes are assigned in program [355] “Route 1 Exception Codes”.
 - *7: Removing digits are assigned in program [360] “ARS Modification – Removed Digits” and added numbers are in [361] “ARS Modification – Added Number”
 - *8: The trunk group(s) assigned in program [364] is (are) automatically seized when making a call using the Automatic Exchange Line Access number (0 or 9).
 - *9: Route 2 selection codes are assigned in program [352] “Route 2 Selection Codes (Leading Digits)”.
 - *10: Route 2 exception codes are assigned in program [356] “Route 2 Exception Codes”.
 - *11: Route 3 selection codes are assigned in program [353] “Route 3 Selection Codes (Leading Digits)”.
 - *12: Route 3 exception codes are assigned in program [357] “Route 3 Exception Codes”.
 - *13: Route 4 selection codes are assigned in program [354] “Route 4 Selection Codes (Leading Digits)”.
 - *14: Route 4 exception codes are assigned in program [358] “Route 4 Exception Codes”.
 - *15: The system repeats checking until 7 digits are dialed.

Busy Extension Signalling

When an extension user calls a busy extension, the busy extension will hear a Call Waiting tone to know that a call is waiting.



- This feature is only available if the called extension has set the Call Waiting feature. If the Call Waiting feature is activated, the caller will hear a ringback tone. If not, the caller will hear a reorder tone.

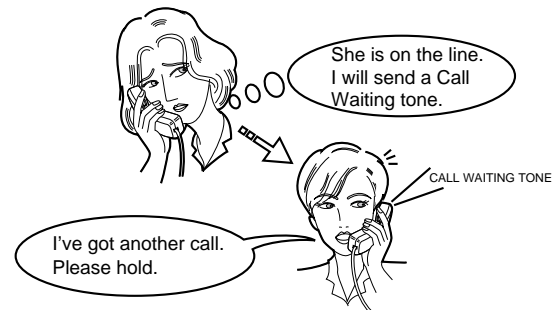


- **Related Feature Reference**

Call Waiting

- **Operating Instructions Reference**

1.3 Making Calls, “Sending a Call Waiting Tone to a Busy Extension (Busy Extension Signalling)”



Call Barring

Call Barring is a system programmable feature that can prohibit certain extension users from making unauthorised toll calls.

Every extension is programmed to belong to one of 5 classes of service (COS). Each COS is programmed to have a call barring class for day mode, night mode and lunch mode.

There are 5 call barring COS numbers available. Call barring COS number 1 is the highest class and the COS number 5 is the lowest. That is, COS number 1 allows all toll calls. COS numbers 2 through 5 are used to restrict calls by combining pre-programmed deny and exception codes shown in the table on the next page.

Denied Codes

An outgoing outside call made by an extension with a call barring COS number between 2 and 5 is first checked against the assigned denied codes in program [302]-[305].

If the first digits of the dialled number (not including the line access code) are not found in the class, the call can be made. Each class can store up to 20 denied codes, each consisting of 11 digits.

Exception Codes

These codes are used to override a programmed denied code. A call denied by the denied codes is checked against the selected exception codes assigned in program [306]. If a match is found, the call can be made.

Up to 80 exception codes, each consisting of 11 digits, can be stored. The available number of codes depends on the COS number.



- Emergency numbers, such as the police or fire station, should be stored in program [309] “Emergency Dial Number Set” so that they are exempt from call barring.
- If a stored Host PBX access code in program [403] “Host PBX Access Codes” or a stored carrier code in program [300] “Carrier Excepted Code Assignment” is found in the dialled number, the subsequent telephone numbers will be checked for call barring.
- The interdigit timer assigned in program [208] “Interdigit Time” applies until the call barring check is completed. When the timer expires, an outside outgoing call will be disconnected while dialling, if “Enable” was selected in program [211] “No Dial Disconnection”.
- The call barring class for a locked extension can be assigned in program [312] “Call Barring – Extension Lock Boundary Class” so that even a locked extension can make a local call, etc.
- It is programmable whether the “*” or “#” the user dials is to be checked or not on the Call Barring code in program [125] “Call Barring Check for * and #”. This is useful to prevent unauthorised calls which could be possible through certain Local Exchange systems.



Required System Programming

- [\[301\] Call Barring – System Speed Dialling Boundary Class](#)
- [\[302\]-\[305\] Call Barring – Classes 2 through 5 Denied Codes](#)
- [\[306\] Call Barring – Exception Codes](#)
- [\[601\]-\[603\] Call Barring – Class of Service Assignment – Day/Night/Lunch](#)

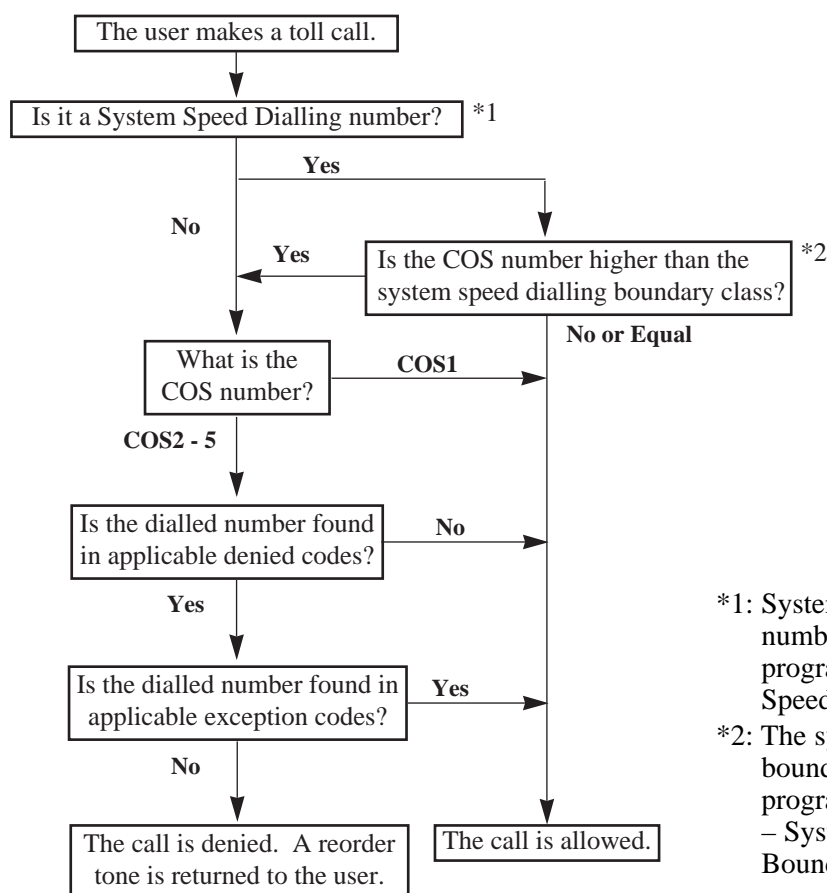
Related Feature References

- Emergency Call
- Call Barring – Extension Lock Boundary Class
- Call Barring for System Speed Dialling
- Call Barring Override by Account Codes

Combination of denied codes and exception codes

COS No.	Denied Calls	Excepted Calls
1	No restriction.	No restriction.
2	20 denied codes programmed in [302].	80 exception codes (code numbers 01-80) programmed in [306].
3	20 denied codes programmed in [302] plus 20 denied codes programmed in [303].	60 exception codes (code numbers 01-60) programmed in [306].
4	20 denied codes programmed in [302] plus 20 denied codes programmed in [303] plus 20 denied codes programmed in [304].	40 exception codes (code numbers 01-40) programmed in [306].
5	20 denied codes programmed in [302] plus 20 denied codes programmed in [303] plus 20 denied codes programmed in [304] plus 20 denied codes programmed in [305].	20 exception codes (code numbers 01-20) programmed in [306].

Flow chart of Call Barring



*1: System Speed Dialling numbers are assigned in program [001] "System Speed Dialling Entry".

*2: The system speed dialling boundary class is assigned in program [301] "Call Barring - System Speed Dialling Boundary Class".

Call Barring — Extension Lock Boundary Class

Allows assigning a call barring class for extensions where the Electronic Extension Lockout or Remote Extension Lock feature has been set.

An extension user usually cannot make an outside call at a locked extension, however if a call barring class is assigned in program [312], the user can make an outside call at the locked extension.



- The higher call barring class number will take precedence.
For example, if call barring COS number 3 is assigned to an extension and the extension lock boundary class is 4, the extension user is allowed to make a call with call barring COS number 4.



- **Required System Program Address**
[\[312\] Call Barring – Extension Lock Boundary Class](#)
- **Related Feature References**
Extension Lock, Call Barring

Call Barring for System Speed Dialling

Calls originated by System Speed Dialling are restricted depending on the combination of the System Speed Dialling Boundary Class assigned in program [301] and the class of service (COS) assigned to each extension as follows.

System Speed Dialling Boundary Class COS No.	1	2	3	4	5
1	A	A	A	A	A
2	C	A	A	A	A
3	C	C	A	A	A
4	C	C	C	A	A
5	C	C	C	C	A

A: allowed C: checked

<Example>

—If the boundary is set to COS number 2,
The system will allow system speed dialling for COS numbers 1 and 2, but check COS numbers 3, 4 and 5 according to call barring.



- **Required System Programming**
[\[301\] Call Barring – System Speed Dialling Boundary Class](#)
- **Related Feature Reference**
Call Barring

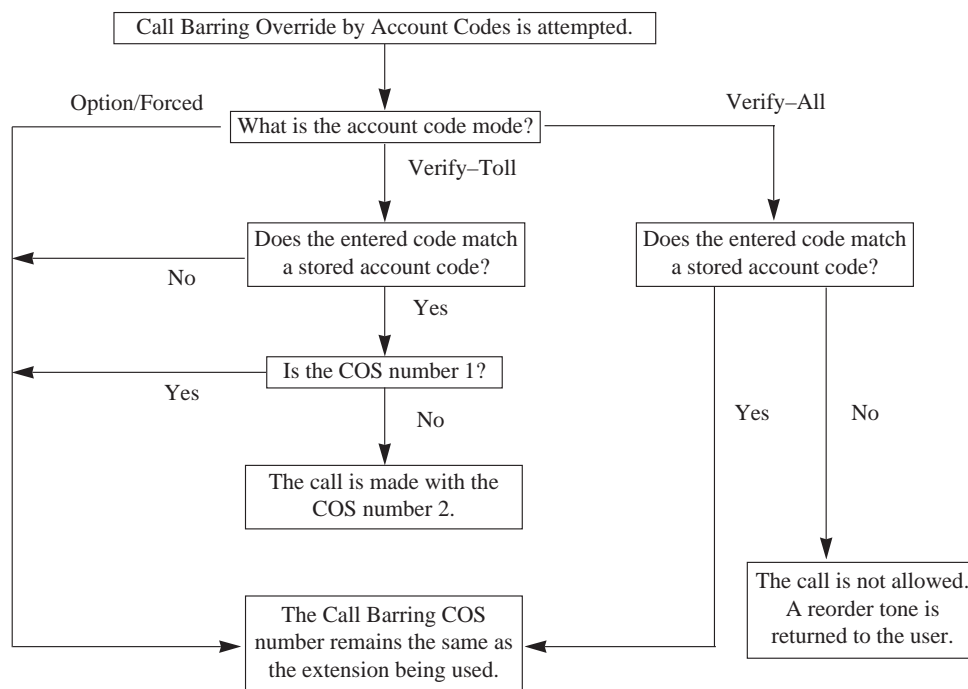
Call Barring Override by Account Codes

Allows an extension user to override call barring temporarily to make a toll call from a toll-restricted extension. The user can carry out this feature by entering one of the account codes programmed in [310] “Account Codes” before dialling the telephone number. The user can make a toll call with the COS number 2.



- The account code “Verify-toll (call barring)” mode at an extension permits users to override their call barrings.
- This feature can be used on extensions assigned to call barring COS numbers 3 through 5. The COS numbers 1 and 2 will not be changed.
- If the user does not enter an account code or enters an invalid one, a regular call barring check is done.
- When a user makes a call using this feature, it will appear on the SMDR printout with either the entered 4-digit account code or the 2-digit index of the entered account code. This selection is set in program [805].
- Users can also override call barring of another extension by using the Walking COS feature.

Flow chart of Call Barring Override



• Required System Programming

- [\[310\] Account Codes](#)
- [\[605\] Account Code Entry Mode](#)
- [\[805\] SMDR Account Codes Selection](#)

• Related Feature References

Account Code Entry, Call Barring, Station Message Detail Recording (SMDR), Walking COS

Call Forwarding

Allows an extension user to transfer incoming calls automatically to another extension or to an external destination. The following types are available.

- All Calls:** All incoming calls are forwarded to another extension.
- Busy or No Answer:** All incoming calls are forwarded to another extension when the extension user does not answer within the programmed time in [202] or when the extension is busy.
- To an Exchange Line:** Allows an extension user enabled in program [607] to forward all incoming intercom calls to an external party.
- Follow Me:** Allows an extension user to set the Call Forwarding – All Calls feature from another extension.



- Extensions which have already been assigned as a forwarded destination cannot set the Call Forwarding feature.
- If the Do Not Disturb (DND) feature has already been set, setting the Call Forwarding feature will cancel DND.
- When using the call forward to an exchange line feature the quality of service may be adversely affected by the attenuation across the public telephone network.



- **Required System Programming**
 - [\[202\] Call Forwarding Start Time](#)
 - [\[607\] Call Forwarding to an Exchange Line](#)
- **Related Feature Reference**
 - Limited Call Duration
- **Operating Instructions References**
 - 1.2 Proprietary Telephone Settings, “Customising the Buttons on Your Telephone”, FWD/DND (Forward/Do Not Disturb) Button
 - 1.6 Before Leaving Your Desk, “Forwarding a Call (Call Forwarding)”

Calling Party Control (CPC) Signal Detection

The Calling Party Control (CPC) signal is a disconnect signal sent from the Local Exchange for an outside call. The CPC signal detection is activated by programs [420] and [421]. Program [420] is for incoming outside calls, and [421] is for outgoing outside calls.



- **Required System Programming**
 - [\[420\] Calling Party Control \(CPC\) Signal](#)
 - [\[421\] CPC Detection for Outgoing Calls](#)

Call Park

Allows an extension user to place a held call into a system parking area. Any extension user can retrieve the parked call to perform other operations. Up to 10 calls can be parked at the same time.



- If a parked call is not retrieved within the assigned time in program [200], a ring tone or an alarm tone will be heard.
- If a parked call is not retrieved within 30 minutes, it will be automatically disconnected.
- This feature is useful when an extension user wants to hold more than one intercom call with a proprietary telephone, or more than one intercom call or outside call with a single line telephone.
- During a 5-party conference, this feature cannot be performed.



- **Required System Programming**

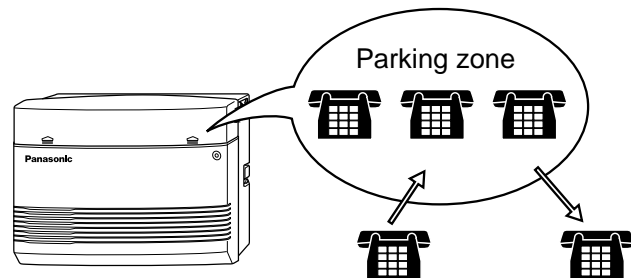
[200] Hold Recall Time

- **Related Feature Reference**

Conference (5-party)

- **Operating Instructions Reference**

1.5 During Conversation, “Placing a Call in System Parking Area (Call Park)”



Call Pickup

<Directed Call Pickup>

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

<Group Call Pickup>

Allows an extension user to answer a call ringing at another extension, if the call is ringing within the user's extension group assigned in program [600]. If "Enable" is selected for an extension group in [127], persons in the group can pickup calls just by going off-hook, even though their extension is not ringing.

<Call Pickup Deny>

Allows an extension user to prevent other extensions from picking up a call ringing at the user's extension with the Call Pickup feature.

<Call Retrieving from a TAM (Telephone Answering Machine)>

Allows an extension user to answer an incoming call received by a TAM extension assigned in program [611].



- The user can pick up an incoming outside, intercom or doorphone call with the Directed Call Pickup or Group Call Pickup feature.
- A confirmation tone is sent to the user when the call is picked up with the Directed Call Pickup or Group Call Pickup feature. The tone can be disabled in program [117].
- If a ringing extension sets the Call Pickup Deny feature, an extension user will hear a reorder tone when the user tries to pick up the call.



• Required System Programming

- [117] Call Pickup Tone
- [127] Pickup Group Set
- [600] Extension Group Assignment
- [611] TAM (Telephone Answering Machine) Extension

• Operating Instructions Reference

- 1.4 Receiving Calls, "Picking up a Call Ringing at Another Extension (Call Pickup)"



Call Splitting

Allows an extension user to talk to 2 different parties. If a call is received while the user is already on the line, the user can place the current call on hold and have a conversation with the other party.



- This feature is not possible for a doorphone call, page or 5-party conference.



• Related Feature References

Conference (5-party), Doorphone Call, Paging

• Operating Instructions Reference

- 1.5 During Conversation, "Call Splitting"

Call Transfer – to Exchange Line

Allows an extension user enabled in program [606] to transfer a received intercom call to an external party.



- A single line telephone user cannot transfer a received call to an external party.
- To join the conversation again after transferring the call, press the corresponding line key. A conference call will be established. This feature is not available for a single line telephone.



- **Required System Programming**
[\[606\] Call Transfer to an Exchange Line](#)
- **Related Feature Reference**
 Hold, Limited Call Duration
- **Operating Instructions Reference**
 1.5 During Conversation, “Transferring a Call to an Exchange Line (Call Transfer – to Exchange Line)”

Call Transfer – to Extension

Allows an extension user to transfer a received call, an intercom or an outside call, to another extension. Two types are available.

Screened Call Transfer: Announces the call to another extension before completing the transfer.

Unscreened Call Transfer: Immediately releases the call to another extension without an announcement.



- If the destination extension does not answer the call within the assigned time in program [201], the call will return to the transferring party.
- An outside call can be transferred to an extension by simply pressing a DSS button. It requires program [005].
- If Music on Hold is enabled, music is sent to the original external caller while being transferred. Sending a cyclic tone or music on hold can be programmed by program [111].
- During a 5-party conference, the user cannot transfer a call.



- **Required System Programming**
[\[005\] One-Touch Transfer Using a DSS Button](#)
[\[111\] Hold Music Selection](#)
[\[201\] Transfer Recall Time](#)
- **Related Feature References**
 Conference (5-party), Hold, Music on Hold
- **Operating Instructions Reference**
 1.5 During Conversation, “Transferring a Call to an Extension (Call Transfer – to Extension)”

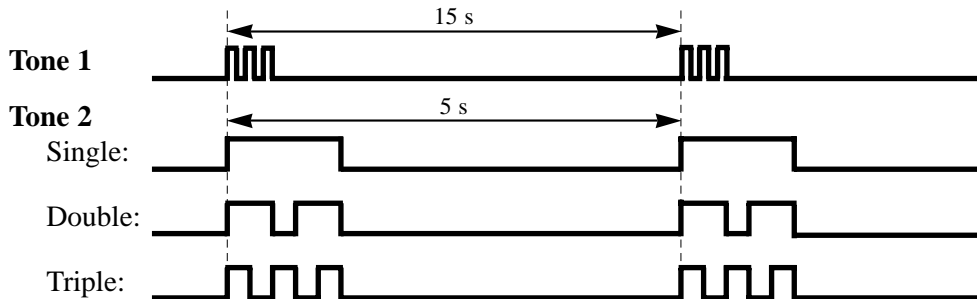
Call Waiting

During a conversation, a Call Waiting tone informs an extension user that there is a call waiting. The user can answer the second call by disconnecting the first call or placing it on hold. When Call Waiting is enabled, a Call Waiting tone is sent to the user under the following conditions.

- 1) When an outside call (except a doorphone call) is received, or
- 2) When another extension executes the Busy Extension Signalling feature.



- For proprietary telephone users, a Call Waiting tone (Tone 1 or Tone 2) can be selected in the Proprietary Telephone Settings. Tone 2 depends on System Programming. Program [423] is for outside calls and program [115] is for intercom calls.



- **Required System Programming**
 - [\[115\] Extension Ringing Pattern Selection](#)
 - [\[423\] Exchange Line Ringing Pattern Selection](#)
- **Related Feature Reference**
 - Hold
- **Operating Instructions References**
 - 1.2 Proprietary Telephone Settings, “Customising Your Telephone Functions”, Call Waiting Tone Selection
 - 1.5 During Conversation, “Call Waiting”

Conference (3-party)

During a 2-party conversation, an extension user can add a third party to make a 3-party conference. The maximum number of members of a conference can be programmed in program [116].



- The possible combinations, through System Programming, are 3 extensions, 1 extension and 2 external parties, or 2 extensions and 1 external party.
- When a 2-party call is changed to a 3-party call or vice versa, a confirmation tone is sent to all 3 parties. The tone can be disabled by program [105].
- A 3-party call can also be established by the Executive Busy Override feature.



- **Required System Programming**

- [\[105\] Conference Tone](#)

- [\[116\] Conference Pattern Selection](#)

- [\[606\] Call Transfer to an Exchange Line](#)

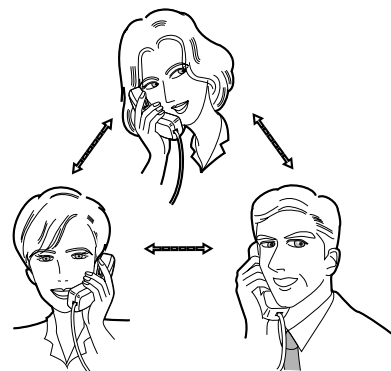
- **Related Feature References**

- Executive Busy Override

- **Operating Instructions References**

- 1.2 Proprietary Telephone Settings, “Customising the Buttons on Your Telephone”,
CONF (Conference) Button

- 1.7 Useful Features, “Conference (3-party)”



Conference (5-party)

Allows an extension user to establish a 5-party conference when “5 party C-2 E-5” is selected in program [116].



- Up to 2 external parties can participate in a conference call.
- All 5 parties can be extensions.
- Only one 5-party conference can be established at one time.
- When a 5-party conference is established, a confirmation tone is sent to all parties. The tone can be disabled by program [105].
- The Executive Busy Override and the Call Park features are not available during a 5-party conference.



- **Required System Programming**

- [\[105\] Conference Tone](#)

- [\[116\] Conference Pattern Selection](#)

- **Related Feature References**

- Conference (3-party), Call Park, Executive Busy Override

- **Operating Instructions References**

- 1.2 Proprietary Telephone Settings, “Customising the Buttons on Your Telephone”, CONF (Conference) Button

- 1.7 Useful Features, “Conference (5-party)”

Data Line Security

Prevents an extension user from being interrupted by the Call Waiting and Executive Busy Override features. This feature also prevents a ring tone or an alarm tone from being sent when a call is kept waiting longer than a pre-determined time. Data communication devices, such as computers and facsimiles, connected to an extension port can operate without interruptions.

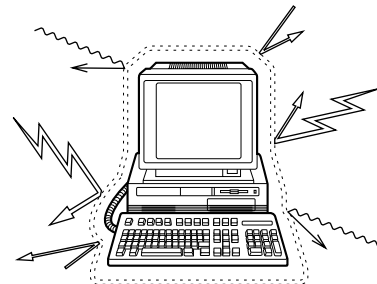


- **Related Feature References**

- Call Waiting, Executive Busy Override

- **Operating Instructions Reference**

- 1.7 Useful Features, “Data Line Security”



Date and Time Setting

A manager or operator can adjust the current time.



- **Required System Programming**
[000] [Date and Time Setting](#)
- **Operating Instructions Reference**
1.8 Operator / Manager Service Features, “Date and Time Setting”

Direct In Line (DIL)

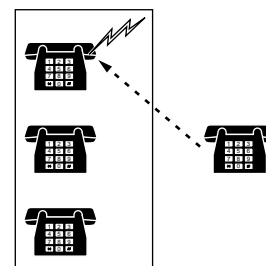
Enables an incoming outside call to go directly to a specified extension. This exchange line can be used by multiple extension users to make a call, but can only be used by one extension to receive a call. DIL can have a different destination in the day, night and/or lunch modes.



- If the destination extension is in an extension group which has enabled the Extension Hunting feature in program [100] “Hunting Group Set”, Extension Hunting (Terminate or Circular in program [101] “Hunting Type”) works when the extension is busy.



- **Required System Programming**
[414]–[416] [Exchange Line Mode — Day/Night/Lunch](#)
- **Related Feature References**
Extension Hunting, Time (Day/Night/Lunch) Service



Direct Inward System Access (DISA)

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 incoming call to an extension, extension group or operator. The caller also has the option of dialling the route for an extension using a 1 digit number (DISA built-in auto attendant number) via DISA calls.

The DISA feature operates without an optional card installed. If an outgoing message (OGM) which greets a caller and gives information, or fax detection is required, an optional OGM/FAX Detection Card must be installed. The system can detect a FAX (CNG) tone according to program [514]. An OGM can be programmed in program [502] (☞ “Outgoing Message (OGM)” in this section). When a caller reaches a DISA line, a message will greet the caller. Two different DISA messages can be recorded by the operator or manager. For example, one message can be used in day mode and the other in night mode, or they can be used for different exchange lines. If an optional OGM/FAX Detection Card is not installed, the caller will hear a short beep instead of the OGM (Internal DISA).



- “DISA1” or “DISA 2” must be assigned to exchange line(s) as the exchange line mode in programs [414] through [416].
- After the DISA Delayed Answer Time assigned in program [504] expires and a ringback tone is returned to the caller, a DISA call will be answered. The caller can dial during the message or after the tone.
- This system can store up to 10 programmable DISA built-in auto attendant numbers in program [501]. Each number is 1 digit.
- The DISA built-in auto attendant number may be the same as the first digit of other numbers (extension number, etc.). To avoid confusion, the system waits for the second digit for a preprogrammed amount of time in program [517] (default: 2 seconds). If the timer expires, the system will assume that the first digit is a DISA built-in auto attendant number.
- Only one OGM/FAX Detection Card can be installed .



- **Connection Reference**

2.15 OGM/FAX Detection Card Installation

- **Required System Programming**

To enable the DISA feature

- [414]–[416] Exchange Line Mode — Day/Night/Lunch
- [420] Calling Party Control (CPC) Signal
- [500] DISA Incoming Dialling Mode Selection
- [501] DISA Built-in Auto Attendant
- [502] OGM Mode Selection
- [503] FAX Connection
- [506] DISA Busy Mode
- [510] DISA No Dial Mode
- [513] Cyclic Tone Detection
- [514] FAX Tone Detection
- [516] DISA Incoming Assignment

To set DISA timer values

- [504] DISA Delayed Answer Time
- [505] DISA Waiting Time after OGM
- [517] DISA AA Wait Time
- [519] DISA OGM Mute Time

To enable the Intercept Routing feature

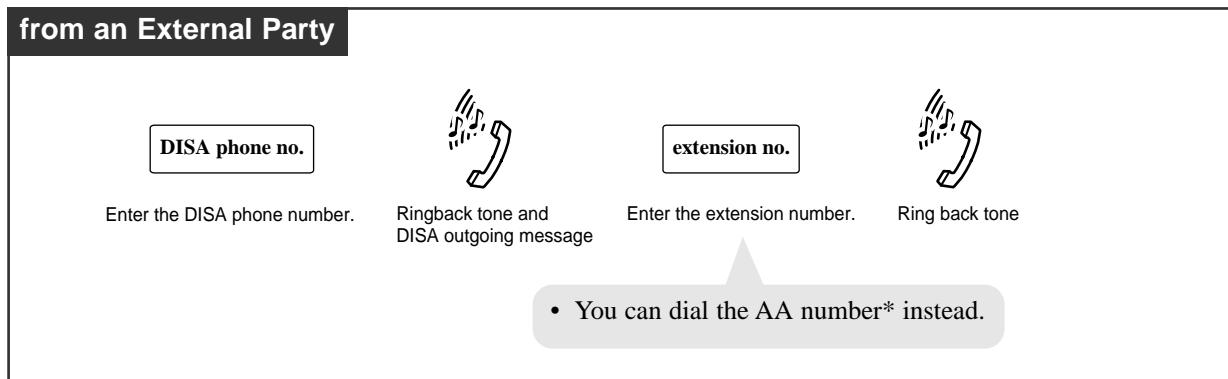
- [408]–[410] Flexible Ringing Assignment — Day/Night/Lunch
- [507] DISA Intercept Mode
- [508] DISA Ringing Time before Intercept
- [509] DISA Ringing Time after Intercept
- [515] Intercept Time for Internal DISA

- **Related Feature References**

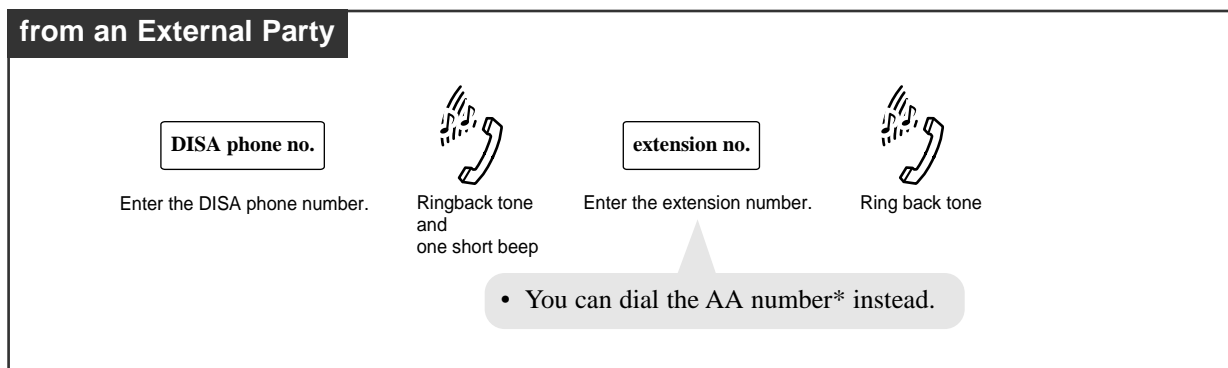
Extension Hunting,
Intercept Routing, Outgoing Message (OGM)

DISA Operation

Calling an extension by following the outgoing message

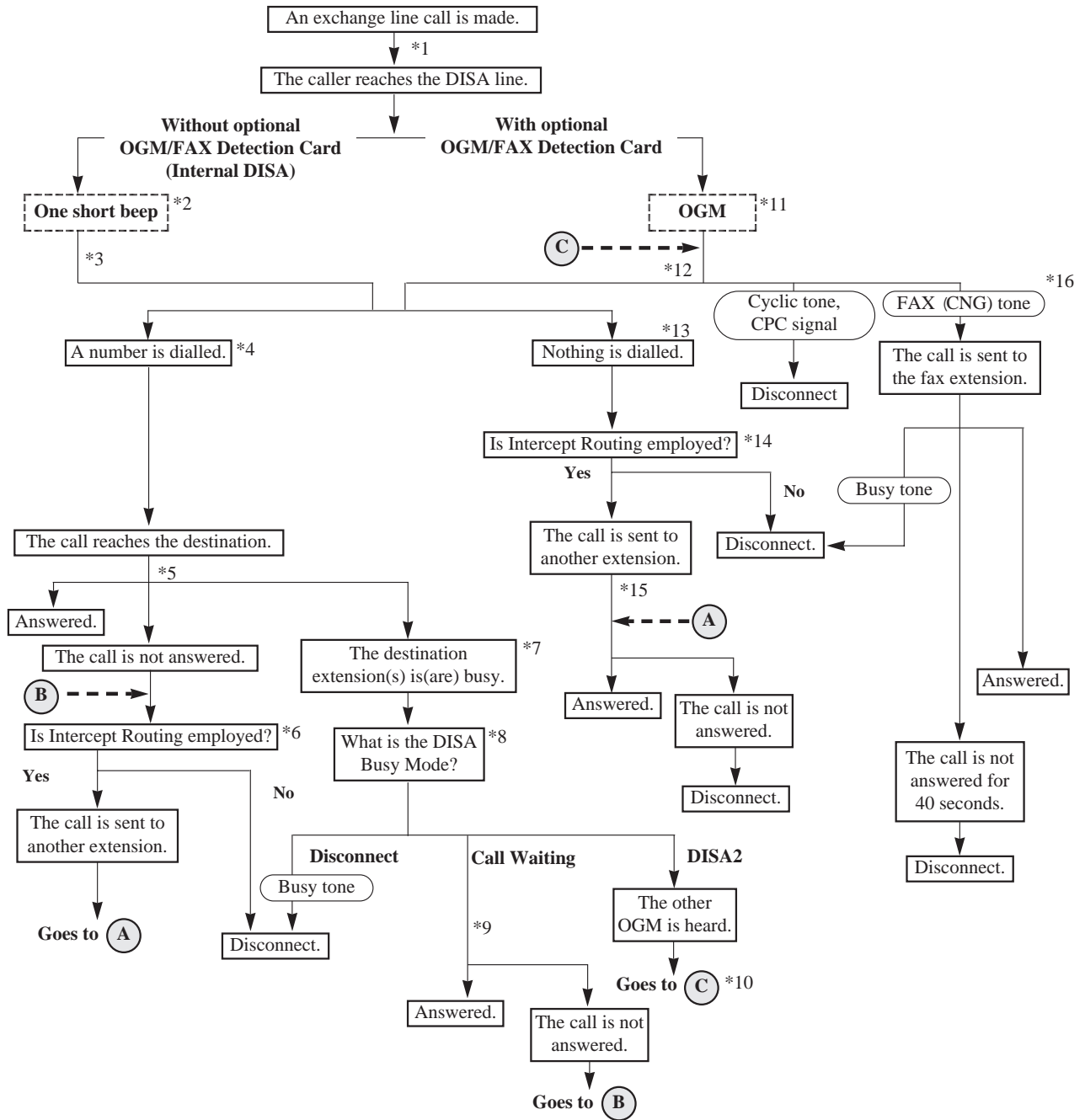


Calling an extension without an outgoing message (Internal DISA)



AA number*: A DISA built-in auto attendant number assigned in program [501] “DISA Built-in Auto Attendant”.

Flow chart of possible cases and results for DISA calls



Note: The explanation for *1 through *16 is on the next page.

- *1: The DISA Delayed timer starts. This is the time between a call reaching the system and being received. The time is assigned in program [504].
- *2: When the assigned time period in program [519] expires, the system sends a short beep to the caller.
- *3: The Intercept Timer for Internal DISA starts. This is the time the system waits for the number sent by the caller. If nothing is entered by the caller during this time, the system will regard it as “Nothing is dialed.” The time is assigned in program [515].
- *4: The system can accept the following numbers:
 - **200 through 299** as an extension number.
 - **0 or 9** as the operator call number when the operator is assigned in program [008] “Operator Assignment” and “Without AA” is assigned in program [500]. Even if “With AA” is assigned, 0 or 9 is regarded as the operator call number if nothing is assigned to “0” or “9” in program [501].
 - **0 through 9** as a built-in auto attendant number when “With AA” is assigned in program [500]. The DISA AA Wait timer starts after receiving the first 1-digit number. If the timer expires, the system will assume that the first digit is an AA number. The time is assigned in program [517].
- *5: The DISA Ring Timer Before Intercept starts. The destination telephone(s) will ring for the time programmed in [508].
- *6: The system treats the call according to program [507] as follows.
 - **Disconnect** – the call is disconnected.
 - **Intercept** – the call is sent to the extensions programmed in [408]-[410] “Flexible Ringing Assignment – Day/Night/Lunch”.If the call is still not answered within the time programmed in [509], it will be disconnected.
- *7: If the destination extension belongs to a hunting group and all extensions in the group are busy, the system will check the DISA Busy Mode. If the destination is a DISA ring group, the DISA Busy Mode will not work for the call. The system regards the call as unanswered.
- *8: The DISA Busy Mode is selected in program [506]. There are 3 modes as follows.
 - **Disconnect** – the caller hears a busy tone and a call is disconnected.
 - **Call Waiting** – the destination extension hears a call waiting tone if they have enabled Call Waiting.
 - **DISA2** – if “MODE2” is assigned in program [502] and a message is recorded in OGM2, the caller will hear the message and the system waits for the new destination.

- *9: The DISA Ring Timer Before Intercept starts. The destination telephone(s) will ring for the time programmed in [508].
- *10: In this case, the system does not accept a line access code. If nothing is recorded in OGM2 or OGM2 is used for another caller, the caller will hear a busy tone and the call is disconnected.
- *11: The OGM is sent to the caller according to programs [414]–[416] and [502] when the assigned time in program [519] expires. If an OGM is not recorded, the DISA Wait Timer After OGM programmed in [505] starts immediately.
When the system detects a FAX (CNG) tone while the OGM is being sent, the call is sent to the FAX extension assigned in program [503]. When the system detects a cyclic tone or CPC signal while the OGM is being sent, the call is disconnected.
- *12: The DISA Wait Timer After OGM starts. The system waits for a number from the caller during the time assigned in program [505]. When the system detects a FAX (CNG) tone during the programmed time, the call is sent to the FAX extension. When the system detects a cyclic tone or CPC signal during the programmed time, the call is disconnected.
- *13: After the DISA Wait Timer After OGM or the Intercept Timer for Internal DISA expires, the system regards that nothing was dialed.
- *14: The system treats the call according to program [510] as follows.
 - **Disconnect** – the call is disconnected.
 - **Intercept** – the call is sent to the extensions programmed in [408]–[410]. If all extensions are assigned to “Disable”, the call will be disconnected.
- *15: The DISA Ring Timer After Intercept starts. The destination telephone(s) will ring for the time programmed in [509]. If the call is not answered during the programmed time, the call will be disconnected.
- *16: The FAX extension assigned in program [503] receives the call. When the extension is busy, the system sends a busy tone to the sending FAX. If the call is not answered after 40 seconds, the call will be disconnected.
Program [514] sets how many times the FAX (CNG) tone must be detected before the system recognises the incoming signal as facsimile data.

Display Contrast Adjustment (KX-T7130 only)

Allows a display proprietary telephone user to adjust the display contrast with the CONTRAST selector.



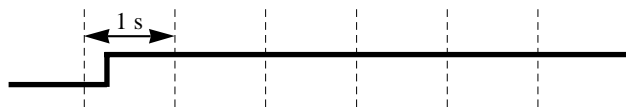
• Operating Instructions Reference

1.2 Proprietary Telephone Settings, “Display Contrast Adjustment”

Distinctive Dial Tones

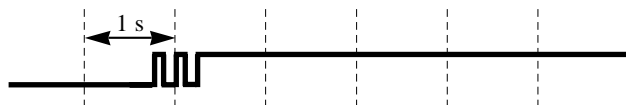
An extension user will hear 3 types of dial tone patterns which give information about the features activated on the telephone.

Dial Tone 1: This is a normal dial tone. None of the features listed in Dial Tone 2 are activated.



Dial Tone 2: Sent when any of the following features are set.

- Absent Message Capability
- Call Forwarding
- Data Line Security
- Electronic Extension Lockout
- Pickup Dialling
(for single line telephones only)
- Timed Reminder
- Background Music (BGM)
(for proprietary telephones only)
- Call Pickup Deny
- Do Not Disturb (DND)
- Message Waiting
(for proprietary telephones only)
- Remote Extension Lock Control



Dial Tone 3: Sent when making an Account Code Entry and answering a Timed Reminder call. Also sent when going off-hook with a single line telephone which has a message in a Voice Processing System.



• Operating Instructions Reference

1.7 Useful Features, “Distinctive Dial Tones”

Do Not Disturb (DND)

<Do Not Disturb (DND)>

Allows an extension user to prevent other parties from disturbing them. The extension will not receive intercom or outside calls.

<Do Not Disturb (DND) Override>

Allows an extension user enabled in program [609] to call an extension which has set the Do Not Disturb (DND) feature.



- If your proprietary telephone (PT) is not supplied with the FWD/DND button, it can be assigned to a flexible line key in the Proprietary Telephone Settings.
- DND does not work for the following calls: Hold recall or Timed Reminder.
- A PT user in the DND mode can answer a call by pressing the corresponding flashing button.
- If the Call Forwarding feature has already been set, setting the DND feature will cancel Call Forwarding.



- **Required System Programming**
[609] Do Not Disturb Override

- **Related Feature References**

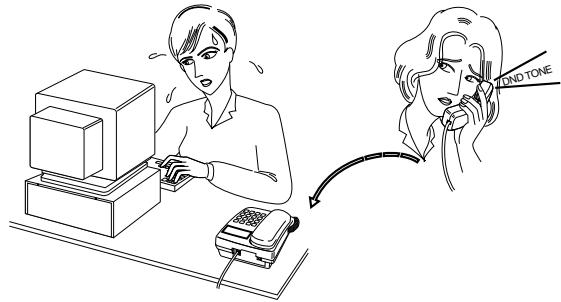
Call Forwarding,
Timed Reminder

- **Operating Instructions References**

1.2 Proprietary Telephone Settings,
“Customising the Buttons on
Your Telephone”,
FWD/DND (Forward/Do Not Disturb) Button

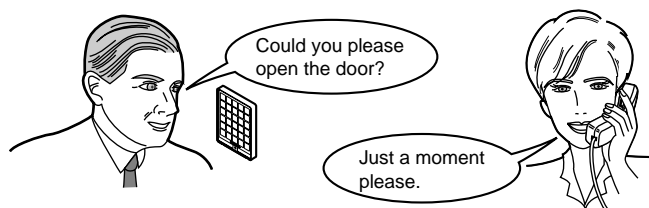
1.7 Useful Features, “Rejecting Incoming Calls (Do Not Disturb — DND)”

1.7 Useful Features, “Calling an Extension which Denies Receiving Calls
(Do Not Disturb Override)”



Door Opener

Up to 4 Door Openers can be connected to the system. The door can be unlocked by a pre-assigned extension users in programs [703]-[705].



- An optional Doorphone/Door Opener Card must be installed to the system and a user-supplied door opener to the door to be opened. Four openers can be installed.
- The door opener will open the door even if a doorphone is not installed.
- The door opener timer can be modified in program [709].



- **Connection Reference**
2.16 Doorphone and Door Opener Connection
- **Required System Programming**
[\[703\]-\[705\] Door Opener Assignment — Day/Night/Lunch](#)
[\[709\] Door Opener Time](#)
- **Related Feature Reference**
Doorphone Call
- **Operating Instructions Reference**
1.7 Useful Features, “Door Opener”

Doorphone Call

Up to 4 Doorphones (KX-T30865) can be installed. If a visitor presses the doorphone button, a pre-assigned extension user in programs [700]-[702] can answer the call and talk to the visitor. Any extension user can call a doorphone. The doorphones are also used for the Room Monitor feature.



- An optional Doorphone/Door Opener Card must be installed to the system and a doorphone. Four doorphones can be installed.
- Doorphone 1 and 2 cannot be used simultaneously. When one is in use, an extension user cannot have a conversation with the other. Doorphone 3 and 4 are the same.
- An access tone can be programmed in [707] to be sent to a monitored doorphone before room monitoring starts.
- The ring tone from the doorphone call is programmable in [706].



- **Connection Reference**
 - 2.16 Doorphone and Door Opener Connection
- **Required System Programming**
 - [\[700\]–\[702\] Doorphone Ringing Assignment — Day/Night/Lunch](#)
 - [\[706\] Doorphone Ringing/Tone Pattern Selection](#)
 - [\[707\] Doorphone Access Tone Selection](#)
 - [\[708\] Doorphone Ringing Time](#)
- **Related Feature References**
 - Door Opener, Room Monitor
- **Operating Instructions References**
 - 1.7 Useful Features, “Room Monitor”
 - 1.7 Useful Features, “Doorphone Call”

DSS Console

The Direct Station Selection (DSS) Console provides direct access to extensions, a busy lamp display, as well as 16 PF (Programmable Feature) buttons.

The DSS Console must be programmed to work with a proprietary telephone (PT). The port number of the DSS Console and its associated PT are assigned in programs [003] and [004].

Up to 2 consoles can be installed per system.

If a feature like One-Touch Dialling is assigned to a DSS button or PF button, accessing the feature can be done easily by pressing the corresponding button. This is very useful for an operator or manager. Refer to the Operating Instructions for more details.



- Programming the DSS and PF buttons can be done only from the paired telephone.
- Indicating the Forward (FWD) or Do Not Disturb (DND) status of corresponding extensions using a DSS button indication is programmable in [112].



- **Connection Reference**
 - 2.8 Extension Connection
- **Required System Programming**
 - [\[003\] DSS Console Port Assignment](#)
 - [\[004\] Paired Telephone Assignment for DSS Console](#)
 - [\[112\] DSS Console Indication Mode](#)
- **Operating Instructions Reference**
 - 1.9 DSS Console Features

Emergency Call

Allows an extension user to access a pre-assigned emergency number which can be dialled regardless of any restrictions.



- Up to 5 emergency numbers can be stored.
- An emergency call is allowed even in the following cases;
 - in Account Code Modes (Verify–All and Forced modes),
 - in any call barring COS number, and
 - in Electronic Extension Lockout.



- **Required System Programming**
[\[309\] Emergency Dial Number Set](#)
- **Related Feature References**
Account Code Entry, Call Barring, Extension Lock
- **Operating Instructions Reference**
1.3 Making Calls, “Making Emergency Calls (Emergency Call)”

Exchange Line Ringing Selection

When an outside call is received at an extension, the user can select whether their extension will ring or not.



- Select “Enable” in programs [408]–[410].



- **Required System Programming**
[\[408\]–\[410\] “Flexible Ringing Assignment — Day/Night/Lunch](#)
- **Operating Instructions Reference**
1.2 Proprietary Telephone Settings, “Customising Your Telephone Functions”,
Exchange Line Ringing Selection

Executive Busy Override

<Executive Busy Override – Extension>

Allows an extension user enabled in program [608] to interrupt an existing intercom call. A 3-party conference will be established.

<Executive Busy Override – Exchange Line>

Allows a proprietary telephone user enabled in program [608] to interrupt an existing outside call or add a third party. A 3-party conference will be established.

<Executive Busy Override Deny>

Allows an extension user to prevent other extension users from interrupting their conversation.



- The Executive Busy Override feature will not work if the extension engaged the conversation has set Executive Busy Override Deny or Data Line Security.
- When a 3-party call is changed to a 2-party call or vice versa, a confirmation tone will be sent to all parties. This tone can be disabled by program [105].



- **Required System Programming**

- [\[105\] Conference Tone](#)

- [\[608\] Executive Busy Override](#)

- **Related Feature Reference**

- Conference (3-party)

- **Operating Instructions References**

- 1.3 Making Calls, “Interrupting an Existing Call (Executive Busy Override)”

- 1.3 Making Calls, “Denying ‘Interrupting an Existing Call’ (Executive Busy Override Deny)”

Extension Button Confirmation

(KX-T7130 only)

Allows a display proprietary telephone user to confirm the values stored in the buttons, such as the REDIAL button or flexible line key, by pressing the corresponding button while on-hook.



- **Operating Instructions Reference**

- 1.7 Useful Features “Extension Button Confirmation (KX-T7130 only)”

Extension Feature Clear

Allows an extension user to reset the following extension features to the default settings.

- Absent Message Capability
- Automatic Callback Busy (Camp-On)
- Background Music (BGM)
- Call Forwarding
- Call Pickup Deny
- Call Waiting
- Data Line Security
- Do Not Disturb (DND)
- Executive Busy Override Deny
- Log-In/Log-Out
- Message Waiting – (All messages will be erased.)
- Pickup Dialling – (The stored telephone number will be erased.)
- Paging Deny
- Room Monitor
- Timed Reminder
- Voice Mail Integration



• **Operating Instructions Reference**

1.7 Useful Features, “Cancelling the Feature Settings (Extension Feature Clear)”

Extension Group

The system supports 8 extension groups. In an extension group, the following features can be activated.

- **Group Call Pickup:** Any member of an extension group can pick up a call directed to another member in the same group.
- **Paging – Group:** Any member of an extension group can make a voice announcement to another group member.

A hunting group, DISA ring group or UCD group is a specific extension group. The following operation as well as the features above can be activated for a hunting group, DISA ring group or UCD group.

Hunting Group

An extension group enabled in program [100] “Hunting Group Set” will perform the Extension Hunting feature. See “Extension Hunting” in this section.

DISA Ring Group

All extensions in a DISA ring group assigned as an auto attendant destination in program [501] “DISA Built-in Auto Attendant” will ring simultaneously. Selecting “DISA1” or “DISA2” in programs [414]–[416] “Exchange Line Mode — Day/Night/Lunch” is required. Also, you must select “With AA” in program [500] “DISA Incoming Dialling Mode Selection”.

UCD Group

One extension group assigned as the UCD group in program [520] “UCD Group” can be the destination of incoming outside calls via the UCD feature. Selecting “UCD” in programs [414]–[416] “Exchange Line Mode — Day/Night/Lunch” is required.



- **Required System Program Address**
[\[600\] Extension Group Assignment](#)

- **Related Feature References**

Call Pickup, Direct Inward System Access (DISA), Extension Hunting, Paging, Uniform Call Distribution (UCD)

Extension Hunting

If a called extension is busy, Extension Hunting redirects the incoming call to an idle extension in an extension group in numerical order. Idle extensions are automatically hunted according to programming. The following 2 hunting types are available.

- Circular hunting:** The extensions are hunted one time in numerical order. If all extensions are busy, a busy tone will be heard.
- Terminate hunting:** The extensions are hunted until the extension which has the highest port number in the group is reached. If all higher order numbers are busy, the search will end and a busy tone will be heard.

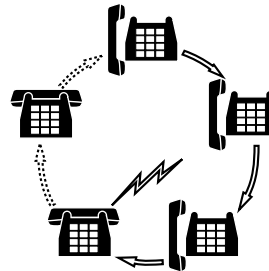


- One hunting type can be selected for each extension group.
- To leave the hunting group temporarily, use the Log-Out feature. To rejoin, use the Log-In feature.
- If the called extension has set Do Not Disturb (DND), Call Forwarding or Log-Out, Extension Hunting will skip the extension. However, Extension Hunting will not skip the extension which receives the call first, even if it has set Do Not Disturb (DND) or Call Forwarding.



- **Required System Programming**
 - [100] Hunting Group Set
 - [101] Hunting Type
 - [600] Extension Group Assignment
- **Related Feature References**
 - Call Forwarding
 - Do Not Disturb (DND)
 - Extension Group
 - Log-In/Log-Out

Circular Hunting



Terminate



Extension Lock

<Electronic Extension Lockout>

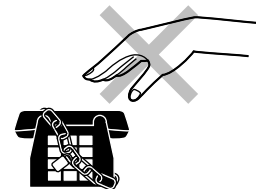
Allows an extension user to lock their extension so that other users cannot make outside calls until it is unlocked. Any 4-digit code can be used to lock and unlock an extension.

<Electronic Extension Lockout – CANCEL ALL>

The operator and manager can cancel Electronic Extension Lockout of all extensions at one time.

<Remote Extension Lock Control>

The operator and manager are given the privilege of controlling Electronic Extension Lockout at any extension by using the DSS console. The operator and manager can see the status of each extension, locked or unlocked, by the pre-assigned DSS button LED on the DSS console. For example, this feature is useful for a small hotel or motel when guests are checked out.





- The Remote Extension Lock Control overrides the Electronic Extension Lockout. If the operator or manager sets Remote Extension Lock on an extension that has already been locked by the extension user, the user cannot unlock it.
- A call barring class can be assigned to an extension which has set the Electronic Extension Lockout and Remote Extension Lock Control features in program [312] “Call Barring – Extension Lock Boundary Class”. Certain types of outgoing outside calls are allowed depending on the assigned call barring class.



- **Operating Instructions References**

- 1.6 Before Leaving Your Desk, “Locking Your Telephone (Electronic Extension Lockout)”
- 1.8 Operator / Manager Service Features, “Electronic Extension Lockout – CANCEL ALL”
- 1.8 Operator / Manager Service Features, “Remote Extension Lock”
- 1.9 DSS Console Features “Initial Settings”, Extension Lock Button Assignment (Operator/Manager only)

Extension Password / System Password

The extension password assigned by the manager (extension port 01) to each extension can be used for the Walking COS feature.

The system password is used for entering System Programming and also before assigning the extension password.



- **Required System Programming**

- [\[002\] System Password](#)

- **Related Feature References**

- Walking COS

- **Operating Instructions Reference**

- 1.8 Operator / Manager Service Features, “Extension Password Set (Manager only)”

External Feature Access

Allows an extension user to access special features (e.g. Call Waiting) offered by the Local Exchange or host PBX. This is done by placing the current call on hold and sending a recall signal using either the RECALL button or the feature number. This feature is effective only during an outside call.



- When “MODE2” is selected in program [110] and the RECALL button is pressed for longer than the time programmed in [418], this feature will not work.
- The recall time must be assigned in program [418] as required by the host PBX or exchange line.



- **Required System Programming**
 - [\[110\] Recall Key Mode](#)
 - [\[418\] Recall Time](#)
- **Related Feature References**
 - Host PBX Access, Recall
- **Operating Instructions Reference**
 - 1.7 Useful Features, “External Feature Access”