

Panasonic®

S-ICX

Integrated Voice & Data Solutions

Technical Manual (Supports S-ICX Version 5.0)

Section 700 Feature Operation



Before attempting to operate the S-ICX, please read these instructions completely.

S-ICX Version 5.0
Issued October 2000

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Contents

Chapter 1. About This Manual	11
<hr/>	
Chapter 2. List of Features	13
<hr/>	
Chapter 3. System Features	19
AEC Disconnect	22
Attendant Groups	22
Automatic Call Distributor	23
Automatic Route Selection	24
Automatic Trunk to Trunk Transfer	25
Background Music/MOH Separation	25
Battery Backup	25
Call Progress Tones	26
Caller ID	26
Caller ID Alpha Tagging	27
Centrex/PBX Compatibility	28
Class of Service	28
Class of Service - Trunk/Tie	28
Class of Service - Ext/Ext Restriction	29
Class of Service - Extension Feature	29
Class of Service - Trunk to Trunk Restriction	31
Class of Service - Extension (Station) Timers	32
Data Security	32
Daylight Saving Time (Summer Time)	33
Day/Night System Mode	33
Manual Day/Night Mode	34
Automatic Day/Night Mode	36
Digital Pad	37
Direct Inward System Access	37
Distinctive Ringing	38
Doorphone	38
Doorphone Sensor	39
Extension Interface	39
Digital Telephones	40
Analog Device Capability	40
DP/DTMF SLTs	40
ISDN/BRI S-Point Interface	40
ISDN/PRI S-Point Interface	41
Flexible Numbering Plan	41
Flexible Slot	42

Hunting Groups	42
Pilot Terminal Hunt Group	42
Pilot Distributed Hunt Group	42
Switch Back Hunt Group	43
Circular Hunt Group	43
Next Extension/Hunt Group	43
Internal Hold Tone	44
MCO Tenant Group	44
Memory Backup	45
Music-on-Hold	45
Name Assignments	46
Extension Name Assignments	46
Speed Dial Name Assignments	50
Network Facilities	52
Network Attendant Reversion	52
Network Call Routing	52
Network Call Transfer	52
Network Centralized Attendant	52
Network Centralized Voice Mail	53
Network Extension Calling	53
Network Flash Transfer	53
Network Hold	53
Network Paging	53
Network Transfer Recall	54
Tandem Connection	54
Non-Blocking Architecture	54
Power On Maintenance	54
Programming Devices	55
Telephone Programming	55
PC-Based Customizing Tool	55
QSIG ISDN Lines	55
Ringling Modes	56
Day 1/ Day 2/Night Ringing	56
Day 1/ Day 2/Night Delayed Ringing	57
DDI (DID) Day/Night Ringing	57
DDI (DID) Day/Night Busy/Delayed Ringing	57
Busy Lamp Field Ringing	57
Busy Lamp Field Delayed Ringing	58
Slide Ringing	58
Alarm Ringing	58
Station Message Detail Recording (Call Logging)	59
System Speed Dial TRS (Call Barring) Override	61
Toll Restriction Service (Call Barring)	61
Trunk Access Groups	62
Trunk Interface	62
Trunk Interface - DDI (Not Available on UK, TX or EX Model)	63
Trunk Interface - ISDN BRI	63
Trunk Interface - ISDN-PRI	63

Trunk Interface - Loop Start	63
Trunk Ringing Types	64
DDI Ringing	64
Direct Line Ringing	64
Direct Inward System Access Ringing	65
DIL Delayed Incoming Ring Enhancement	66
Multiple Ringing	67
Virtual Port	67
Virtual Port used for Virtual Extension	67
Virtual Port used for Floating Hold	67
Voice Mail Integration (Third Party)	68
Answer Supervision for Voice Mail	68
Call Forward ID Code for Voice Mail	68
CLI/DDI Voice Mail ID Code	69
Disconnect Signal	70
High Priority Message Waiting	70
Message Key ID Code	70
Voice Mail Transfer Key	71
<hr/>	
Chapter 4. User Maintenance	73
Introduction	73
About User Programming	75
Set Absence Messages	76
Set Call Forward Busy Destination Extension	77
Set Call Forward ID Codes for Voice Mail	78
Set Call Forward No Answer Destination Extension	79
Set Caller ID Logging Extensions	80
Set Day of Week Mode	81
Set Exception Day Mode	83
Set Extension Names	85
Set Message Key ID Code	86
Set Mode Schedule	87
Set Personal Speed Dial Names	89
Set Personal Speed Dial Numbers	94
Set Send Text Messages	95
Set Special Day Mode	96
Set System Date/Time/Day	103
Set System Speed Dial Index	104
Set System Speed Dial Names	105
Set System Speed Dial Numbers	107
Set Text Message Replies	108
Set Verified Account Codes	109
Set Walking TRS (Call Barring) Codes	111

Chapter 5. Key Telephone Features	113
Key Telephone	116
Absence Message	116
Account Codes	118
Non-Verified Account Codes	119
Verified Account Codes	119
Attendant Group Calls	120
Auto Repeat Dial	121
Background Music	122
Busy Override	123
Callback Request	124
Call Forwarding	125
Call Forwarding-All Calls	125
Call Forwarding - Busy	126
Call Forwarding - No Answer	127
Call Forwarding-All Calls and Do-Not-Disturb	128
Call Hold	129
System Hold	129
Floating Hold	130
Exclusive Hold	131
Broker's Hold	131
Call Park	132
Call Pickup	134
Extension Group Pickup	134
Extension Direct Pickup	135
Trunk Group Pickup	136
Trunk Direct Pickup	136
Call Transfer	137
Supervised Transfer	137
Unsupervised Transfer	138
Camping a Call Onto a Busy Extension	139
Caller ID Call Log	140
Call Log Operation on a Small Display Key Telephone	141
Call Log Operation on a Large Display Key Telephone	142
Camp-on (Call Waiting)	144
Conference Calls	147
Directory Numbers	149
Display Information	152
Large-Display Phone	153
Small-Display Phone	154
Changing the Display Contrast	155
Do-Not-Disturb	155
DP to DTMF Signal Conversion	156
DSS/72 Console	157
EM/24 Console	157
Flash	158
Flexible Function Keys	158

Handsfree Answerback	165
Handsfree Operation	165
Headset Operation	166
Hot Dial Pad	166
Hot Line	167
Intercom Calling	167
Last Number Redial	168
Line Appearances	169
DSS/BLF Appearances	169
DIL Appearances	171
MCO Appearances	171
Message Key	172
Message Waiting/Callback	173
Mute Function	175
Offhook Monitor	175
Offhook Signalling	176
Offhook Voice Announce	177
One-Touch Keys	179
Onhook Dialling	181
Paging	181
Meet-Me Answer	182
Ringling Line Preference	183
Room Monitoring	183
Silent Monitor	185
Speed Dialling	187
Personal Speed Dial	187
System Speed Dial	189
Speed Dial Linking	191
Speed Dial Name Assignments	192
Station Lockout	197
Step Call (Reset Call)	199
Timed Reminder Call	200
Trunk Access	201
Trunk Key Access	201
Direct Trunk Access	201
MCO Line Preference	202
MCO Trunk Access	202
Trunk Queuing	203
Universal Night Answer to Page	204
Variable Mode	205
Voice Recognition	207
Volume Control	208
Walking TRS (Call Barring) Class of Service	209
Zip Mode	210

Chapter 6. DSLT Features	211
Digital Single Line Telephone	213
Absence Message	213
Account Codes	215
Non-Verified Account Codes	216
Verified Account Codes	216
Attendant Group Calls	217
Auto Repeat Dial	218
Background Music	219
Busy Override	220
Callback Request	220
Call Forwarding	221
Call Forwarding-All Calls	222
Call Forwarding - Busy	222
Call Forwarding - No Answer	223
Call Forwarding and Do-Not-Disturb	224
Call Hold	225
System Hold	225
Floating Hold	226
Exclusive Hold	227
Broker's Hold	228
Call Park	228
Call Pickup	230
Extension Group Pickup	230
Extension Direct Pickup	231
Trunk Group Pickup	231
Trunk Direct Pickup	232
Call Transfer	233
Supervised Transfer	233
Unsupervised Transfer	233
Camping a Call Onto a Busy Extension	234
Camp-On (Call Waiting)	235
Conference Calls	236
Do-Not-Disturb	238
DP to DTMF Signal Conversion	239
Flash	240
Hot Line	240
Intercom Calling	241
Last Number Redial	241
Message Waiting/Callback	242
Offhook Signalling	243
Offhook Voice Announce	244
Onhook Dialling	245
Paging	246
Meet-Me Answer	246
Room Monitoring	247

Speed Dialling	249
Personal Speed Dial	249
System Speed Dial	251
Speed Dial Linking	252
Station Lockout	254
Step Call (Reset Call)	255
Timed Reminder Call	256
Trunk Access	257
Direct Trunk Access	257
MCO Trunk Access	258
Trunk Queuing	259
Universal Night Answer to Page	259
Walking TRS (Call Barring) Class of Service	260

Chapter 7. SLT Features	263
Absence Message	265
Account Codes	266
Non-Verified Account Codes	267
Verified Account Codes	267
Attendant Group Calls	269
Busy Override	269
Callback Request	270
Call Forwarding	271
Call Forwarding - All Calls	271
Call Forwarding - Busy	272
Call Forwarding - No Answer	273
Call Forwarding and Do-Not-Disturb	274
Call Hold	275
System Hold	275
Floating Hold (Retrieve Only)	276
Exclusive Hold	277
Broker's Hold	278
Call Park	278
Call Pickup	280
Extension Group Pickup	280
Extension Direct Pickup	281
Trunk Group Pickup	282
Trunk Direct Pickup	282
Call Transfer	283
Supervised Transfer	283
Unsupervised Transfer	284
Camping a Call Onto a Busy Extension	285
Camp-On (Call Waiting)	285
Conference Calls	287
Do-Not-Disturb (DND)	288
Flash Send	289

Hot Line	290
Intercom Calling	290
Last Number Redial	291
Message Waiting/Callback	292
Offhook Signalling	293
Offhook Voice Announce	294
Paging	295
Meet-Me Answer	296
Room Monitoring	296
Speed Dialling	298
Personal Speed Dial	298
System Speed Dial	299
Speed Dial Linking	300
Station Lockout	301
Step Call (Reset Call)	303
Timed Reminder Call	304
Trunk Access	305
Direct Trunk Access	305
MCO Trunk Access	306
Trunk Queuing	307
Universal Night Answer to Page	308
Walking TRS (Call Barring) Class of Service	308

Appendix A: SBS/VB-9 A-Series Telephone Features	311
---	------------

Index	315
--------------------	------------

Chapter 1. About This Manual

If you are using this manual for a single System, make note of its software version in the following table. This information may be referenced by technicians or owners of the System.

Software version information for systems shipped with this document	
CPC Model:	Software Version:

Organization

This manual contains detailed descriptions of features. The feature descriptions are organized according to the following categories:

Feature Categories	Description
System Features	System Features are either available on a system-wide basis or aid in the overall administration of the System.
User Maintenance	User Maintenance Features are used by the end user to maintain the System. These items include setting time and date, Personal Speed Dial (PSD) numbers and names, System Speed Dial (SSD) numbers and names, extension names, Verified ID codes, Call Forward ID codes for Voice Mail, Message Key ID codes, Mode schedule, Special Day mode, Exception Day mode, and Day of Week mode.
Key Telephone Features	Key Telephone Features are available to System Key phones. System Key phones are proprietary digital sets that provide feature access through a combination of feature keys and access codes.
Digital Single-Line Telephone (DSLTL) Features	DSLTL Features are available to DSLTLs. DSLTLs provide digital audio quality and limited feature key access in a single-line set.
Single Line Telephone (SLT) Features	SLT Features are available on a standard analog push button telephone set. Since SLTs are not equipped with feature keys, most features are accessed by using the dialpad and/or the switchhook.
*SBS/A-Series (UK) and VB-9/A-Series (TW) Features	Beginning with Version 1.0, the ICX system can be used with SBS/A-Series (UK only) and VB-9/A-Series (TW only) telephones. See Appendix A for a list of differences between ICX key telephone features and those available on the SBS/VB-9, A-Series telephones.

* See Appendix B

Purpose

The purpose of this manual is to provide an overview of feature operations and requirements. Where applicable, the following types of information are provided for each feature:

Types of Information	Purpose
Description	Provides an overview of how the feature works and, in some cases, what it is typically used for
Operation	Includes step-by-step instructions on how to use the feature
Hardware Requirements	Lists any special hardware that is required to use the feature
Related Programming	Lists the programming subsystems associated with the feature
Considerations	Provides details on feature interactions and limitations

Abbreviation List

ACD	Automatic Call Distributor
ARS	Automatic Route Selection
BGM	Background Music
BLF	Busy Lamp Field
BRI	Basic Rate Interface
CFWD	Call Forward
COS	Class of Service
CTI	Computer Telephony Integration
DDI	Direct Dial Inward
DID	Direct Inward Dialing
DIL	Direct In Line
DISA	Direct Inward System Access
DL	Direct Line
DN	Directory Number
DND	Do-Not-Disturb
DP	Dial Pulse
DSL	Digital Single Line Telephone
DSS	Direct Station Selector
DSU	Digital Service Unit
DTMF	Dual Tone Multifrequency
FF	Flexible Function
HD	High Density
LCD	Liquid Crystal Display
LCR	Least Cost Routing
MCO	Multiple CO (Pooled Trunk Access)
MIS	Management Information System
MOH	Music On Hold
PNPDN	Phantom Non-Primary Directory Number
PRI	Primary Rate Interface
PSD	Personal Speed Dial
SLT	Single Line Telephone
SMDR	Station Message Detail Recorder
SPI	Service Provider Interface
SSD	System Speed Dial
TRS	Toll Restriction Service

Chapter 2. List of Features

This chapter contains the following tables which list the features available with the System:

Table	Page
System Features	14
Maintenance Features	15
Extension Features	16

Table 1. System Features

Topic	Page
AEC Disconnect	22
Attendant Groups	22
Automatic Call Distributor	23
Automatic Route Selection	24
Automatic Trunk to Trunk Transfer	25
Background Music/MOH Separation	25
Battery Backup	25
Call Progress Tones	26
Caller ID	26
Caller ID Alpha Tagging	27
Centrex/PBX Compatibility	28
Class of Service	28
Data Security	32
Daylight Saving Time (Summer Time)	33
Day/Night System Mode	33
Digital Pad	37
Direct Inward System Access	37
Distinctive Ringing	38
Doorphone	38
Extension Interface	39
Flexible Numbering Plan	41
Flexible Slot	42
Hunting Groups	42
Internal Hold Tone	44
MCO Tenant Group	44
Memory Backup	45
Music-on-Hold	45
Name Assignments	46
Network Facilities	52
Non-Blocking Architecture	54
Power On Maintenance	54
Programming Devices	55
QSIG ISDN Lines	55
Ringling Modes	56
System Speed Dial TRS (Call Barring) Override	61

Topic	Page
Station Message Detail Recording (Call Logging)	59
Trunk Access Groups	61
Trunk Interface	62
Trunk Ringing Types	64
Virtual Port	67
Voice Mail Integration (Third Party)	68

Table 2. Maintenance Features

Topic	Page
Set Absence Messages	76
Set Call Forward Busy Destination Extension	77
Set Call Forward ID Codes for Voice Mail	78
Set Call Forward No Answer Destination Extension	79
Set Caller ID Logging Extensions	80
Set Day of Week Mode	81
Set Exception Day Mode	83
Set Extension Names	85
Set Message Key ID Code	86
Set Mode Schedule	87
Set Personal Speed Dial Names	89
Set Personal Speed Dial Numbers	94
Set Send Text Messages	108
Set Special Day Mode	96
Set System Date/Time/Day	103
Set System Speed Dial Index	104
Set System Speed Dial Names	105
Set System Speed Dial Numbers	107
Set Text Message Replies	108
Set Verified Account Codes	109
Set Walking TRS (Call Barring) Codes	111

Table 3. Extension Features

Topic	Page
Absence Message	116
Account Codes	118
Attendant Group Calls	120
Auto Repeat Dial	121
Background Music	122
Busy Override	123
Callback Request	124
Call Forwarding	125
Call Hold	129
Call Transfer	137
Caller ID Call Log	140
Camp-on (Call Waiting)	144
Conference Calls	147
Directory Numbers	149
Display Information	152
Do-Not-Disturb	155
DP to DTMF Signal Conversion	156
DSS/72 Console	157
EM/24 Console	157
Flash	158
Flexible Function Keys	158
Handsfree Answerback	165
Handsfree Operation	165
Headset Operation	166
Hot Dial Pad	166
Hot Line	167
Intercom Calling	167
Last Number Redial	168
Line Appearances	169
Message Key	172
Message Waiting/Callback	173
Mute Function	175
Offhook Monitor	175
Offhook Signalling	176
Offhook Voice Announce	177

Topic	Page
One-Touch Keys	179
Onhook Dialling	181
Paging	181
Ringing Line Preference	183
Room Monitoring	183
Silent Monitor	185
Speed Dialling	187
Station Lockout	197
Step Call (Reset Call)	199
Timed Reminder Call	200
Trunk Access	201
Trunk Queuing	203
Universal Night Answer to Page	204
Voice Recognition	207
Volume Control	208
Walking TRS (Call Barring) Class of Service	209
Zip Mode	210

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Chapter 3. System Features

System Features are either available on a system-wide basis or aid in the overall administration of the System.

This chapter contains detailed descriptions of the following System Features:

Topic	Page
AEC Disconnect	22
Attendant Groups	22
Automatic Call Distributor	23
Automatic Route Selection	24
Automatic Trunk to Trunk Transfer	25
Background Music/MOH Separation	25
Battery Backup	25
Call Progress Tones	26
Caller ID	26
Caller ID Alpha Tagging	27
Centrex/PBX Compatibility	28
Class of Service	28
Class of Service - Trunk/Tie	28
Class of Service - Ext/Ext Restriction	29
Class of Service - Extension Feature	29
Class of Service - Trunk to Trunk Restriction	31
Class of Service - Extension (Station) Timers	32
Data Security	32
Daylight Saving Time	33
Day/Night System Mode	33
Manual Day/Night Mode	34
Automatic Day/Night Mode	36
Digital Pad	37
Direct Inward System Access	37
Distinctive Ringing	38
Doorphone	38
Doorphone Sensor	39
Extension Interface	39
Digital Telephones	40
Analog Device Capability	40
DP/DTMF SLTs	40
ISDN/BRI S-Point Interface	40

Topic	Page
ISDN/PRI S-Point Interface	41
Flexible Numbering Plan	41
Flexible Slot	42
Hunting Groups	42
Internal Hold Tone	44
MCO Tenant Group	44
Memory Backup	45
Music-on-Hold	45
Name Assignments	46
Extension Name Assignments	46
Speed Dial Name Assignments	50
Network Facilities	52
Network Attendant Reversion	52
Network Call Routing	52
Network Call Transfer	52
Network Centralized Voice Mail	53
Network Extension Calling	53
Network Flash Transfer	53
Network Hold	53
Network Paging	53
Network Transfer Recall	54
Tandem Connection	54
Non-Blocking Architecture	54
Power On Maintenance	54
Programming Devices	55
Telephone Programming	55
PC-Based Customizing Tool	55
QSIG ISDN Lines	55
Ringling Modes	56
Day 1/ Day 2/Night Ringing	56
Day 1/ Day 2/Night Delayed Ringing	57
DDI (DID) Day/Night Ringing	57
DDI (DID) Day/Night Busy/Delayed Ringing	57
Busy Lamp Field Ringing	57
Busy Lamp Field Delayed Ringing	58
Slide Ringing	58
Alarm Ringing	58

Topic	Page
Station Message Detail Recording (Call Logging)	59
System Speed Dial TRS (Call Barring) Override	61
Trunk Access Groups	62
Trunk Interface	62
Trunk Interface - DDI (Not Available on UK, TX or EX Model)	63
Trunk Interface - ISDN BRI	63
Trunk Interface - ISDN-PRI	63
Trunk Interface - Loop Start	63
Trunk Ringing Types	64
DDI Ringing	64
Direct Line Ringing	64
DIL Delayed Incoming Ring Enhancement	66
Direct Inward System Access Ringing	65
Multiple Ringing	67
Virtual Port	67
Virtual Port used for Floating Hold	67
Virtual Port used for Virtual Extension	67
Voice Mail Integration (Third Party)	68
Answer Supervision for Voice Mail	68
Call Forward ID Code for Voice Mail	68
CLI/DDI Voice Mail ID Code	69
Disconnect Signal	70
High Priority Message Waiting	70
Message Key ID Code	70
Voice Mail Transfer Key	71

AEC Disconnect

Description

This feature allows the System to send a disconnect signal of 1 second to an analog device indicating that the calling party has hung up (terminated the call). This feature is useful with a Third-party Voice Mail or an Answering Machine. By default this feature is disabled.

Hardware Requirements

- AEC port

Considerations

- The 1 second time duration of the disconnect signal is fixed. (It cannot be changed.)

Attendant Groups

Description

An attendant phone is often used as a central answering point for other extensions. In addition, attendant phones frequently have special capabilities for monitoring and programming extensions.

You can reach the assigned attendant group by dialling the feature access code for Attendant Calls (usually **0**). If an attendant phone is available but does not answer within a set time, the call will move to the next available attendant phone. If all members of the attendant group are busy for a specified time, the call can be forwarded to other extensions or another hunt group. The system allows up to 20 extensions to be included in an attendant group.

Hardware Requirements

- N/A

Considerations

- The System allows one attendant group for each system mode (Day 1, Day 2, and Night).
- An attendant group can contain both real extensions and virtual extensions. If virtual, several phones can be made to ring at the same time.
- Attendant groups can use only Pilot Terminal Hunt Group or Pilot Distributed Hunt Group. For more information, see “Hunting Groups” on page 42.
- The pilot number for an attendant group is flexible (i.e., any extension number can be designated as the pilot [not a real extension]).
- If a member of the attendant group has Do-Not-Disturb (DND) or Call Forwarding - All set, that phone is temporarily removed from the attendant group.
- If a member of the attendant group has Call Forwarding - Busy set and the extension is busy, the call goes to the next phone in the attendant group.
- If all members are busy for the duration of the busy queuing timer, the call can be forwarded to another hunt group or another extension.
- Attendant groups support the following call types:
 - CLI (Called Line Identification) / Direct Dial Inward (DDI)
 - Direct Inward System Access (DISA)
 - Extension calls

- Private network attendant calls
- Call reversion
- Call forwarded to Attendant Hunt Group

Automatic Call Distributor

CPC Version 4.5 and higher

Description

The System provides an optional Automatic Call Distributor (ACD) for efficient presentation, handling, and management of incoming calls to one or more groups of specialized users.

This optional Built-in ACD is contained on a single circuit card that is installed in the System. This “built-in” capability eliminates the need for custom wiring and other installation.

Each specialized user is known as an ACD agent. Each agent position is equipped with a large display telephone (VB-44225/VB-D411LDSUK) that provides Liquid Crystal Display (LCD) messages to assist the agent in handling calls.

The Built-in ACD provides:

- Up to 3 agent groups (ACD Version 3.0 and higher)
- Up to 2 agent groups (ACD Version below 3.0)
- Up to 32 agent IDs per group
- Up to 64 agent IDs per system (ACD Version 2.0 and higher)
- Up to 32 agents
- Up to 6 supervisor IDs per system (ACD Version 3.0 and higher)
- Up to 2 supervisor IDs per system (ACD Version below 3.0)
- Up to 4 voice ports per group
- Up to 4 voice ports per system
- 1 Music-On-Hold (MOH) source (Main System MOH source)
- 1 Management Information System (MIS) Monitor Port (RS-232C)
- Abandoned Call Report counter available with MIS reports (This is not the same as the Abandoned Call Timer added to the Station Message Detail Recorder [SMDR] reports.)
- 2-week memory for MIS reports
- Up to 6 recorded messages (flexible length, max. 96 sec. per system) (ACD Version 3.0 and higher)
- In Version 4.5 and higher, the Silent Monitor feature has been added. This feature allows an ACD supervisor to monitor a call between an ACD agent and a caller without the knowledge of either party. For more information, See “Silent Monitor” on page 185, Section 400 - *Programming*, and Section 520 - *Built-In ACD Reference Manual*.
- In addition to MOH, ACD Version 4.5 provides up to eight analog extension ports that can be connected to a recorded announcement device. See Section 520 - *Built-In ACD Reference Manual*.
- Up to 6 recorded messages (max. 14 sec. per message) (ACD Version below 3.0)
- Zip Tone, which automatically answers calls when an agent is using the Headset mode
- Wrap Mode which allows an agent to complete any paperwork before becoming available to take another call.

Hardware Requirements

- See *Section 520 - Built-In ACD Reference Manual*.

Considerations

- For more information, see *Section 520 - Built-In ACD Reference Manual*.

Automatic Route Selection

Description

When Automatic Route Selection (ARS) is enabled, the system follows a preselected route for calls. Usually the selected routing is the least cost route.

ARS works in conjunction with Toll Restriction Service (TRS) (Call Barring). Calls can be denied based on the programmed TRS (Call Barring) level for the originating party. (For more information, see “Ringing Modes” on page 56.)

- Three levels of ARS checking are available based on the dialled number following the ARS access code:
 - **Direct Route Selection:** The simplest form of ARS routing that upon ARS entry (enter **9**) directly selects a trunk group and any dialled number modification.
 - **Route List Selection:** A more complex routing that includes up to 5 alternative levels of route selection and includes TRS (Call Barring) level checking.
 - **Time List Selection:** The most complex routing that determines the appropriate route list based upon the day and time.
- Forced ARS is available on an Extension Class of Service (COS) basis.
- A special day list provides tailored ARS routing for up to 20 holidays, vacation days, etc.
- Automatic modification of dialled numbers is available. This includes deleting up to 24 prefix digits and adding up to a 10-digit prefix and a 10-digit suffix. The modification of dialled numbers can include pauses, Dual Tone Multifrequency (DTMF) conversion, itemized code (extension number) and an authorization code. (Itemized code and authorization are not used in some areas.)
- Up to 8 authorization codes are available.

Hardware Requirements

- N/A

Considerations

- N/A

Automatic Trunk to Trunk Transfer

Description

The System can be set to automatically transfer trunk calls out to another trunk without requiring the call to be answered internally. This transfer may be either trunk based or extension based (i.e., call forward outside).

Hardware Requirements

- N/A

Considerations

- N/A

Background Music/MOH Separation

Not available with CPC-HS

Description

Separate inputs are provided for Background Music and Music-on-Hold (MOH). This allows one music or sound source to be used for background music and another music or sound source to be used for music on hold.

A typical advantage of this is playing a pre-recorded promotional tape to held parties (since many may be customers) while providing a selected background music for use in the office.

Note: CPC-HS has only 1 input that is used for both BGM and MOH.

Hardware Requirements

- Both Background Music and Music on Hold (if using external MOH) require a sound source.

Considerations

- N/A

Battery Backup

Description

When backup batteries are installed, the System will continue to operate in the event of a power failure. If using Battery Backup, backup batteries must be installed in each CCU.

A fully loaded System will operate at least 15 minutes for the S-ICX .

Hardware Requirements

- Back-up battery unit (VB-44026)

Considerations

- Any device connected to the System but that does not derive its power from the System must have a backup power source to operate. These devices include any System Message Detail Recording (SMDR) (Call Logging) printer (or recorder), fax machine, answering machine, modem, cordless telephone, etc.

Call Progress Tones

Description

The System supplies a full array of call progress tones. These tones provide audible indications of the status of calls and include dial tone, busy tone, ringback tone, error tone, confirmation tone, and splash tone. The complete specification for these tones may be found in *Section 300 - Installation*.

In addition to call progress tones, Direct Station Select (DSS) Light Emitting Diodes (LEDs) and the display provide additional indication of the status of calls.

Hardware Requirements

- N/A

Considerations

- N/A

Caller ID

Description

(**Note:** Analog Caller ID is not available in the UK model).

A properly equipped system supports Caller ID, a service offered by the network telephone service provider. The Exchange sends calling number information to the system after the first ring. Users with display telephones can see Caller ID information as incoming calls ring at their extension. They can also access previous calls via the Caller ID Call Log feature. The Caller ID number is recorded in Call Logging.

Prior to Version 4.5, the system would not display Caller ID information for an extension that was in use when a call was received. In Version 4.5 or higher, Caller ID information is displayed on the second line of an LCD display when an incoming call is received during conversation. If the second incoming call is from another extension, the LCD displays the extension name or number.

Hardware Requirements

- ISDN (PRI = VB-44540UK, BRI = VB-44530UK).

Related Programming

- FF2-0: Caller ID
- FF2-0: Caller ID Ring Control
- FF3-0: Call Duration Display

- FF1-0-01: Alpha Tagging (Name/No. Display)

Considerations

- ISDN (PRI/BRI - T Point) can get calling party information.
- Caller ID service must be ordered from the local telephone operating company or the interexchange carrier.
- Caller ID data is usually sent between the first and the second rings of the incoming trunk call. The trunk may be programmed to immediately ring at the station or wait until after the Caller ID digits are received before ringing at the station. If the trunk is programmed to ring immediately, the Caller ID digits will not display until after they are received and processed.
- Caller ID numbers may be denied from being sent for some callers (private). Some long distance carriers may not provide Caller ID data (out of area).
- Caller ID only support the single format (number only). Multiple format (number and name) is not supported.
- Prior to Version 4.5, Caller ID supported only the number format. Version 4.5 and higher supports selection of the number or name.
- In Version 4.5, Caller ID displays the highest ringing priority call (call queued to ring at the target extension immediately after the present call terminates).

Caller ID Alpha Tagging

Description

If the received Caller ID phone number matches any number in the System Speed Dials (SSD) (SSD000-SSD199), then the associated SSD name can be displayed as the Caller ID information instead of the Caller ID phone number. Alternatively, the Direct Dial Inward (DDI) name may be displayed instead.

In Version 4.5 and higher, Caller ID information will be shown on the second line of the LCD display when an incoming call rings a display phone with a conversation already in progress. Second incoming calls include extension Camp-on, extension Call Wait, queued DIL, both Appearance and non-Appearance calls (Exchange Line, MCO, virtual or DN, recall, BLF).

Hardware Requirements

- ISDN (PRI = VB-44540UK, BRI = VB-44530UK)

Considerations

- The system may be set to display Caller ID in one of two priorities as follows:

Priority Choice 1

- CID name (future feature)
- Alpha tagging if matched
- DDI name

Priority Choice 2

- DDI name
- CID name (future feature)

- Alpha tagging if matched
- Currently Caller ID only supports the single format (number only). Multiple format (number and name) is not currently available but is planned as a future feature.
- Caller ID Call Logging only shows the CID number.

Centrex/PBX Compatibility

Description

Centrex/PBX Compatibility allows the System to be connected behind centrex or PBX lines.

The System supports up to 6 access codes for dialling centrex or a PBX. These access codes allow the System, System Message Detail Recording (SMDR) (Call Logging) output to exclude the number dialled to reach a centrex or PBX line.

When connected behind a PBX or Centrex, Toll Restriction Service (TRS) (Call Barring) can be used to restrict calls.

The System also supports transmission of a flash signal over the centrex or PBX link.

Hardware Requirements

- N/A

Considerations

- N/A

Class of Service

Description

A Class of Service (COS) allows or restricts access to a group of features or functions. For instance, an Extension COS may allow Call Forwarding features. In the System, both extensions and trunks use classes of service.

The System supports the following COSs for trunks and extensions:

- COS - Trunk/Tie
- COS - Ext/Ext Restriction
- COS - Extension Feature
- COS - Trunk to Trunk Restriction

Class of Service - Trunk/Tie

Tie/Trunk COS allows or restricts access to various features. Each trunk is assigned to one of 16 trunk classes of service (**00-15**).

The following table shows the features that can be enabled/disabled for each trunk COS.

Table 4. Trunk COS

Number	Feature
1	Intercom Ringing Tone (trunk or intercom ring tone)
2	Dial Tone to Tie Lines (Enable/Disable)
3	Forced Recover on Fast-Busy Tone (Send fast busy or disconnect line)
4	DDI Dialed Number Conversion Table (DDI/CLI Table A or B)
5	Paging on DISA/Tie-Line Call (Allow/Restrict)
6	DISA Security Code Verification
7	Network Flash Forwarding
8	Network Flash Receive
9	Brokers Hold for Network Calls
10	Priority Message-Waiting Set/Cancel
11	Network-to-Network Transfer
12	Camp-On for Tie-Lines

Hardware Requirements

- N/A

Considerations

- N/A

Class of Service - Ext/Ext Restriction

Ext/Ext Restriction COS allows or restricts calls placed to other extensions based upon the Extension COS. Each Extension COS is programmed to either originate or not originate calls to another Extension COS.

Hardware Requirements

- N/A

Considerations

- N/A

Class of Service - Extension Feature

Extension COS allows or restricts access to certain extension features. (The extension features are described later in this manual.) Each extension is assigned to one of 16 classes of service (**00-15**).

The following table shows the features that can be enabled/disabled for each Extension COS.

Table 5. Extension COS

Class of Service Features	
Number	Feature
1	Intercom Call Type (Tone/Voice)
2	Onhook Transfer at Ringback (Allow/Restrict)
3	Onhook Transfer at Talk (Allow/Restrict)

Class of Service Features	
4	On-Hook Transfer at Camp-On (Allow/Restrict)
5	Exclusive Hold for Non-Appearing trunk (System/Exclusive)
6	Exclusive Hold on SLTs (System/Exclusive)
7	Brokers Hold on SLTs (3-Party Conference/Brokers)
8	Hookflash During Talk on SLTs (Allow/Restrict)
9	SSD Assignment (Allow/Restrict)
10	SSD Assignment to MCO Tenant Groups (Allow/Restrict)
11	SSD Dialling (Allow/Restrict)
12	Intercom Redialing (Allow/Restrict)
13	Direct Trunk Access (Allow/Restrict)
14	MCO Incoming Call Answer (Allow/Restrict)
15	Paging (Allow/Restrict)
16	Auto Repeat Dial (Allow/Restrict)
17	DND Set/Clear (Allow/Restrict)
18	DND Set/Clear (Other) (Allow/Restrict)
19	Call Forward/All Calls (Allow/Restrict)
20	Call Forward/No Answer (Allow/Restrict)
21	Call Forward-Busy (Allow/Restrict)
22	Call Forward (Other) (Allow/Restrict)
23	User Maintenance Log-in (Allow/Restrict)
24	Priority Message Waiting Send (VM) (Allow/Restrict)
25	Message Waiting Send (Allow/Restrict)
26	System Mode Switch (Allow/Restrict)
27	Busy Override Send (Allow/Restrict)
28	Manual Camp-On Send (Allow/Restrict)
29	Manual Camp-On Receive (Allow/Restrict)
30	Callback Request Send (Allow/Restrict)
31	Callback Request Receive (Allow/Restrict)
32	Trunk Queuing (Allow/Restrict)
33	Manual DND Override Send (Allow/Restrict)
34	Forced DND Override (Allow/Restrict)
35	8-Party Conference (Allow/Restrict)
36	Voice Call Send (Allow/Restrict)
37	Voice Call Receive (Allow/Restrict)
38	Dial Tone Stop (Allow/Restrict)
39	Dial Tone Pre-Pause Check (Check/No check)

Class of Service Features	
40	Long Talk Alarm for Outgoing trunk Calls (Enable/Disable)
41	Recall Timer Apply (Recall to Extension/Recall to Attendant)
42	Forced ARS (Not Forced/Forced)
43	API Event Reporting (No/Yes)
44	Call Forward/Outside (Allow/Deny)
45	Onhook Trunk-to-Trunk Transfer (Allow/Deny)
46	Station Call Park Answer (Allow/Deny)
47	Station Call Park Transfer (Allow/Deny)
48	OHVA (Allow/Deny)
49	OHVA Answer (Allow/Deny)
50	Call-Waiting Answer at HOLD
51	On-Hook Transfer with Floating Hold
52-54	Not Used
55	Station Lockout (Own)
56	Station Lockout (Other)
57	Absence Message Set
58	UNA Pickup
59	Intercom Ring Tone at Trunk
60	BGM Access
61	CFD Setting For a PDN By Pressing the NPDN
62	Busy Override
63	Silent Monitor Initiate
64	Silent Monitor Receive
65	Recall Pickup

Hardware Requirements

- N/A

Considerations

- N/A

Class of Service - Trunk to Trunk Restriction

Trunk to Trunk COS allows or restricts call transfers from one trunk to another trunk based on the originating and receiving trunk COS.

Hardware Requirements

- N/A

Considerations

- N/A

Class of Service - Extension (Station) Timers

Extension functions may use system-wide timers or Station Timer Class settings. Up to eight Station Timer Classes may be specified. Then an extension may be assigned a Station Timer Class.

The following table shows the extension timers that may be assigned on a class basis.

Table 6. Station Timer Class

Number	Station Timer
1	Hold Recall Timer (KTEL)
2	Hold Recall Timer (SLT)
3	Transfer Recall Timer (KTEL and SLT)
4	Hold/Transfer Recall Ringing Timer
5	Call Park Recall Timer
6	Call Forward No Answer Timer (Day 1)
7	Call Forward No Answer Timer (Day 2)
8	Call Forward No Answer Timer (Night)
9	Floating Hold Recall Timer

Hardware Requirements

- N/A

Considerations

- N/A

Data Security

Description

If you are using a line for data (modem connections, etc.), Data Security makes it possible to prevent interruptions. Data Security can be implemented for either all phone use or outside line use.

Hardware Requirements

- N/A

Considerations

- N/A

Daylight Saving Time (Summer Time)

CPC Version 4.5 and higher

Description

The Daylight Saving Time feature allows you to program the S-ICX so that it automatically adjusts the system's internal timeclock forward or back on specific days of the year. This time change is then reflected on the phone's display (Key Telephone only).

Depending on the day of the year, the system will set the time according to the following:

Day of the year	System Action
Third Sunday in March	System clock adds one hour to current time at 2 a.m.
Last Sunday in October	System clock subtracts one hour from current time at 2 a.m.

Hardware Requirements

- N/A

Related Programming

- N/A

Considerations

- Daylight Saving Time can only be enabled or disabled in system programming. See *Section 400: Programming* for more information.

Day/Night System Mode

Description

Day/Night System Mode enables you to switch the System between two Day modes and a Night mode. These modes determine incoming call handling, Toll Restriction Service (TRS) (Call Barring) call handling, and attendant group support.

While in a Night mode (generally used at night or any time when your office is closed), incoming calls can ring at selected extensions (e.g., a night watchman's extension or an extension connected to an answering machine). Outbound calls can be restricted to certain phones. Calls can be directed to a night-time attendant group instead of the normal daytime attendant group.

The System provides one Night mode for night call handling. However, there are three night feature access codes (Night, Night 1, and Night 2). These three codes may be used to provide different two-way Voice Mail messages (i.e., Night may select one message, Night 1 may select a different message, and Night 2 may select a third message.)

Typically, the Day mode is used for normal call processing of outside calls, TRS (Call Barring) calls, and attendant calls. The second day mode (Day 2) may be used for alternative call handling such as during a lunch break, etc.

There are two ways to change day/night service modes:

- Manually
- Automatically

The following table lists the impact on TRS (Call Barring), Ringing, Attendant, and Built-in Voice Mail in the various system modes:

Table 7. System Mode Impact on TRS (Call Barring), Ringing, Attendant, and Built-in Voice Mail

SYSTEM MODE	TRS (Call Barring)	RING	ATTENDANT	BUILT-IN VOICE MAIL
Day 1	Day TRS Mode	Day 1 Ring Pattern	Day 1 Attend. Group	Day 1 Message
Day 2	Day TRS Mode (Same for Day 1 and Day 2)	Day 2 Ring Pattern	Day 2 Attend. Group Handling	Day 2 Message
Night	Night TRS Mode (Same for Night 1, and 2)	Night Ring Pattern (Same for Night 1, and 2)	Night Attend. Group (Same for Night 1, and 2)	Night Message
Night 1	Night TRS Mode (Same for Night 1, and 2)	Night Ring Pattern (Same for Night 1, and 2)	Night Attend. Group (Same for Night 1, and 2)	Night 1 Message
Night 2	Night TRS Mode (Same for Night 1, and 2)	Night Ring Pattern (Same for Night 1, and 2)	Night Attend. Group (Same for Night 1, and 2)	Night 2 Message

Manual Day/Night Mode

You can manually change the System mode to Day 1, Day 2, Night, Night 2, or Night 3 mode by either entering the correct dial code or by pressing the appropriately programmed FF key.

When using manual mode, the System may be configured to either use MCO tenant Day/Night modes or system-wide Day/Night mode.

Operation

To switch Day 1/Day 2/Night modes using Feature Access Codes:

Switch Mode	Procedure	Indication
Toggle Day 1, Day 2 and Night Modes	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 760 (UK/HK) or 760# (Taiwan, Malaysia, Indonesia).	
	3. Press the ON/OFF key	ON/OFF LED goes off If changing to Night mode, Red LED lights If changing to Day mode, Red LED goes off
Day 2 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 761 (UK/HK) or 761# (Taiwan, Malaysia, Indonesia) for the Day 2 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Green LED lights

Switch Mode	Procedure	Indication
Night 1 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 762 (UK/HK) or 762# (Taiwan, Malaysia, Indonesia) for the Night 1 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Red Night LED lights
Night 2 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 763 (UK/HK) or 763# (Taiwan, Malaysia, Indonesia) for the Night 2 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Red Night LED lights

To switch Day 1/Day 2/Night modes using Feature Access Codes:

Switch Mode	Procedure	Indication
Toggle Day 1, Day 2 and Night Modes	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 760 (UK/HK) or 760# (Taiwan, Malaysia, Indonesia).	
	3. Press the ON/OFF key	ON/OFF LED goes off If changing to Day 2 mode, Green LED lights If changing to Night mode, Red LED lights If changing to Day 1 mode, LED goes off
Day 2 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 761 (UK/HK) or 761# (Taiwan, Malaysia, Indonesia) for the Day 2 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Green LED lights
Night 1 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 762 (UK/HK) or 762# (Taiwan, Malaysia, Indonesia) for the Night 1 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Red Night LED lights

Switch Mode	Procedure	Indication
Night 2 Mode	1. Press the ON/OFF key.	Intercom dial tone ON/OFF LED lights
	2. Enter 763 (UK/HK) or 763# (Taiwan, Malaysia, Indonesia) for the Night 2 Feature code.	
	3. Press the ON/OFF key	ON/OFF LED goes off Red Night LED lights

Hardware Requirements

- N/A

Considerations

- Day and Night modes can be assigned to FF keys on a phone. You can switch between Day 1, Day 2, Night, Night 1, and Night 2 modes simply by pressing the appropriate key. The FF key lights red when the System is in the assigned mode. Alternatively a Day/Night toggle mode key can be assigned. Pressing the key toggles between modes. When in Day mode, the FF key LED is not lit. When in Night mode, the LED lights red.
- Day 1/Day 2/Night toggle mode key can be assigned. Pressing the key toggles between modes. When in Day 1 mode, the FF key LED is not lit. When in Day 2 mode, the LED lights green. When in Night mode, the LED lights red.
- Day/Night toggle mode key can be assigned. Pressing the key toggles between modes. When in Day mode, the FF key LED is not lit. When in Night mode, the LED lights red.

Automatic Day/Night Mode

You can set the System to automatically enter a particular Day/Night mode determined by the time of day. Each day of the month can be assigned 1 of 3 automatic system mode patterns. Each of the patterns can be set to change modes up to 5 times per day.

Up to 20 special days can be programmed with up to 5 automatic mode changes for the day.

An Exception Day period is available for overriding the automatic mode for extended periods of time. For instance, if an office is shut down for the week of July Fourth, the System can be programmed to not operate in the automatic mode for those days. The System will stay in the same mode for the period. The mode may be manually changed at any time.

For instance, the System can be set to automatically enter Day 1 mode at 8:00 a.m. on weekdays and enter Night mode at 5:00 p.m. on weekdays. All incoming calls, TRS (Call Barring) and attendant group handling would change accordingly. On Saturday and Sunday, the System would stay in Night mode.

The Automatic Day/Night modes may be set in User Maintenance. See “Set Mode Schedule” on page 87, “Set Special Day Mode” on page 96, “Set Exception Day Mode” on page 83, and “Set Day of Week Mode” on page 81.

Hardware Requirements

- N/A

Considerations

- You can only set Automatic Day/Night modes on a system-wide basis. If tenant groups require separate Day/Night modes, you must set these modes manually.

- You can manually override Automatic Day/Night modes. (See “Manual Day/Night Mode” on page 34.)

Digital Pad

Description

Digital pad settings allow adjustment of call levels for different call types. There are 29 pad classes in the System. For pad class, a volume adjustment is assigned for a connection to any pad class assignment. The volume adjustment is between -30dB and +30 dB.

There are 8 extension pad classes and 16 trunk pad classes. In addition, there are pad classes for conference calls, page port, MFR, RAI Modem, and Conference Call Unit. One pad class is currently not used.

For instance, a call from an extension assigned to extension pad class 1 to a trunk assigned to trunk pad class 3 would received the volume adjustment assigned to this connection combination.

Hardware Requirements

- N/A

Considerations

- N/A

Direct Inward System Access

Description

Direct Inward System Access (DISA) gives off-site users dial-in access to the System. You access DISA from an outside location by entering a digit number assigned to a DISA trunk.

For security reasons, sixteen incoming DISA ID codes/Toll Restriction Service (TRS) (Call Barring) class can be assigned. If a code is assigned, it must be entered as soon as the DISA trunk answers.

Operation

To make a DISA call to an extension:

Action	Result
1. From an outside location, enter the DISA trunk number.	DISA dial tone
2. If an incoming DISA code is assigned enter the DISA code (up to 10 digits). Otherwise, proceed to step 3.	
3. Dial the extension number.	

To make a DISA call to an outside number:

Action	Result
1. From an outside location, enter the DISA trunk number.	DISA dial tone
2. If an incoming DISA code is assigned enter the DISA code (up to 10 digits). Otherwise, proceed to step 3.	
3. Enter the trunk group number (9 [UK/HK], 0 [Taiwan, Indonesia, Malaysia], or 81-84)	
4. Dial the phone number.	

Hardware Requirements

- N/A

Considerations

- Busy override cannot be used for a DISA line.
- DISA can be used to access extensions as well as outside numbers.
- Paging cannot be accessed from a DISA line.
- While dialling an extension number, the * key may be entered to cancel dialling and return to dial tone. The # key may be entered to disconnect.

Distinctive Ringing

Description

Distinctive Ringing sets trunk calls to ring with a distinctive ring based on the trunk. This “ring” also identifies the call as an outside call instead of an inside call.

Calls to a key telephone or Digital Single Line Telephone (DSLTL) can also be set to Distinctive Ringing on an extension basis.

Hardware Requirements

- N/A

Considerations

- N/A

Doorphone

Description

The doorphone allows visitors to announce their presence from the office door, etc. When the button on the doorphone is pressed, one or more phones ring in the System. When answered, a two way conversation is made between the doorphone and the answering phone.

The answering party can operate a connected door opener (if equipped).

Operation

To answer a doorphone:

Action	Result
1. Answer the doorphone. (Door box calls ring in on a dedicated FF key.)	Two way conversation possible
2. Enter 3 while connected to the doorphone extension.	Door unlocks

Hardware Requirements

- The doorphone requires a Doorphone Adaptor, Doorphone, and Door Opener. Door openers are not sold by Panasonic; however, they can be purchased from an electronics dealer.
- Up to 2 Doorphones can be connected to a Doorphone Adaptor and utilize the same trunk.
- The Door Opener can be set to open for 15 seconds, 30 seconds, or one minute.
- While the Door Opener is functioning, a call from another Doorphone on the same Doorphone Adaptor cannot be answered.

Considerations

- The trunk connected to the Doorphone Adaptor must be set to dial pulse (DP).

Doorphone Sensor

The sensor is a device that detects when a circuit is opened or closed. Sensors can be used to detect events such as the opening of windows or doors. When the sensor is tripped, a tone sounds at a designated extension. Sensors are not sold by Panasonic; however, they can be purchased separately from an electronics dealer.

Hardware Requirements

- The sensor is attached to the Doorphone Adaptor (VB-3473UK).
- Trunks connected to the Doorphone Adaptor signal the designated extension when the sensor is tripped.

Considerations

- The trunk connected to the sensor must be a dial-pulse (DP) trunk.

Extension Interface

The System supports a full array of extension devices including the following:

- Panasonic's proprietary key telephones
- Standard analog devices
- Dial Pulse (DP) / Dual Tone Multifrequency (DTMF) Single Line Telephone (SLT)
- Integrated Services Digital Network (ISDN) - Basic Rate Interface (BRI) S-point devices
- ISDN-Primary Rate Interface (PRI) S-point devices

Digital Telephones

The S-ICX supports a variety of Panasonic proprietary Digital Key Telephones. These models include:

Interface Card Type	VB-44660 APEC/8 Åñ	VB-44660 APEC/8 Åñ	VB-44610 DEC/8 VB-44612 DEC/16 VB-44613 DEC/24
Model of Telephones connected via interface card	A series telephone VA-30920 VA-12020 VA-12022	SBS telephones VB-9211 VB-9211DS VB-9411 VB-9411DS VB-9411ADS	DBS/ICX telephones VB-3411 VB-3411DS VB-3411LDS VB-3611D VB-D411 VB-D411DS VB-D411DSV VB-D411LDS VB-D611D VB-D611DS

Note: Some features may not be available due to limitations of legacy equipment.

- N/A

Considerations

- VB-44220 is not available in Hong Kong.
- VB-44221 is not available in Taiwan, Malaysia, and Indonesia.

Analog Device Capability

The System supports analog telephone devices. These devices include fax machines, answering machines, cordless telephones, computer modems as well as standard rotary and push button telephones. This provides full flexibility in configuring the System.

Hardware Requirements

- Analog devices must be connected to an analog port.

Considerations

- N/A

DP/DTMF SLTs

The System supports both DP (rotary dial) and DTMF (push button) analog extension types.

Hardware Requirements

- N/A

Considerations

- The CPC card provides 4 DTMF receivers. Traffic levels may require that one or more MFR (DTMF) circuit cards be installed. Each MFR card provides 8 DTMF decoders.

ISDN/BRI S-Point Interface

The System supports ISDN-BRI terminal devices for connection as extensions. The BRI provides 2 B (bearer) plus 1 D (data) channel support (2B +D; 144kbps or 192 kbps).

Hardware Requirements

- N/A

Considerations

- N/A

ISDN/PRI S-Point Interface

UK/Malaysia/Indonesia: The System supports Integrated Services Digital Network (ISDN) Primary Rate Interface (PRI) terminal equipment with the ISDN/PRI S Point Interface (VB-44540UK). The primary rate interface provides 30B (bearer) plus one D (data) channel support (30B +D; 1984kbps).

Fully used cards occupy 1 slot for the S-ICX.

HK/Taiwan: The System supports ISDN-PRI terminal equipment with the ISDN/PRI S Point Interface (VB-44540). The PRI provides 23 B (bearer) plus 1 D (data) channel support (23B + D; 1544 kbps).

Fully used cards occupy 1 slot for the S-ICX.

Hardware Requirements

- N/A

Considerations

- N/A

Flexible Numbering Plan

Description

The System provides flexible numbering for feature access special numbers and extension numbers.

The dialling plan allows settings for digits dialled at dial tone, digits dialled at ringback tone, digits dialled at busy tone, two patterns of feature codes dialled at dial tone, two patterns of feature codes dialled at ringback tone, and two patterns of feature codes dialled at busy tone.

Feature access codes can be used when replacing another PBX system with an S-ICX system. Rather than learning the new access codes, the System feature access codes can be changed to match the old system. As a result, telephone users are less confused by the change and the requirement for retraining is reduced. Two sets of feature access codes are available (one of the two must be assigned to the terminal).

Hardware Requirements

- N/A

Considerations

- N/A

Flexible Slot

Description

The CCU in the S-ICX system contains 5 free slots. These slots can be used for trunk cards, extension cards, or certain option cards.

Hardware Requirements

- N/A

Considerations

- N/A

Hunting Groups

Description

Hunting allows calls to be automatically transferred among a preselected group of phones. If a phone is busy or there is no answer in a set amount of time, the call will hunt to the next phone in the hunt group.

A phone assigned to a hunt group is called a member. Up to 20 members can be assigned to a hunt group. Up to 12 hunt groups are available per CCU.

Several methods of station hunting are available. Some methods require use of a pilot number (a fictitious extension number) while others start by a direct call to a hunt group member.

The System supports the following hunting groups:

- Pilot Terminal Hunt Group
- Pilot Distributed Hunt Group
- Switch Back Hunt Group
- Circular Hunt Group
- Next Extension/Hunt Group

Pilot Terminal Hunt Group

Pilot Terminal Hunt Group directs calls to a pilot number. The System begins with the first member and hunts through the group for the first available member to receive the call. If no member is available (extension is busy or there is no answer for a specified amount of time), the call is queued for the first member to become available. You can also set the Queuing Timer to specify how long the System will search the initial hunt group before beginning to search the next hunt group or extension.

The main advantage of this type of hunting is that the same hunting order is taken for all calls. This is useful in presenting calls to selected members first.

Pilot Distributed Hunt Group

Pilot Distributed Hunt Group directs calls to a pilot number. The System reviews who received the last call and begins hunting with the next member. If the last member in the group is reached and no member is available, the hunt continues with the first member and proceeds forward. After a complete search and no available member is found (extension is busy or there is no answer for a specified

amount of time), the call is queued for the first member to become available. You can also set the Queuing Timer and specify how long the System will search the initial hunt group before beginning to search the next hunt group or extension.

The main advantage of this type of hunting is that calls are evenly distributed throughout the group.

Switch Back Hunt Group

Switch Back Hunt Group initiates hunting in a specified group for calls made to a member extension in the group. If the called member of the hunt group is busy, the System begins hunting forward to the end of the group. If no member is available, the system hunts backward from the called member. If no member is available (extension is busy or there is no answer for a specified amount of time), the call is queued for the first member to become available. You can also set the Queuing Timer and specify how long the System will search the initial hunt group before beginning to search the next hunt group or extension.

The main advantage of this type of hunting is that calls can be directed to start with a selected portion of the hunting group based on the directed number. However, all members are eventually searched.

Circular Hunt Group

Circular Hunt Group initiates hunting in a specified group for calls made to a member extension in the group. If the called member of the hunt group is busy, the System begins hunting forward to the end of the group and then moves forward from the first member of the group. If no member is available (extension is busy or there is no answer for a specified amount of time), the call is queued for the first member to become available. You can also set the Queuing Timer and specify how long the System will search the initial hunt group before beginning to search the next hunt group or extension.

The main advantage of this type of hunting is that calls can be directed to start with a selected portion of the hunting group based on the directed number. However, all members are eventually searched.

Next Extension/Hunt Group

Next Extension/Hunt Group lets you specify which extension or hunt group to search after the Queuing Timer expires. This hunt group can be set as any type of hunt group, an attendant group, or an extension (including virtual extensions).

Hardware Requirements

- N/A

Considerations

- If a member of the hunt group has Do-Not-Disturb (DND) or Call Forwarding - All set, that phone is temporarily removed from the hunt group.
- If a member of the hunt group has Call Forwarding - Busy set and the extension is busy, the call goes to the next phone in the hunt group.
- If all members are busy for the duration of the busy queuing timer, the call can be forwarded to another hunt group or another extension.
- A hunt group can contain both real extensions and virtual extensions. If virtual, several phones can be made to ring at the same time.
- The pilot number for a hunt group is flexible (i.e., any extension number can be designated as the pilot [not a real extension]).
- Hunt groups support the following call types:
 - CLI (Called Line Identification) / Direct Dial Inward (DDI)
 - Direct Inward System Access (DISA)

- Extension calls
- Private network attendant calls
- Call forward incoming
- Call forwarded to Attendant Hunt Group
- For Version 4.5 and higher, a queuing wait timer allows you to queue calls in a Hunt Group for a fixed period of time. When the call has passed through the Hunt Group once, the timer is activated and the call is re-routed to the top of the group. The system continues to hunt for an available agent until the timer limit expires, and the call is diverted to another location.

Internal Hold Tone

Description

If a Music-on-Hold (MOH) sound source is unavailable, a periodic hold tone generated internally in the System can be provided to a caller. For more information, see “Music-on-Hold” on page 45.

Hardware Requirements

- N/A

Considerations

- N/A

MCO Tenant Group

Description

When the System is configured for tenant operation, MCO Tenant Group determines which trunk groups are used for incoming and outgoing calls.

Each MCO trunk group is assigned to an MCO tenant group for incoming calls and for outgoing calls. By default, Trunk Group 1 is assigned to MCO Tenant Group 1, Trunk Group 2 is assigned to MCO Tenant Group 2, etc. for both incoming and outgoing calls.

For outgoing calls, each tenant group has 5 auto-trunk selections available. By default the first auto-trunk selection is seized by entering **9**, the second by entering **81**, etc.

The number of MCO tenant groups available depends on the number of ports in the system as follows:

- S-ICX: 1 to 12 MCO tenant groups

Hardware Requirements

- N/A

Considerations

- When you first assign a trunk to Trunk Tenant Group from the initial setting of (0), the system automatically assigns the trunks as a member of the same number MCO Trunk Group (FF5-2 and FF5-3). For instance, if Trunk 10 is assigned as a member of Trunk Tenant Group 1, then Trunk

10 is automatically assigned as a member of MCO Outbound Trunk Group 1 and MCO Inbound Trunk Group 1. These assignments can be manually changed if desired.

Memory Backup

Description

Data stored in the CPC card can be copied to another CPC card in the OP2 card slot for the first CCU. This is particularly useful when performed after completion of initial system setup (as a recovery measure) or before major changes are made to system configuration. This backup CPC can then be used to immediately restore system operation.

This feature is a maintenance feature to be performed by the System certified dealer only.

Hardware Requirements

- A second CPC card that matches the type installed must be used to copy the memory.

Considerations

- N/A

Music-on-Hold

Description

The System can provide Music-on-Hold (MOH) to parties on hold (either trunk, extension, or network party). The MOH feature can also be used to play announcements or advertisements if desired.

Note: CPC-HS has only 1 input that is used for both BGM and MOH.

Hardware Requirements

- The music source must be purchased separately. It is not provided with the System.

Considerations

-



Important: A license may be required from the Society of Composers, Authors, and Publishers (ASCAP) or similar organizations to transmit radio or recorded music through the MOH feature. Panasonic, its distributors, and affiliates assume no liability should users of Panasonic equipment fail to obtain such a license.

Name Assignments

Description

Names may be assigned to the following:

- Extensions
- Trunks
- Direct Dial Inwards (DDIs)
- Personal Speed Dials (PSDs)
- Systems Speed Dials (SSDs)

Trunk names and DDI names must be assigned in dealer programming mode. Extension names and Speed Dial names may be assigned from a display telephone.

This feature does not require the use of a DSS/72 console or entering the programming mode.

Extension Name Assignments

Extension names can be up to 10 characters in length. (Assignment of extension names must be allowed in the Extension COS.)

Operation

To set extension names using a large-display or small-display phone:

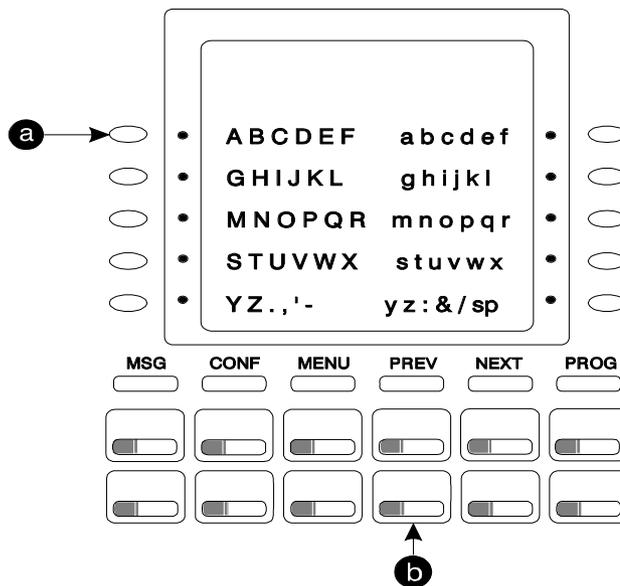
Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the * key.	
4. Enter 2 for the Extension Name Assignment mode.	EXT NO.=> EXT NAME displays
5. Enter the extension number.	
6. Press the HOLD key.	XXX A B C D E F XXX displays (where XXX = extension number)
7. Press the FL/R key to clear the existing data.	A B C D E F XXX displays (where XXX = extension number)
8. Enter the extension name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 47.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 48.) 	

Action	Result
9. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See “Example 1. Large-Display Phone” on page 47. • See “Example 2. Small-Display Phone” on page 48. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
10. Repeat steps 7-8 as many times as necessary to enter the desired extension name. Note: Press the FL/R key to clear the entire entry.	
11. Press the HOLD key when finished.	Next extension number displays
12. To enter another extension name, press the CONF key and repeat steps 5-11.	EXT NO.=> EXT NAME displays

Example 1. Large-Display Phone

To enter **D**:

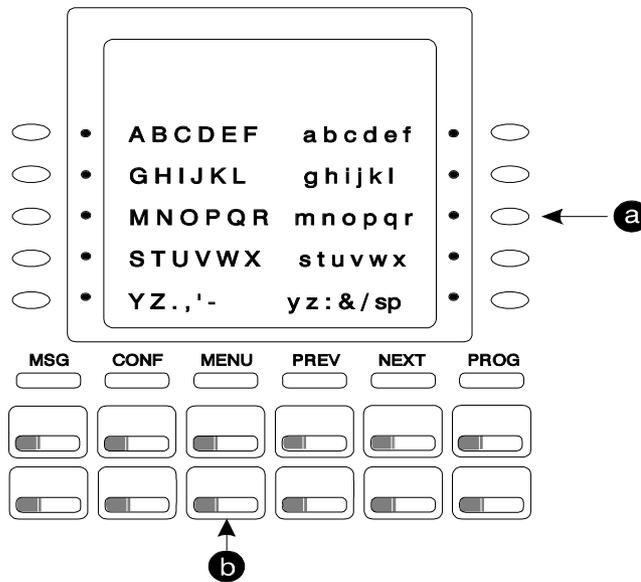
- a. Press the first soft key on the top left.
- b. Press the fourth FF key from the left on the bottom row.



To enter **o**:

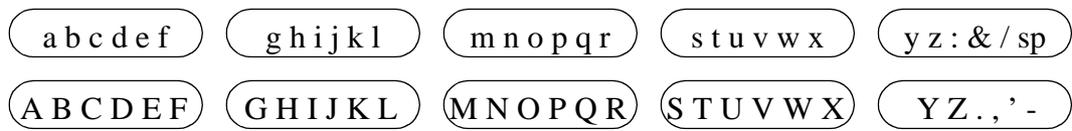
- a. Press the third soft key from the top right.

- b. Press the third FF key from the left on the bottom row.



Example 2. Small-Display Phone

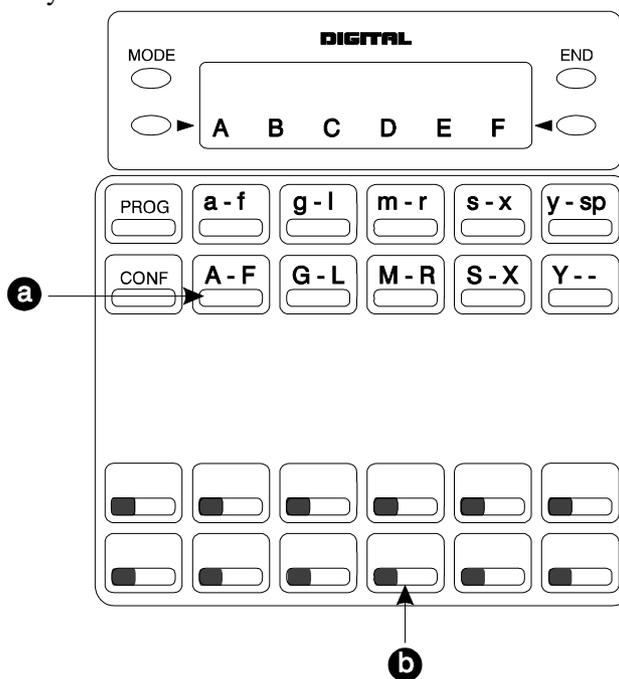
Refer to the following diagram to determine which one-touch key to press. (See step 7-8 above.)



To enter **D**:

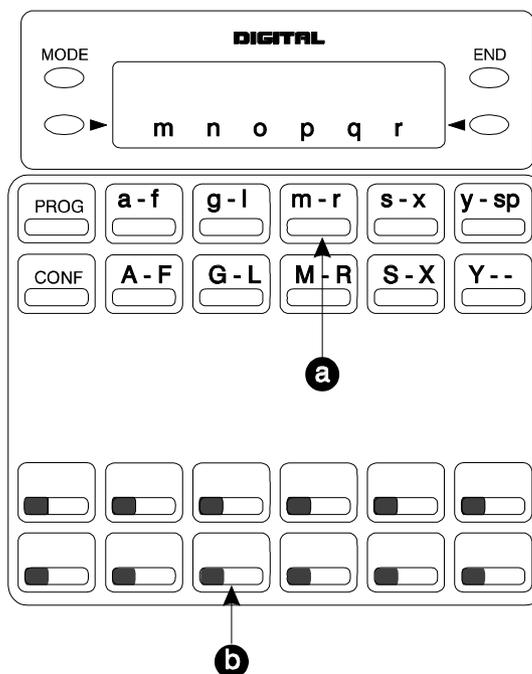
- a. Press the first one-touch key from the left on the bottom row.

- b. Press the fourth FF key from the left on the bottom row.



- To enter **o**:

- a. Press the third one-touch key from the left on the top row.
- b. Press the third FF key from the left on the bottom row.



Hardware Requirements

- N/A

Considerations

- Extension names can be up to 10 characters in length.
- The ability to make extension name assignments is allowed/restricted to anyone with a Class of Service (COS) that allows access to User Maintenance features. (See Chapter 4, “User Maintenance” of this document.)

Speed Dial Name Assignments

You can assign names to PSD numbers from a display telephone without entering the programming mode. If allowed in the Extension COS, you can also assign names to SSD numbers.

Operation

PSD Names:

To set PSD names using a large-display or small-display phone:

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Press the PROG key.	
3. Press the * key.	
4. Enter 0 for the PSD Name Assignment mode.	A B C D E F P80 displays (where P80 = PSD bin 80)
5. Press the up or down arrow key to display the desired PSD bin number.	A B C D E F PXX displays (where PXX = desired PSD bin number)
6. Enter the extension name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 47.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 48.) Note: Press the FL/R key to clear any existing data	
7. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See “Example 1. Large-display phone” on page 47. • See “Example 2. Small-display phone” on page 48. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
8. Repeat steps 6-7 as many times as necessary to enter the desired PSD name. Note: Press the FL/R key to clear the entire entry.	
9. Press the HOLD key when finished.	Next PSD bin number displays
10. To enter another speed dial name repeat steps 5-9.	

SSD Names:**To set SSD names using a large-display or small-display phone:**

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Press the PROG key.	
3. Press the * key.	
4. Enter 1 for the SSD Name Assignment mode.	SSD NO.=> SSD NAME displays
5. Enter the speed dial bin number (00-79 or 000-799).	
6. Press the HOLD key.	-SSDXXX A B C D E F XXX displays (where XXX = specified SSD bin number)
7. Press the FL/R key to clear the current data.	A B C D E F XXX displays (where XXX = specified SSD bin number)
8. Enter the speed dial name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 47.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 48.) 	
9. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See “Example 1. Large-display phone” on page 47. • See “Example 2. Small-display phone” on page 48. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
10. Repeat steps 8-9 as many times as necessary to enter the desired SSD name. Note: Press the FL/R key to clear the entire entry.	
11. Press the HOLD key when finished.	Next SSD bin number displays
12. To enter another speed dial name, press the CONF key and repeat steps 5-11.	SSD NO.=> SSD NAME displays

Hardware Requirements

- N/A

Considerations

- PSD names can contain a maximum of 7 characters. SSD names can contain a maximum of 16 characters.

- The ability to make extension name assignments is allowed/restricted to anyone with a Class of Service (COS) that allows access to User Maintenance features. (See Chapter 4 “User Maintenance” of this document.)

Network Facilities

Description

The System supports networking facilities such as:

- Network Attendant Reversion
- Network Call Routing
- Network Call Transfer
- Network Centralized Attendant
- Network Centralized Voice Mail
- Networking Extension Calling
- Network Flash Transfer
- Network Hold
- Network Paging
- Network Transfer Recall
- Tandem Calling

For more information on System Networking, see the *System Networking Reference Manual*.

Network Attendant Reversion

Network Attendant Reversion enables calls to revert to the attendant in the same CCU. Calls will not revert if the CCU receiving the call has no attendant. Network Attendant Reversion does not work with Network Hold.

Network Call Routing

Network Call Routing allows multiple systems that are interconnected in a network, to direct calls to a specific tie line based on the number dialed. The call does not leave the network.

Network Call Transfer

Network Call Transfer allows a call at an extension to be transferred to another extension in the network.

Network Centralized Attendant

Network Centralized Attendant allows callers from one node to dial the operator in another node by dialing **0**.

Network Centralized Voice Mail

Network Centralized Voice Mail allows one primary attendant group in the network to handle network attendant calls.

Related Programming

- FF6-2-04: Route Table: Digit Modify Pattern No.
- FF6-2-05: Digit Modify Table - Add Ending Digits
- FF6-2-05-0005: Numbering Plan
- FF6-2-06: Authorization Code (UK Only)
- FF6-2-09-0001: Dialing Access Voice Mail System
- FF1-0-04: Trunk COS (Priority Message - Waiting Send/Cancel)
- FF8-1-05: Call-Forward ID Codes for Voice Mail
- FF8-1-06: MSG Key ID Codes (USA only)

Network Extension Calling

Network Extension Calling allows you to reach an extension on another PBX. Based on the number you dial, the System network routes the call automatically.

Network Flash Transfer

When three or more systems are networked together with an S-ICX as the tandem, Network Flash Transfer determines where a call is held when Network Hold is pressed.

Related Programming

- FF1-0-04: Trunk COS (Network Flash Forwarding)

Network Hold

Network Hold allows the user to place a call on hold by pressing a programmed line key or MCO key. When using Network Hold, you cannot establish a conference call between nodes, and only one party can place the call on hold.

Related Programming

- FF1-0-04: Trunk COS (Broker's Hold for Network Calls)
- FF1-1-01-0020: Network Flash Signal Timer
- FF1-2-02: FF Dial Codes: Plan A (Network Flash Send During Intercom Dial Tone)
- FF1-2-03: FF Dial Codes: Plan B (Network Flash Send During Intercom Dial Tone)
- FF4-0-BSSC-0: FF-Key Assignment (Network Flash During Talk on FF-key)

Network Paging

Network Paging allows users on one System to page on another System when the appropriate Class of Service (COS) allows.

Network Transfer Recall

Network Transfer Recall allows a call which has been transferred to another node to recall back to the transferring extension.

Tandem Connection

Tandem Connection allows calls that are received over the network tie lines to be automatically routed on to another PBX or out to the public network.

Hardware Requirements

- T1 (USA), E&M (HK) or AC-15 (UK) Card

Considerations

- N/A

Non-Blocking Architecture

Description

The System is totally non-blocking. All extension and outside lines are available for use at the same time.

Hardware Requirements

- The CPC-HS supports 64 ports (max. 28 extensions and 24 digital extension ports). The CPC-HM supports up to 116 ports (max. 60 extensions and 24 digital extension ports).

Considerations

- N/A

Power On Maintenance

Description

The System allows you to change most circuit cards, programming, and many other maintenance features while the System is powered on and operating. Very few operations require the System to be powered down or out of service. The System therefore continues to operate without interruption for most maintenance functions.

A limited number of items such as the replacement of some common control circuit cards requires the system to be powered down.

Hardware Requirements

- N/A

Considerations

- N/A

Programming Devices

Description

The dealer may program the System either by using:

- A digital key telephone equipped with display
- A PC-Based Customizing Tool

Telephone Programming

The System can be fully programmed from an extension telephone equipped with 12 FF keys and a display. While major system configuration changes may be more easily performed using a PC programmer, all programming is available via a telephone. This is especially useful for minor changes to the system configuration.

Hardware Requirements

- N/A

Considerations

- N/A

PC-Based Customizing Tool

The System can be completely configured using the PC-Based Customizing Tool. This may be done either by directly connecting to the System or by remote connection using a modem.

The System database can be uploaded and downloaded for easy storage and retrieval.

The PC-Based Customizing Tool connects to the System through the RS232C maintenance port.

Hardware Requirements

- N/A

Considerations

- N/A

QSIG ISDN Lines

Description

QSIG is a digital signaling protocol for private-network phone systems comprised of ISDN lines. Internationally, it is also called Private Signaling System No. 1 (PSS1).

QSIG, developed in the late 1980's and still in the process of global standardization, provides the ability to efficiently interconnect the remote ISDN PBX sites of large organization. In addition to

normal phone service, QSIG also supports advanced applications such as interconnection of voice/fax/DP servers, broadband private networks, etc. In other words with QSIG “it’s not just a phone line anymore.”

For more information on QSIG, see *Section 570: QSIG Reference*.

Hardware Requirements

- N/A

Related Programming

- FF2-1: QSIG ISDN Lines

Considerations

- N/A

Ringling Modes

Description

The System supports multiple types of trunk ringling including the following:

- Day 1/Day 2/Night Ringling
- Day 1/Day 2/Night Delayed Ringling
- DDI Day/Night Ringling
- DDI Day/Night Busy/Delayed Ringling
- Busy Lamp Field Immediate Ringling
- Busy Lamp Field Delayed Ringling
- Slide Ringling
- Alarm Ringling

Day 1/ Day 2/Night Ringling

When the System is in Day 1 mode, calls can be directed to ring at one or more extensions or at a hunt group per the Day 1 ringling assignments.

When the System is in Day 2 mode, calls can be directed to ring at one or more extensions or at a hunt group per the Day 2 ringling assignments.

When the system is in Night mode, call can be directed to ring at one or more extensions or at a hunt group per the Night ringling assignments.

Inbound calls can be directed to desired normal daytime locations by setting the system into a Day mode. By having a second day mode (Day 2) alternative call handling is available during day operation. For instance, during lunch, calls can be directed to an alternative position.

Calls can be directed specific night locations when the system is set to Night mode.

For more information on Day Ringling, see “Day/Night System Mode” on page 33.

Hardware Requirements

- N/A

Considerations

- N/A

Day 1/ Day 2/Night Delayed Ringing

Delayed Ringing causes an incoming outside call that is unanswered at a primary extension within a certain period of time, to ring at a designated extension or extensions. Delayed ringing destinations can be set for Day 1, Day 2 and Night modes. trunk Delayed Ringing is also available for hunt group pilot numbers.

Hardware Requirements

- N/A

Considerations

- N/A

DDI (DID) Day/Night Ringing

(**Note:** Analog DID is not available in the UK, TX or EX model).

Incoming DDI calls can be set to ring at day destinations when the system is in day mode and ring at night destinations when the system is in night mode.

Hardware Requirements

- DDI (DID) Trunk Card

Considerations

- N/A

DDI (DID) Day/Night Busy/Delayed Ringing

DDI Day/Night Busy/Delayed Ringing causes an incoming DDI call to a busy primary extension to ring at a designated extension or extensions. DDI Busy/Delayed Ringing also causes an incoming DDI call that is unanswered at a primary extension within a certain period of time, to ring at a designated extension or extensions. Separate ring destinations are available for day and night modes.

DDI Busy/Delayed Ringing is also available for hunt group pilot numbers. However, when the Queuing Timer expires, the call leaves the hunt group and is forwarded to the DDI Busy/Delayed Ringing destination.

Hardware Requirements

- N/A

Considerations

- Call Forwarding takes priority over DDI Busy/Delayed Ringing
- If the call is part of a hunt group and the Queuing Timer expires, the call is forwarded to the DDI Busy/Delay Ringing destination. (See “DDI (DID) Day/Night Busy/Delayed Ringing” on page 57.)

Busy Lamp Field Ringing

Extensions that have Direct Station Select (DSS)/BLF FF keys assigned may be set to ring on those keys.

Hardware Requirements

- N/A

Considerations

- ISDN phones may not set BLF ringing.
- For more information on BLF ringing, see “Line Appearances” on page 169.

Busy Lamp Field Delayed Ringing

Extensions that have Direct Station Select (DSS)/BLF FF keys assigned may be set to delay ring on those keys.

Hardware Requirements

- N/A

Considerations

- ISDN phones may not set BLF ringing.
- For more information on BLF ringing, see “Line Appearances” on page 169.

Slide Ringing

Similar to Delayed Ringing, Slide Ringing allows an alternate position to answer calls. If a call is not answered within a slide ringing time period, the call can be set to ring at another phone with that trunk key.

One possible use for Slide Ringing is in an office with a common secretary. A non-ringing FF key can be assigned for each trunk used by the group. If a call is not answered within the slide ringing timer, the call will ring the common secretary.

Hardware Requirements

- N/A

Considerations

- N/A

Alarm Ringing

Alarm Ringing allows the incoming ringing tone to be changed if the call is not answered in a predetermined time. This can be very useful in alerting others to pick up unanswered calls.

Hardware Requirements

- N/A

Considerations

- If slide ringing is enabled, it will override alarm ringing.

Station Message Detail Recording (Call Logging)

Description

Station Message Detail Recording (SMDR) (Call Logging) provides detailed call records of outgoing calls. Call Logging records can be output to a printer or an external call accounting system.

Various types of information are reported on the Call Logging record and each type of information occupies a set position in the Call Logging format (See Figure 1 on page 60.) One type of information is the “condition code” which occupies the first position in the output format. This code specifies what type of call was made or received (e.g., DISA Incoming call [S] or Closed Numbering call [W]). However, condition codes are prioritized, and the type of call determines what code is displayed.

The following tables shows the priority of condition codes for outgoing calls and incoming calls.

Table 8. Priority of outgoing call condition codes

Priority	Condition Code	Description
Highest	T or H	T = Outgoing Transfer Call H = Outgoing Hold Call
2nd	F	F = Call Forward Outside Call
3rd	W	W = Closed Numbering Note: In the case of an MCO outgoing call seizing the private line, the condition code 0 is displayed.
4th	L	L = LCR Outgoing Call
Lowest	O	O = Outgoing Call

For example, an outgoing call is an LRS Outgoing call (**L**) but it is also a transferred call. The Call Logging data condition code will be **T** to indicate that the call was an Outgoing Transfer. (A transferred call’s condition code takes precedence over the type of call - LRS Outgoing call [**L**].)

Table 9. Priority of incoming call condition codes

Priority	Condition Code	Description
Highest	h or t	h = Incoming Hold t = Incoming Transfer
2nd	D , N , or S	D = DDI Incoming Call N = Network Incoming Call S = DISA Incoming Call
Lowest	I or A	I = Incoming Call A = Abandoned Call

For example, an incoming call is a DDI Incoming call (**D**), but it is also a transferred call. The Call Logging data condition code will be **t** to indicate that the call was an Incoming Transfer call. (A transferred call’s condition code takes precedence over the type of call - DDI Incoming call [**D**].)

Figure 1. Output data format

<u>Format #1</u>										
<u>I</u>	<u>MM/DD</u>	<u>HH:MM:SS</u>	<u>HH:MM:SS</u>	<u>NNNN</u>	<u>TTTT</u>	<u>dddddddddddddddddddd</u>	<u>aaaaaaaa</u>	<u>vvvvH</u>		
①	②	③	④	⑤	⑥	⑦	⑧			
<u>Format #2</u>										
<u>I</u>	<u>MM/DD</u>	<u>HH:MM:SS</u>	<u>HH:MM:SS</u>	<u>NNNN</u>	<u>TTTT</u>	<u>dddddddddddddddddddd</u>	<u>aaaaaaaa</u>	<u>vvv</u>		
①	②	③	④	⑤	⑥	⑦	⑧			
<u>dddddddddddddd cccccc MM:SSH</u>										
			⑨	⑩	⑪					

- ① Condition Code: (**I**: Incoming call / **D**: DDI incoming call / **h**: Hold incoming call / **N**: Network incoming call / **S**:DISA incoming call / **t**: Transfer incoming call / **A**: Abandoned Call / **O**: Outgoing call [Non LCR] / **F**: Call forward outside call / **H**: Hold outgoing call / **L**: LCR outgoing call / **T**: Transfer outgoing call / **W**: Closed Numbering)
- ② Call Start Time (MM=01 to 12 / DD=01 to 31 / HH=00 to 23 / MM=00 to 59 / SS=00 to 59)
- ③ Call Duration Time (HH=00 to 23 / MM=00 to 59 / SS=00 to 59)
- ④ Trunk User No. (Extension line No.: 0 to 9999 / trunk No.: C001 to C576)
- ⑤ Trunk No. (Trunk No.: 001 to 576 / When trunk is disconnected while the call is on hold: *001 to *576)
- ⑥ Dialed No. (24 digits max. including **0-9**, *, # Cannot display Flash or Pause. If a number is hidden, * will appear instead of digits. * will stay with the call even if the call is transferred. For Format 2, an **I** Proceeds the digits if it is an incoming call.)
- ⑦ Accounting Code (10 digits max.)/Verified Account Code (Verified Account Code table number V001 to V500)
- ⑧ DISA Security Code ID (DISA ID code table number D001-D016)
- ⑨ Caller Data (Format #2 only)
- ⑩ ISDN Charge Data (Format #2 only - originator number applies to ISDN only) - Not Used (Format #2 only) Future Use
- ⑪ Incoming Ringing Time (Format #2 only) (MM=00 to 99 / SS=00 to 59)

H Carriage Return Line Feed

Hardware Requirements

- A printer or external call accounting system is required to receive Call Logging data.

Considerations

- A call must be answered to generate Call Logging data (e.g., answered by Voicemail, call pickup, etc.)
- You can specify which type of Call Logging data format is sent (i.e., either Format 1 or 2).

System Speed Dial TRS (Call Barring) Override

Description

System Speed Dial (SSD) numbers may be used to outdial calls from extensions that otherwise have outgoing call restrictions (i.e., Toll Restriction Service [TRS] Call Barring).

Hardware Requirements

- N/A

Considerations

- N/A

Toll Restriction Service (Call Barring)

Description

Toll Restriction Service (TRS) - Call Barring allows access levels, including the prohibition of long distance calls or after-hours calls, to be assigned to specific extensions or trunks. This minimizes non-business related calls and reduces phone bills by only allowing long distance calls over designated lines.

TRS (Call Barring) can be used in conjunction with Automatic Route Selection (ARS).

- TRS (Call Barring) classes are set on an extension and trunk basis. Up to 50 TRS (Call Barring) classes can be assigned.
- Each TRS (Call Barring) class is then assigned to a TRS level. This level is used as the basis for allowing or restricting calls.
- There are 10 TRS (Call Barring) levels available: **0** denies all calls, **1-8** may be partially restrictive per assignments, and **9** allows all calls.
- TRS (Call Barring) can restrict the number of digits dialled (1 to 20 digits limit or no limit).
- TRS (Call Barring) can restrict the use of System Speed Dials (SSDs) for out dealing on a TRS (Call Barring) class basis; either no system speed dials or limit the range of SSDs.
- TRS (Call Barring) can restrict the use of the star (*) or pound (#) digits on a TRS (Call Barring) class basis.

The following calling restrictions are also available:

- Forced ARS Restriction (The ARS feature controls outside calls.)

Hardware Requirements

- N/A

Considerations

- The dialling restrictions included in this feature help prevent unauthorized outgoing calls. It is possible; however, to program your System to allow SSD to override TRS (Call Barring).

Trunk Access Groups

Description

Trunks can be placed in trunk groups. When a trunk group is accessed, the System automatically selects an open trunk from the group.

Operation

To access a trunk group:

Action	Result
1. Enter the Trunk Access Code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
2. Dial the phone number.	

Hardware Requirements

- N/A

Considerations

- Trunks can only appear in one trunk group.
- If Automatic Call Routing is enabled, the MCO access code (default = **9** [UK/HK] and **0** [Taiwan/Malaysia/Indonesia]) automatically accesses the Automatic Route Selection (ARS) features.

Trunk Interface

Description

The System supports several types of trunk Interfaces including the following:

- Direct Dial Inward (DDI)
- Integrated Services Digital Network (ISDN) - Basic Rate Interface (BRI)
- ISDN - Primary Rate Interface (PRI)
- Loop Start

Each trunk type supports various features such as Delayed Ringing, Night Ringing, etc.

Trunk Interface - DDI (Not Available on UK, TX or EX Model)

The DDI feature allows an extension to have a dedicated direct number. The dedicated number allows calls to be made directly to the extension, without the caller going through the attendant.

The DDI number may have from 1 to 4 digits (typically 4).

Each DDI Trunk Interface card (VB-44520) supports up to 8 DDI trunks.

Hardware Requirements

- The -48V power supply is required.

Considerations

- The DDI Trunk card supports 1 to 4-digit dial-pulse (10 pps) or Dual Tone Multifrequency (DTMF) signalling.
- DDI numbers must be between **0** and **9999**.

Trunk Interface - ISDN BRI

The System supports ISDN BRI with the VB-44530 ISDN BRI interface unit. The VB-44530 is a T-Point ISDN-BRI that supports 2 B (bearer) channels and 1 D (data) channel (2B + D; 144kbps or 192kbps). This unit connects to an ISDN Data Service Unit (DSU). Point-to-point and point-to-multi operations are selectable.

The ISDN-BRI supports enblock setting and enblock setting at the sub-address.

Hardware Requirements

- N/A

Considerations

- A DSU is required (not available from Panasonic). Normally the DSU is supplied by the telephone service provider.

Trunk Interface - ISDN-PRI

The System supports ISDN PRI with the VB-44540 ISDN PRI Interface unit. The VB-44540 is a T/S-Point ISDN PRI that supports 30B (for UK) or 23B (for HK) (bearer) channels and 1 D (data) channel (30B + D; 2M) (23B + D; 1.5M). This unit connects to an ISDN DSU.

A maximum of 1 ISDN-PRI unit may be installed in an S-ICX system with a CPC-HS. Up to 2 ISDN-PRI units may be installed in an S-ICX system with a CPC-HM.

Hardware Requirements

- N/A

Considerations

- N/A

Trunk Interface - Loop Start

The VB-44510UK Loop Start interface unit supplies 8 loop start analog exchange line circuits. In addition, the VB-44510UK Loop Start interface unit may alternatively be used to connect to loop start exchange lines.

Hardware Requirements

- VB-44510UK Loop Start Card

Considerations

- N/A

Trunk Ringing Types

Description

Several types of trunk ringing are available for the System including the following:

- Direct Dial Inward (DDI) Ringing
- Direct Line (DL) Ringing
- Direct Inward System Access (DISA) Ringing
- Multiple Ringing

These ringing types may be used in any combination in the System.

DDI Ringing

DDI Ringing allows calls on a common trunk to be directed to ring to a specific extension or group of extensions, etc. based upon the final digits dialed. These final digits are received from the DDI trunk and compared to a DDI Table that determines where the calls should ring. Depending on the assignments in the DDI Table, names or trunk numbers are displayed. (Names can be up to 10 digits long.)

DDI Ringing can be very useful by sending calls directly to a specific extension, hunt group, etc. based upon the number dialed. Since a relatively small number of trunks handle the DDI calls, this can be more cost efficient than DL trunks or attendant group answering and transfer. (DDI may send a call to a group using the Virtual Extension feature.) DDI Busy/Delayed Ringing is also available with DDI Ringing. (See “DDI (DID) Day/Night Busy/Delayed Ringing” on page 57.)

For more information on DDI trunk Trunk Interface, see “Trunk Interface - DDI (Not Available on UK, TX or EX Model)” on page 63.

Hardware Requirements

- N/A

Considerations

- Caller ID takes priority over the DDI name assignment.
- Only one of the two DDI tables may have name assignments.
- If the DDI/DL destination is a Directory Number (DN), the call goes to an extension that has a destination key even if the Primary Directory Number extension is busy or does not answer.
- If the DDI/DL destination is an UNA extension, the UNA will ring depending on DDI number tenant group/ DL incoming trunk tenant group.

Direct Line Ringing

DL Ringing allows calls on a specific trunk to be directed to ring a specific extension, System Speed Dial (SSD) number (for redirecting calls out), and hunting group.

This can be very useful when a trunk is dedicated to a specific person or purpose. However, this can be a more expensive use of the line since it has a more limited use.

Prior to Version 4.5, it was impossible to distinguish between Private Line incoming calls and Directory Number incoming calls. Version 4.5 and higher allows the person receiving the call to easily distinguish between these types of incoming calls.

Hardware Requirements

- N/A

Considerations

- If the DDI/DL destination is a Directory Number (DN), the call goes to an extension that has a destination key even if the Primary Directory Number extension is busy or does not answer.
- If the DDI/DL destination is an UNA extension, the UNA will ring depending on DDI number tenant group/ DL incoming trunk tenant group.

Direct Inward System Access Ringing

DISA Ringing (which is related to the DISA feature) allows a trunk specified as a DISA trunk to ring and give off-site users dial-in access to the System. Once the DISA trunk is accessed, the user receives dial tone and may dial an extension.

For more information on DISA, see “Direct Inward System Access” on page 37.

Hardware Requirements

- N/A

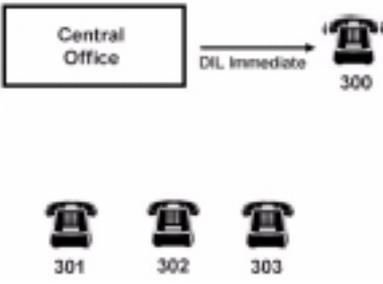
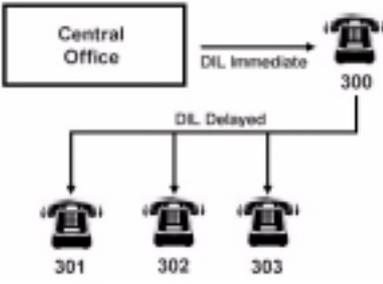
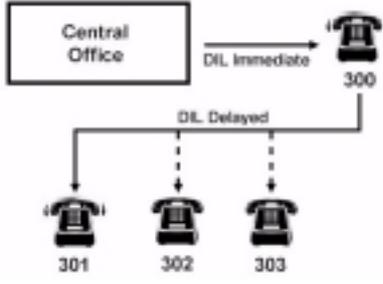
Considerations

- N/A

DIL Delayed Incoming Ring Enhancement

Version 4.5 and higher

Prior to Version 4.5, a DIL call that was not answered by the Immediate Ringing extension was simultaneously passed to all other extensions in the MCO if Delayed Ringing was set. Beginning with Version 4.5, an incoming DIL call that is not answered can be passed to a single Delayed Ring destination or to all extensions with an MCO key that includes the incoming exchange line. If the Delayed Ringing extension is not answered, the call is forwarded the extension's preprogrammed location (e.g., Voice Mail, Call Forwarding, etc.) For example:

DIL Immediate (DIL Destination = 300)	DIL Delayed (DIL Delayed Destination = 301)	
Both Versions	Version 1.0	Version 4.5
		
FF2-0-BSSC-031 (DIL Dest. = 300) 1. Call rings on Ext. 300 only	FF2-0-BSSC-0441 (DIL Dest. = 300) 1. Call rings on Ext. 300 2. Call rolls over to Ext. 301, 302 and 303 simultaneously because they have an MCO key that includes the exchange line.	FF2-0-BSSC-041 (DIL Dest. = 300) 1. Call rings on Ext. 300 2. System can be programmed to ring Ext. 301 only, or to ring all three extensions.

Note: The program settings in the previous figure can also be used for the following Delayed Ringing extension destinations:

- Speed Dial
- Hunt Group Number
- Attendant Group Number
- ERA Number

Hardware Requirements

- N/A

Related Programming

- FF2-0-BSSC-03 (Ring Assignment)
- FF2-0-BSSC-04 (Delayed Ring Assignment)
- FF1-0-02-0027 (DIL Delayed Ringing Pattern)

Considerations

- N/A

Multiple Ringing

Description

Multiple Ringing allows trunk calls into the System to be directed to ring multiple extensions in the System. This can be very useful when anyone in a group may answer a call. This can also be very useful at night when only a selected number of people are available to handle calls.

Hardware Requirements

- N/A

Considerations

- N/A

Virtual Port

Description

Virtual ports are not physical ports in the System. They are phantom or simulated ports used in the System to support:

- Virtual extension ringing
- Virtual floating hold

Up to 96 virtual ports may be assigned to the CCU.

Virtual Port used for Virtual Extension

You can assign an actual extension number to a virtual port. You can then assign the extension number as any actual extension (incoming call settings and types, Station Class of Service (COS), tenant group, pickup group, etc.). You can also assign the virtual port to an FF key on one or more telephones and set to ring. Any call directed to the virtual port extension number will ring the assigned telephone(s).

Virtual extensions provide a mechanism for ringing multiple phones simultaneously. For instance, a Direct Inward Dialling (DDI) entry can only be set to ring to one extension number. However, if the DDI is set to ring a virtual extension and the virtual extension is assigned to ring keys on multiple extensions, the DDI will ring the multiple extensions.

Hardware Requirements

- N/A

Considerations

- N/A

Virtual Port used for Floating Hold

You can assign a virtual port that is not assigned an extension number to be used for floating hold. The virtual port is assigned to an FF key. Calls can then be placed on hold on the virtual port FF key. Any extension that is assigned the same virtual port FF key can then pick up the held call.

This can be used like a system park feature.

Hardware Requirements

- N/A

Considerations

- N/A

Voice Mail Integration (Third Party)

Description

The System supports third party Voice Mail systems with features such as:

- Answer Supervision for Voice Mail
- Call Forward ID Code for Voice Mail
- CLI/DDI ID Code for Voice Mail
- High Priority Message Waiting
- Message Key ID Code

Answer Supervision for Voice Mail

Description

This feature allows the System to send an answer signal to third-party Voice Mail systems.

Without this feature a third-party Voice Mail cannot receive a signal indicating that a System extension has answered. In other words, to determine that the extension has answered, the Voice Mail system would have to wait until the extension stops receiving ringback tone. As a result, waiting for the ringback to stop often delays connection times for calls from Voice Mail to extensions. By sending an answer signal, this feature provides quicker response time between the S-ICX and the Voice Mail system.

Hardware Requirements

- AEC Port

Considerations

- The digits used for the answer signal code are determined by the requirements of the Voice Mail system.
- The answer code may be up to 4 characters and consist of the characters 0 - 9, *, #, and pause.
- If the called extension does not answer and is forwarded to Voice Mail, the System sends a Call Forward ID code back to the Voice Mail system.
- During transmission of the answer signal code, other DTMF digits and functions from the S-ICX extension are ignored.
- The Voice Mail port must be assigned as a Voice Mail port connection.
- The DTMF pattern is set as pattern 2.

Call Forward ID Code for Voice Mail

Call Forward ID Code for Voice Mail allows you to call forward to a third-party Voice Mail system. The ID Code sends the digits that are required by the Voice Mail to identify the System extension.

Operation

To set a Call Forward ID Code for Voice Mail:

Action	Result
1. Go offhook or press ON/OFF key.	
2. Dial the Call Forward ID Code (default = 715 [UK/HK or 715# [Taiwan, Malaysia, Indonesia]).	Enter V.M. ID displays
3. Enter the ID code required by voice mail (see your voice mail manual). Usually this is the extension number.	
4. Press the HOLD key.	Stored V.M. ID displays
5. Go onhook or press ON/OFF key.	

To clear the ID Code:

Action	Result
1. Go offhook or press ON/OFF key.	
2. Dial the Call Forward ID Code (default = 715 [UK/HK or 715# [Taiwan, Malaysia, Indonesia]).	Enter V.M. ID displays
3. Press the HOLD key.	Cleared V.M. ID displays
4. Go onhook or press ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

CLI/DDI Voice Mail ID Code

CLI/DDI calls may be sent directly to voice mail through the used of the DDI Voice Mail ID Code. A prefix and suffix may be specified to be sent to the voice mail as well as a chosen number of DDI digits.

Either no digits (default), the last two digits of the DDI, the last three digits of the DDI or the entire DDI number may be sent.

The prefix may be up to eight digits including 0-9, *, # and pause (REDIAL).

The suffix may be up to eight digits including 0-9, *, # and pause (REDIAL).

Hardware Requirements

- N/A

Considerations

- Each pause is a fixed 1 second delay.
- If you do not assign a Voice Mail ID Code, the DDI digits will be sent to voice mail.

- Only one Voice Mail ID Code is available for the system.

Disconnect Signal

Either busy tone or silence can be sent to a third-party voice mail system when the caller hangs up.

High Priority Message Waiting

Message waiting displays and LEDs may be utilized by the Voice Mail system to indicate that a Voice Mail message has been left in your mail box. When you retrieve the message, the message waiting indications are cleared.

Hardware Requirements

- N/A

Considerations

- For more information on setting and retrieving message waiting, see the telephone operation sections that follow in this document.

Message Key ID Code

On a large-display phone you can use a Message key (labelled **MSG**) to either retrieve Voice Mail messages or respond to telephone messages. When responding to Voice Mail messages from a 3rd party Voice Mail system, the Message key needs to have an ID code set to identify the caller to the Voice Mail system. You can also use the Message key to program a Voice Mail password.

You must program the Message key using the User Maintenance feature “Set Message Key ID Code” on page 86.

Operation

To retrieve a message at Voice Mail:

Action	Result
1. Press the MSG key.	Voice mail instructions
2. Follow the Voice Mail instructions for retrieving messages.	
3. When finished retrieving messages, replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

Voice Mail Transfer Key

Description

The Voice Mail Transfer (VM/TRF) key allows you to transfer calls to voice mailboxes without waiting for voice mail to answer. You can assign a Voice Mail Transfer key from a phone or through system programming.

Two Voice Mail Transfer keys are available. VM Transfer Key 1 will transfer to a voice mail extension number. Voice Mail Transfer Key 2 will transfer to the voice mail pilot number.

Prior to Version 5.0, the VM/TRF key could not be used to transfer a call into Voice Mail on another networked ICX or S-ICX system. Beginning with Version 5.0, the user can press the VM/TRF key to send a call across a node to another networked ICX or S-ICX system.

Operation

To assign a Voice Mail Transfer key from a phone:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the FF key to be assigned as the Voice Mail Transfer key.	
4. Press REDIAL and 74nnnn (VM Transfer Key 1) where nnnn is the voice mail extension number or Press REDIAL and 75nnnn (VM Transfer Key 2) where nnnn is the voice mail extension number	
8. Press the HOLD key.	
9. Replace the handset or press the ON/OFF key.	

To use a Voice Mail Transfer key:

Action	Result
1. Lift the handset or press the ON/OFF key to answer the incoming call.	Connected to caller
2. Press the VM/TRF (1 or 2) key .	System places caller on hold
3. Press the DSS/BLF key, dial an extension number or select the extension from the extension directory on the large display telephone.	
4. Replace the handset or press the RELEASE, ON/OFF, or PROG key.	

Once a call is sent to the voice mail, after the voice mail answers, the system sends the VM Transfer ID 1 or 2 + the extension number (BLF/DSS, Directory or dialled number).

Hardware Requirements

- N/A

Considerations

- The VM/TRF key can be assigned to any key phone, DSS/72 or EM/24. The VM/TRF key cannot be assigned to a one-touch key.
- The VM/TRF key can be used to transfer intercom as well as trunk calls to a voice mailbox.
- The Voice Mail Transfer ID codes are assigned in the Maintenance Programming section. Up to ten digits can be stored.
- The system responds to key operations during the transfer in the following ways:
 - Pressing the FL/R key cancels the VM/TRF and returns intercom dial tone to the user. When the VM/TRF is cancelled, the incoming call is still connected but is on hold.
 - If a valid key (trunk key or second DSS key, for example) is pressed, the VM/TRF is cancelled and the operation invoked by the key is performed.
 - If an invalid key (**REDIAL**, for example) is pressed, the VM/TRF is cancelled, and the user receives busy tone.
 - Once VM/TRF is pressed, the user can dial up to 10 digits before completing the transfer.
- If a user begins to perform the voice mail transfer and the extension cannot hold a call (one call is already on non-appearance hold, for example), the system will keep the call in the talk state and will not allow the voice mail transfer to be initiated.
- If the VM/TRF key stores a number other than a voice mail extension number, the system does not send DSS/BLF information or the extension number that is dialled after pressing VM/TRF.

Chapter 4. User Maintenance

This chapter contains detailed descriptions of the following System maintenance topics and features:

Topic	Page
Introduction	73
About User Programming	75
Set Absence Messages	76
Set Call Forward Busy Destination Extension	77
Set Call Forward ID Codes for Voice Mail	78
Set Call Forward No Answer Destination Extension	79
Set Caller ID Logging Extensions	80
Set Day of Week Mode	81
Set Exception Day Mode	83
Set Extension Names	85
Set Message Key ID Code	86
Set Mode Schedule	87
Set Personal Speed Dial Names	89
Set Personal Speed Dial Numbers	94
Set Send Text Messages	95
Set Special Day Mode	96
Set System Date/Time/Day	103
Set System Speed Dial Index	104
Set System Speed Dial Names	105
Set System Speed Dial Numbers	107
Set Text Message Replies	108
Set Verified Account Codes	109
Set Walking TRS (Call Barring) Codes	111

Introduction

User Maintenance provides several items that can be adjusted by the end user of the telephone system. The telephone system dealer is not required to make these changes. These items include settings for:

- Absence Messages
- CID Logging Ext
- Call Forward ID Code
- Date and Time - including date, time, and day of week
- Extension name
- Message Key ID Code

- Personal Speed Dial (PSD) Assignment - including PSD number and name
- Send Text Messages
- System mode. You can set the System to handle incoming calls, outbound call routing, and built-in voice mail call messages differently depending upon whether the system is in Day 1 mode, Day 2 mode, or Night mode. With User Maintenance, you can program the System for mode schedule, mode schedule for special day, mode schedule for exception days, and day of the month patterns.
- System Speed Dial (SSD) Assignment - including SSD number and name
- Text Message Replies
- TRF of CFID
- Verified Account Code
- Walking Toll Restriction Service (TRS) (Call Barring) Code

About User Programming

User Maintenance requires a Digital Display Key Telephone assigned to a Class of Service (COS) that allows User Maintenance.

The procedures in the following sections describe the basic steps used for modifying parameters. However, there are many alternative ways to view and modify the parameters using special keys and procedures. Some of the more advanced keys include:

REDIAL	(At menu level) clears an entry (At data entry) retrieves the last entry setting
FL/R	(At menu level) ignored (At data entry) clears setting
ON/OFF	Begins programming log-in or exits programming
HOLD	(At menu level) moves to date and time (At data entry) saves the displayed setting and moves to the next setting
PROG	Moves to the 81 User Maintenance Menu
CONF	Moves to the first data setting
MEMORY	Backs out of the address menu levels
MENU	Ignored
PREV	(At menu level) moves to the previous screen (At data entry) ignored
NEXT	(At menu level) moves to the next screen (At data entry) ignored
VOLUME (down)	Scrolls through the same address level (ascending)
VOLUME (up)	Scrolls through the same address level (descending)
FF1	PSD Assignment menu
FF2	SSD Assignment menu
FF3	Extension Name menu
FF4	Verified ID Code menu
FF5	Call Forward ID Code menu
FF6	Message Key ID Code menu
FF7	System Mode menu
FF8	Walking /Station Lock TRS (Call Barring)
FF9	TRF of CWRD
FF10	CID Logging Ext.

Note: Once in a data entry level, you must either enter an acceptable value or restore the previous value before proceeding. For instance, if you change an entry to an unacceptable value and then press **FF1** to move to the PSD Assignment menu, you will not be able to proceed. You must first enter an acceptable value.

Operation

To enter User Maintenance mode:

Action	Result
1. At a telephone with a COS that allows user login, press the ON/OFF key.	
2. Press the PROG key.	
3. Press the * key twice (* *).	
4. Press the CONF key.	81- User MAINT displays

Note: Your extension's COS must be properly set to allow User Maintenance access. Also, only one user may enter User Maintenance or System Programming at a time.

Set Absence Messages

Description

This menu item specifies absence messages.

Operation

To set Absence Messages using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 12 .	
3. Press the HOLD key.	8112- Absence Message displays
4. Press the HOLD key.	Enter Msg # displays
5. Enter the Message number (0-9).	
6. Press the HOLD key.	A B C D E F X displays (where X = Absence Message number)
7. Enter the Absence Message (up to 15 characters): <ul style="list-style-type: none"> If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) Note: Press the FL/R key to clear any existing data.	
8. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> See Example 1. Large-Display Phone on page 91. See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> Press the * key to erase a single entry. Press the # key to enter a space. 	
9. Repeat steps 7-8 as many times as necessary to enter the desired Absence Message. Note: Press the FL/R key to clear the entire entry.	
10. Press the HOLD key to store the entry.	Next message number displays

Action	Result
11. To set additional Absence Messages, press the volume up or down key or press the HOLD key to move to the desired Absence Message.	Desired Absence Message displays
12. Repeat steps 7-11 until all Absence Messages are entered.	
13. Press the MEMORY key to exit the entry mode.	Enter Msg # displays
14. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Call Forward Busy Destination Extension

Description

You can assign a Call Forward Busy Destination Extension for each extension. This is typically used for forwarding calls to voice mail.

Operation

To set a Call Forward Busy Destination Extension using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 09 .	
3. Press the HOLD key.	8109- TRF of CFWD displays
4. Enter 0 .	
5. Press the HOLD key.	CFWD-Busy EXT # displays
6. Dial the extension number.	
7. Press the HOLD key.	Enter CODE displays
8. Enter the destination extension.	
9. Press the HOLD key to store the entry.	Next extension number displays

Action	Result
10. To set Call Forward Busy destinations for additional extensions, press the volume up and down key or press the HOLD key to move to the desired Extension.	
11. Repeat steps 9-11 until all extension are entered.	
12. Press the MEMORY key to exit the entry mode.	
13. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Call Forward ID Codes for Voice Mail

Description

(For a description of Call Forward ID codes for Voice Mail, see “Call Forward ID Code for Voice Mail” on page 68.)

Voice Mail Call-Forward ID codes are used by voice mail systems to identify the correct mail box for storing messages. The actual entry needed will vary by voice mail systems and configuration. Often the entry is the extension number.

Operation

To set the Call Forward ID code:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 05 .	
3. Press the HOLD key.	8105- C.FWD ID Code displays
4. Press the HOLD key.	CF ID-EXT Number displays
5. Dial the extension number.	
6. Press the HOLD key.	CF-ID EXT XXX displays (where XXX = extension number)

Action	Result
7. Enter the Call Forward ID code. Notes: The ID code may contain up to 16 digits and contain 0, 1-9, *, # , pause (REDIAL key). To clear an entry or any existing data, press the FL/R key.	
8. Press the HOLD key to store the entry.	Next extension number displays
9. To set additional Call Forward ID codes, press the volume up or down key or press the HOLD key to move to the desired extension.	Desired extension displays
10. Repeat steps 7-9 until all Call Forward ID codes are set.	
11. Press the MEMORY key to exit the entry mode.	CF ID-EXT Number displays
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Call Forward No Answer Destination Extension

Description

You can assign a Call Forward No Answer Destination Extension for each extension. This is typically used for forwarding calls to voice mail.

Operation

To set a Call Forward Busy Destination Extension using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 09 .	
3. Press the HOLD key.	8109- TRF of CFWD displays
4. Enter 1 .	
5. Press the HOLD key.	CFWD-NoANS Ext displays

Action	Result
6. Dial the extension number.	
7. Press the HOLD key.	Enter CODE displays
8. Enter the destination extension.	
9. Press the HOLD key to store the entry.	Next extension number displays
10. To set Call Forward No Answer destinations for additional extensions, press the volume up and down key or press the HOLD key to move to the desired Extension.	
11. Repeat steps 9-11 until all extension are entered.	
12. Press the MEMORY key to exit the entry mode.	
13. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Caller ID Logging Extensions

Description

You can assign Caller ID Call Logging to extensions. The system is limited to 20 call logging extensions per cabinet as follows:

Number of Cabinets	Total Number of Call Log Extensions
1	20
2	40
3	60
4	80
5	100
6	120

Operation

To set a Caller ID Logging Extensions using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 10 .	
3. Press the HOLD key.	8110- CID Logging EXT displays
4. Press the HOLD key.	CID Logging # displays
5. Enter log control number.	
6. Press the HOLD key.	
7. Dial the extension number.	
8. Press the HOLD key to store the entry.	Next log control # displays
9. To set CID Log for additional extensions, press the volume up and down key or press the HOLD key to move to the desired Extension.	
10. Repeat steps 6-8 until all extension are entered.	
11. Press the MEMORY key to exit the entry mode.	
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Day of Week Mode

Description

(For a description of Automatic Day/Night System Mode, see “Automatic Day/Night Mode” on page 36.)

The System allows you to specify up to 3 mode patterns. This menu item determines which pattern to follow for a given week day in the month (i.e., first Monday, second Monday, etc.).

Some business may have special operating hours based on the day of the month. For instance, a company may work half-days on the second Saturday of each month.

Operation

To set the Day of Week Modes:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 07 .	
3. Press the HOLD key.	8107- System Mode displays
4. Enter 3 .	
5. Press the HOLD key.	3- D of Week PTN displays
6. Press the HOLD key.	300 : 1st SUN Pattern displays
7. Enter pattern (0 - no pattern, 1 - pattern 1, 2 - pattern 2, 3 - pattern 3) for the first Sunday. Note: To clear an entry or existing data, press the FL/R key.	
8. Press the HOLD key to store the entry.	Next Day of Week mode displays
9. To set additional Day of Week modes, press the volume up or down key or press the HOLD key to move to the desired mode.	Desired Day of Week mode displays
10. Repeat steps 7-9 until the remaining days in the month are set. Note: The entry positions are listed in Table 10 on page 83.	
11. Press the MEMORY key to exit the entry mode.	3- D of Week PTN displays
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Table 10. Day of the Week - addresses

ADDRESSES FOR THESE DAYS OF THE WEEK:	-- DAY OCCURRENCE -- (e.g., 1st Sunday=address 300; 2nd Sunday=address 307)				
	1st	2nd	3rd	4th	5th
Sunday	300	307	314	321	328
Monday	301	308	315	322	329
Tuesday	302	309	316	323	330
Wednesday	303	310	317	324	331
Thursday	304	311	318	325	332
Friday	305	312	319	326	333
Saturday	306	313	320	327	334

Hardware Requirements

- N/A

Considerations

- N/A

Set Exception Day Mode

Description

(For a description of Automatic Day/Night System Mode, see “Automatic Day/Night Mode” on page 36.)

You can specify exception days which allow for a range of days for the System to operate in the Night mode. This is intended for extended holidays for business shut down periods that last for multiple days. You can specify up to 6 exception day periods.

Operation**To set the Exception Day Modes:**

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 07 .	
3. Press the HOLD key.	8107- System Mode displays
4. Enter 2 .	
5. Press the HOLD key.	2- Mode Except Day displays

Action	Result
6. Press the HOLD key.	200 :MMDD PTN 1 Start Day displays
7. Enter the start date by month (two characters) and day (two characters) for Exception Period 1. Note: To clear an entry or existing data, press the FL/R key.	
8. Press the HOLD key.	201 :MMDD PTN 1 Stop Day displays
9. Enter the stop date by month (two characters) and day (two characters) for Exception Period 1. Note: To clear an entry or existing data, press the FL/R key.	
10. Press the HOLD key.	Next Exception Day mode displays
11. To set additional Exception Day modes, press the volume up or down key or press the HOLD key to move to the desired mode.	Desired Exception Day mode displays
12. Repeat steps 7-11 until all Exception Day modes are set. (Up to 6 exception periods may be specified.) Note: The entry positions are listed in Table 11 on page 84.	
13. Press the MEMORY key to exit the entry mode.	2- Mode Except Day displays
14. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Table 11. Exception Days

<p style="text-align: center;">8107-2 (200-211) Hold (MMDD) Hold</p> <p>EXCEPTION DAYS:</p> <p>200=Start - Exception Day 1</p> <p>201=End - “ “</p> <p>202=Start - Exception Day 2</p> <p>203=End - “ “</p> <p>204=Start - Exception Day 3</p> <p>205=End - “ “</p> <p>206=Start - Exception Day 4</p> <p>207=End - “ “</p> <p>208=Start - Exception Day 5</p> <p>209=End - “ “</p> <p>210=Start - Exception Day 6</p> <p>211=End - “ “</p>	<p style="text-align: center;">↑</p> <p style="text-align: center;">Month/Day of Exception Days (Start or End)</p>
--	--

Hardware Requirements

- N/A

Considerations

- N/A

Set Extension Names

Description

You can assign names to each extension, even if the extension is not a display telephone. When the extension is called, the name appears on the display. For more information on the digital key telephone display, see “Display Information” on page 152.

Operation

To set extension names using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 03 .	
3. Press the HOLD key.	8103- Extension Name displays
4. Press the HOLD key.	0 : EXT Number/Name displays
5. Press the HOLD key.	Enter EXT # displays
6. Dial the extension number.	
7. Press the HOLD key.	A B C D E F XXX displays (where XXX = extension number)
8. Enter the extension name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) Note: Press the FL/R key to clear any existing data.	
9. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	

Action	Result
10. Repeat steps 8-9 as many times as necessary to enter the desired speed dial name. Note: Press the FL/R key to clear the entire entry.	
11. Press the HOLD key to store the entry.	Next extension number displays
12. To set additional extension names, press the volume up and down key or press the HOLD key to move to the desired SSD.	
13. Repeat steps 8-12 until all extension names are entered.	
14. Press the MEMORY key to exit the entry mode.	Enter EXT # displays
15. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Message Key ID Code

Description

(For a description of the Message Key ID Code Feature, see “Message Key ID Code” on page 70.)

On a large display phone you can use a Message key to either retrieve voice mail messages or respond to telephone messages. To respond to voice mail messages from a 3rd party voice mail system, you need to set the Message Key ID code to identify the caller to the voice mail system. You can also use the Message key to program a voice mail password.

Operation

To set the Message Key ID code:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 06 .	
3. Press the HOLD key.	8106- MSG Key ID Code displays
4. Press the HOLD key.	MSGID-EXT Number displays

Action	Result
5. Dial the extension number of the phone being programmed.	
6. Press the HOLD key.	MSG-ID EXT XXX displays (where XXX = extension number)
7. Enter the Message Key ID code. Notes: The ID code may contain up to 16 digits and contain 0, 1-9, *, #, pause (REDIAL key) . To clear an entry or existing data, press the FL/R key.	
8. Press the HOLD key to store the entry.	Next extension number displays
9. To set additional Message Key ID codes, press the volume up or down key or press the HOLD key to move to the desired extension.	Desired extension number displays
10. Repeat steps 7-9 until all Message Key ID codes are set.	
11. Press the MEMORY key to exit the entry mode.	MSGID - EXT Number displays
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Mode Schedule

Description

(For a description of Automatic Day/Night System Mode, see “Automatic Day/Night Mode” on page 36.)

You can set the System to automatically enter None, Day 1, Day 2, Night, Night (1), or Night (2) modes based upon mode patterns. You can define up to 3 patterns with up to 5 modes for each day. (This menu allows the setting of the patterns.)

Operation

To set the Mode Schedule:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 07 .	
3. Press the HOLD key.	8107- System Mode displays
4. Press the HOLD key.	0- Mode Schedule displays
5. Press the HOLD key.	000 :HHMM PTN 1-1 Start T displays
6. Enter the start time in hours (two characters) and minutes (two characters) for the Pattern 1 - first mode. Note: To clear an entry or existing data, press the FL/R key.	
7. Press the HOLD key.	001 : PTN 1-1 Mode displays
8. Enter the desired mode for Pattern 1 - first (0 - None, 1 - Day 1, 2 - Day 2, 3 - Night, 4 - Night (1), 5 - Night (2)). Note: To clear an entry or existing data, press the FL/R key.	
9. Press the HOLD key to store the entry.	Next pattern mode displays
10. To set additional mode schedules, press the volume up or down key or press the HOLD key to move to the desired mode.	Desired pattern mode displays
11. Repeat steps 6-10 until all patterns and modes are set. (There are 3 total patterns with 5 start time/modes each.) Note: Entry Positions are listed in Table 12 on page 89.	
12. Press the MEMORY key to exit the entry mode.	0- Mode Schedule displays
13. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Table 12. Mode Schedule Patterns - addresses & values

FF8 1 07 0 (00-29) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOS. (00-29) --				
		MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Pattern 1	Start Time (HHMM)	00	02	04	06	08
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	01	03	05	07	09
Pattern 2	Start Time (HHMM)	10	12	14	16	18
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	11	13	15	17	19
Pattern 3	Start Time (HHMM)	20	22	24	26	28
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	21	23	25	27	29

Hardware Requirements

- N/A

Considerations

- N/A

Set Personal Speed Dial Names

Description

For a description of Personal Speed Dial (PSD), see “Personal Speed Dial” on page 187 for a Digital Key Telephone, “Personal Speed Dial” on page 249 for a Digital Single Line Telephone (DSLTL), and “Personal Speed Dial” on page 298 for a Single Line Telephone (SLT).

Operation

To set PSD names using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 01 .	
3. Press the HOLD key.	8101- PSD Assignment displays
4. Enter 1 .	
5. Press the HOLD key.	1 : PSD Name displays
6. Press the HOLD key.	EXT Number displays
7. Dial the extension number.	
8. Press the HOLD key.	Enter PSD # XXX displays (where XXX = dialled extension number)
9. Enter the PSD bin number (80-99).	
10. Press the HOLD key.	A B C D E F PXX displays (where PXX = PSD number)
11. Enter the PSD name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) Note: Press the FL/R key to clear any existing data.	
12. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
13. Repeat steps 11-12 as many times as necessary to enter the desired speed dial name. Note: Press the FL/R key to clear the entire entry.	
14. Press the HOLD key to store the entry.	Next PSD bin number displays
15. To set additional PSD names, press the volume up and down key or press the HOLD key to move to the desired PSD.	Desired PSD bin number displays
16. Repeat steps 11-15 until all PSD names are entered.	

Action	Result
17. Press the MEMORY key to exit the PSD name entry mode.	Enter PSD # XXX displays (where XXX = extension number)
18. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

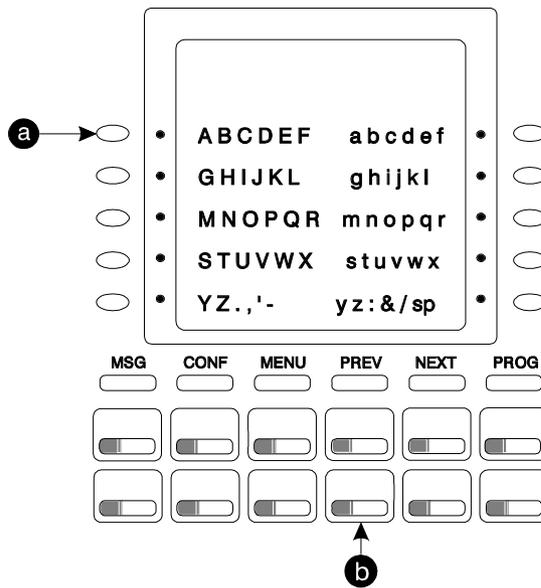
Considerations

- N/A

Example 1. Large-Display Phone

To enter **D**:

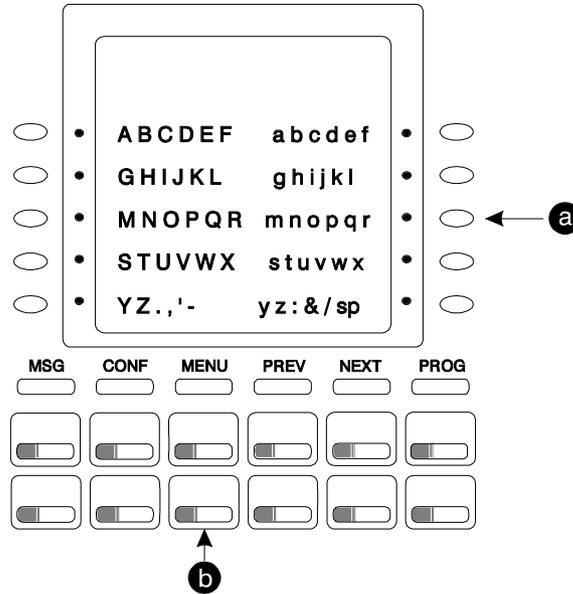
- Press the first soft key on the top left.
- Press the fourth FF key from the left on the bottom row.



To enter **o**:

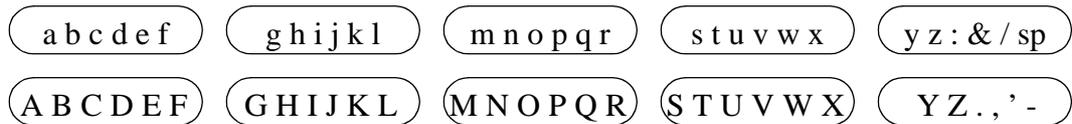
- Press the third soft key from the top right.

- b. Press the third FF key from the left on the bottom row.



Example 2. Small-Display Phone

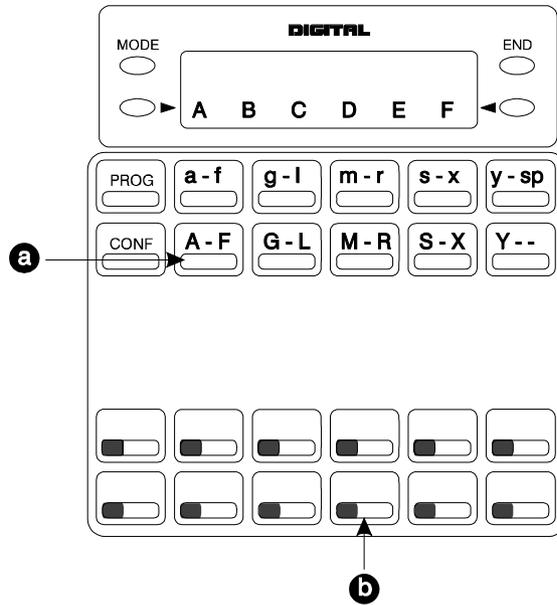
Refer to the following diagram to determine which one-touch key to press.



To enter **D**:

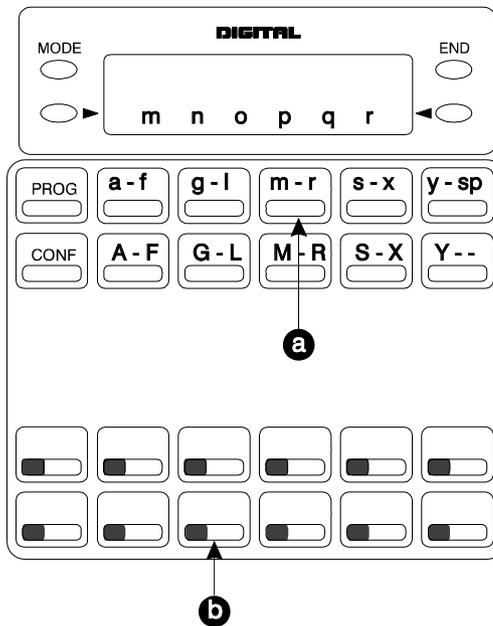
- a. Press the first one-touch key from the left on the bottom row.

- b. Press the fourth FF key from the left on the bottom row.



To enter o:

- a. Press the third one-touch key from the left on the top row.
- b. Press the third FF key from the left on the bottom row.



Set Personal Speed Dial Numbers

Description

For a description of Personal Speed Dial (PSD), see “Personal Speed Dial” on page 187 for a Digital Key Telephone, “Personal Speed Dial” on page 249 for a Digital Single Line Telephone (DSLTL), and “Personal Speed Dial” on page 298 for a Single Line Telephone (SLT).

Operation

To set PSD numbers:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 01 .	
3. Press the HOLD key.	8101- PSD Assignment displays
4. Press the HOLD key.	0 : PSD Number displays
5. Press the HOLD key.	EXT Number displays
6. Dial the extension number.	
7. Press the HOLD key.	Enter PSD # XXX displays (where XXX = dialled extension number)
8. Enter the PSD bin number (80-99).	
9. Press the HOLD key.	YYY ZZ displays (where XXX = extension number, YYY = assigned name, and ZZ = PSD bin number)
10. Enter the PSD digits to be dialled. Note: To clear an entry or existing data, press the FL/R key.	
11. Press the HOLD key to store the entry.	Next PSD bin number displays
12. To set additional PSD numbers, press the volume up and down key or press the HOLD key to move to the desired PSD bin number.	Desired PSD bin number displays
13. Repeat steps 10-12 until all PSD numbers are entered.	
14. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Send Text Messages

Description

You can send a text message to a key telephone with a display when you are sending call waiting signal (Auto camp-on or manual camp-on). This menu item specifies the text messages that may be sent.

Operation

To set Send Text Messages using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 11 .	
3. Press the HOLD key.	8111- Text Message displays
4. Enter 0 .	
5. Press the HOLD key.	8111-0: Send Message displays
6. Press the HOLD key.	Enter Msg # displays
7. Enter the Message number (0-9).	
8. Press the HOLD key.	A B C D E F X displays (where X = Send Text Message number)
9. Enter the Text Message (up to 15 characters): <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) Note: Press the FL/R key to clear any existing data.	
10. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	

Action	Result
11. Repeat steps 9-10 as many times as necessary to enter the desired Text Message. Note: Press the FL/R key to clear the entire entry.	
12. Press the HOLD key to store the entry.	Next message number displays
13. To set additional text Messages, press the volume up or down key or press the HOLD key to move to the desired Send Text Message.	Desired Text Message displays
14. Repeat steps 9-13 until all Send Text Messages are entered.	
15. Press the MEMORY key to exit the entry mode.	Enter Msg # displays
16. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Special Day Mode

Description

(For a description of Automatic Day/Night System Mode, see “Automatic Day/Night Mode” on page 36.)

You can specify up to 20 special days for the System. For each special day, you can specify up to 5 modes settings.

Operation

To set the Special Day Modes:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 07 .	
3. Press the HOLD key.	8107- System Mode displays
4. Enter 1 .	

Action	Result
5. Press the HOLD key.	1- Mode Special Day displays
6. Press the HOLD key.	1000 :MMDD Special Day 01 displays
7. Enter the date by month (two characters) and day (two characters) for the Special Day 1. Note: To clear an entry or existing data, press the FL/R key.	
8. Press the HOLD key.	1001 :HHMM S Day 01-1 Start displays
9. Enter the start time in hours (two characters) and minutes (two characters) for mode 1. Note: To clear an entry or existing data, press the FL/R key.	
10. Press the HOLD key.	1002 : S Day 01-1 Mode displays
11. Enter the desired mode for Special Day (0 - None, 1 - Day 1, 2 - Day 2, 3 - Night, 4 - Night(1), 5 - Night (2)). Note: To clear an entry or existing data, press the FL/R key.	
12. Press the HOLD key.	Next Special Day mode displays
13. To set additional Special Day modes, press the volume up or down key or press the HOLD key to move to the desired mode.	
14. Repeat steps 7-13 until all Special Day modes are set. (Up to 20 special days may be entered.) Note: The entry positions are listed in Table 13.	
15. Press the MEMORY key to exit the entry mode.	1- Mode Special Day displays
16. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Table 13. Special Day Start Time/Mode - addresses & values

FF8 1 07 1 (1000-1219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOS. (1000-1219) --				
		MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Special Day 1	Date (MMDD)	1000				
	Start Time (HHMM)	1001	1003	1005	1007	1009
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1002	1004	1006	1008	1010
Special Day 2	Date (MMDD)	1011				
	Start Time (HHMM)	1012	1014	1016	1018	1020
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1013	1015	1017	1019	1021
Special Day 3	Date (MMDD)	1022				
	Start Time (HHMM)	1023	1025	1027	1029	1031
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1024	1026	1028	1030	1032
Special Day 4	Date (MMDD)	1033				
	Start Time (HHMM)	1034	1036	1038	1040	1042
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1035	1037	1039	1041	1043

FF8 1 07 1 (1000-1219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (1000-1219) -- MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Special Day 5	Date (MMDD)	1044				
	Start Time (HHMM)	1045	1047	1049	1051	1053
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1046	1048	1050	1052	1054
Special Day 6	Date (MMDD)	1055				
	Start Time (HHMM)	1056	1058	1060	1062	1064
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1057	1059	1061	1063	1065
Special Day 7	Date (MMDD)	1066				
	Start Time (HHMM)	1067	1069	1071	1073	1075
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1068	1070	1072	1074	1076
Special Day 8	Date (MMDD)	1077				
	Start Time (HHMM)	1078	1080	1082	1084	1086
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1079	1081	1083	1085	1087

FF8 1 07 1 (1000-1219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (1000-1219) --				
		MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Special Day 9	Date (MMDD)	1088				
	Start Time (HHMM)	1089	1091	1093	1095	1097
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1090	1092	1094	1096	1098
Special Day 10	Date (MMDD)	1099				
	Start Time (HHMM)	1100	1102	1104	1106	1108
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1101	1103	1105	1107	1109
Special Day 11	Date (MMDD)	1110				
	Start Time (HHMM)	1111	1113	1115	1117	1119
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1112	1114	1116	1118	1120
Special Day 12	Date (MMDD)	1121				
	Start Time (HHMM)	1122	1124	1126	1128	1130
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1123	1125	1127	1129	1131

FF8 1 07 1 (1000-1219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (1000-1219) -- MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Special Day 13	Date (MMDD)	1132				
	Start Time (HHMM)	1133	1135	1137	1139	1141
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1134	1136	1138	1140	1142
Special Day 14	Date (MMDD)	1143				
	Start Time (HHMM)	1144	1146	1148	1150	1152
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1145	1147	1149	1151	1153
Special Day 15	Date (MMDD)	1154				
	Start Time (HHMM)	1155	1157	1159	1161	1163
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1156	1158	1162	1162	1164
Special Day 16	Date (MMDD)	1165				
	Start Time (HHMM)	1166	1168	1170	1172	1174
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1167	1169	1171	1173	1175

FF8 1 07 1 (1000-1219) Hold (MMDD or HHMM or 0-5) Hold						
-- VALUES -- (MMDD, HHMM, or 0-5)		-- ADDRESS NOs. (1000-1219) -- MODES				
		1st MODE	2nd MODE	3rd MODE	4th MODE	5th MODE
Special Day 17	Date (MMDD)	1176				
	Start Time (HHMM)	1177	1179	1181	1183	1185
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1178	1180	1182	1184	1186
Special Day 18	Date (MMDD)	1187				
	Start Time (HHMM)	1188	1190	1192	1194	1196
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1189	1191	1193	1195	1197
Special Day 19	Date (MMDD)	1198				
	Start Time (HHMM)	1199	1201	1203	1205	1207
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1200	1202	1204	1206	1208
Special Day 20	Date (MMDD)	1209				
	Start Time (HHMM)	1210	1212	1214	1216	1218
	Mode (0-5): 0=None 1=Day 1 2=Day 2 3=Night 4=Night (1) 5=Night (2)	1211	1213	1215	1217	1219

Hardware Requirements

- N/A

Considerations

- N/A

Set System Date/Time/Day

Description

The System allows you to change the date, time, and day of week. When setting the time, you can specify 12 or 24 hour format.

Operation

To change the system date, time, and day of week:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 000 .	
3. Press the HOLD key.	0 : YMMDD Date displays
4. Enter the year (two characters), month (two characters), and day (two characters). Note: To clear an entry or existing data, press the FL/R key.	
5. Press the HOLD key.	1 : HHMM Time displays
6. Enter the hour (two characters) and minute (two characters). Note: To clear an entry or existing data, press the FL/R key.	
7. Press the HOLD key.	2 : Day of the Week displays
8. Enter the day of week where: 1 = Mon, 2 = Tues., 3 = Wed., 4 = Thurs., 5 = Fri., 6 = Sat., 0 = Sun. Note: To clear an entry or existing data, press the FL/R key.	
9. Press the HOLD key to store the entry.	
10. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set System Speed Dial Index

Description

For a description of System Speed Dial (SSD), see “System Speed Dial” on page 189 for a Digital Key Telephone, “System Speed Dial” on page 251 for a Digital Single Line Telephone (DSL), and “System Speed Dial” on page 299 for a Single Line Telephone (SLT).

Operation

To set SSD index using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 02 .	
3. Press the HOLD key.	8102- SSD Assignment displays
4. Enter 2 .	
5. Press the HOLD key.	2 : SSD Index displays
6. Press the HOLD key.	Enter Index # displays
7. Enter the SSD Index number (1 - 2).	
8. Press the HOLD key.	A B C D E F XXX displays (where XXX = SSD bin number)
9. Enter the SSD Index name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) <p>Note: Press the FL/R key to clear any existing data.</p>	

Action	Result
10. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
11. Repeat steps 9-10 as many times as necessary to enter the desired SSD name. Note: Press the FL/R key to clear the entire entry.	
12. Press the HOLD key to store the entry.	Next SSD index number displays
13. To set additional SSD index names, press the volume up or down key or press the HOLD key to move to the desired SSD.	Desired SSD index number displays
14. Repeat steps 9-13 until all SSD indexes are entered.	
15. Press the MEMORY key to exit the entry mode.	Enter SSD # displays
16. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set System Speed Dial Names

Description

For a description of System Speed Dial (SSD), see “System Speed Dial” on page 189 for a Digital Key Telephone, “System Speed Dial” on page 251 for a Digital Single Line Telephone (DSLTL), and “System Speed Dial” on page 299 for a Single Line Telephone (SLT).

Operation

To set SSD names using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 02 .	
3. Press the HOLD key.	8102- SSD Assignment displays
4. Enter 1 .	
5. Press the HOLD key.	1 : SSD Name displays
6. Press the HOLD key.	Enter SSD # displays
7. Enter the SSD bin number (00-79 or 000-799).	
8. Press the HOLD key.	A B C D E F XXX displays (where XXX = SSD bin number)
9. Enter the SSD name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) Note: Press the FL/R key to clear any existing data.	
10. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
11. Repeat steps 9-10 as many times as necessary to enter the desired SSD name. Note: Press the FL/R key to clear the entire entry.	
12. Press the HOLD key to store the entry.	Next SSD bin number displays
13. To set additional SSD names, press the volume up or down key or press the HOLD key to move to the desired SSD.	Desired SSD bin number displays
14. Repeat steps 9-13 until all SSD names are entered.	
15. Press the MEMORY key to exit the entry mode.	Enter SSD # displays
16. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set System Speed Dial Numbers

Description

For a description of System Speed Dial (SSD), see “System Speed Dial” on page 189 for a Digital Key Telephone, “System Speed Dial” on page 251 for a Digital Single Line Telephone (DSL), and “System Speed Dial” on page 299 for a Single Line Telephone (SLT).

Operation

To set SSD numbers:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 02 .	
3. Press the HOLD key.	8102- SSD Assignment displays
4. Press the HOLD key.	0 : SSD Number displays
5. Press the HOLD key.	Enter SSD # displays
6. Enter the SSD bin number (00-79 or 000-799).	
7. Press the HOLD key.	-SSDXXX XXX displays (where XXX = SSD bin number)
8. Enter the SSD digits to be dialled. Note: Press the FL/R key to clear an entry or any existing data.	
9. Press the HOLD key to store the entry.	Next SSD bin number displays
10. To set additional SSD numbers, press the volume up or down key or press the HOLD key to move to the desired SSD.	Desired SSD bin number displays
11. Repeat steps 8-10 until all SSDs are entered.	
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Text Message Replies

Description

This menu item specifies reply text messages.

Operation

To set Text Message Replies using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 11 .	
3. Press the HOLD key.	8111- Text Message displays
4. Enter 1 .	
5. Press the HOLD key.	8111-1 : Reply Message displays
6. Press the HOLD key.	Enter Msg # displays
7. Enter the Message number (0-9).	
8. Press the HOLD key.	A B C D E F X displays (where X = Reply Text Message number)
9. Enter the Text Message (up to 15 characters): <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 91.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 92.) <p>Note: Press the FL/R key to clear any existing data.</p>	

Action	Result
10. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See Example 1. Large-Display Phone on page 91. • See Example 2. Small-Display Phone on page 92. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
11. Repeat steps 9-10 as many times as necessary to enter the desired Text Message. Note: Press the FL/R key to clear the entire entry.	
12. Press the HOLD key to store the entry.	Next message number displays
13. To set additional text Messages, press the volume up or down key or press the HOLD key to move to the desired Send Text Message.	Desired Text Message displays
14. Repeat steps 9-13 until all Text Message Replies are entered.	
15. Press the MEMORY key to exit the entry mode.	Enter Msg # displays
16. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Verified Account Codes

Description

(For a description of Verified Account Codes, see “Verified Account Codes” on page 119.)

You can enter up to 500 Verified Account codes. The System will store them in memory as valid codes. Once the codes are entered here, a Toll Restriction Service (TRS) (Call Barring) Class of Service (COS) can be used with each code. You can then enter your code on someone else’s phone to bypass the TRS (Call Barring) restrictions on that phone. (The TRS (Call Barring) assigned to the Verified Account code will override the phone’s TRS.)

Operation

To set the Verified Account code:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See "To enter User Maintenance mode:" on page 75.)	81- User MAINT displays
2. At the 81 level, enter 04 .	
3. Press the HOLD key.	8104- Verified ACCD displays
4. Press the HOLD key.	Table Number displays
5. Enter the Verified Account table number (001-500).	
6. Press the HOLD key.	XXX- Verified ACCD displays (where XXX = account code table number)
7. Press the HOLD key.	0001 : AAAAAAAAAA XXX:Account Code displays (where AAAAAAAAAA = current account code and XXX = account code table number)
8. Enter up to ten-digit Verified Account Code. (All Verified Account Codes must be unique. If there is a matching entry entered, the System will not accept the entry and will double beep.) Note: To clear an entry or existing data, press the FL/R key.	
9. Press the HOLD key.	0002 :X XXX:TRS Class displays (where X = TRS Class)
10. Enter the TRS (Call Barring) Class to be associated with the Verified Account Code entry.	
11. Press the HOLD key to store the entry.	0001 :YYY displays (where YYY = the next account code table number)
12. To add additional Verified Account numbers, press the volume up or down key or press the HOLD key to move to the desired Verified Account table number.	Desired Verified Account table number displays
13. Repeat steps 8-12 until all Verified Account numbers are entered.	
14. Press the MEMORY key to exit the entry mode	Table Number
15. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

Set Walking TRS (Call Barring) Codes

Description

You can assign Walking TRS (Call Barring) Codes for each extension.

Operation

To set Walking TRS (Call Barring) Codes using either a large-display or small-display phone:

Action	Result
1. If not already in User Maintenance mode, enter User Maintenance mode. (See “To enter User Maintenance mode:” on page 75.)	81- User MAINT displays
2. At the 81 level, enter 08 .	
3. Press the HOLD key.	8108- Walking TRS Cod displays
4. Press the HOLD key.	Walking ID-Ext displays
5. Dial the extension number.	
6. Press the HOLD key.	Walking ID XXX displays
7. Enter the 4-digit Walking TRS (Call Barring) Code.	
8. Press the HOLD key to store the entry.	Next extension number displays
9. To set additional extension Walking TRS (Call Barring) Codes, press the volume up and down key or press the HOLD key to move to the desired Extension.	
10. Repeat steps 8-10 until all extension are entered.	
11. Press the MEMORY key to exit the entry mode.	
12. To return to the top menu level (81), press the PROG key. OR... To exit the User Maintenance mode, press the ON/OFF key.	81- User MAINT displays OR... ON/OFF LED goes off

Hardware Requirements

- N/A

Considerations

- N/A

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Chapter 5. Key Telephone Features

This chapter describes Key telephone features. Key telephones are proprietary digital phones that provide feature access through a combination of feature keys and access codes.

This chapter covers the following topics:

Topic	Page
Key Telephone	116
Absence Message	116
Account Codes	118
Non-Verified Account Codes	119
Verified Account Codes	119
Attendant Group Calls	120
Auto Repeat Dial	121
Background Music	122
Busy Override	123
Callback Request	124
Call Forwarding	125
Call Forwarding-All Calls	125
Call Forwarding - Busy	126
Call Forwarding - No Answer	127
Call Forwarding-All Calls and Do-Not-Disturb	128
Call Hold	129
System Hold	129
Floating Hold	130
Exclusive Hold	131
Broker's Hold	131
Call Park	132
Call Hold	129
Extension Group Pickup	134
Extension Direct Pickup	135
Trunk Group Pickup	136
Trunk Direct Pickup	136
Call Transfer	137
Supervised Transfer	137
Unsupervised Transfer	138
Camping a Call Onto a Busy Extension	139
Caller ID Call Log	140
Camp-on (Call Waiting)	144
Conference Calls	147
Directory Numbers	149

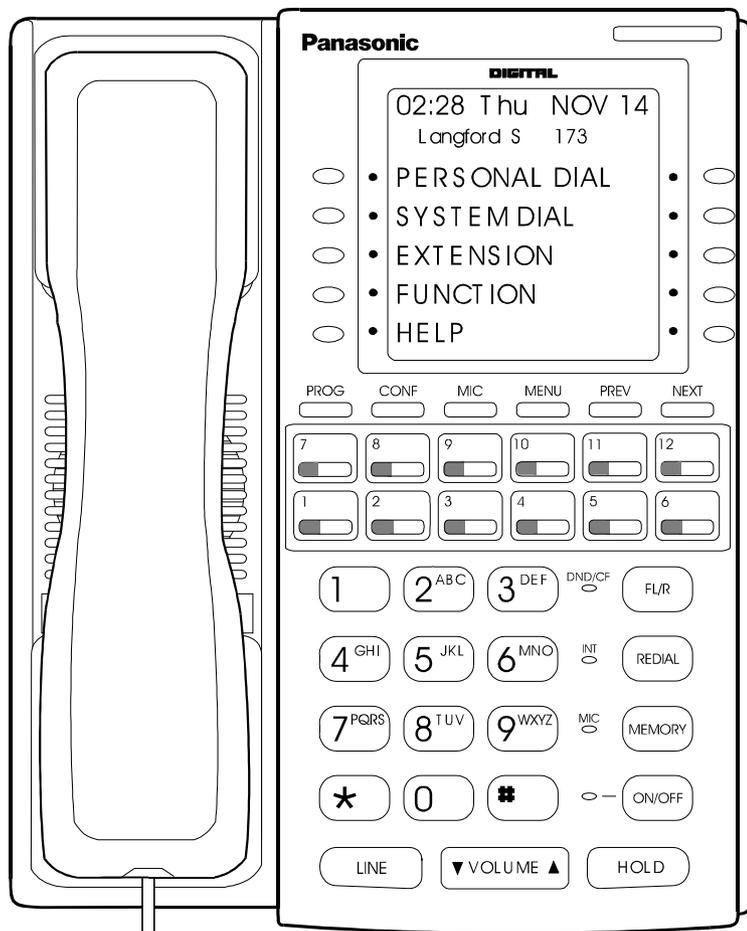
Topic	Page
Display Information	152
Caller ID Display Information	153
Large-Display Phone	153
Small-Display Phone	154
Changing the Display Contrast	155
Do-Not-Disturb	155
DP to DTMF Signal Conversion	156
DSS/72 Console	157
EM/24 Console	157
Flash	158
Flexible Function Keys	158
Handsfree Answerback	165
Handsfree Operation	165
Headset Operation	166
Hot Dial Pad	166
Hot Line	167
Intercom Calling	167
Last Number Redial	168
Line Appearances	169
DSS/BLF Appearances	169
DIL Appearances	171
MCO Appearances	171
Message Key	172
Message Waiting/Callback	173
Mute Function	175
Offhook Monitor	175
Offhook Signalling	176
Offhook Voice Announce	177
One-Touch Keys	179
Onhook Dialling	181
Paging	181
Meet-Me Answer	182
Ringing Line Preference	183
Room Monitoring	183
Silent Monitor	185
Speed Dialling	187
Personal Speed Dial	187
System Speed Dial	189
Speed Dial Linking	191

Topic	Page
Speed Dial Name Assignments	192
Station Lockout	197
Step Call (Reset Call)	199
Timed Reminder Call	200
Trunk Access	201
Trunk Key Access	201
Direct Trunk Access	201
MCO Line Preference	202
MCO Trunk Access	202
Trunk Queuing	203
Universal Night Answer to Page	204
Variable Mode	205
Voice Recognition	207
Volume Control	208
Walking TRS (Call Barring) Class of Service	209
Zip Mode	210

Key Telephone

As an example of a key telephone, Figure 2 illustrates the Panasonic model VB-44225/VB-D411LDSUK. This model provides a large display that includes one-touch access to speed dial numbers, telephone features, and Help screens.

Figure 2. Large Display Key Telephone



Absence Message

Description

Extension users can leave text messages on their phones when they are away. When the unattended extension is dialed, the text message displays on the caller's phone. Any one of the following messages can be selected. Messages 5 to 9 have no default message text. All the messages can be changed through system programming.

Beginning with Version 5.0, an LED lamp on the Absence Message key will light red when this feature is active

Table 14. Absence Messages

Message No.	Message Text	Message No.	Message Text
0	In Meeting	5	Absence_No_5
1	At Lunch	6	Absence_No_6
2	Out of Office	7	Absence_No_7
3	Vacation	8	Absence_No_8
4	Another Office	9	Absence_No_9

Optionally, a return time can be input. Example Return Times for Absence Messages include

Input	Display
No input	Return
9	Return 9:00
11	Return 11:00
615	Return 6:15
1035	Return 10:35

Operation

To set an Absence Message

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	Enter Msg Code # displays
3. Enter the Absence Message number. (See Table 14 above.)	Enter XXXX Hold In Meeting displays
4. If desired, enter the 4-digit returning time.	Absence message displays
5. Press HOLD key.	ABS MSG Accepted displays; LED lamp lights red on Absence Message key
6. Replace the handset or press the ON/OFF key.	

To cancel an Absence Message

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	Enter MSG Code displays
3. Press HOLD key.	ABS MSG Cleared displays
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Calling parties without a display get a ring back tone, rather than the Absence Message.
- If a message code number that has not been programmed is selected, **Absence No.n**, appears on the display (n = message number).
- Regardless of setting an Absence Message on a DDI/DL extension, DDI/DL calls are routed according to the trunk ringing setting.
- An absence message may also be cancelled by dialling **7****. This cancels Do-Not-Disturb (DND) and Call Forwarding-All Calls as well.

Account Codes

Description

You can assign account codes to clients to facilitate billing and to track call dates and times, numbers called, and outside line numbers used. This information is printed for each account on the System Message Detail Recording (SMDR) (Call Logging) record.

In addition verified account codes may be used to change the TRS (Call Barring) level to allow calls to numbers otherwise restricted.

Account codes may be either forced or unforced (voluntary) and either verified or unverified.

This feature works with SMDR (Call Logging). During a phone call, a station user can silently enter an accounting or client billing code. The entered Code will display on the phone's LCD as it's dialled, so the user can tell it's being registered. Then later, the Call Logging reports will show the Code dialled for each call, and even sort the report by these Codes.

There are two different types of account codes: Non-Verified and Verified Account Codes. Prior to Version 5.0, the maximum amount of account code numbers for both types could range from 1-10 digits. Beginning with Version 5.0, a second mode has been added that allows the user to set the maximum amount of account code numbers from 1-4 digits. An account code error will occur when more than the maximum number of digits are entered.

Non-Verified Account Codes

Non-Verified Codes aren't checked by the system for validity. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. Individual phones can be programmed to accept *forced* Account Codes (the user must enter a code for every call) or *voluntary* Account Codes (the user can enter a code, but doesn't have to, for each call).

Non-Verified Account Codes can be assigned to incoming and/or outgoing calls. For incoming calls, the user can enter the Code anytime during the call. For outgoing calls, the user either enters the Code before accessing an outside line (for *forced* Codes), or anytime during the call (for *voluntary* Codes).

Verified Account Codes

Verified Account Codes entered by phone users must match a code that has been preprogrammed into an Account Code Table. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. These codes can also be either *forced* or *voluntary*. You can program these codes with their own

Toll Restriction Service (TRS) (Call Barring) Class assignment so that, when entered, they will override the extension's TRS (Call Barring) Class. Thus, Verified Account Code users can "float" from phone to phone, placing calls that would normally be restricted on that phone.

Non-Verified Account Codes

Non-verified Account codes are voluntary codes. (i.e., You do not have to enter an account code before making a call.)

You can assign Non-verified Account codes to both incoming and outgoing calls. To assign an account code to an outgoing call, you enter the account code before making the call or during the call. To assign an account code to an incoming call, you enter the account code during the call.

Operation

To enter an account code before making a call:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Account Code feature code (default = 8#).	Enter Account # displays
3. Enter the Account Code (up to 10 digits).	Specified account code displays
4. Press the # key.	Specified account code # displays
5. Press a vacant trunk key or enter a Trunk Access Code (default = 9 [UK/HK] or 0 [Taiwan, Malaysia, Indonesia]).	CO Trunk Key LED lights
6. Dial the phone number.	Dialled phone number displays

To enter an account code during an outside call:

Action	Result
1. During a call, press the MEMORY key.	
2. Press the # key.	Enter Account # displays
3. Enter the Account Code (up to 10 digits).	Specified account code displays
4. Press the # key.	Display returns to call state.

Verified Account Codes

Stations restricted from outside call origination by TRS (Call Barring) can be allowed to make outgoing calls by entering a Verified Account code that changes the TRS (Call Barring). After a call is made, the Call Logging record for the call will show the verified account code.

Operation

To make an outside call that requires an account code:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Verified Account ID code (default = 8#).	Enter Account # displays
3. Enter the Account Code (10 digits max.).	Specified code displays
4. Press the # key.	Specified account code # displays
5. Press a vacant trunk key or enter a Trunk Access Code (default = 9 [UK/HK] or 0 [Taiwan, Malaysia, Indonesia]).	CO Trunk Key LED lights
6. Dial the phone number.	Dialled phone number displays

Hardware Requirements

- An Call Logging printer or external call accounting system is required to collect account code records.

Considerations

- Account codes are not available during conversation recording mode for the Built-In Voice Mail.
- Account codes will be cancelled after using trunk queuing.
- Account Codes interact with TRS (Call Barring) as shown in the following table:

Forced or Not Forced	Verified or Non-Verified	TRS (Call Barring) Class	
		No Account Entry	Account Entry
Not Forced	Non-Verified	Extension Port Based TRS Class	Extension Port Based TRS Class
	Verified		Account Code Based TRS Class
Forced	Non-Verified	TRS (Call Barring) Class for Forced Account Code (FF1 0 19 0001)	Extension Port Based TRS Class
	Verified		Account Code Based TRS Class

Attendant Group Calls

Description

You can call the attendant group from any extension by dialling the designated attendant number.

Operation

To call an attendant group:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the attendant pilot number (default = 0 [UK/HK] or 9 [Taiwan, Malaysia, Indonesia]).	Call Attendant displays

Hardware Requirements

- N/A

Considerations

- Up to 20 extensions can be included in an attendant group.
- The attendant pilot number is flexible.
- If a member of an attendant group is for a virtual extension, multiple extensions in the attendant group can be made to ring at once when the virtual number is dialed.

Auto Repeat Dial

Description

If you press the **FL/R** key while receiving busy tone on an outside call, the System automatically redials the number. The System continues to redial the number at set intervals until the called number answers, the caller hangs up, or the maximum of 15 redial attempts is made.

Operation

To use Auto Repeat Dial:

Action	Result
1. Press the ON/OFF key.	Intercom dial tone
2. Press a vacant trunk key or enter a Trunk Access Code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or or 81-84).	Trunk key LED lights
3. Dial the phone number.	<ul style="list-style-type: none"> • Dialed phone number displays • Busy tone
4. Press the FL/R key.	System automatically redials number

Hardware Requirements

- N/A

Considerations

- N/A

Background Music

Description

If your System is set up to provide Background Music, music can be played from the speakers of idle telephones. If a call is made to an extension receiving Background Music, the music stops and the phone rings. Background Music is also interrupted when the phone goes offhook.

The System can also provide Music-on-Hold (MOH) using a separate music source (except with CPC-HS). If MOH is provided, callers automatically hear music when they are placed on hold. (For more information on MOH, see page 45.)

Note: CPC-HS has only 1 input that is used for both BGM and MOH.

Operation

To turn Background Music on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Background Music code (default = *30).	BGM ON displays
3. Replace the handset or press the ON/OFF key.	

To turn Background Music off:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Background Music code (default = *30).	BGM OFF displays
3. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- The music source must be purchased separately. It is not provided with the System.



Important: A license may be required from the Society of Composers, Authors, and Publishers (ASCAP) or similar organizations to transmit radio or recorded music through the MOH and/or Background Music feature. Panasonic, its distributors, and affiliates assume no liability should users of Panasonic equipment fail to obtain such a license.

Considerations

- N/A

Busy Override

Description

Busy Override allows you to break into another user's outside or intercom calls to relay urgent information or to create three-party conference calls.

Operation

To break into a call with a line appearance on your phone (Trunk Key Busy Override):

Action	Result
1. Press the lit direct trunk key.	<ul style="list-style-type: none"> Alert tone sounds to both phones (System programming required) Connected to both parties

To use Extension Busy Override:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	<ul style="list-style-type: none"> Dialled extension number displays Busy tone
3. Enter the Busy Override code (default = 9 [UK/HK] or 9# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> Alert tone sounds to both extensions (System programming required) Connection to both parties OVR1: (name of overriding extension) and OVR2: (extension name for current talk path) displays on both extensions

Hardware Requirements

- N/A

Considerations

- You cannot break in on three-party conference calls.
- The default for the Override Alert Tone is **off**. If the Override Alert Tone is enabled, the tone will be sent to both parties when a call is overridden.
- Beginning with Version 4.5 and higher, certain extensions can be excluded from busy override based on Class of Service.

Callback Request

Description

If you dial a busy extension, Callback Request enables the System to call you back when that extension becomes free. When you answer, the System automatically rings the called party again.

Operation

To set a Callback Request:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	<ul style="list-style-type: none"> Dialled extension number displays Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	Ringback tone
4. Replace the handset after you hear the ringback tone.	System calls back when called extension becomes free

To respond to a Callback Request:

Action	Result
1. Lift the handset.	System automatically redials extension

To cancel a Callback Request:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the Callback cancellation code (default = 769 [UK/HK] or 769# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset .	

Hardware Requirements

- N/A
- FF1-2-03: Dial Plan (Callback Cancel)

Considerations

- N/A

Call Forwarding

Description

Call Forwarding allows you to send your calls to another extension, to an outside line, or to Voice Mail. Call Forwarding can be set or cancelled under the following conditions from either your own extension or from an alternate extension:

- Call Forwarding - All Calls
- Call Forwarding - Busy
- Call Forwarding - No Answer

Call Forwarding-All Calls

When Call Forwarding - All Calls is set, all incoming calls to an extension are immediately forwarded. **Beginning with Version 5.0, a Flexible Function key can be programmed so that the LED indicates when this feature is active. The LED will light red when Call Forwarding-All Calls is set.**

Operation

To set Call Forwarding-All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 721 (UK/HK) or 721# (Taiwan, Malaysia, Indonesia). • For another extension, enter 741 (UK/HK) or 741# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward.	
4. Enter the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For information, see “Speed Dialling” on page 187.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding-All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 731 (UK/HK) or 731# (Taiwan, Malaysia, Indonesia). • For another extension, enter 751 (UK/HK) or 751# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding - Busy

When Call Forwarding - Busy is set, all incoming calls to a busy extension are forwarded.

Operation**To set Call Forwarding - Busy:**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 722 (UK/HK) or 722# (Taiwan, Malaysia, Indonesia). • For another extension, enter 742 (UK/HK) or 742# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you want to forward.	
4. Enter the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For information, see “Speed Dialling” on page 187.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding - Busy:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 732 (UK/HK) or 732# (Taiwan, Malaysia, Indonesia). • For another extension, enter 752 (UK/HK) or 752# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding - No Answer

When Call Forwarding - No Answer is set, a call will ring until the Call Forward - No Answer timer expires. When the timer expires, the unanswered call is forwarded.

Operation**To set Call Forwarding - No Answer:**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 723 (UK/HK) or 723# (Taiwan, Malaysia, Indonesia). • For another extension, enter 743 (UK/HK) or 743# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward.	
4. Dial the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For information, see “Speed Dialling” on page 187.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding - No Answer:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 733 (UK/HK) or 733# (Taiwan, Malaysia, Indonesia). • For another extension, enter 753 (UK/HK) or 753# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding-All Calls and Do-Not-Disturb

The System allows you to cancel both Call Forwarding-All Calls and Do-Not-Disturb (DND) for your own extension in one step.

Operation**To cancel Call Forwarding-All Calls and DND:**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the CF-All/DND Clear code (default = 7**).	
3. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Calls cannot be forwarded to an extension that already has Call Forwarding or DND activated. (For example, extension 220 can only forward to extension 225 if 225 is not forwarded.)
- If forwarding to an outside number, the destination number must be pre-programmed into a System Speed Dial (SSD) code.
- Call Forwarding - Busy and Call Forwarding - No Answer can both be set at the same time.
- You can set Call Forwarding - All Calls while Call Forwarding - No Answer and/or Call Forwarding - Busy are set. Cancelling one mode only affects that mode; however, the other modes will remain set until cancelled individually.
- An auto camp-on to a busy extension will forward to the Call Forward No Answer destination. A manual camp-on to a busy extension will not forward.
- If Call Forwarding No Answer and DND are both set, calls immediately forward to the Call Forward No Answer destination.
- You can cancel both Call Forwarding-All Calls and DND by entering **7 * ***.

- Beginning with Version 4.5 and higher, calls can be forwarded by an extension with an NPDN or PNPDN if the COS gives permission. See “Directory Numbers” on page 149 for more information.

Call Hold

Description

The System provides the following types of Call Hold or Call Park:

- System Hold
- Floating Hold
- Exclusive Hold
- Broker’s Hold
- Station Call Park

System Hold

You can place either an outside or intercom call on System Hold. You can retrieve a call placed on System Hold from any extension that has a line appearance for the held call.

Operation

To place a call on System Hold:

Action	Result
1. While on a call, press the HOLD key.	<ul style="list-style-type: none"> Intercom dial tone Hold CO XXX displays (where XXX = outside line number)

To retrieve a call placed on System Hold from the extension that placed it there:

Action	Result
1. Press the line key that is flashing green or press the HOLD key if a non-appearing trunk call.	CO XXX displays (where XXX = outside line number)

To retrieve a call placed on System Hold from an extension other than the one that put it there:

Action	Result
1. Press the line key that is flashing red.	CO XXX displays (where XXX = outside line number)

To retrieve a held call on a specific trunk:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Specified Trunk Answer code (default = *0).	Enter TRK # displays
3. Enter the trunk number.	

Hardware Requirements

- N/A

Considerations

- N/A

Floating Hold

Floating Hold is a type of System Hold that allows you to retrieve a held call from any extension that has an FF key assigned to the same Floating Hold orbit where the call is held. You can also retrieve a call by dialling the Floating Hold orbit number for the held call.

Floating Hold is useful when the intended recipient of a call must be located via a page. The call can be placed in a Floating Hold “orbit” and that orbit number announced during the page. The paged party can then pick up the call by dialling the orbit number or by pressing an FF key assigned to that orbit number.

Note: To place a call on Floating Hold, you should have at least one FF key assigned to a Floating Hold orbit number.

Operation**To place a call on Floating Hold:**

Action	Result
1. While on a call, press the Floating FF key (system programming required) or press the HOLD key.	<ul style="list-style-type: none"> • Intercom dial tone • Hold CO XXX displays (where XXX = outside line number)

To retrieve a call from Floating Hold:

Action	Result
1. (A) Press the FF key assigned to the Floating Hold orbit number where the call is held. OR... (A) Enter the Floating Hold Answer feature access code (default = *9). (B) Enter the Floating Hold orbit number 01-96 (CPC-HS/HM) or 01-09 (CPC-HS/HM) (See considerations below.)	CO XXX displays if line released (where XXX = outside line number)

Hardware Requirements

- N/A

Considerations

- The number of floating hold orbits available may vary depending on the Station/Floating Park Hold Pickup setting (FF1-0-02-0025). The call pickup access code can set to *9 (default). The “*9” access code operates as follows:

System Size	Virtual Line Number and Operation
S-ICX	01-09: Floating Hold pick up 10-96: For Station Park Hold pick up purpose

Exclusive Hold

With Exclusive Hold, only the extension that held the call can retrieve it. Exclusive Hold can be used to hold trunk calls and extension calls.

Operation

To place a call on Exclusive Hold:

Action	Result
1. While on a call, press the trunk key used for the call or press the HOLD key.	<ul style="list-style-type: none"> • Intercom dial tone • Hold CO XXX displays (where XXX = outside line number)

To retrieve a call from Exclusive Hold:

Action	Result
1. Press the trunk key on which the call is held.	<ul style="list-style-type: none"> • Trunk LED stops flashing, remains green • CO XXX displays if call released (where XXX = outside line number)

Hardware Requirements

- N/A

Considerations

- Intercom calls will be held as Exclusive when placed on hold by pressing the **HOLD** key.

Broker's Hold

Broker's Hold allows you to toggle between the current call and the last held call by pressing the **HOLD** key.

Operation

To place a call on Broker's Hold:

Action	Result
1. Pick up the first call.	
2. Press the HOLD key.	First call on hold
3. Pick up the second call.	
4. Press the HOLD key.	Second call on hold, first call retrieved

Hardware Requirements

- N/A

Considerations

- In order to use Broker's Hold with trunk calls, the first call must have a possible appearance and non-appearance, but in the case of appearance, the first call must be one of trunk key.

Call Park

You can use the Call Park function to transfer a call, even if you cannot locate the intended recipient of the call.

Trunk, Extension, and Network calls may be parked.

There are two ways for an extension to park a call on the S-ICX. One way is to park the call at the receiving extension and to retrieve the parked call at another extension by dialling the park answer code plus the parking extension number. The other way is to park the call at another extension and dial the park transfer answer code at the other extension to retrieve the call. **Beginning with Version 5.0, the user may park the call at another extension by pressing the BLF key. In addition, an Extension Group Pickup code allows the user to pick up a Transfer Recall (only on non-appearing calls), a Hold Recall, and a Station Park Recall.**

Operation

To park a call on this extension:

Action	Result
1. While on a call, press the HOLD key.	<ul style="list-style-type: none"> • Current call on hold • CO HOLD #XX displays (where XX = trunk number)
2. Enter the Call Park Hold access code (default = 771 [UK/HK] or 771# [Taiwan, Malaysia, Indonesia]) or press the PARK HOLD key.	Accepted ST-Park displays
3. If necessary, page the party that needs to retrieve the call.	

To retrieve a call parked at the originating extension from another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
Enter the Call Park Answer/Other Ext. access code (default = 773 [UK/HK] or 733# [Taiwan, Malaysia, Indonesia]). OR... Enter the Call Park/Floating Hold Answer feature access code (default = *9).	Enter Park EXT # displays
2. Dial the number of the extension that parked the call.	<ul style="list-style-type: none"> • CO TALK TRK #XX displays (where XX = line number) • Connected to parked call

To park a call at another extension:

Action	Result
1. Press the HOLD key.	<ul style="list-style-type: none"> • Current call on hold • CO HOLD #XX displays (where XX = trunk number)
2. Enter the Call Park Transfer access code (default = 774 [UK/HK] or 774# [Taiwan, Malaysia, Indonesia]).	Enter TRNS EXT # displays
3. Dial the extension number to receive the parked call, OR Press the BLF key	Park (ext#) displays on lower display
4. If necessary, page the party that needs to retrieve the call.	

To retrieve a transferred call park:

Action	Result
1. At the extension with the transferred park call, lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter Call Park Answer/Self access code (default = 772 [UK/HK] or 772# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • CO TALK TRK #XX displays (where XX = line number) • Connected to parked call

Hardware Requirements

- N/A

Considerations

- You cannot park more than one call at a time.
- Call Park functions can be assigned to FF keys (see “Flexible Function Keys” on page 158).
- No more than one Call Park Answer key may be assigned to a single telephone.
- A Call Park Answer key may not be assigned to the EM/24 or DSS/72 console.

- If a call is parked by Call Park key, the LED flashes.
- LCD softkeys are also available for Call Park.
- Once a call is parked, it cannot be accessed by the trunk key or direct trunk access (similar to exclusive hold).
- If two calls are on hold and the last call is parked, the other call is then considered the last held call. If a transfer is performed, the remaining held call would be the call transferred, not the parked call.
- Depending on the Station/Floating Park Hold Pickup setting (FF1-0-02-0025), the call pickup access code can set to *9 (default), **773 (UK/HK)**, or **773# (Taiwan, Malaysia, Indonesia)**. The “*9” access code operates as follows:

System Size	Virtual Line Number and Operation
96	01-09: Floating Hold pick up 10-96: For Station Park Hold pick up purpose

Call Pickup

Description

The System allows the following types of call pickup:

- Extension Group Pickup
- Extension Direct Pickup
- Trunk Group Pickup
- Trunk Direct Pickup

Extension Group Pickup

Extension Group Pickup allows you to pick up a direct ringing call (within your extension pickup group or in a different pickup group) without having to dial the number of the ringing extension.

Three types of Extension Group Pickup are available:

- **Call Pickup - All Calls:** You can pick up a call ringing anywhere within your own extension group.
- **Call Pickup - External Calls:** You can pick up only external calls ringing within your own extension group.
- **Specified Group Pickup:** You can pick up a call ringing to an extension in another extension group.

Operation

To use Extension Group Pickup - All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone

Action	Result
2. Enter the Extension Group Pickup - All Calls code (default = 701 [UK/HK] or 701# [Taiwan, Malaysia, Indonesia]).	Extension number or outside phone number displays
3. Complete the call and replace the handset or press the ON/OFF key.	

To use Extension Group Pickup - External Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Extension Group Pickup - External Calls code (default = 702 [UK/HK] or 702# [Taiwan, Malaysia, Indonesia]).	Extension number or outside phone number displays
3. Complete the call and replace the handset or press the ON/OFF key.	

To use Specified Group Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Specified Group Pickup code (default = 703 [UK/HK] or 703# [Taiwan, Malaysia, Indonesia]).	
3. Enter the number of the call pickup group (01-72) where the call is ringing.	Extension number or outside phone number displays
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- The Call Pickup Group assignments determine the order calls are picked up (i.e. if two calls are ringing in the call pickup group, the call ringing the first member will be picked up first).

Extension Direct Pickup

Extension Direct Pickup allows you to answer a call to another extension by dialling the number of the ringing extension.

Operation

To use Extension Direct Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Extension Direct Call Pickup code (default = 704 [UK/HK] or 704# [Taiwan, Malaysia, Indonesia]).	
3. Dial the number of the ringing extension.	Extension number or outside phone number displays
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

Trunk Group Pickup

Trunk Group Pickup allows you to answer calls ringing to any extension within your own MCO incoming trunk group.

Operation

To use Trunk Group Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Trunk Group Pickup code (default = 709 [UK/HK] or 709# [Taiwan, Malaysia, Indonesia]).	Extension number or outside phone number displays
3. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

Trunk Direct Pickup

Trunk Direct Pickup allows you to answer calls ringing on a specific trunk number.

Operation

To use Trunk Direct Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Trunk Direct Pickup code (default = *0).	
3. Dial the number of the ringing or holding (system) trunk.	Outside number displays
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Calls in Exclusive Hold cannot be picked up.

Call Transfer

Description

The System allows you to transfer calls to either another extension or to an outside number. The transferred calls can be either supervised or unsupervised. (You can also use the Camp-on feature to transfer a call to a busy extension.)

Supervised Transfer

When completing a supervised transfer, the transferring party remains on the line until the third party answers, then he/she announces the call.

Operation

To supervise the transfer of a call to another extension:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	

Action	Result
3. When the call is answered, inform the third party of the transfer.	Talk-EXT Name or Number displays
4. Complete the transfer: <ul style="list-style-type: none"> • If On-Hook Transfer is enabled for your Extension COS, replace the handset or press the ON/OFF key. • If On-Hook Transfer is disabled, press the PROG key (or RELEASE key if using DSS/72). 	

To supervise the transfer of a call to an outside number:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Seize a trunk line and dial the number to which the call is to be transferred.	
3. When the call is answered, inform the third party of the transfer.	Talk-EXT XXX displays (where XXX = extension)
4. Complete the transfer: <ul style="list-style-type: none"> • If On-Hook Transfer is enabled for your Extension COS, complete the transfer by replacing the handset or pressing the ON/OFF key. • If On-Hook Transfer is disabled, press the PROG key (or RELEASE key if using DSS/72). 	Original call LED light turns red

Unsupervised Transfer

When completing an unsupervised transfer, the transferring party hangs up before the third party answers.

Operation

To transfer a call to another extension without supervising the transfer:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. Complete the transfer: <ul style="list-style-type: none"> • If On-Hook transfer is enabled for your Extension COS, replace the handset or press the ON/OFF key. • If On-Hook is disabled, press the PROG key (or RELEASE key if using DSS/72). 	

To transfer a call to an outside number without supervising the transfer:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Press a vacant trunk key or enter a trunk access code (default = 9 [UK/HK] or 0 [Taiwan, Malaysia, Indonesia]).	
3. Dial the number to which the call is to be transferred.	
4. Complete the transfer: <ul style="list-style-type: none"> • If On-Hook Transfer is enabled for your Extension COS, complete the transfer by replacing the handset or pressing the ON/OFF key. • If On-Hook Transfer is disabled, press the PROG key (or RELEASE key is using DSS/72). 	

Camping a Call Onto a Busy Extension**Operation****To camp a call onto a busy extension:**

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. If your extension does not have Auto Camp-on activated, enter the Camp-on (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	Camp-on tone heard at the called extension
4. Complete the transfer: <ul style="list-style-type: none"> • If On-Hook Transfer is enabled for your Extension COS, complete the transfer by replacing the handset or pressing the ON/OFF key • If On-Hook Transfer is disabled, press the PROG key (or RELEASE key is using DSS/72). 	

Hardware Requirements

- N/A

Considerations

- If On-Hook Transfer is not enabled for the transferring party's Extension Class of Service (COS), he/she must press the **PROG** or **RELEASE** key before hanging up to complete the transfer.
- If the call is not answered by the third party before the Transfer Recall Timer expires, the call will recall to the transferring extension.
- **Beginning with Version 5.0, a Transfer Recall (only on non-appearing calls) may be answered on another extension using the Call Pickup feature. However, an incoming Transfer Recall cannot be picked up during conversation.**

- If a Transfer Recall is not answered before the Recall Duration Timer expires, the call will revert to the Attendant group.
- If the called party does not exist, the call recalls to the transferring extension.
- You cannot transfer a call to an extension that has Do-Not-Disturb (DND) activated.
- You can transfer a call to an extension that has Call Forwarding activated. The transferred call will follow the call forwarding path of the extension it is transferred to. For example, if extension 221 is forwarded to extension 225, calls that are transferred to extension 221 will be forwarded to extension 225.
- Calls can be transferred from paging using supervised transfer.
- If a call is unsupervised transferred to a busy extension, the call will camp on to the busy extension.
- To transfer to a outside party, it is best to use supervised transfer. If the trunk-to-trunk on-hook transfer restriction is enabled, a blind transfer will result in the loss of the second call but the second call will be kept on hold. If not enabled and the second outside party is busy, the transferred party will receive busy.

Caller ID Call Log

Description

(**Note:** Analog Caller ID is not available in the UK, TX, or EX model).

The Call Log keeps a record of Caller ID calls to individual phones. The Call Log allows you to view Caller ID calls that have been sent to your phone and, if desired, return a call.

The following table shows maximum number of extensions that may have call logs and the number of entries.

Table 15. Call log maximums

Call Log Maximums	Maximum
Maximum number of extensions with Call Log	20 per CCU
Number of log entries that can be stored for an extension. (After the call log fills with 10 entries, each additional entry overwrites the oldest log entry.)	10

The Call Log stores information for Caller ID calls that ring a phone. If the phone does not ring (for instance when Call Forward - All Calls is active), there is no entry in the Call Log for that call.

Each Call Log entry includes the following call information:

- Calling number
- Time and date
- Whether the call was answered
- How the call was routed.

The most recent entries are stored first in the Call Log.

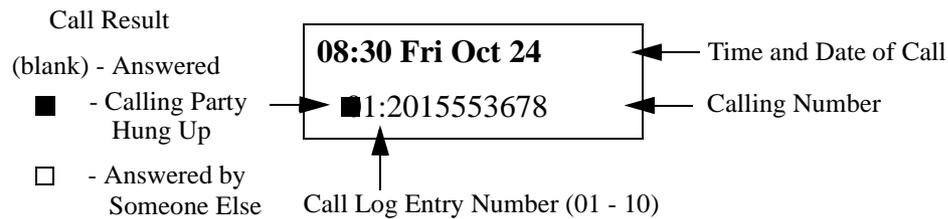
Call Log Operation on a Small Display Key Telephone

Operation

To view the Call Log:

Action	Result
1. Go off-hook or press the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log	
4. Exit the Call Log by going on hook or by pressing the ON/OFF key.	

Example Caller ID Call Log (Small Display Telephone):



To outdial from the Call Log:

Action	Result
1. Go off-hook or press the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log	
4. To return a call, (and exit the Call Log): Press the left EXEC key to access Access MCO 1 (dial 9 [UK/HK] or 0 [Taiwan, Indonesia, Malaysia]), dial add digits if required (usually "1" in USA only), and dial the displayed caller ID number. OR... Press the right EXEC key (soft key) to access Access MCO 1 (dial 9 [UK/HK] or 0 [Taiwan, Indonesia, Malaysia]), and dial the caller ID number.	

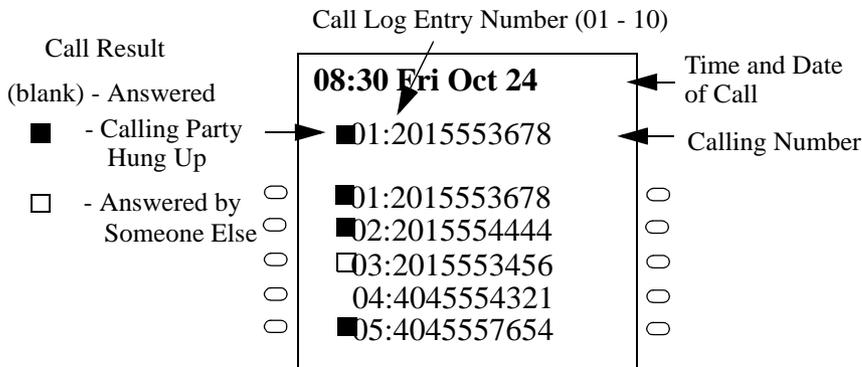
To store the Call Log number in a personal speed dial:

Action	Result
1. Go off-hook or the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log	
4. To store the call log number in a personal speed dial: Press the PROG key, the speed dial bin number (80-99) and press the left EXEC key (to dial the add digits, usually an area code) and press the HOLD key. OR... Press the PROG key, the speed dial bin number (80-99) and press the right EXEC key (soft key) and press the HOLD key.	

Call Log Operation on a Large Display Key Telephone**Operation****To view the Call Log:**

Action	Result
1. Go off-hook or press the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log NEXT - View the next 5 calls PREV - View the previous 5 calls	
4. Exit the Call Log by going on hook or by pressing the ON/OFF key.	

Example Caller ID Call Log (Large Display Telephone):



To outdial from the Call Log:

Action	Result
1. Go off-hook or press the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log NEXT - View the next 5 calls PREV - View the previous 5 calls	
4. To return a call, (and exit the Call Log) Press the Soft key to the left of the desired number to access Access MCO 1 (dial 9 [UK/HK] or 0 [Taiwan, Malaysia, Indonesia]), dial add digits if required (in USA only, usually "1"), and dial the displayed caller ID #. OR... Press the Soft key to the right of the desired number to access MCO 1 (dial 9 [UK/HK] or 0 [Taiwan, Malaysia, Indonesia]), and dial the caller ID #.	

To store the Call Log number in a personal speed dial:

Action	Result
1. Go off-hook or press the ON/OFF key.	Intercom dial tone
2. Enter the Call Log feature code (default = CONF 96).	Phone enters call log mode.

Action	Result
3. Press the following keys to view the call log: # - Move forward in call log * - Move back in call log NEXT - View the next 5 calls PREV - View the previous 5 calls	
4. To store the call log number in a personal speed dial: Press the PROG key, the speed dial bin number (80-99) and press the left Soft key (to dial the add digits, usually an area code) and press the HOLD key. OR... Press the PROG key, the speed dial bin number (80-99) and press the right Soft key and press the HOLD key.	

Hardware Requirements

- Caller ID daughter circuit card on the Loop Start Trunk Card if a Loop Start Trunk receives the call.
- ISDN (PRI-T Point) if ISDN card receives the call.
- Large Display Telephone or 44-Series Small Display Telephone.

Considerations

- Caller ID is available ISDN PRI.
- Caller ID circuit card must be installed and enabled. (See “Caller ID” on page 26).
- Caller ID is typically 10 digits. If the local calling area requires 7-digit dialling, the call log outdialling will not operate properly.

Camp-on (Call Waiting)

Description

If you dial a busy extension, you can camp onto that extension and send a Call Waiting signal to the called party. The called party then needs only to replace the handset and pick it up again to be automatically connected to the new call. The called party can also press the **HOLD** key to place the first call on hold and then answer the waiting call.

The System provides two types of call waiting:

- **Automatic Call Waiting:** You do not need to enter a code to send the Call Waiting signal to the busy extension. You need only to remain on the line.
- **Manual Call Waiting:** You must enter a code to send a Call Waiting signal to the busy extension.

Beginning with CPC Version 3.0, you can leave a text message that displays on the busy phone. Any one of the following messages can be selected. Messages 6 to 9 and 0 have no default message text. All the messages can be changed through system programming. (See “Set Text Message Replies” on page 108 for more information on setting Send Text Messages).

Table 16. Send Text Messages

Message No.	Message Text	Message No.	Message Text
1	Visitor Here	6	User Defined
2	Need Help	7	User Defined
3	Important	8	User Defined
4	Urgent	9	User Defined
5	Emergency	0	User Defined

Also beginning with Version 3.0, the busy party can reply with a text message that displays on the camping on phone. Any one of the following messages can be selected. Messages 6 to 9 and 0 have no default message text. All the messages can be changed through system programming. (See “Set Text Message Replies” on page 108 for more information on setting Text Message Replies).

Table 17. Text Message Replies

Message No.	Message Text	Message No.	Message Text
1	Take A Message	6	User Defined
2	Please Hold	7	User Defined
3	Will Call Back	8	User Defined
4	Transfer	9	User Defined
5	Unavailable	0	User Defined

Operation

To use Automatic Camp-on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	<ul style="list-style-type: none"> • Wait XXX displays (where XXX = extension number/name) • Called party hears alert tone from the speaker. • Calling party hears ringback tone
3. Remain on the line until the called party answers.	

To use Manual Camp-on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	Busy tone

Action	Result
3. Enter the Camp-on (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • Wait XXX displays (where XXX = extension number/name) • Called party hears alert tone from the speaker • Calling party hears ringback tone
4. Remain on the line until the called party answers.	

To leave a text message while camped-on:

Action	Result
1. Press the MSG FF key.	
2. Enter the Send Text Message number (1-9, 0). (See Table 16 on page 145 for the send text messages.)	The send text message appears on the busy telephone display.

To reply to a text message:

Action	Result
1. Press the MSG FF key.	
2. Enter the Reply Text Message number (1-9, 0). See Table 17 on page 145 for the text message replies.)	The text message reply appears on the camped on telephone display.

To answer a Camp-on (Call Waiting) signal:

Action	Result
1. Replace the handset or press the ON/OFF key.	
2. Lift the handset or press the ON/OFF key again to be connected to the waiting call. OR.... Press the HOLD key.	<ul style="list-style-type: none"> • Current call placed on hold • Connected to waiting call

Hardware Requirements

- N/A

Considerations

- You can transfer an outside call to a busy extension using Camp-on. See “To camp a call onto a busy extension:” on page 139.
- Manual camp-on to a busy extension will not Call Forward/No Answer.
- Automatic camp-on to a busy extension will Call Forward/No Answer.
- Calls transferred to a busy extension will Call Forward.

- Text message send and text message reply requires display Key Telephones. Also, Text Message Send and Text Message Reply keys must be programmed on the telephones.

Conference Calls

Description

Conference Calls allow you to add another party to an existing conversation. With the standard system configuration, up to 3 parties can be included in a conference call at any one time. If the optional Conference Card is installed, up to 8 parties can participate in a conference call.

Any combination of extensions and trunk lines can be in the conference as long as the original extension is in the conference and the total number of parties does not exceed 8. Only one operation is used to establish and add to a conference. You simply have to place the current call on hold, dial the next party and press the **CONF** key. No different operation or access code is required to add additional parties to the call.

When no optional conference card is installed, the system supports the following types of three-party conference calls:

- 3 extensions
- 2 extensions and 1 trunk line
- 1 extension and 2 trunk lines

When the optional 8-party conference card is installed, the system supports any combination of conference calls, except all outside lines.

Operation

To establish a conference call:

Action	Result
1. While on a call, press the HOLD key or the line key of your current call.	Extension number, outside line number, or name of held party displays
2. If adding an outside party, press a vacant trunk key, or dial a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	<ul style="list-style-type: none"> • Outside dial tone • CO #XXX displays (where XXX = line number)
3. Dial the number of the party you wish to add to the call.	Dialed number displays
4. Press the CONF key when your call is answered.	CNF1:CO XXX or EXT XXX and CNF2:CO YYY or EXT YYY displays (where XXX = first party and YYY = second party)
5. To add additional parties, repeat steps 1-4	

Action	Result
<p>6. For 3-party Conference Call Only:</p> <p>To release a conference member, press PROG + 1 to release conference member 1 or press PROG + 2 to release conference member 2, etc.</p> <p>Note: The conference member numbers are shown on the display.</p>	(Available up to 3-party conference. Not available for 4-party or more conferencing)
7. To drop out of the conference call, hang up.	(See ** Consideration below)

To establish a two-party private conversation from a 3-party conference:

Action	Result
1. While on a call, press the CONF + 1 (2) to have a private conversation with the CNF 1 (2) party as shown on the display.	You and the selected party are in a separate conversation from the other conference parties.
2. To reestablish the conference, press CONF .	CNF1:CO XXX or EXT XXX and CNF2:CO YYY or EXT YYY displays (where XXX = first party and YYY = second party)

To remove a Busy Tone (Hang up) from an 8-party conference:

Action	Result
1. During an conference with more than 3 parties, press CONF + (n) (where n is the number 1-7 for the conference parties) to individually select a conference party.	The other party is placed on hold.
2. If you did not select the conference party that is giving busy tone, re-enter the conference by pressing the CONF key.	CONF Members: X (where X = 4-7 party conference) displays
3. If you selected the conference party that is giving busy tone, hang up and then go off-hook again and press the CONF key to re-enter the conference call.	CONF Members: Y (where Y = 4-6 party conference) displays

Hardware Requirements

- A Conference Card (VB-44120) must be installed in the System in order to conference more than three parties.

Considerations

- ****If all the internal parties hang up, the conference call will be disconnected. If the internal party remains in the conversation, the conference call remains in progress.**
- When three parties are conferenced, a built-in 3-party conference circuit is used. If no 3-party conference circuit is available, a conference cannot be established.

- When a fourth party is added, the conference is moved to a conference circuit on the 8-party conference card. If an 8-party conference circuit is not available, a fourth party cannot be added to a conference.
- Once an 8-party conference circuit is used, it continues to be used as long as the conference continues.
- An 8-party conference card supports up to four 8-party conference circuits. However, the card must be placed in cabinet slots 1, 5, or 9 to support more than one 8-party conference circuit (and jumpered accordingly).

Directory Numbers

Description

A Directory Number (DN) allows extension numbers to be used on a key basis. The same DN may be assigned to multiple keys on the same telephone and to keys on other telephones.

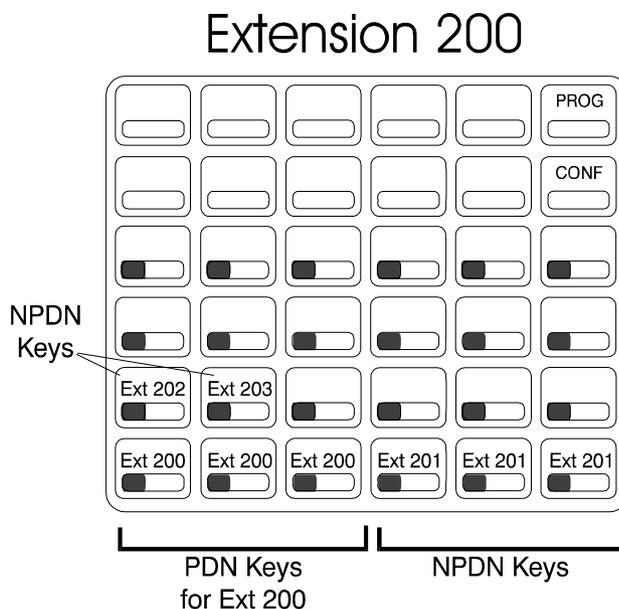
When a telephone's extension number is assigned to a key on the same telephone, it is considered a Primary Directory Number (PDN). Up to three appearances of the PDN may be assigned to keys on a key telephone. This allows for multiple calls on the same DN.

When a DN is assigned to an FF key on another telephone, it is considered a Non-Primary Directory Number (NPDN). Up to three NPDN appearances of the same DN may be assigned to keys on a telephone. This allows calls to the DN to appear on multiple telephones. The calls ring in on a specified basis - immediate, delayed, or no-ring.

A telephone may only have one PDN (on up to three keys) but may have multiple NPDNs with up to three appearances of any one NPDN.

In Version 4.5 and higher, directory numbers may be assigned to stations that are not installed, provided the cabinet is installed. However, once the directory numbers have been assigned to a particular slot, that slot is no longer available.

Figure 3. Example Directory Number assignments for Extension 200



When a caller originates a call, the call appears on the first available PDN key. If all PDNs are unavailable, the call will select the **INT** LED.

When calls come in to a DN, the call appears on the first available DN key. If the call is to your PDN and no PDN key is available, the call appears on the **INT** LED.

Directory numbers may be assigned to FF keys 25-32. These are non-appearing keys.

Intercom voice calls only go to the PDN extension but light the corresponding NPDN keys red. A tone call follows the appropriate ring status (immediate ring, delayed ring, etc.) for any extension.

To originate a call using a Primary Directory Number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone The first available PDN key lights.
2. If dialling an outside call, dial the outside line group access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = line number)
3. Dial the phone number or extension number.	Dialed number displays

To receive a call to a Directory Number (PDN or NPDN):

Action	Result
1. If ringing, go off-hook or press the green blinking PDN or NPDN key. If not ringing, press the red blinking PDN or NPDN key.	The PDN or NPDN key lights.

To originate a call using a Non-Primary Directory Number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone The first available PDN key lights.
2. Press the desired NPDN key.	Intercom dial tone The NPDN key lights.
3. If dialling an outside call, dial the outside line group access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = line number)
4. Dial the phone number or extension number.	Dialed number displays

To receive a call using a Non-Primary Directory Number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the desired NPDN key.	The NPDN key lights. The call is received.

To call a Primary Directory Number extension (NPDNs not called):

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone The first available PDN key lights.
2. Enter the Direct Call to PDN access code (default = 766 [UK/HK] or 766# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	

To transfer a call to the Primary Directory Number extension (NPDNs not called):

Action	Result
1. Place the current call on hold.	Intercom dial tone
2. Enter the Direct Call to PDN access code (default = 766 [UK/HK] or 766# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	Dialed number displays
4. If desired, wait until the PDN Extension answers and introduce the call.	
5. Hang up.	

**To set Call Forwarding All, Busy, or No Answer for a PDN from an NPDN or PNPDN:
Version 4.5 and higher**

Action	Result
1. Press an NPDN (or PNPDN) key.	Intercom dial tone
2. Dial the access code for Call Forwarding (Direct = 721), (Busy = 722), (No Answer = 723).	
3. Dial the Call Forward Destination extension number.	Dialed number displays

Note: FF1-0-03: NPDN and PNPDN Call Forwarding Programming Address

Hardware Requirements

- N/A

Considerations

- A DN can be assigned as a member of a hunt group.
- DNs are not available for ISDN S-Point, pilot numbers of hunting groups, Voice Mail, ACD, API and for the Attendant group.
- A PDN must be assigned to a telephone before a corresponding NPDN can be used.
- TRS Class and ARS Routing is determined on an extension port basis regardless of the DN accessed.
- Busy Override is available to the PDN conversation, but not available to the NPDN conversation.
- Do-Not-Disturb (DND) can only be set through the PDN, but cannot be set through the NPDN.
- Timed Reminder (Alarm Setting) is set through the PDN, but cannot be set through the NPDN.
- Offhook Voice Announce is available to PDN conversation, but not available to the NPDN conversation.
- The appearance of incoming trunk calls have the following priority if the keys are set to the same extension:
 - Trunk/Floating Hold Key
 - MCO Key
 - DN Key
 - Non-Appearance

Display Information

Description

Key telephones with a Liquid Crystal Display (LCD) reflect the following information:

- Day and time (in 12 or 24 hour format)
- Callback requests from other extensions
- Caller ID information
- Extension number
- Extension calling party name

- Extension called party status
- Trunk call duration
- Trunk number
- Trunk name

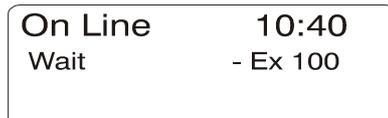
Display telephones can also display Personal Speed Dial (PSD) Directories, System Speed Dial (SSD) Directories, and Extension Directories, along with various other information such as the Set/Cancel status of different features and callback messages from other extensions.

Examples of large- and small-display phones are shown in the following illustrations.

Caller ID Display Information

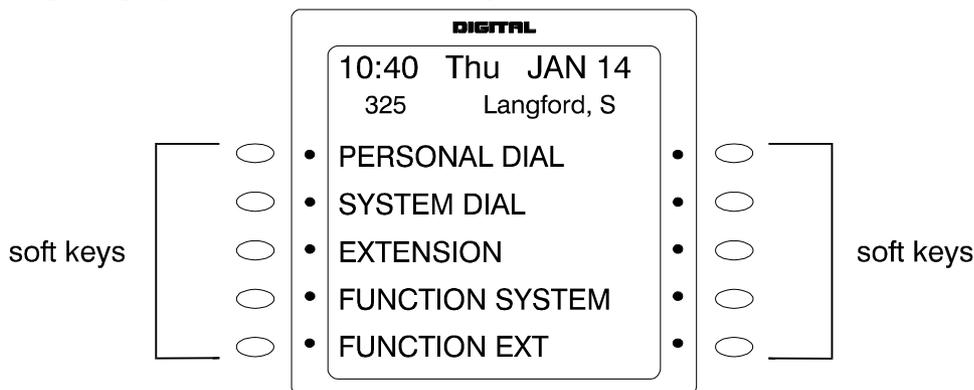
Prior to Version 4.5, the telephone would not display Caller ID information for an extension that was in use when a call was received. In Version 4.5 or higher, Caller ID information is displayed on the second line of an LCD display when an incoming call is received during conversation. If a second incoming call is from another extension, the LCD displays the extension name or number. If the second incoming call is from an Exchange, the LCD displays the CID information transmitted from the caller. Caller ID displays the second incoming call as follows:

Figure 4. Normal Incoming Caller ID Message (Exchange Line/Extension)



Large-Display Phone

Figure 5. Large-Display Main Menu (shown in default idle condition)



You can easily access and use many telephone features by pressing the soft key next to the desired Main Menu item. These items include:

Personal Dial

Contains PSD numbers. To scroll through the PSD Directory, press the **NEXT** or **PREV** buttons located beneath the display.

- PSD speed dial numbers must be programmed before they will appear in the speed dial directory. For information on programming speed dial numbers, see “Speed Dialling” on page 187.

System Dial

Contains SSD numbers. To scroll through the SSD Directory, press the **NEXT** or **PREV** button located beneath the display.

- SSD numbers must be programmed before they will appear in the speed dial directory. For information on programming speed dial numbers, see “Speed Dialling” on page 187.

Extension

Contains the Extension Directory (grouped alphabetically). To scroll through the Extension Directory, press the **NEXT** or **PREV** button located beneath the display.

Function System

Provides easy access to most key telephone features, such as Call Forwarding, Do-Not-Disturb (DND), Microphone Mute, Background Music, Call Pickup, Account Codes, Message Waiting / Callback, Headset On/Off, Extension Port confirmation, etc.

To scroll through the list of items, press the **NEXT** or **PREV** button located beneath the display.

Function Ext

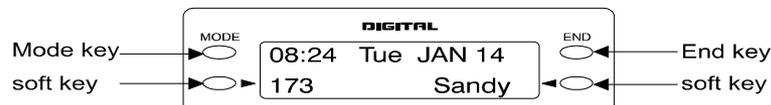
Allows you to assign frequently used telephone features for easy access. Most items found under Function System can be assigned to the Function Ext area, in any order you desire. (For additional information, see *Section 400 - Programming*.)

Large-LCD Display During Idle

The large display telephone may optionally be set to return to a selected idle screen after the user goes on-hook. If the Large-LCD Display During Idle setting (FF3 0 BSSC 04 11 HOLD) is set to 1 (allow), after moving to the desired menu is displayed, the user may enter **ON/OFF PROG ## ON/OFF** to select the menu as the idle menu.

Small-Display Phone

Figure 6. Small-Display Menu (shown in default idle condition)



The Mode key and End key on a small-display phone allow you to change the software mode of the display from Default (i.e., time and date) mode to Directory mode. While in Directory mode, you can view SSD and PSD Directories and Extension Directories. You can dial a speed dial number or extension by pressing the soft key next to the desired number. You can also use the soft keys to execute programmed system features while in the Variable mode.

Notes:

- The **MODE** key allows you to switch the display from Default to Directory mode. The **END** key allows you to return the display to Default mode.
- The soft keys allow you to view speed dial and extension directories and to dial a speed dial number or extension while in the Directory mode.
- Speed dial numbers must be programmed before they will appear in the speed dial directory. For information on programming speed dial numbers, see “Speed Dialling” on page 187.

Variable Mode

Variable Mode allows you to use the soft keys to access programmed features while your phone is in the following states:

- During an intercom call
- During trunk dial tone
- During a trunk call
- After dialling a busy extension

Note: Variable Mode features required system programming.

Changing the Display Contrast

You can adjust the display contrast by pressing the **VOLUME** up or down key while the phone is idle.

Do-Not-Disturb

Description

You can make an extension unavailable by activating the Do-Not-Disturb (DND) feature. When DND is activated, calls to that extension receive busy tone.

You can set or cancel DND from either your extension or from an alternate extension.

Operation

To set DND for your own extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set/Cancel code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	DND Accepted
3. Replace the handset or press the ON/OFF key.	

To cancel DND for your own extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set/Cancel code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • DND/CD LED light goes off • DND Cleared displays
3. Replace the handset or press the ON/OFF key.	

To set DND for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set by Other Phone code (default = 740 [UK/HK] or 740# [Taiwan, Malaysia, Indonesia]).	Enter DND EXT # displays
3. Dial the extension number.	DND Set displays on affected extension
4. Replace the handset or press the ON/OFF key.	

To cancel DND for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Cancel by Other Phone code (default = 750 [UK/HK] or 750# [Taiwan, Malaysia, Indonesia]).	Enter DND EXT # displays
3. Dial the extension number.	DND Cleared displays
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Forced DND override is available.
- DND override function is available by Busy Override code.

DP to DTMF Signal Conversion

Description

Dial Pulse (DP) to Dual Tone Multifrequency (DTMF) Signal Conversion allows you to switch from DP to DTMF signalling when using a DP trunk. For instance, if you dial into a Voice Mail system using a DP trunk, you can switch to DTMF signalling to communicate with the Voice Mail system.

The System can automatically change DP to DTMF tones based on the incoming and outgoing timers.

Operation**To switch from DP to DTMF dialling:**

Action	Result
1. Press the * key or the # key.	

Hardware Requirements

- N/A

Considerations

- N/A

DSS/72 Console

Description

The DSS/72 console is a 72-key console that can be attached to a key telephone. The 72 keys on the DSS/72 can be programmed as Direct Station Select (DSS) keys for internal lines.

In addition to providing direct station selection, the DSS keys also provide Busy Lamp Fields (BLFs) that allow you to monitor the status of other extensions. The LED lights red when the assigned extension is busy, and lights green when Call Forwarding or Do-Not-Disturb (DND) are activated.

For additional information, see “Flexible Function Keys” on page 158.

Hardware Requirements

- DSS/72 console (VB-D631uk [UK] or VB-44320 [HK, Taiwan, Malaysia, Indonesia])

Considerations

- Pressing a DSS key while connected to an outside line places the line on hold.
- A maximum of 12 DSS/72 consoles can be connected to a 96-port system.

EM/24 Console

Description

The EM/24 is a 24-key console that can be attached to a key telephone. The 24 keys on the EM/24 can be programmed as Direct Station Select (DSS) keys for internal lines.

In addition to providing direct station selection, the DSS keys also provide Busy Lamp Fields (BLFs) that allow you to monitor the status of other extensions. The LED lights red when the assigned extension is busy and lights green when Call Forwarding or Do-Not-Disturb (DND) are activated.

For additional information, see “Flexible Function Keys” on page 158.

Hardware Requirements

- EM/24 console (VB-D631UK [UK] or VB-44320 [HK, Taiwan, Malaysia, Indonesia])

Considerations

- N/A

Flash

Description

You can send a flash signal on your telephone to release an outside line and then either automatically reseat the same outside line or switch to extension dial tone status by pressing the **FL/R** or **PROG** key.

Trunk programming determines whether your phone reseats the outside line or switches to extension dial tone status.

Note: The following is available for future use only: Alternatively, an extension setting determines if pressing a trunk key will place the call on exclusive hold or send a flash to the trunk.

Hardware Requirements

- N/A

Considerations

- You can send a longer or shorter flash signal, depending on whether you use the **FL/R** or **PROG** key (flash tone lengths are set for the **FL/R** and **PROG** keys through system programming).

Flexible Function Keys

Description

You can assign frequently used functions to programmable keys on key phones, DSS/72 consoles, and EM/24 consoles. All keys not already assigned as line or speed dialling keys are available for programming.

You can store either Fixed Feature codes or Flexible Feature codes in an FF key. (The LED of the Flexible Function [FF] key will not light when digits are stored in the key.) Fixed Feature codes are hard-coded and cannot be changed. Most features; however, can also be assigned flexible codes according to the System Dial Plan. This allows the flexible codes to be changed in the dial plan without having to re-program extensions.

When a flexible code is programmed into an FF key or soft key, the System translates the flexible code into the fixed code. You can use either the Fixed Feature code or your System's Flexible Feature code when programming FF keys. Table 18 on page 160 reflects both Fixed Feature codes and the System defaults for Flexible Feature codes.

Operation

To assign Fixed Feature codes to an FF key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	F displays
3. Press the FF key to be programmed.	Enter Function# displays

Action	Result
4. Press the FL/R key.	
5. Enter the code to be programmed. (See Table 18 on page 160.)	Programmed code displays
6. Press the HOLD key.	Programmed function name displays
7. Repeat steps 2-6 to program additional keys.	
8. Replace the handset or press the ON/OFF key.	

To assign Flexible Feature Codes to an FF key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	F displays
3. Press the FF key to be programmed.	Enter Function# displays
4. Enter the code to be programmed. (See Table 18 on page 160.)	Programmed code displays
5. Press the HOLD key.	Programmed function name displays
6. Repeat steps 2-5 to program additional keys.	
7. Replace the handset or press the ON/OFF key.	

To erase a code stored on an FF key:

Note: You cannot use the following procedure to clear FF keys that have been assigned as trunks. Trunk keys can only be cleared through system programming.

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the FF key that was programmed.	Programmed code displays
4. Press the HOLD key.	Cleared Function displays

To check a programmed FF key (Display Phone Only):

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the CONF key.	C displays
3. Press the FF key to be checked.	Programmed data displays
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- If a new code is programmed into a key, the previously programmed code is erased.
- FF keys assigned as trunks must be cleared using system programming before new FF assignments can be made.
- The System can be programmed so that MCO 1 Trunk Access calls automatically use Automatic Route Selection (ARS).
- The **ANSWER** key functions as listed in the table below.

Status	Condition	Operation when ANSWER key is pressed
Idle	No incoming ring	Ignore.
	Incoming ring	Monitor ON (speaker) - Auto Answer for incoming ring.
Off-Hook	Off-hook signaling	Answer for off-hook signaling. Current conversation will be put on hold automatically.
	No off-hook signaling	Ignore.

Note: When the extension has 1 non-appearing trunk on hold and 1 non-appearing trunk at talk, ANSWER key operation is ignored and you can't put the 2nd non-appearing trunk on hold.

- The **RELEASE** key functions as listed in the table below.

Status	Condition	Operation when RELEASE key is pressed
Idle	--	Ignore.
Monitor ON (speaker) or Headset Mode	Several held calls	Latest held call will be transferred; phone returns to idle status (Monitor OFF).
	No held calls	Current call (talk) will be released; phone returns to idle status (Monitor OFF).
Handset Off-Hook	Several held calls	Latest held call will be transferred; phone gets internal dial tone.
	No held calls	Current call (talk) will be released; phone gets internal dial tone.

Table 18. Feature access codes for FF key assignments

Note: TMI is the abbreviation for Taiwan, Malaysia, Indonesia.

Feature Description	REDIAL + Fixed Feature Code + (additional digits to program into key)	Default Flexible Feature Code (if not listed, must use Fixed Feature Code)
Trunk Key	# + (Trunk 1-96)	
MCO Key	1 + (Auto-Select Pattern 1-5; MCO-Incoming Trk Grp 00-99)	

Feature Description	REDIAL + Fixed Feature Code + (additional digits to program into key)	Default Flexible Feature Code (if not listed, must use Fixed Feature Code)
Virtual Port Key	*9 + (Virtual Port 001-96)	
BLF/DSS Outgoing	9 + (Extension 0-9999)	
BLF/DSS Immediate Ring	81 + (Extension 0-9999)	
BLF Delayed Ring	82 + (Extension 0-9999)	
BLF/DSS-No Ring	83+ (Extension 0-9999)	
2-Way Box for CCU 1	61 + (box no.)	
2-Way Box for CCU 2	62 + (box no.)	
2-Way Box for CCU 3	63 + (box no.)	
2-Way Box for CCU 4	64 + (box no.)	
2-Way Box for CCU 5	65 + (box no.)	
2-Way Box for CCU 6	66 + (box no.)	
2-Way Retrieve Messages	5 + (box no.)	
2-Way Access	*#50	
2-Way End	*#51	
2-Way Re-Record	*#52	
2-Way Pause	*#53	
2-Way Store	*#54	
2-Way Add	*#55	
2-Way Cancel	*#56	
2-Way Notify	*#57	
2-Way Copy	*#58	
2-Way MF Send	*#59	
ACD-1 Log-In/Out Button	*#80	
ACD-1 Work Unit	*#81 + (Work Unit 00-99)	
ACD-1 Unavailable Button	*#82	
ACD-2 Log-In/Out Button	*#85	
ACD-2 Work Unit	*#86 + (Work Unit 00-99)	
ACD-2 Unavailable Button	*#87	
Speed-Dial Send Button	*01 + (SSD or PSD)	80
Designated Trunk Access Button (for outgoing calls)	*02	88
Verified ID Code Send	*03	89
Floating Hold Answer Call Park Pickup	*04	*9
Priority Message-Waiting: Send	*05	*41
Priority Message-Waiting: Cancel	*06	*49
Message-Waiting: Cancel	*07	*5
Message-Waiting: Callback	*08	*6
Call Forward (All): Set	70 + (Extension 0-9999)	721 (UK/HK) or 721# (TMIT) + (Extension 0-9999)

Feature Description	REDIAL + Fixed Feature Code + (additional digits to program into key)	Default Flexible Feature Code (if not listed, must use Fixed Feature Code)
Call Forward (All): Clear	*09	731 (UK/HK) or 731# (TMI) + (Extension 0-9999)
Call Forward (All): Set from another extension	*10	741 (UK/HK) or 741# (TMI)
Call Forward (All): Clear from another extension	*11	751 (UK/HK) or 751# (TMI)
Call Forward (No Answer): Set	71 + (Extension 0-9999)	723 (UK/HK) or 723# (TMI) + (Extension 0-9999)
Call Forward (No Answer): Clear	*12	733 (UK/HK) or 733# (TMI) + (Extension 0-9999)
Call Forward (No Answer): Set from another extension	*13	743 (UK/HK) or 743# (TMI)
Call Forward (No Answer): Clear from another extension	*14	753 (UK/HK) or 753# (TMI)
Call Forward (Busy): Set	72 + (Extension 0-9999)	722 (UK/HK) or 722# (TMI) + (Extension 0-9999)
Call Forward (Busy): Clear	*15	732 (UK/HK) or 732# (TMI) + (Extension 0-9999)
Call Forward (Busy): Set from another extension	*16	742 (UK/HK) or 742# (TMI)
Call Forward (Busy): Clear from another extension	*17	752 (UK/HK) or 752# (TMI)
DND Set/Clear	*18	720 (UK/HK) or 720# (TMI)
DND Set from Attendant	*19	740 (UK/HK) or 740# (TMI)
DND Clear from Attendant	*20	750 (UK/HK) or 750# (TMI)
Call Forward (All/Busy/No-Answer/DND): Clear	*21	7**
Call Forward (All/Busy/No-Answer/DND and Absence Message): Clear		
Alarm Set	*22	*31
Alarm Clear	*23	*39
BGM On/Off	*24	*30
Day 1/Day 2/ Night Toggle	*25	760 (UK/HK) or 760# (TMI)
Day 2	*26	761 (UK/HK) or 761# (TMI)
Night 1	*27	762 (UK/HK) or 762# (TMI)
Night 2 (for 2-Way VM)	*28	763 (UK/HK) or 763# (TMI)
Paging	*29 + (Page Group No.)	# + (Zone No.)
Meet-Me Answer	*30	##
Call Pickup Group-All Calls	*31	701 (UK/HK) or 701# (TMI)
Call Pickup Group-Trunk Calls Only	*32	702 (UK/HK) or 702# (TMI)

Feature Description	REDIAL + Fixed Feature Code + (additional digits to program into key)	Default Flexible Feature Code (if not listed, must use Fixed Feature Code)
Call Pickup Group-designated (pick up a call in another Pickup Group)	*33 + (Call Pickup Grp 1-99)	703 (UK/HK) or 703# (TMI)
Direct Call Pickup	73 + (Extension 0-9999)	704 (UK/HK) or 704# (TMI)
Trunk Call Pickup	*34	*0
Headset Mode On/Off	*35	
Conference Key	*36	
Transfer Key	*37	
Program Key	*38	
Recall - Flash Key	*39	
PSD Name Assignment	*40	
Ext. Directory Name Assignment	*41	
Speed-Dial Directory Name Assignment	*42	
MCO-1 Access (initial setting: 9)	*43	9 (UK/HK), 0 (TMI)
MCO-2 Access (initial setting: 81)	*44	81
MCO-3 Access (initial setting: 82)	*45	82
MCO-4 Access (initial setting: 83)	*46	83
MCO-5 Access (initial setting: 84)	*47	84
Callback at Busy Tone	*49	
Camp-on at Busy Tone	*50	
Message-Waiting Set at Busy Tone	*51	
Message-Waiting Priority Set at Busy Tone	*52	
Busy Override Set	*53	
Voice Call/Tone Call Toggle	*54	
Message-Waiting Set at Ringback Tone	*55	
Message-Waiting Priority Set at Ringback Tone	*56	
Account Code Entry	*57	8#
Extension Port Confirm	*59	
Trunk Port Confirm	*60	
VM Transfer Key 1	74 + (Ext.No. 0-9999)	
VM Transfer Key 2	75 + (Ext.No. 0-9999)	
Variable Mode	*61	
Call Logging Confirmation Mode Start	*62	
Station Call Park Hold/Answer	*63	
Station Call Park Hold	*64	771 (UK/HK) or 771# (TMI)
Station Call Park Answer (Own Ext.)	*65	772 (UK/HK) or 772# (TMI)

Feature Description	REDIAL + Fixed Feature Code + (additional digits to program into key)	Default Flexible Feature Code (if not listed, must use Fixed Feature Code)
Station Call Park Answer (Other Ext.)	*66	773 (UK/HK) or 773# (TMI)
Station Call Park Transfer	*67	774 (UK/HK) or 774# (TMI)
Release Key	*68	
Answer Key	*69	
OHVA Key	*70	
Split Key	*71	
Walking TRS (Call Barring) Key	*72	
ANY Key	*8 + (Up to 4 digits 0 - 9, #, or *)	
Station Lockout Set (Own Ext.)	*#01	746 (UK/HK) or 746# (TMI)
Station Lockout Set (Other Ext.)	*#02	747 (UK/HK) or 747# (TMI)
Station Lockout Cancel (Other Ext.)	*#03	748 (UK/HK) or 748# (TMI)
Walking TRS (Call Barring)/Station Lockout Security Code Change	*#04	749 (UK/HK) or 749# (TMI)
Callback Cancellation	*58	769 (UK/HK) or 769# (TMI)
Zip Mode On/Off (toggle)	*73	
Direct Call to a PDN Ext.	*74	766 (UK/HK) or 766# (TMI)
UNA Pickup	*77	705 (UK/HK) or 705# (TMI)
Absence Message Code	*78	729 (UK/HK) or 729# (TMI)
Network Flash during Talk on FF-Key	*79	767 (UK/HK) or 767# (TMI)
PDN #1 Key	01	
PDN #2 Key	02	
PDN #3 Key	03	
NPDN #1 Key	01 + (Ext. No. 0-9999)	
NPDN #2 Key	02 + (Ext. No. 0-9999)	
NPDN #3 Key	03 + (Ext. No. 0-9999)	
ACD-1 Wrap Key	*#83	
ACD-2 Wrap Key	*#88	
Text Message Sent	*75 + (Message code no. 0-9)	
Text Message Reply	*76 + (Message code no. 0-9)	
Login Key for CTAPI	*#90	
Note: The following feature keys were added with Version 4.5		
Message and Voice Mail Key	76 + (Ext. No. 0-9999)	
Silent Monitor Key	77 + (Ext. No. 0-9999)	768
Call Record Key	78 + (Ext. No. 0-9999)	
Room Monitoring Set Key	*#05	775
Room Monitoring Initiate Key	*#06	776

Handsfree Answerback

Description

Handsfree Answerback allows you to answer an intercom call without lifting the handset.

The System must be programmed for Voice Calling for you to use this feature. You must press **1** during a call to switch from Tone Calling to Voice Calling.

Operation

To answer calls using Handsfree Answerback:

Action	Result
1. When the intercom call arrives, confirm that the MIC LED is off. (If it is lit, press the MIC key to turn it off.)	
2. Speak into the microphone to answer.	

Hardware Requirements

- N/A

Considerations

- Handsfree Answerback can be used to respond to only voice calls from other extensions - not tone calls.
- Both the called and calling parties must belong to an Extension Class of Service (COS) that allows Voice Calling.

Handsfree Operation

Description

Handsfree Operation allows you to use all available System features without lifting the handset. Any speakerphone can be operated handsfree.

Operation

To initiate Handsfree Operation:

Action	Result
1. Press the ON/OFF key.	Phone is offhook with access to full range of calling features

Hardware Requirements

- N/A

Considerations

- N/A

Headset Operation

Description

Headset Operation allows you to handle calls with a headset instead of with the handset or speakerphone.

Operation

To answer calls using the Headset Operation:

Note: If Headset mode is already on, the following procedure turns it off. If Headset mode is off, this procedure turns it on.

Action	Result
1. Pick up the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Enter 90 for Headset mode.	
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- A headset must be installed.

Considerations

- Intercom Dial Tone is enabled/disabled regardless of Headset mode (per programming for the Extension Class of Service [COS])

Hot Dial Pad

Description

The dial pad on digital key phones can be designated as “hot” on an extension-by-extension basis.

The Hot Dial Pad allows the user to initiate a call without going offhook. Extensions with the Hot Dial Pad enabled can initiate calls by pressing any of the numeric keys (0-9). The “*” and “#” keys are not hot.

The Dial Pad can be hot under these conditions:

- When the extension is idle
- When the extension is holding a call
- When the extension is receiving a page.

The Dial Pad cannot be hot under these conditions:

- When a call is ringing at the extension (intercom or trunk)
- When the extension is on a call.

Hardware Requirements

- N/A

Considerations

Paging: The Hot Dial Pad cannot be used to initiate a page.

Hot Line

Description

Hot Line enables you to immediately connect to another pre-assigned extension or speed dial number simply by lifting the handset. You do not have to dial any digits.

Operation

To immediately connect to a pre-assigned extension or speed dial number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Automatically connected to pre-assigned extension or speed dial number

Hardware Requirements

- N/A

Considerations

- N/A

Intercom Calling

Description

The System provides two methods of intercom calling:

- **Voice Calling:** Extension calls are connected immediately, without a ringing tone.
- **Tone Calling:** A ringing tone is sent to the called extension.

Extension Class of Service (COS) programming determines whether the default for the originating extension is voice or tone calling. Regardless of the default, you can toggle between voice or tone calling by entering the Tone-Voice Call feature code. For example, if the extension default is tone calling, you can make a voice call to another extension by entering the Tone-Voice Call feature access code.

Operation

To make a call using Intercom Calling:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	
3. If your extension is set for tone calling and you want to make a voice call, enter 1 . Or, if your extension is set for voice call and you want to make a tone call, enter 1 .	<ul style="list-style-type: none"> • Dalled number displays • INT LED lights
4. Speak when your call is answered.	
5. Replace the handset or press the ON/OFF key.	INT LED goes off

Hardware Requirements

- N/A

Considerations

- The Handsfree Answerback feature can be used to respond to only voice calls from other extensions - not tone calls.
- Both the called and calling parties must belong to an Extension COS that allows Voice Calling.

Last Number Redial

Description

Last Number Redial allows you to automatically redial the last number dialed by pressing the **FL/R** key.

Operation

To automatically redial the last number dialled:

Action	Result
1. Lift the handset or press the ON/OFF key. OR... Press a vacant trunk key or enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = trunk number)
2. Press the FL/R key.	Last number dialled displays
3. Complete the call and replace the handset or press the ON/OFF key.	Line key LED turns red, then goes off.

Hardware Requirements

- N/A

Considerations

- Extension Class of Service (COS) determines whether Last Number Redial can be used for both intercom and trunk calls or trunk calls only.

Line Appearances

Description

The System provides three types of line appearances

- Direct Station Select (DSS) / Busy Lamp Field (BLF) Appearances
- Direct In Line (DIL) Appearances
- Multi-Exchange (CO) Line Appearance

DSS/BLF Appearances

When a DSS/BLF key is programmed, it automatically provides one-touch dialling and DSS and BLF for the assigned extension numbers. If desired, the DSS/BLF key can also provide ring or delayed ring monitor. For example, you can set extension A as a DSS/BLF ringing key on extension B. When extension A rings, the LED of the DSS/BLF key on extension B flashes and the phone rings.

Ringing or delayed ringing can be set on extensions which have a BLF key. The LED of the DSS/BLF key flashes green during ringing and the display shows the BLF extension number.

When extension A is in use, the LED of the DSS/BLF key on extension B lights red. If one extension has the Call Forwarding or Do-Not-Disturb (DND) feature activated, the DSS/BLF key lights green.

Four DSS/BLF modes are available as follows:

DSS/BLF Type	FF Key Entry	BLF LED Indication	Extension Call	Call Pickup	Ring (Immed.)	Ring (Delayed)	Voice Mail Transfer
DSS Only (No Pick Up/No Ring)	(9 + Ext #)	Yes	Yes	No	No	No	Yes
DSS/BLF Immediate Ring	(81 + Ext #)	Yes	Yes	Yes	Yes	No	Yes
DSS/BLF Delayed Ring	(82 + Ext #)	Yes	Yes	Yes	No	Yes	Yes
DSS/BLF No Ring	(83 + Ext #)	Yes	Yes	Yes	No	No	Yes

Operation

To assign a DSS/BLF key:

Action	Result
1. Press the PROG key.	
2. Press the FF key to be assigned the DSS/BLF appearance.	
3. Press the REDIAL key.	
4. Enter the code for the desired DSS/BLF mode as follows: 9+ Ext # ---- DSS Mode Only 81+ Ext # --- DSS/BLF Immediate Ring 82 + Ext # -- DSS/BLF Delayed Ring 83 + Ext # -- DSS/BLF No Ring	
5. Press the HOLD key.	

To make an intercom call using the DSS/BLF key:

Action	Result
1. Press the flashing DSS/BLF key.	

To pick up a call on a DSS/BLF key:

Action	Result
1. Go off-hook or press the flashing DSS/BLF key.	

Hardware Requirements

- N/A

Considerations

- If several calls arrive at a DSS/BLF key, the calls are queued and ring on a first-in, first-out basis.
- If a BLF key has a second call while busy and off-hook signalling is enabled, the BLF key starts blinking. The call can be answered by pressing the BLF key or going on hook and then off hook.

DIL Appearances

DIL keys are used to originate and receive calls over specific trunk numbers (DIL keys can be assigned to any trunk number).

The LED for a DIL key will flash red on an incoming call even if the trunk is set to ring. If another extension answers the call, the LED on the telephone will light solid red.

Operation

Operation	Action
To originate a trunk call...	<ol style="list-style-type: none"> 1. Press an idle DIL key. 2. The key blinks green as the call is made.
To place a call on Exclusive Trunk Hold (page 133)...	<ol style="list-style-type: none"> 1. Press the DIL key.
To place a call on System Trunk Hold (page 133)...	<ol style="list-style-type: none"> 1. Press the HOLD key.
To transfer a call...	<ol style="list-style-type: none"> 1. Press the HOLD key. 2. Dial the destination extension. 3. Press the PROG key.

Hardware Requirements

- N/A

Considerations

- N/A

MCO Appearances

Description

You can make and receive trunk calls using an MCO key. Each extension can have up to 5 MCO keys.

An MCO key can be assigned to any of the pooled trunk groups. Pressing the MCO key is the same as dialling the MCO Access Code (usually **9** [UK/HK], **0** [Taiwan, Malaysia, Indonesia], or **81-84** by default).

Operation

Operation	Action
To originate a trunk call	Press an idle MCO key. The key blinks (green) as the call is made.

To receive a call on an MCO key.	If ringing line preference is enabled, go off-hook. If ringing line preference is not enabled, go off-hook and press the MCO key with the green flashing LED. The LED lights solid green.
To place a call on Exclusive trunk Hold	Press the MCO key. The key flashes green while the call is held.
To place a call on System Trunk Hold	Press the HOLD key. The key flashes green while the call is held.
To transfer a call	Press HOLD , dial the destination extension, then press PROG (if on-hook transfer is off) or go on-hook.

Considerations

- Press the MCO key that flashes red to answer an outside call.
- If you are already on a call appearing on an MCO key and you press another MCO key, a line on the other MCO key is selected and the first call is dropped.
- If a trunk key is assigned, the trunk key LED will light when that specific trunk is used instead of the MCO key LED.
- There are five groups of outside lines: (usually **9** [UK/HK], **0** [Taiwan, Malaysia, Indonesia], or **81-84** by default) .
- MCO keys cannot be assigned on the DSS/72 or the EM/24.
- An MCO key must be assigned in programming mode. The MCO key cannot be assigned by the end user with FF key assignments.

Message Key

Description

The System supports the **MSG FF** key on the VB-44225/VB-D411LDSUK large-display phone. This key provides the following functionality:

- **Message Wait Callback:** If a callback message has been left by another extension, you can press the **MSG FF** key to place an automatic callback to that extension. If more than one callback message has been received, pressing the **MSG FF** key performs auto-callback in the order received.
- **Priority Message Wait Callback (One-Touch Voice Mail Access):** You can press the **MSG FF** key to automatically access your voice mailbox. The phone will dial your voice mailbox and send access codes (if programmed) for retrieving new messages.

Operation

To automatically call back an extension that left a message or to access Voice Mail:

Action	Result
1. Press the MSG FF key.	Automatically call back to extension OR... Automatic access to Voice Mail

Hardware Requirements

- N/A

Considerations

- The **MSG FF** key must be assigned first (default =*08).
- The **Message** lamp lights when a message has been received.
- If more than one callback message has been received, pressing the **MSG FF** key performs auto-callback in the order received.
- The **MSG FF** key works only when the phone is idle or receiving internal dial tone.
- Auto-callback is always enabled for large display phones.
- Messages are accessed in a first-in, first-out order for Message Wait, except Priority Message Wait, which is typically sent by Voice Mail.

Message Waiting/Callback

Description

If you try to call an extension that is busy or does not answer, you can leave a message wait indication at that extension, requesting a return call.

Operation

To leave a message waiting indication:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	

Action	Result
3. While the phone is still ringing, or when you hear the busy tone, enter the Message Wait Set code (default = 4 [UK/HK] or 4# [Taiwan, Malaysia, Indonesia]).	MSG Accepted displays
4. Replace the handset or press the ON/OFF key.	<ul style="list-style-type: none"> • Message lamp flashes at called extension • MSG EXT XXX displays (where XXX = calling extension number) or name of calling extension displays at called extension

To answer a message waiting indication (callback):

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Message Wait Callback code (default = *6) or press the MSG FF key if using a large-display phone. OR... Press the Flexible Function (FF) Key assigned as a Message Callback Key (Version 4.5 and higher).	<ul style="list-style-type: none"> • Telephone automatically dials extension that sent the message waiting indication • Message lamp goes off when your call is answered

To cancel a callback message:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Callback Request Cancel code (default = *5) or press the MSG FF key if using a large-display phone.	MSG Cleared displays
3. Replace the handset or press the ON/OFF key.	Message lamp goes off

Note: Message waiting/callback messages may also be cancelled by either the originator or the receiver by calling the other party.

Hardware Requirements

- N/A

Considerations

- The System has priority message waiting for 3rd-party Voice Mail. See “Voice Mail Integration (Third Party)” on page 68.

Mute Function

Description

Mute Function allows you to block outgoing audio to the other party while on a call.

With 44-Series phones, audio can be blocked through both the microphone and the handset. (For handset mute, an FF key must first be assigned as a **MIC** key.)

Operation

To block outgoing audio using the Handset Mute (VB-D4,VB-D6/VB-442XX-Series phones only):

Action	Result
1. During a handset call, press the MIC key.	MIC LED blinks. Outgoing audio is blocked through phone's handset
2. To turn Mute off, press the MIC key again.	

To block outgoing audio using the Microphone Mute:

Action	Result
1. During a handset call, press the MIC FF key	MIC LED off. Outgoing audio is blocked through phone's microphone
2. To turn Mute off, press the MIC FF key again.	MIC LED on.

Hardware Requirements

- N/A

Considerations

The fixed MIC key works both for handset mute and microphone mute. But only VB-D4,VB-D6/VB-442XX-Series phones have the fixed MIC key, so others must assign an FF key as a MIC key.

Offhook Monitor

Description

Offhook Monitor lets you put a call on speaker while the handset is offhook. You can still communicate with the other party via the handset, but you will also be able to hear the other party on the phone's speaker. The other party can only hear what is transmitted through your handset however, because audio is not transmitted through your microphone.

Operation

To put a call on speaker using the Offhook Monitor:

Action	Result
1. During a handset call, press the ON/OFF key.	<ul style="list-style-type: none"> Other party is audible through speaker and handset Phone's microphone is mute
2. To take a caller off speaker (disable Offhook Monitor) but continue the call via the handset, press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Offhook Monitor is available on 44-Series phones only.
- Offhook Monitor can be disabled system-wide.

Offhook Signalling

Description

Offhook Signalling sends a tone to a busy extension to indicate that another trunk call has arrived or a call is camped-on.

Operation

After receiving an offhook signal during a call:

Action	Result
1. Press the HOLD key.	First call on hold
2. Press the flashing FF key for the trunk of the incoming call.	

Note: For details about handling multiple calls, see “Call Hold” on page 129.

Hardware Requirements

- N/A

Considerations

- The trunk call type may be multiple ring, direct, BLF Ring, or camp-on.
- The System does not send the offhook signal under the following conditions:
 - During a conference call
 - During an OHVA or Busy override

- Data Privacy is enabled
- The receiving telephone is a 3rd party voice mail.

Offhook Voice Announce

Description

You can interrupt a busy extension when making an Intercom Call, and then use the Off-Hook Voice Announce (OHVA) feature to make an announcement that only the called party can hear. You can also transfer a held call to a busy extension after making the announcement using this feature. The called party may optionally reply to (answer) an OHVA call.

Beginning with CPC Version 1.0, the busy party can reply to an offhook announcement with a text message that displays on the announcing phone. Any one of the following messages can be selected. Messages 6 to 9 and 0 have no default message text. All the messages can be changed through system programming. (See “Set Text Message Replies” on page 108 for more information on setting Text Message Replies).

Prior to the release of Version 1.0, it was not possible for a caller to activate the OHVA feature when a call was placed to an available second or third Directory Number (DN) key. Beginning with Version 4.5, the calling party can activate the OHVA feature even when the second and/or third DN key is available. Depending on how this feature has been programmed, the calling party hears one of three different tones. Ring-Back Tone or Special Tone is heard when a call is placed to a “non-Voice Mail assigned” extension. When a call is placed to a “Voice Mail assigned” number, Ring-Back Tone or Busy Tone may be heard.

Table 19. Text Message Replies

Message No.	Message Text	Message No.	Message Text
1	Take A Message	6	User Defined
2	Please Hold	7	User Defined
3	Will Call Back	8	User Defined
4	Transfer	9	User Defined
5	Unavailable	0	User Defined

Operation

To make an OHVA :

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Dial the extension number.	Busy signal

Action	Result
3. Enter the OHVA feature access code (default = 8 [UK/HK] or 8# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • OHVA EXT XXX displays if busy extension called (where XXX = calling extension). • INT LED flashes
4. Make your announcement	

To answer an OHVA:

Action	Result
1. Press the OHVA Split key. Note: You must program an FF key as a split key (default = *71) to use this feature.	Split key flashes red
2. To return to the previous call, press the Split key again.	The OHVA originating party receives Busy signal.

To transfer a call using OHVA:

Action	Result
1. Press the HOLD key to put the current call on hold.	Current call on hold
2. Dial the extension number to which the call is being transferred.	Busy signal
3. Enter OHVA feature access code (default = 8 [UK/HK] or 8# [Taiwan, Malaysia, Indonesia]) and announce the call to be transferred.	
4. If transfer is: <ul style="list-style-type: none"> • Not accepted, retrieve the call by pressing the associated flashing MCO key (if an appearing call) or by pressing the HOLD key (if a non appearing call). • Accepted, and On-hook Transfer is enabled for your extension, replace the handset or press the ON/OFF key. <p>If On-hook Transfer is not enabled for your extension, press the PROG key (or RELEASE key if using DSS/72).</p>	

To reply to off-hook voice announcement with a text message:

Action	Result
1. Press the MSG FF key.	
2. Enter the Reply Text Message number (1-9, 0). See Table 19 on page 177 for the text message replies.)	The text message reply appears on the camped on telephone display.

To answer a call after it has been announced using the OHVA:

Action	Result
1. Replace the handset.	Your extension rings
2. Lift the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- The held call is transferred as soon as the extension sending the OHVA hangs up.
- If the transferred call is not answered immediately, it will queue for a set time limit, then return to the extension sending the OHVA by transfer recall timer.
- You cannot receive a Call Waiting message during an OHVA.
- If a Split key is assigned to the extension that receives an OHVA call, when an OHVA is being received, the Split key blinks green. If the split key is pressed during an OHVA call to answer, the Split key lights red. If the split key is pressed again to terminate the OHVA conversation, the Split key extinguishes.
- If you make an OHVA to an SLT, the SLT user and **the other party** will hear the announcement.
- Text message reply requires Display Key Telephones. Also, a Text Message Reply key must be programmed on the replying telephone.

One-Touch Keys

Description

You can use one-touch keys to store telephone numbers, speed dial numbers, or feature access codes.

To dial the stored number, you go offhook and press the desired key.

Operation**To program a one-touch key for outside telephone numbers:**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the one-touch key to be programmed.	
4. Dial the phone number to be stored.	
5. Press the HOLD key.	
6. Replace the handset or press the ON/OFF key.	

To assign an System Speed Dial (SSD) numbers to a one-touch key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the one-touch key to be programmed.	
4. Press the MEMORY key.	
5. Enter the SSD bin number to be programmed.	
6. Press the HOLD key.	
7. Replace the handset or press the ON/OFF key.	

To chain 2 to 6 SSD numbers to a single one-touch key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the one-touch key to be programmed.	
4. Press the MEMORY key.	
5. Enter the SSD bin number that contains the first part of the number to be dialled.	
6. If a pause is required, press the FL/R key	<ul style="list-style-type: none"> • Pause occurs between access code and telephone number • R displays
7. Repeat steps 4-5 (up to 5 more times) for each additional speed dial number to be chained.	
8. Press the HOLD key.	
9. Replace the handset or press the ON/OFF key.	

To assign a feature code or extension number to a one-touch key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the PROG key.	
3. Press the one-touch key to be programmed.	
4. If the System is set for MCO Code level, press the following keys MEMORY * # . Otherwise, proceed to step 5.	
5. Enter the desired feature code or extension number.	
6. Press the HOLD key.	
7. Replace the handset or press the ON/OFF key.	

To check a programmed one-touch key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the CONF key.	C displays
3. Press the one-touch key to be checked.	Programmed data displays
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- One-touch keys **1-10** are the same as Personal Speed Dial (PSDs) numbers **80-89**.

Onhook Dialling

Description

Onhook Dialling is a standard feature for key telephones where you can dial onhook using the dialpad, one-touch keys, or FF keys.

Operation**To dial onhook:**

Action	Result
1. Press the ON/OFF key.	Intercom dial tone
2. Dial the phone number.	

Hardware Requirements

- N/A

Considerations

- N/A

Paging

Description

The System allows you to make both internal and external pages and announcements. Internal pages are made via the System's key telephone speakers. External pages are made through the speakers of an external paging system connected to the System.

Paging calls can be answered from any extension using the Meet-Me Answer feature.

Operation

To make a page:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Group Paging code (default = #).	
3. Enter the number of the desired paging group (0-9).	
4. Make your announcement.	
5. Replace the handset or press the ON/OFF key.	

Meet-Me Answer

To answer a page using Meet-Me Answer:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Meet Me Answer code (default = ##).	Connected to specified party

Hardware Requirements

- External relays, amplifier, and speakers are required for external paging.

Considerations

- You can assign the paging access code to a one-touch or FF key. Beginning with Version 4.5 and higher, the assigned FF key LED indicates whether the paging system is in use. If the paging system is not in use when a page is originated, the FF key LED lights solid green on the originator's telephone. If someone in the paging group initiates a page, assigned FF key LEDs on all other telephones will light solid red until the page has been terminated.
- If an external paging system has been connected, pages can be made to paging groups **0-9** through the external speakers. Voice paging can also be heard over the extensions in groups **0-9**.
- An extension can belong to more than one paging group.
- Only one page may be performed at a time. If you attempt to make a page while another extension is paging, you will receive a busy signal unless your system allows Paging Override.
- Beginning with Version 4.5 and higher, the paging system can be set to "timeout" if a page is longer than a specified length of time (0 to 255 seconds). If this feature is set and the timeout period has elapsed, the page originator's handset will emit a Fast Busy Tone and the words "Paging Time Out" will be displayed on the originating telephone's display.

Ringing Line Preference

Description

Ringing Line Preference enables an extension to answer a ringing call by simply picking up the handset or pressing the **ON/OFF** key.

Operation

To answer a call using Ringing Line Preference:

Action	Result
1. Lift the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- If disabled in Extension Programming, you must press the line key or enter the feature code for incoming pick-up in order to answer a call.

Room Monitoring

Version 4.5 and higher

Description

This feature allows the user to monitor the sounds in a room from another extension or room. The transmitter in the telephone handset is used as a remote “microphone” for monitoring these sounds.

To activate this feature, the monitored extension must enable the Room Monitor feature before the monitoring extension can listen to the sounds in the room. The monitored extension can be enabled using a SLT, DSLT, or Key Telephone. No special programming is required to allow an extension to enable the monitored mode.

Operation

To set up the monitored extension:

Action	Result
1. Dial the monitored extension access code (default 775), OR... Note: The handset must be off-hook to activate the Room Monitor feature.	You will hear a confirmation tone after the monitored extension has enabled the Room Monitor feature. (If the monitored extension has an LCD display, a confirmation message will also be shown.)
Press an FF key assigned with the monitored access code	

Additional operations may be performed from the monitored extension when it is in monitored mode:

Action	Result
1. Placing the handset back on-hook or pressing ON/OFF	Monitored mode is cancelled. Extension returns to idle.
2. Pressing digits 0-9, *, #, PROG, CONF, MIC, MENU, PREV, NEXT, REDIAL, MEMORY, FF Key	No response is given. Extension remains in monitored mode.
3. FL/R	Monitored mode is cancelled. Dial tone is returned to handset.

Note: When a monitored extension receives a call, the caller hears a busy tone.

To set up the monitoring extension:

Action	Result
1. Dial the monitoring extension access code (default 776) <u>and</u> the extension number of the monitored extension, OR...	The monitoring extension enters the monitoring mode. (If the monitored extension has an LCD display, a confirmation message will also be shown.)
Press an FF key assigned the monitored access code <u>and</u> the extension number of the monitored extension, OR...	
While the handset is on-hook, press an FF key assigned to the Room Monitor followed by the monitored extension number.	The monitoring extension will automatically enter the monitoring mode.

The monitoring operation can be allowed or denied by extension COS and is controlled by the Busy Override feature. If Busy Override is denied and the user attempts to monitor an extension, the user will hear a fast busy tone.

Additional operations may be performed from the monitoring extension when it is in monitoring mode:

Action	Result
1. Placing the handset back On Hook or pressing ON/OFF	Monitoring mode is cancelled. Extension returns to idle.
2. Pressing digits 0-9, *, #, PROG, CONF, MIC, MENU, PREV, NEXT, FL/R, REDIAL, MEMORY, FF Key	No response is given. Extension remains in monitoring mode.
3. LINE	Monitoring mode is cancelled. Dial tone is returned to handset.

Services available on the monitoring extension while the Room Monitoring feature is active:

- Camp On
- Call Back
- Message displayed on LCD when extension is busy
- Message Waiting On/Off
- Cancellation of DND and Call Forwarding by another extension
- Busy Transfer
- DIL Incoming Call (Queuing)

Services **NOT** available to either the monitored or monitoring extension when this feature is active:

- Busy Override
- On-Hook VA
- The ability to receive a text message
- Silent Monitor

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Allow/deny Busy Override Send—Monitoring extension)
- FF1-2-02: Dial Plan at DT Pattern 1
- FF1-2-03: Dial Plan at DT Pattern 2

Considerations

- If the monitored extension is placed on-hook while Room Monitoring is activated, the monitoring extension will hear a fast busy tone.
- If the monitoring extension goes on-hook while Room Monitoring is activated, the monitored extension will remain in the monitored mode, and can be accessed by any other extension allowed to access the room monitoring mode.
- A room cannot be monitored from more than one extension at a time. If an attempt is made to monitor an extension while the extension is being monitored, the user will hear a fast busy tone.
- ISDN (s-point) extensions cannot access the Room Monitor feature in either the monitor or monitored modes.
- A monitoring extension cannot forward a call on hold to a monitored extension.
- A monitored extension cannot receive a transferred call.
- If DND is enabled on either the monitoring or monitored extension, DND status is displayed on the calling extension's telephone.
- If the monitoring or monitored extension has an absence message set, the absence message will be displayed on the calling extension's telephone.

Silent Monitor

Version 4.5 and higher



CAUTION – When using the ACD “Silent Monitor” feature, in some states it is illegal (or civilly actionable) to monitor telephone communications without giving prior warning to all participants. These laws do not make the Silent Monitor feature on a telephone system illegal. Before activating this feature, please check applicable state and federal laws.

Description

The Silent Monitor feature allows an ACD supervisor to monitor a call between an ACD agent and a caller without the knowledge of either party. (See *CAUTION, above.*) If necessary, the ACD supervisor can initiate a three-way call by barging into the call.

Operation

To initiate Silent Monitor:

Action	Result
1. Press ON/OFF + 768 + Extension number you want to monitor OR...	The Silent Monitor feature is active, and the extension is being monitored. (The Silent Monitor key flashes green when Silent Monitor is active.)
Press the FF key assigned as a Silent Monitor Key + Extension number you want to monitor* OR...	
Press only the Silent Monitor Key if the FF key has been preprogrammed to monitor a specific extension number. You do not need to enter the extension number.	

Note: The Silent Monitor key is disabled when the extension assigned to that key is idle, dialing, or ringing.

Silent Monitor Key Color Definitions

FF Key Color	Definition	Possible Operation
Clear	Cannot monitor	None
Solid Red	Able to monitor	Press Silent Monitor key
Flashing Green	Not monitoring	On-Hook or CONF

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Silent Monitor Initiate (0 = allow, 1 = deny, **default = 1**)
- FF1-0-03: Silent Monitor Receive (0 = allow, 1 = deny, **default = 1**)

Considerations

- Be sure all phones that should NOT be allowed to monitor have a COS that restricts monitoring.
- Silent Monitor is allowed or denied by setting the appropriate extension COS.
- Only one supervisor can initiate Silent Monitor on an individual extension at any given time.
- Display telephones can initiate Silent Monitoring. SLTs cannot initiate Silent Monitoring.
- Display telephones and SLTs can be monitored.
- A supervisor cannot initiate Silent Monitoring on an extension when that extension is on a conference call.

Speed Dialling

Description

The System supports the following speed dial features:

- Personal Speed Dial (PSD)
- System Speed Dial (SSD)
- Speed Dial Linking
- Speed Dial Name Assignment

Personal Speed Dial

You can store frequently called numbers using the PSD feature. Up to 20 PSD numbers can be stored in PSD bins numbered **80-99**.

You can assign up to 10 PSD numbers to the one-touch keys on a non-display or small-display phone, and up to 20 PSD numbers to the soft keys on a large-display phone. Once the PSD numbers have been assigned, you dial them by pressing the appropriate key. (For additional information, see “One-Touch Keys” on page 179.)

You can also enter a name up to 7 characters for each of the PSD numbers. This allows PSD numbers to be confirmed by name rather than by number.

Operation

To assign PSD numbers:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. (A) Press the PROG key. (B) Press the MEMORY key. OR... (A) Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	Enter Spd Dial displays
4. Dial the phone number.	
5. Press the HOLD key.	Stored Spd Dial displays
6. Replace the handset or press the ON/OFF key.	

To dial a PSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone

Action	Result
3. Press the MEMORY key. OR... Enter the Speed Dial Originate code (default = 80).	
4. Enter the PSD bin number (80-99).	
5. Complete the call and replace the handset or press the ON/OFF key.	

To check a PSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the CONF key.	C displays
3. Press the MEMORY key.	
4. Enter the PSD bin number (80-99).	Programmed data displays
5. If you want to check the next PSD number, press the HOLD key.	
6. Replace the handset or press the ON/OFF key.	

To delete a PSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. (A) Press the PROG key. (B) Press the MEMORY key. OR... (A) Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	
4. Press the HOLD key.	Cleared Spd Dial displays
5. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- PSD number can be dialed from One-Touch keys. (For additional information, see “One-Touch Keys” on page 179.)
- Storing a new number erases any previously stored data.
- If the called party’s number and name are stored in the PSD code, that information appears on the display when you use the speed dial code.

- Speed dial numbers can contain up to 24 characters. The following table reflects which keys to use.

To indicate. . .	Enter/Press	Shown on Display?
Digit or character	0, 1 - 9, *, #	yes (unless preceded by MEMORY * 2 - see below)
Intercom Level *	MEMORY * #	no
MCO Code 9 (UK/HK), 0 (Taiwan, Malaysia, Indonesia) **	MEMORY * 0	no
MCO Code 81**	MEMORY * 71	no
MCO Code 82**	MEMORY * 72	no
MCO Code 83**	MEMORY * 73	no
MCO Code 84**	MEMORY * 74	no
Pause	FL/R	no
DP - DTMF Code	MEMORY * *	no
SSD Code	MEMORY NN(N)	no
Hyphen (-)	PROG	-
Display Number (Start / Stop) ***	MEMORY * 2	
DTMF Conversion After the Other Party Answers	MEMORY * 3	

* Indicates that the digits that follow are either a feature access code or an extension number. (Not needed if your System is set for Intercom Level.) See **Note** below.

** Indicates that the digits that follow are for an outside number and the System should seize the next available trunk when dialling. (Not needed if your System is set for trunk level.) See **Note** below.

*** Indicates that the enclosed digits should not be displayed during dialling. Must precede and follow the digits that you do not want displayed. **Example: MEMORY *2 555-4143 MEMORY *2.**

Note: The System has two levels - Trunk Level and Intercom Level. If set at Trunk Level (default), you must enter the code for Intercom Level when programming a feature access code or extension number for speed dialling. If the System is set at Intercom Level, you must enter the MCO Code when programming an outside number for speed dialling.

System Speed Dial

You can store frequently called numbers using the SSD feature. Either 80 or 800 SSD numbers can be programmed, depending on how the System is configured. In an 80 SSD-number system, the SSD numbers are stored in bins **00-79**. In 800 SSD-number systems, the SSD numbers are stored in bins **000-799**.

Operation

To assign SSD numbers:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. (A) Press the PROG key. (B) Press the MEMORY key. OR... (A) Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the SSD bin number (00-79 or 000-799).	Enter Spd Dial displays
4. Dial the phone number.	
5. Press the HOLD key.	Stored Spd Dial displays
6. Replace the handset or press the ON/OFF key.	

To dial an SSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Press the MEMORY key. OR... Enter the Speed Dial Originate code (default = 80).	A displays
4. Enter the SSD bin number (00-79 or 000-799).	
5. Complete the call and replace the handset or press the ON/OFF key.	

To check an SSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the CONF key.	C displays
3. Press the MEMORY key.	
4. Enter the SSD bin number (00-79 or 000-799).	Programmed data displays
5. If you want to check the next SSD number, press the HOLD key.	
6. Replace the handset or press the ON/OFF key.	

To delete an SSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. (A) Press the PROG key. (B) Press the MEMORY key. OR... (A) Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the SSD bin number (00-79 or 000-799).	
4. Press the HOLD key.	Cleared Spd Dial displays
5. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- If numbers do not appear on the display when you use SSD codes (**00-79** or **000-799**), your extension is not programmed to display that data.
- The System can be programmed to allow SSD numbers to override toll restrictions.

Speed Dial Linking

You can automatically link together up to 6 SSD numbers in 1 PSD bin to handle telephone numbers longer than 24 characters. You can then dial the entire number by pressing the programmed PSD key or by entering the speed dial bin number.

Alternatively, any combination of PSDs and SSDs can be manually linked together by pressing the keys in the desired sequence. This can be useful for prepending account codes or long distance carrier access codes, etc.

Note: Before linking multiple SSD numbers to a PSD bin, the SSD bins must already have been programmed with the appropriate speed dial information.

Operation**To link multiple SSD numbers to a PSD bin:**

Action	Result
1. Determine the SSD bin numbers to be linked	
2. Lift the handset or press the ON/OFF key.	
3. (A) Press the PROG key. (B) Press the MEMORY key. OR... (A) Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	

Action	Result
4. Enter the PSD bin number (80-90).	Enter Spd Dial displays
5. Press the MEMORY key.	
6. Enter the SSD bin number (00-79 or 000-799) that contains the first part of the number to be dialled.	
7. Repeat steps 5-6 up to 5 more times for all additional SSDs to be dialled.	
8. Press the HOLD key when finished.	Stored PSDXXX displays

To use a PSD Key that links multiple SSDs:

Action	Result
1. If necessary, select the trunk group (9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84). (Normally the trunk is selected by the speed dial numbers.)	
2. Press the PSD key.	

To manually link speed dial keys together:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	
3. If you are using a PSD number, press the one-touch key for the first part of the number. If you are using an SSD number, press the MEMORY key, then enter the SSD bin number.	
4. Use the one-touch keys or press the MEMORY key and enter the SSD codes to dial the parts of the phone number until it is completed.	

Hardware Requirements

- N/A

Considerations

- N/A

Speed Dial Name Assignments

You can assign names to PSD numbers from a key telephone without entering the programming mode. If allowed in the Extension Class of Service (COS), you can also assign names to SSD numbers.

(PSD names can contain a maximum of 7 characters. SSD names can contain a maximum of 16 characters.)

Operation

PSD Names:

To set PSD names using a large-display or small-display phone:

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Press the PROG key.	
3. Press the * key.	
4. Enter 0 for the PSD Name Assignment mode.	A B C D E F P80 displays (where P80 = PSD bin 80)
5. Press the up or down arrow key to display the desired PSD bin number.	A B C D E F PXX displays (where PXX = desired PSD bin number)
6. Enter the extension name: <ul style="list-style-type: none"> If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 194.) If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 195.) Note: Press the FL/R key to clear any existing data	
7. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> See “Example 1. Large-display phone” on page 194. See “Example 2. Small-display phone” on page 195. Notes: <ul style="list-style-type: none"> Press the * key to erase a single entry. Press the # key to enter a space. 	
8. Repeat steps 6-7 as many times as necessary to enter the desired PSD name. Note: Press the FL/R key to clear the entire entry.	
9. Press the HOLD key when finished.	Next PSD bin number displays
10. To enter another speed dial name repeat steps 5-9.	

SSD Names:

To set SSD names using a large-display or small-display phone:

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Press the PROG key.	
3. Press the * key.	
4. Enter 1 for the SSD Name Assignment mode.	SSD NO.=> SSD NAME displays

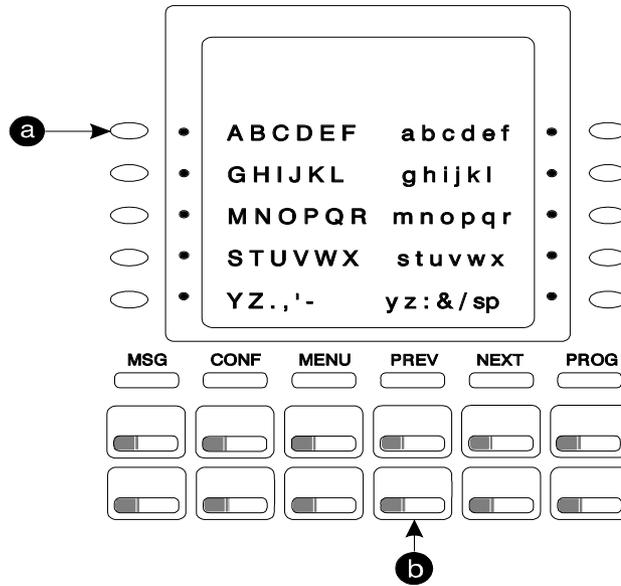
Action	Result
5. Enter the speed dial bin number (00-79 or 000-799).	
6. Press the HOLD key.	-SSDXXX A B C D E F XXX displays (where XXX = specified SSD bin number)
7. Press the FL/R key to clear the current data.	A B C D E F XXX displays (where XXX = specified SSD bin number)
8. Enter the speed dial name: <ul style="list-style-type: none"> • If using a large-display phone, press the soft key next to the desired row of letters. (See Example 1 on page 194.) • If using a small-display phone press the appropriate one-touch key. (See Example 2 on page 195.) 	
9. Use the bottom row of FF keys to select a single letter. <ul style="list-style-type: none"> • See “Example 1. Large-display phone” on page 194. • See “Example 2. Small-display phone” on page 195. Notes: <ul style="list-style-type: none"> • Press the * key to erase a single entry. • Press the # key to enter a space. 	
10. Repeat steps 8-9 as many times as necessary to enter the desired SSD name. Note: Press the FL/R key to clear the entire entry.	
11. Press the HOLD key when finished.	Next SSD bin number displays
12. To enter another speed dial name, press the CONF key and repeat steps 5-11.	SSD NO.=> SSD NAME displays

Example 1. Large-Display Phone

To enter **D**:

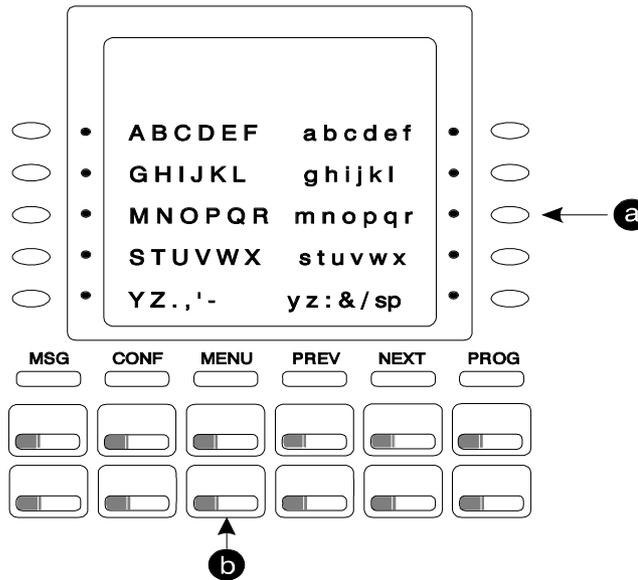
- a. Press the first soft key on the top left.

- b. Press the fourth FF key from the left on the bottom row.



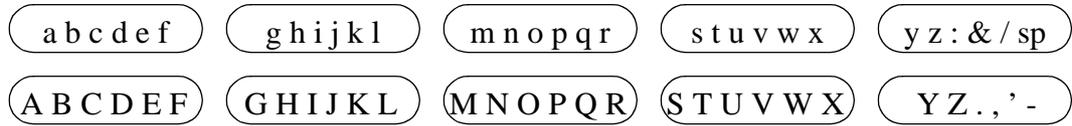
To enter **o**:

- a. Press the third soft key from the top right.
- b. Press the third FF key from the left on the bottom row.



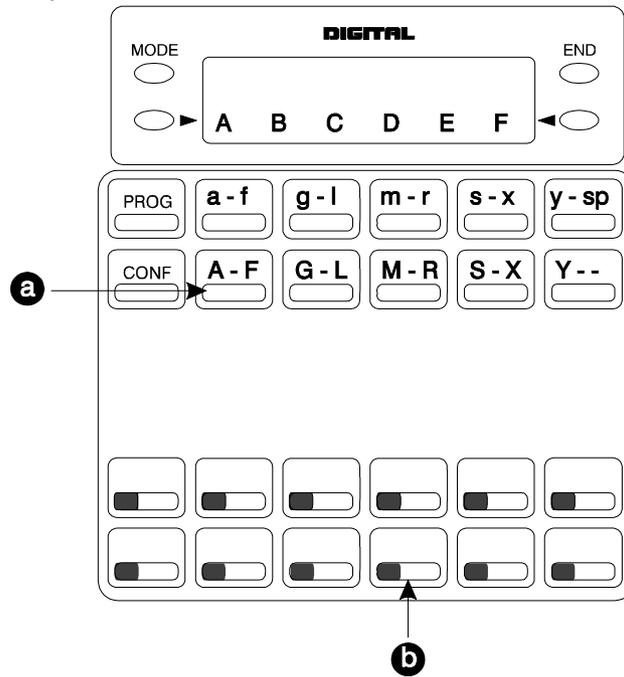
Example 2. Small-Display Phone

Refer to the following diagram to determine which one-touch key to press. (See step 7-8 above.)



To enter **D**:

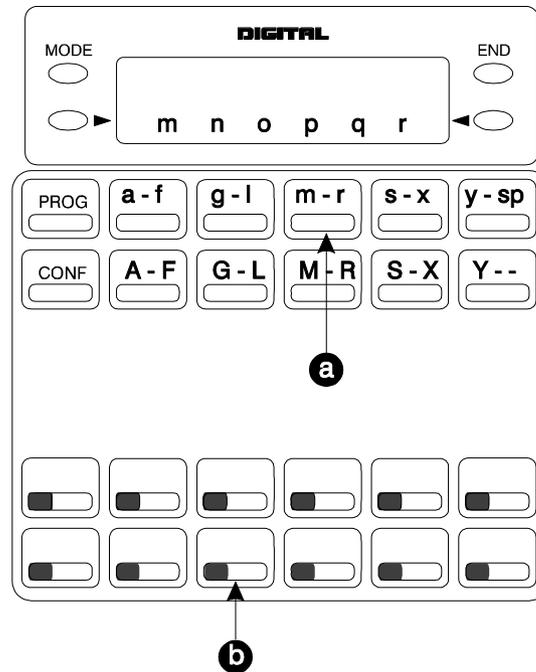
- Press the first one-touch key from the left on the bottom row.
- Press the fourth FF key from the left on the bottom row.



- To enter **o**:

- Press the third one-touch key from the left on the top row.

- b. Press the third FF key from the left on the bottom row.



Hardware Requirements

- N/A

Considerations

- The ability to assign SSD names is allowed/restricted to anyone with a COS that allows access to User Maintenance features. (See Chapter 4 "User Maintenance" of this document.)

Station Lockout

Description

Use the Station Lockout feature to limit use of your phone by others when you are away from your telephone. When the Station Lockout feature is in use, the TRS (Call Barring) Class of your telephone is changed. Anyone using your telephone is limited to the calling abilities defined by this Lockout TRS (Call Barring) Class.

In addition, with the appropriate COS, you can set or cancel Station Lockout for other telephones.

Operation

To activate Station Lockout feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the Station Lockout feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]).	St. Lock Set displays
3. Replace the handset or press the ON/OFF key.	Lock displays

To cancel Station Lockout feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Station Lockout Cancel feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]) .	Enter ID Code displays
3. Enter the Walking TRS (Call Barring)/Station Lockout security code.	Cleared St. Lock displays
4. Replace the handset or press the ON/OFF key.	The telephone display returns to the normal display.

To activate Station Lockout feature for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Station Lockout Set for another extension feature code (default = 747 [UK/HK] or 747# [Taiwan, Malaysia, Indonesia]).	Enter Lock EXT # displays
3. Dial the extension number to activate station lockout.	St. Lock Set displays
4. Replace the handset or press the ON/OFF key.	

To cancel Station Lockout feature for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Station Lockout Cancel for another extension feature code (default = 748 [UK/HK] or 748# [Taiwan, Malaysia, Indonesia])	Enter Lock EXT # displays
3. Enter the extension number to activate station lockout.	Enter ID Code displays
4. Enter the Walking TRS (Call Barring)/Station Lockout security code.	Cleared St. Lock displays
5. Replace the handset or press the ON/OFF key.	The telephone display returns to the normal display.

To change the Walking TRS (Call Barring)/Station Lockout security code:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Walking TRS (Call Barring)/Station Lockout Security Code Change code (default = 749 [UK/HK] or 749# [Taiwan, Malaysia, Indonesia]).	Enter Old ID displays
3. Enter the current Walking TRS (Call Barring)/Station Lockout security code.	Enter New ID displays
4. Enter the new Walking TRS (Call Barring)/Station Lockout security code.	Stored ID Code displays
5. Replace the handset or press the ON/OFF key.	The telephone display returns to the normal display.

Hardware Requirements

- N/A

Considerations

- Walking TRS (Call Barring) and Station Lockout use the same security code.
- You cannot override station lockout using Walking TRS (Call Barring) feature.
- If you enter an incorrect key code and then try to dial, the phone will issue a busy tone.
- If station lockout is set, the phone is limited to the Station Lockout TRS (Call Barring) Class outside calling abilities. This TRS (Call Barring) Class should be carefully selected to only allow the desired call types.
- Without Walking TRS (Call Barring) /Station Lockout Security Code, you cannot set the Station Lockout feature.

Step Call (Reset Call)**Description**

If you dial a busy extension, the system allows you to quickly dial another extension by simply pressing the last digit of the new extension number.

Operation**To use Step Call (Reset Call) to dial another extension (after a busy extension):**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial an extension.	
3. When you hear a busy tone, dial the last digit of another extension.	

Example: You dial Extension 213, but it is busy. To dial Extension 214, press **4**.

Considerations

- The second extension called using the Step Call (Reset Call) feature must have the same number of digits as the first extension.
- If you program to set step call, following feature are not available.
 - Camp-on (EXT. No +2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia])
 - Call Back Request (EXT. No +3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia])
 - Message Wait (EXT. No +4 [UK/HK] or 4# [Taiwan, Malaysia, Indonesia], EXT. No +5 [UK/HK] or 5# [Taiwan, Malaysia, Indonesia])
 - Intercom Busy Override (EXT. No +9 [UK/HK] or 9# [Taiwan, Malaysia, Indonesia])

Timed Reminder Call

Description

Your telephone can act as an alarm clock with the Timed Reminder Call feature.

Operation

To set the Timed Reminder Call feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Timed Reminder Set code (default = *31).	Enter Alarm hhmm displays
3. Enter the time you want the Timed Reminder Call to sound. (Enter the time in 24-hour format. For example, 0100 for 1 AM, 1300 for 1 PM).	
4. Replace the handset or press the ON/OFF key.	Alarm HH:MM displays (where HH = hour and MM = minutes)

To cancel the Timed Reminder Call feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Timed Reminder Cancel code (default = *39).	
3. Replace the handset or press the ON/OFF key.	Time display disappears

Hardware Requirements

- N/A

Considerations

- An alarm tone (default = 16 seconds) will be issued at the specified time.
- An extension can have only one Reminder Call set at a time.
- To change the Reminder Call, simply enter a new time.
- If the extension is in use when the reminder call is scheduled, the reminder call is issued 3 minutes later.

Trunk Access

Description

The System supports the following ways to seize an idle trunk to make an outside code:

- Trunk Access
- Direct Trunk Access
- MCO Line Preference
- MCO Trunk Access

Trunk Key Access

You can access an outside line by pressing a trunk key.

Operation

To access an outside line:

Action	Result
1. Press a vacant trunk key.	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = line number)
2. Dial the phone number	Dialled phone number displays

Hardware Requirements

- N/A

Considerations

- N/A

Direct Trunk Access

Extensions can seize a specific trunk for outgoing calls. Extensions can also use Direct Trunk Access to test trunks or to access data trunks.

Operation

To use Direct Trunk Access:

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Enter the Direct Trunk Access code (default = 88).	Dialled number displays
3. Enter the desired trunk number.	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = line number)
4. Dial the phone number.	Dialled phone number displays

Hardware Requirements

- N/A

Considerations

- N/A

MCO Line Preference

MCO Line Preference allows you to place an outside call by simply picking up the handset. When you go offhook, the MCO 1 trunk group is automatically accessed.

Operation

To place a call using MCO Line Preference:

Action	Result
1. Lift the handset.	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = trunk number)
2. Dial the phone number.	Dialled phone number displays

Hardware Requirements

- N/A

Considerations

- You can press the **ON/OFF** key to get intercom dial tone.

MCO Trunk Access

The System supports up to 5 MCO groups for each MCO tenant group. You can seize an idle trunk from the MCO trunk group by entering the MCO access code.

Operation

To seize an idle trunk:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Trunk Access Number (default = 9 [UK/HK, 0 [Taiwan, Malaysia, Indonesia], or 81-84). (See Table 20.)	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = trunk number)
3. Dial the phone number.	Dialled phone number displays

Hardware Requirements

- N/A

Considerations

- The System supports up to 576 outside lines in a six-CCU configuration. These lines can be divided into 99 different trunk groups.
- Each trunk group can support up to 50 outside lines.
- Each MCO Tenant Group can have up to 5 MCO trunk access codes. System defaults for MCO trunk access codes are displayed in the following table.
- MCO1 can have up to 5 trunk groups assigned by the Advanced Trunk Group feature.
- MCO1 access code is used for Automatic Route Selection (ARS) access code.

Table 20. MCO Trunk Access Codes

MCO Group	Trunk Access Code
MCO1	9 (UK/HK) or 0 (Taiwan, Malaysia, Indonesia)
MCO2	81
MCO3	82
MCO4	83
MCO5	84

Trunk Queuing

Description

When you try to originate a call by MCO (enter **9** [UK/HK] or **0** [Taiwan, Malaysia, Indonesia]) and all outside lines in a trunk group are busy, the System can call you when a line becomes free. Simply pick up the handset and dial the telephone number when the Trunk Callback alert tone rings.

Operation

To set Trunk Queuing:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	
4. Press the ON/OFF key.	Wait CBK-TRK displays
5. Wait for the Trunk Callback alert tone.	

To respond to the Trunk Callback alert tone:

Action	Result
1. Lift the handset or press the ON/OFF key.	<ul style="list-style-type: none"> • Outside dial tone • CO XXX displays (where XXX = line number)

Hardware Requirements

- N/A

Considerations

- Response to the Trunk Callback must be within 15 seconds or Trunk Queuing will be cancelled.
- The Trunk Queuing feature may also be used if you hear a busy tone when trying to make a call using the MCO Trunk Access feature.

Universal Night Answer to Page

Description

During night mode, Universal Night Answer (UNA) sends incoming calls for selected trunks to ring external paging speakers. UNA calls can be picked up from any extension, provided the extension's Class of Service (COS) allows UNA answer. Beginning with Version 4.5 and higher, this feature can be programmed so that incoming calls ring on both external paging speakers and at extensions with CO/MCO appearances on FF keys (Key Telephones only).

Operation

To answer a UNA call:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the UNA to Page Pickup code (default = 705 [UK/HK] or 705# [Taiwan, Malaysia, Indonesia]).	Call is received.

To answer a UNA call using the assigned FF key:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Press the assigned FF (UNA) key	Call is received.

Hardware Requirements

- External paging speakers and associated equipment are not provided with the ICX; they must be purchased separately.

Considerations

- The UNA ringing port can be specified by the caller's tenant group or by the trunk ring assignment.

Variable Mode

Description

Variable Mode allows you to use the soft keys on a display phone to access selected features when your phone is in the following state:

- While receiving intercom Dial Tone or during dialling - up to 10 functions
- While receiving intercom ringback tone - up to 5 functions
- While receiving intercom busy tone - up to 10 functions
- While talking in intercom mode, during trunk seizure, or during trunk talk - up to 5 functions

Each extension may have customized soft key features available. The customization must be programmed by the dealer.

To access the feature beside the soft key, simply press the associated soft key.

Operation

To enable Variable Mode:

Action	Result
1. Press the ON/OFF key.	
2. Press the Variable Mode FF key	AUTO FNC Mode displays
3. Press the ON/OFF key.	Programmed features display

To Execute a Variable Mode Function:

Action	Result
1. Press the NEXT or PREV keys on the large display telephone or the up or down arrow keys on the small display telephones until the desired function appears	
2. Press the soft key next to the desired function	The variable mode function executes

To cancel Variable Mode:

Action	Result
1. Press the ON/OFF key.	
2. Press the Variable Mode FF key.	AUTO FNC Mode displays
3. Press the ON/OFF key again.	

To assign Variable Mode Functions to a Small Display Telephone

Action	Result
1. Press the ON/OFF key.	
2. Press PROG + 95 + (XX) + Fixed Feature Code (see Table 18 on page 160). OR... Press PROG + 95 + (XX) + FL/R + Flexible Feature Code (see Table 18 on page 160). (where XX is the Flexible Screen position as listed below).	The variable mode function executes
3. Press the ON/OFF key	

To assign Variable Mode Functions to a Large Display Telephone

Action	Result
1. Press the ON/OFF key.	
2. Using the FUNCTION EXT menu, display the desired extension function location (see Flexible Screen Positions below)	
3. Press PROG + soft key + Fixed Feature Code (see Table 18 on page 160). OR... Press PROG + 95 + (XX) + FL/R + Flexible Feature Code (see Table 18 on page 160).	
4. Press the ON/OFF key	

Flexible Screen Positions

Variable Mode Display Position	Displays at
Position 1 to 10	Intercom Dial Tone/Intercom Dial
Position 11 to 15	Intercom Ringback Tone
Position 16 to 25	Intercom Busy Tone
Position 26 to 30	Talk

Hardware Requirements

- A 44-Series Display Telephone or the VB-3411LDS Large Display Telephone

Considerations

- The small display telephone will exit Variable Mode after a Variable Mode function is executed.
- The large display telephone will stay in Variable Mode after a function is executed.

Voice Recognition

Description

Voice Recognition allows you to dial another extension or a speed dial number using verbal commands. You can also quickly access various telephone features by voice.

Hardware Requirements

- VB-D411DSVUK/VB-44224 12 Key Telephone required
- VB-44101 Voice Recognition Adaptor required.

Considerations

- You must pre-program the desired calling information into the telephone's Voice Recognition Unit in order for the System to recognize the verbal commands.

Volume Control

Description

The System allows you to set different receiving volumes for the handset, speaker, intercom ring tone, and incoming ring tone.

Operation

To adjust the volume while your phone is in use:

Action	Result
1. Press the VOLUME up or down key: <ul style="list-style-type: none"> During ringing to adjust intercom or incoming ring tone During a call to adjust handset or speaker volume 	Intercom dial tone

To adjust ringer volume while your phone is idle:

Action	Result
1. Press the ON/OFF key.	
2. Press the PROG key.	
3. Enter 9 , then 1 to adjust the incoming ring tone. OR... Enter 9 , then 2 to adjust the intercom ring tone.	Pseudo ring tone
4. Press the VOLUME up or down key to adjust the loudness of the tone.	
5. Press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Extension programming determines whether or not you can set separate volume levels for trunk incoming ring tone and intercom ring tone.

Walking TRS (Call Barring) Class of Service

Walking Toll Restriction Service (TRS) (Call Barring) Class of Service (COS) allows an extension user to “carry” his or her toll restrictions to another phone.

Before the Walking TRS (Call Barring) COS feature can be used, a Walking COS code must be entered at your extension before using dialling privileges at another extension.

Operation

To use a Walking TRS (Call Barring) COS code:

Action	Result
1. Lift the handset or press the ON/OFF key of an extension other than your own.	Intercom dial tone
2. Enter the Walking TRS (Call Barring) access feature code (default = 87).	
3. Dial your extension number.	
4. Enter your Walking COS code (0001-9999)	
5. Enter an trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84)	
6. Dial the phone number.	Walking TRS (Call Barring) COS remains in effect until you replace the handset.
7. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- The same Walking TRS (Call Barring) COS code can be used on more than one extension.
- Walking TRS (Call Barring) COS mode is kept until the user goes on-hook.
- ARS and TRS (Call Barring) dialling privileges follow the Walking TRS (Call Barring) COS.
- Before entering a new Walking TRS (Call Barring) COS code, you must first clear the existing code.
- When Walking TRS (Call Barring) COS is used, Wxxxx (where xxxx is the user’s extension number) appears in Call Logging.

Zip Mode

Zip mode automatically answers calls when operating a Key Telephone in headset mode.

Operation

To enter or cancel Zip Mode:

Action	Result
1. Press the ON/OFF key.	
2. Press the PROG key and dial 80 . OR... Press the ZIP key.	When entering Zip mode, ZIP Mode On displays When cancelling Zip mode, ZIP Mode Off displays
3. Press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Call forward takes precedence over zip mode.

Chapter 6. DSLT Features

This chapter describes features that are available with the Digital Single Line Telephone (DSLТ).

This chapter covers the following topics:

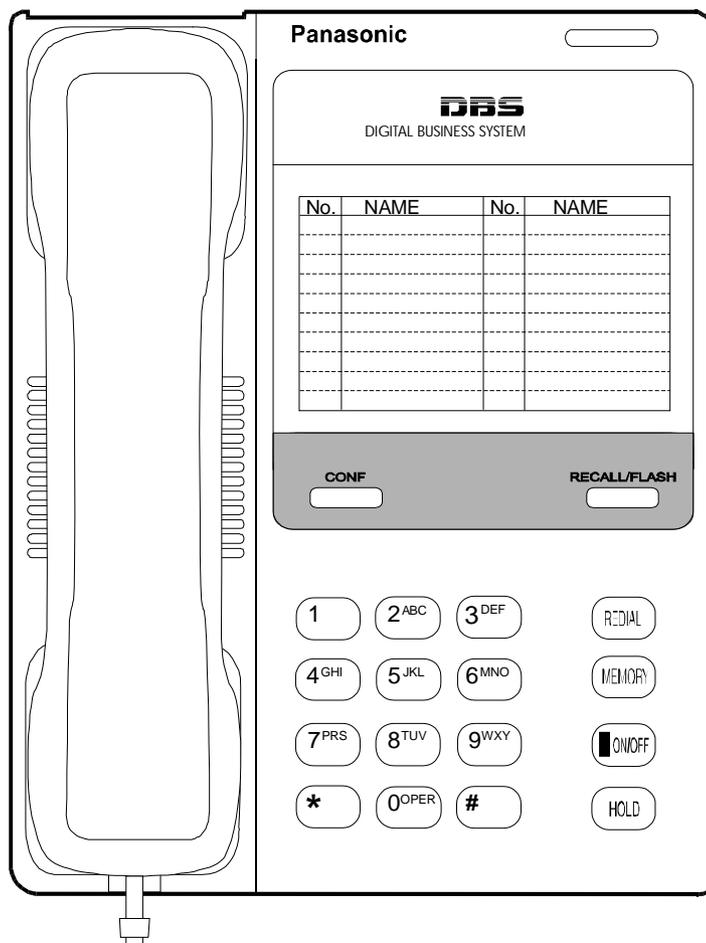
Topic	Page
Digital Single Line Telephone	213
Absence Message	213
Account Codes	215
Non-Verified Account Codes	216
Verified Account Codes	216
Attendant Group Calls	217
Auto Repeat Dial	218
Background Music	219
Busy Override	220
Callback Request	220
Call Forwarding	221
Call Forwarding-All Calls	222
Call Forwarding - Busy	222
Call Forwarding - No Answer	223
To cancel Call Forwarding and DND:	225
Call Hold	225
System Hold	225
Floating Hold	226
Exclusive Hold	227
Broker's Hold	228
Call Park	230
Call Pickup	230
Extension Group Pickup	230
Extension Direct Pickup	231
Trunk Group Pickup	231
Trunk Direct Pickup	232
Call Transfer	233
Supervised Transfer	233
Unsupervised Transfer	233
Camping a Call Onto a Busy Extension	234
Camp-On (Call Waiting)	235
Conference Calls	236
Do-Not-Disturb	238

Topic	Page
DP to DTMF Signal Conversion	239
Flash	240
Hot Line	240
Intercom Calling	241
Last Number Redial	241
Message Waiting/Callback	242
Offhook Signalling	243
Offhook Voice Announce	244
Onhook Dialling	245
Paging	246
Meet-Me Answer	246
Room Monitoring	247
Speed Dialling	249
Personal Speed Dial	249
System Speed Dial	251
Speed Dial Linking	252
Step Call (Reset Call)	249
Station Lockout	254
Timed Reminder Call	256
Trunk Access	257
Direct Trunk Access	257
MCO Trunk Access	258
Trunk Queuing	259
Universal Night Answer to Page	259
Walking TRS (Call Barring) Class of Service	260

Digital Single Line Telephone

Figure 7 illustrates the Digital Single Line Telephone (DSLTL). For more information on DSLTL operation, see *Section 751: Key Telephone/DSLTL Quick Reference*.

Figure 7. DSLTL



Absence Message

Description

Extension users can leave text messages related to their phones when they are away. When the unattended extension is dialed, the text message displays on the caller's phone. Any one of the following messages can be selected. Messages 5 to 9 have no default message text. All the messages can be changed through system programming.

Table 21. Absence Messages

Message No.	Message Text Displayed on Called Party's Key Telephone	Message No.	Message Text Displayed on Called Party's Key Telephone
0	In Meeting	5	Absence_No_5
1	At Lunch	6	Absence_No_6
2	Out of Office	7	Absence_No_7
3	Vacation	8	Absence_No_8
4	Another Office	9	Absence_No_9

Optionally, a return time can be input. Example Return Times for Absence Messages include:

Input	Display
No input	Return
9	Return 9:00
11	Return 11:00
615	Return 6:15
1035	Return 10:35

Operation

To set an Absence Message

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	
3. Enter the Absence Message number. (See Table 21 above.)	
4. If desired, enter the 4-digit returning time.	
5. Press the HOLD key.	
6. Replace the handset.	

To cancel an Absence Message

Action	Result
1. Lift the handset .	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	
3. Press the HOLD key.	
4. Replace the handset.	

Hardware Requirements

- N/A

Considerations

- Calling parties without a display get a busy signal, rather than the Absence Message.
- Regardless of setting an Absence Message on a DDI/DIL extension, DDI/DILcalls are routed according to the trunk ringing setting.
- An absence message may also be cancelled by dialing **7****. This cancels Do Not Disturb (DND) and Call Forwarding-All Calls as well.

Account Codes

Description

You can assign account codes to clients to facilitate billing and to track call dates and times, numbers called, and outside line numbers used. This information is printed for each account on the System Message Detail Recording (SMDR) (Call Logging) record.

In addition verified account codes may be used to change the Toll Restriction Service (TRS) (Call Barring) level to allow calls to numbers otherwise restricted.

Account codes may be either forced or unforced (voluntary) and either verified or unverified.

This feature works with SMDR (Call Logging). During a phone call, a station user can silently enter an accounting or client billing code. The entered Code will display on the phone's LCD as it's dialed, so the user can tell it's being registered. Then later, the Call Logging reports will show the Code dialed for each call, and even sort the report by these Codes.

There are two different types of account codes: Non-Verified and Verified Account Codes. Prior to Version 5.0, the maximum amount of account code numbers for both types could range from 1-10 digits. Beginning with Version 5.0, a second mode has been added that allows the user to set the maximum amount of account code numbers from 1-4 digits. An account code error will occur when more than the maximum number of digits are entered.

Non-Verified Account Codes

Non-Verified Codes aren't checked by the system for validity. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. Individual phones can be programmed to accept *forced* Account Codes (the user must enter a code for every call) or *voluntary* Account Codes (the user can enter a code, but doesn't have to, for each call).

Non-Verified Account Codes can be assigned to incoming and/or outgoing calls. For incoming calls, the user can enter the Code anytime during the call. For outgoing calls, the user either enters the Code before accessing an outside line (for *forced* Codes), or anytime during the call (for *voluntary* Codes).

Verified Account Codes

Verified Account Codes entered by phone users must match a 4-digit or 10-digit code that has been preprogrammed into an Account Code Table. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. These codes can also be either *forced* or *voluntary*. You can program these codes with their own Toll Restriction Service (TRS) - Call Barring Class assignment so that, when entered, they will override the extension's TRS (Call Barring) Class. Thus, Verified Account

Code users can “float” from phone to phone, placing calls that would normally be restricted on that phone.

Non-Verified Account Codes

Non-Verified Account codes are voluntary codes. (i.e., You do not have to enter an account code before making a call.)

You can assign Non-Verified Account codes to both incoming and outgoing calls. To assign an account code to an outgoing call, you enter the account code before making the call or during the call. To assign an account code to an incoming call, you enter the account code during the call.

Operation

To enter an account code before making a call:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Account Code feature code (default = 8#).	
3. Enter the Account Code (up to 10 digits).	
4. Press the # key.	
5. Press a vacant trunk key or enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
6. Dial the phone number.	

To enter an account code during an outside call:

Action	Result
1. During a call, press the MEMORY key.	
2. Press the # key.	
3. Enter the Account Code (up to 10 digits).	
4. Press the # key.	

Verified Account Codes

Stations restricted from outside call origination by Toll Restriction Service (TRS) - Call Barring can be allowed to make outgoing calls by entering a Verified Account code that changes the TRS (Call Barring). After a call is made, the Call Logging record for the call will show the verified account code.

Operation

To make an outside call that requires an account code:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Verified Account ID code (default = 8#).	
3. Enter the Account Code (10 digits).	
4. Press a vacant CO Trunk key or enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
5. Dial the phone number.	

Hardware Requirements

- An Call Logging printer or external call accounting system is required to collect account code records.

Considerations

- Account codes are not available during conversation recording mode for the Built-In Voice Mail.
- Even though up to 10 digits may be entered, the system verifies the ID based on the first 4 digits only.
- Account codes will be cancelled after using trunk queuing.
- Account Codes interact with TRS (Call Barring) as shown in the following table:

Forced or Not Forced	Verified or Non-Verified	TRS (Call Barring) Class	
		No Account Entry	Account Entry
Not Forced	Non-Verified	Extension Port Based TRS Class	Extension Port Based TRS Class
	Verified		Account Code Based TRS Class
Forced	Non-Verified	TRS Class for Forced Account Code (FF1 0 19 0001)	Extension Port Based TRS Class
	Verified		Account Code Based TRS Class

Attendant Group Calls

Description

You can call the attendant group from any extension by dialling the designated attendant number.

Operation

To call an attendant group:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the attendant pilot number (default = 0 [UK/HK] or 9 [Taiwan, Malaysia, Indonesia]).	

Hardware Requirements

- N/A

Considerations

- Up to 20 extensions can be included in an attendant group.
- The attendant pilot number is flexible.
- If a member of an attendant group is for a virtual extension, multiple extensions in the attendant group can be made to ring at once when the virtual number is dialled.
- Attendant calls are always tone calls (i.e., not voice calls).

Auto Repeat Dial

Description

If you press the **REDIAL** key while receiving busy tone on an outside call, the System automatically redials the number. The System continues to redial the number at set intervals until the called number answers, the caller hangs up, or the maximum of 15 redial attempts is made.

Operation

To use Auto Repeat Dial:

Action	Result
1. Press the ON/OFF key.	Intercom dial tone
2. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
3. Dial the phone number.	Busy tone
4. Press the REDIAL key.	System automatically redials number

Hardware Requirements

- N/A

Considerations

- N/A

Background Music

Description

If your System is set up to provide Background Music, music can be played from the speakers of idle telephones. If a call is made to an extension receiving Background Music, the music stops and the phone rings. Background Music is also interrupted when the phone goes offhook.

The System can also provide Music-on-Hold (MOH) using a separate music source (except with CPC-HS). If MOH is provided, callers automatically hear music when they are placed on hold. (For more information on “MOH”, see page 45.)

Operation

To turn Background Music on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Background Music code (default = *30).	
3. Replace the handset or press the ON/OFF key.	

To turn Background Music off:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Background Music code (default = *30).	
3. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- The music source must be purchased separately. It is not provided with the System.



Important: A license may be required from the Society of Composers, Authors, and Publishers (ASCAP) or similar organizations to transmit radio or recorded music through the MOH and/or Background Music feature. Panasonic, its distributors, and affiliates assume no liability should users of Panasonic equipment fail to obtain such a license.

Considerations

- N/A

Busy Override

Description

Busy Override allows you to break into one another's outside or intercom calls to relay urgent information or to create three-party conference calls.

Operation

To use Extension Busy Override:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	Busy tone
3. Enter the Busy Override code (default = 9 [UK/HK] or 9# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • Alert tone sounds to both extensions (system programming required) • Connected to both parties

Hardware Requirements

- N/A

Considerations

- You cannot break in on three-party conference calls.
- The default for the Override Alert Tone is **off**. If the Override Alert Tone is enabled, the tone will be sent to both parties when a call is overridden.

Callback Request

Description

If you dial a busy extension, Callback Request enables the System to call you back when that extension becomes free. When you answer, the System automatically rings the called party again.

Operation

To set a Callback Request:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	Ringback tone
4. Replace the handset after you hear the ringback tone.	System calls back when called extension becomes free

To respond to the callback request:

Action	Result
1. Lift the handset.	System automatically redials extension

To cancel a Callback Request:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the Callback Cancellation code (default = 769 [UK/HK] or 769# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset .	

Hardware Requirements

- N/A

Considerations

- N/A

Call Forwarding

Description

Call Forwarding allows you to send your calls to another extension, to an outside line, or to Voice Mail. Call Forwarding can be set or cancelled under the following conditions from either your own extension or from an alternate extension:

- Call Forwarding - All Calls
- Call Forwarding - Busy
- Call Forwarding - No Answer

Call Forwarding-All Calls

When Call Forwarding - All Calls is set, all incoming calls to an extension are immediately forwarded.

Operation

To set Call Forwarding-All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 721 (UK/HK) or 721# (Taiwan, Malaysia, Indonesia). • For another extension, enter 741 (UK/HK) or 741# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward.	
4. Enter the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 249.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding-All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 731 (UK/HK) or 731# (Taiwan, Malaysia, Indonesia). • For another extension, enter 751 (UK/HK) or 751# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding - Busy

When Call Forwarding - Busy is set, all incoming calls to a busy extension are forwarded.

Operation

To set Call Forwarding - Busy:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> For your extension, enter 722 (UK/HK) or 722# (Taiwan, Malaysia, Indonesia). For another extension, enter 742 (UK/HK) or 742#(Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you want to forward	
4. Enter the destination number: <ul style="list-style-type: none"> If forwarding to another extension, dial the extension number. If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 249.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding - Busy:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> For your extension, enter 732 (UK/HK) or 732# (Taiwan, Malaysia, Indonesia). For another extension, enter 752 (UK/HK) or 752# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding - No Answer

When Call Forwarding - No Answer is set, a call will ring until the Call Forward - No Answer timer expires. When the timer expires, the unanswered call is forwarded.

Operation

To set Call Forwarding - No Answer:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> For your extension, enter 723 (UK/HK) or 723# (Taiwan, Malaysia, Indonesia). For another extension, enter 743 (UK/HK) or 743# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward	
4. Dial the destination number: <ul style="list-style-type: none"> If forwarding to another extension, dial the extension number. If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 249.)</p>	
5. Replace the handset or press the ON/OFF key.	

To cancel Call Forwarding - No Answer:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> For your extension, enter 733 (UK/HK) or 733# (Taiwan, Malaysia, Indonesia). For another extension, enter 753 (UK/HK) or 753# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Call Forwarding and Do-Not-Disturb

The System allows you to set or cancel both Call Forwarding and Do-Not-Disturb (DND) for your own extension in one step.

To cancel Call Forwarding and DND:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the CF/DND All Clear code (default = 7**).	
3. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Calls cannot be forwarded to an extension that already has Call Forwarding DND activated. For example, extension 220 can only forward to extension 225 if 225 is not forwarded.
- If forwarding to an outside number, the destination number must be pre-programmed into a System Speed Dial (SSD) code.
- Call Forwarding - Busy and Call Forwarding - No Answer can both be set at the same time.
- You can set Call Forwarding - All Calls while Call Forwarding - No Answer and/or Call Forwarding - Busy are set. Cancelling one mode only affects that mode; however, the other modes will remain set until cancelled individually.
- An auto camp-on to a busy extension will forward to the Call Forward No Answer destination. A manual camp-on to a busy extension will not forward.
- If Call Forwarding No Answer and DND are both set, calls immediately forward to the Call Forward No Answer destination.
- You can cancel both Call Forwarding and DND by entering 7 * *.

Call Hold**Description**

The system provides the following types of Call Hold:

- System Hold
- Floating Hold
- Exclusive Hold
- Broker's Hold
- Call Park (Station)

System Hold

You can place either an outside or intercom call on System Hold. You can retrieve a call placed on System Hold from any extension that has a line appearance for the held call.

Operation

To place a call on System Hold:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone

To retrieve a call placed on System Hold:

Action	Result
1. Press the HOLD key.	Intercom dial tone

To retrieve a held call on a specific trunk:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Specified Trunk Answer code (default = *0).	
3. Enter the trunk number.	

Hardware Requirements

- N/A

Considerations

- N/A

Floating Hold

Floating Hold is a type of System Hold that allows you to retrieve a held call from any extension by dialling the Floating Hold orbit number for the held call.

Floating Hold is useful when the intended recipient of a call must be located via a page. The call can be placed in a Floating Hold “orbit” and that orbit number announced during the page. The paged party can then pick up the call by dialling the orbit number.

Operation

To place a call on Floating Hold:

Action	Result
1. Press the HOLD key.	Intercom dial tone

To retrieve a call from Floating Hold:

Action	Result
1. Enter the Floating Hold Answer feature access code (default = *9).	
2. Enter the Floating Hold orbit number 01-96 (CPC-HS/HM) or 01-09 (CPC-HS/HM) (See considerations below.)	

Hardware Requirements

- N/A

Considerations

- The number of floating hold orbits available may vary depending on the Station Park/Floating Hold Pickup setting (FF1-0-02-0025). The station park pickup access code can set to *9 (default). The “*9” access code operates as follows

System Size	Virtual Line Number and Operation
96	01-09: Floating Hold pick up 10-96: Station Park Hold pick up purpose

Exclusive Hold

With Exclusive Hold, only the extension that held the call can retrieve it. Exclusive Hold can be used to hold trunk calls and extension calls.

Operation**To place a call on Exclusive Hold:**

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone

To retrieve a call from Exclusive Hold:

Action	Result
1. While on a call, press the HOLD key.	

Hardware Requirements

- N/A

Considerations

- Intercom calls will be held as Exclusive when placed on hold by pressing the **HOLD** key.

Broker's Hold

Broker's Hold allows you to toggle between the current call and the last held call by pressing the **HOLD** key.

Operation

To place a call on Broker's Hold:

Action	Result
1. Pick up the first call.	
2. Press the HOLD key.	First call on hold
3. Pick up the second call.	
4. Press the HOLD key.	Second call on hold, first call retrieved

Hardware Requirements

- N/A

Considerations

- N/A

Call Park

You can use the Call Park function to transfer a call, even if you cannot locate the intended recipient of the call.

Trunk, extension, and network calls may be parked.

There are two ways for an extension to park a call on the S-ICX. One way is to park the call at the receiving extension and to retrieve the parked call at another extension by dialling the park answer code plus the parking extension number. The other way is to park the call at another extension and dial the park transfer answer code at the other extension to retrieve the call. **Beginning with Version 5.0, an Extension Group Pickup code allows the user to pick up a Transfer Recall (only on non-appearing calls), a Hold Recall, and a Station Park Recall.**

Operation

To park a call on this extension:

Action	Result
1. While on a call, press the HOLD key.	• Current call on hold
2. Enter the Call Park Hold access code (default = 771 [UK/HK] or 771# [Taiwan, Malaysia, Indonesia]).	
3. If necessary, page the party that needs to retrieve the call.	

To retrieve a call parked at the originating extension from another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
Enter the Call Park Answer/Other Ext. access code (default = 773 (UK/HK) or 773# [Taiwan, Malaysia, Indonesia]). OR... Enter the Call Park/Floating Hold Answer feature access code (default = *9).	
2. Dial the number of the extension that parked the call.	• Connected to parked call

To park a call at another extension:

Action	Result
1. Press the HOLD key.	• Current call on hold
2. Enter the Call Park Transfer access code (default = 774 [UK/HK] or 774# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to receive the parked call.	
4. If necessary, page the party that needs to retrieve the call.	

To retrieve a transferred call park:

Action	Result
1. At the extension with the transferred park call, lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter Call Park Answer/Self access code (default = 772 [UK/HK] or 772# [Taiwan, Malaysia, Indonesia]).	• Connected to parked call

Hardware Requirements

- N/A

Considerations

- You cannot park more than one call at a time.
- No more than one Call Park Answer key may be assigned to a single telephone.
- If two calls are on hold and the last call is parked, the other call is then considered the last held call. If a transfer is performed, the remaining held call would be the call transferred, not the parked call.

Call Pickup

Description

The System allows the following types of call pickup:

- Extension Group Pickup
- Extension Direct Pickup
- Trunk Group Pickup
- Trunk Direct Pickup

Extension Group Pickup

Extension Group Pickup allows you to pick up a direct ringing call (within your extension pickup group or in a different pickup group) without having to dial the number of the ringing extension.

Three types of Extension Group Pickup are available:

- **Call Pickup - All Calls:** You can pick up a call ringing anywhere within your own extension group.
- **Call Pickup - External Calls:** You can pick up only external calls ringing within your own extension group.
- **Specified Group Pickup:** You can pick up a call ringing to an extension in another extension group.

Operation

To use Extension Group Pickup - All Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Extension Group Pickup - All Calls code (default = 701 [UK/HK] or 701# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset or press the ON/OFF key.	

To use Extension Group Pickup - External Calls:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Extension Group Pickup - External Calls code (default = 702 [UK/HK] or 702# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset or press the ON/OFF key.	

To use Specified Group Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Specified Group Pickup code (default = 703 [UK/HK] or 703# [Taiwan, Malaysia, Indonesia]).	
3. Enter the number of the call pickup group (01-72) where the call is ringing.	
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- The Call Pickup Group assignments determine the order calls are picked up (i.e. if two calls are ringing in the call pickup group, the call ringing the first member will be picked up first).

Extension Direct Pickup

Extension Direct Pickup allows you to answer a call to another extension by dialling the number of the ringing extension.

Operation**To use Extension Direct Pickup:**

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Extension Direct Call Pickup code (default = 704 [UK/HK] or 704# [Taiwan, Malaysia, Indonesia]).	
3. Dial the number of the ringing extension.	
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

Trunk Group Pickup

Trunk Group Pickup allows you to answer calls ringing to any extension within your own MCO incoming trunk group.

Operation

To use Trunk Group Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Trunk Group Pickup code (default = 709 [UK/HK] or 709# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- N/A

Trunk Direct Pickup

Trunk Direct Pickup allows you to answer calls ringing on a specific trunk number.

Operation

To use Trunk Direct Pickup:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Trunk Direct Pickup code (default = *0).	
3. Dial the number of the ringing or holding (system hold) trunk.	
4. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Call on exclusive hold cannot be picked up.

Call Transfer

Description

The System allows you to transfer calls to either another extension or to an outside number. The transferred calls can be either supervised or unsupervised. (You can also use the Camp-on feature to transfer a call to a busy extension.)

Supervised Transfer

When completing a supervised transfer, the transferring party remains on the line until the third party answers, then he/she announces the call.

Operation

To supervise the transfer of a call to another extension:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. When the call is answered, inform the third party of the transfer.	
4. Complete the transfer by replacing the handset or pressing the ON/OFF key.	

To supervise the transfer of a call to an outside number:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Seize a trunk and dial the number to which the call is to be transferred.	
3. When the call is answered, inform the third party of the transfer.	
4. Complete the transfer by replacing the handset or pressing the ON/OFF key.	

Unsupervised Transfer

When completing an unsupervised transfer the transferring party hangs up before the third party answers.

Operation

To transfer a call to another extension without supervising the transfer:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. Complete the transfer by replacing the handset or pressing the ON/OFF key.	

To transfer a call to an outside number without supervising the transfer:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Enter a trunk access code.	
3. Dial the number to which the call is to be transferred.	
4. Complete the transfer by replacing the handset or pressing the ON/OFF key.	

Camping a Call Onto a Busy Extension

Operation

To camp a call onto a busy extension:

Action	Result
1. While on a call, press the HOLD key.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. If your extension does not have Auto Camp-On activated, enter the Camp-On (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	Camp-on tone heard at called extension
4. Complete the transfer by replacing the handset or pressing the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- On-Hook Transfer is not enabled for the transferring party's Extension Class of Service (COS), he/she cannot complete the transfer.

- If the call is not answered by the third party before the Transfer Recall Timer expires, the call will recall to the transferring extension.
- If a Transfer Recall is not answered before the Recall Duration Timer expires, the call will revert to the Attendant group.
- If the called party does not exist, the call recalls to the transferring extension.
- You cannot transfer a call to an extension that has Do-Not-Disturb (DND) activated.
- You can transfer a call to an extension that has Call Forwarding activated. The transferred call will follow the call forwarding path of the extension it is transferred to. For example, if extension 221 is forwarded to extension 225, calls that are transferred to extension 221 will be forwarded to extension 225.
- Calls can be transferred from paging using supervised transfer.
- If a call is unsupervised transferred to a busy extension, the call will camp on to the busy extension.
- To transfer to a outside party, it is best to use supervised transfer. If the trunk-to-trunk on-hook transfer restriction is enabled, a blind transfer will result in the loss of the second call but the second call will be kept on hold. If not enabled and the second outside party is busy, the transferred party will receive busy.

Camp-On (Call Waiting)

Description

If you dial a busy extension, you can camp onto that extension and send a Call Waiting signal to the called party. The called party then needs only to replace the handset and pick it up again to be automatically connected to the new call. The called party can also press the **HOLD** key to place the first call on hold and then answer the waiting call.

The System provides two types of call waiting:

- **Automatic Call Waiting:** You do not need to enter a code to send the Call Waiting signal to the busy extension. You need only to remain on the line.
- **Manual Call Waiting:** You must enter a code to send a Call Waiting signal to the busy extension.

Operation

To set Automatic Camp-on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	<ul style="list-style-type: none"> • Called party hears alert tone • Calling party hears ringback tone
3. Remain on the line until the called party answers.	

To set Manual Camp-on:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	Busy tone
3. Enter the Camp-on (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • Called party hears alert tone • Calling party hears ringback tone
4. Remain on the line until the called party answers.	

To answer a Camp-on (Call Waiting) signal:

Action	Result
1. Replace the handset or press the ON/OFF key.	
2. Lift the handset or press the ON/OFF key again to be connected to the waiting call. OR.... Press the HOLD key.	<ul style="list-style-type: none"> • Current call placed on hold • Connected to waiting call

Hardware Requirements

- N/A

Considerations

- You can transfer an outside call to a busy extension using Camp-on. See “Camping a Call Onto a Busy Extension” on page 234.

Conference Calls**Description**

Conference Calls allow you to add another party to an existing conversation. With the standard system configuration, up to 3 parties can be included in a conference call at any one time. If the optional Conference Card is installed, additional parties up to a total of 8 can participate in a conference call.

Any combination of extensions and trunk lines can be in the conference as long as the original extension is in the conference and the total number of parties does not exceed 8. Only one operation is used to establish and add to a conference. You simply have to place the current call on hold, dial the next party and press the **CONF** key. No different operation or access code is required to add additional parties to the call.

When no optional conference card is installed, the system supports the following types of three-party conference calls:

- 3 extensions
- 2 extensions and 1 trunk

- 1 extension and 2 trunks

When the optional 8-party conference card is installed, the System supports any combination of conference calls, except all outside lines.

Operation

To establish a conference call:

Action	Result
1. While on a call, press the HOLD key or the line key of your current call.	
2. If adding an outside party, dial a trunk access code.	• Outside dial tone
3. Dial the number of the party you wish to add to the call.	
4. Press the CONF key when your call is answered.	
5. To add additional parties, repeat steps 1-4	
6. To drop out of the conference call, hang up.	

To establish a two-party private conversation from a 3-party conference:

Action	Result
1. While on a call, press the CONF + 1 (2) to have a private conversation with the CNF 1 (2) party.	You and the selected party are in a separate conversation from the other conference parties.
2. To reestablish the conference, press the CONF key.	

To remove a Busy Tone (Hang up) from an 8-party conference:

Action	Result
1. During an conference with more than 3 parties, press CONF + (n) (where n is the number 1-8 for the conference parties) to individually select a conference party.	The other party is placed on hold.
2. If you did not select the conference party that is giving busy tone, re-enter the conference by pressing the CONF key.	
3. If you selected the conference party that is giving busy tone, hang up and then go off-hook again and press the CONF key to re-enter the conference call.	

Hardware Requirements

- A Conference Card (VB-44120) must be installed in the System in order to conference more than three parties.

Considerations

- If all the internal parties hang up, the conference call will be disconnected. If the internal party remains in the conversation, the conference call remains in progress.
- When three parties are conferenced, a built-in 3-party conference circuit is used. If no 3-party conference circuit is available, a conference cannot be established.
- When a fourth party is added, the conference is moved to a conference circuit on the 8-party conference card. If an 8-party conference circuit is not available, a fourth party cannot be added to a conference.
- Once an 8-party conference circuit is used, it continues to be used as long as the conference continues.
- An 8-party conference card supports up to four 8-party conference circuits. However, the card must be placed in cabinet slots 1, 5, or 9 to support more than one 8-party conference circuit (and jumpered accordingly).

Do-Not-Disturb

Description

You can make an extension unavailable by activating the Do-Not-Disturb (DND) feature. When DND is activated, calls to that extension receive busy tone.

You can set or cancel DND from either your extension or from an alternate extension.

Operation

To set DND for your own extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set/Cancel code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset or press the ON/OFF key.	

To cancel DND for your own extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set/Cancel code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset or press the ON/OFF key.	

To set DND for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Set by Other Phone code (default = 740 [UK/HK] or 740# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

To cancel DND for another extension:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the DND Cancel by Other Phone code (default = 750 [UK/HK] or 750# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	
4. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Forced DND override is available.
- DND override function is available by Busy Override code.

DP to DTMF Signal Conversion

Description

Dial Pulse (DP) to Dual Tone Multifrequency (DTMF) Signal Conversion allows you to switch from DP to DTMF signalling when using a DP trunk. For instance, if you dial into a Voice Mail system using a DP trunk, you can switch to DTMF signalling to communicate with the Voice Mail system. (The System can automatically change DP to DTMF tones based on the incoming and outgoing timers).

Operation**To switch from DP to DTMF dialling:**

Action	Result
1. Press the * key or the # key.	

Hardware Requirements

- N/A

Considerations

- N/A

Flash**Description**

You can send a flash signal on your telephone to release an outside line and then either automatically reseat the same outside line or switch to extension dial tone status by pressing the **FLASH** key.

Trunk programming determines whether your phone reseats the outside line or switches to extension dial tone status.

Hardware Requirements

- N/A

Considerations

- N/A

Hot Line**Description**

Hot Line enables you to immediately connect to another pre-assigned extension or speed dial number simply by lifting the handset. You do not have to dial any digits.

Operation

To immediately connect to a pre-assigned extension or speed dial number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Automatically connected to pre-assigned extension or speed dial number

Hardware Requirements

- N/A

Considerations

- N/A

Intercom Calling

Description

The System provides two methods of intercom calling:

- **Voice Calling:** Extension calls are connected immediately, without a ringing tone.
- **Tone Calling:** A ringing tone is sent to the called extension.

Extension Class of Service (COS) programming determines whether the default for the originating extension is voice or tone calling. Regardless of the default, you can toggle between voice or tone calling by entering the Tone-Voice Call feature code. For example, if the extension default is tone calling, you can make a voice call to another extension by entering the Tone-Voice Call feature access code.

Operation

To make a call using Intercom Calling:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	
3. If your extension is set for tone calling and you want to make a voice call, enter 1 . Or, if your extension is set for voice call and you want to make a tone call, enter 1 .	
4. Speak when your call is answered	
5. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Both the called and calling parties must belong to an Extension COS that allows Voice Calling.
- You cannot change from voice call to tone call.

Last Number Redial

Description

Last Number Redial allows you to automatically redial the last number dialled by pressing the **REDIAL** key.

Operation

To automatically redial the last number dialled:

Action	Result
1. Lift the handset or press the ON/OFF key. OR... Enter a trunk access code.	Outside dial tone (if trunk access code entered)
2. Press the REDIAL key.	
3. Complete the call and replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Extension Class of Service (COS) determines whether Last Number Redial can be used for both intercom and trunk calls, or trunk calls only.

Message Waiting/Callback

Description

If you try to call an extension that is busy or does not answer, you can leave a message wait indication at that extension, requesting a return call.

Operation

To leave a message waiting indication:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial the extension number.	Ring or busy tone
3. While the telephone is still ringing, or when you hear the busy tone, enter the Message Wait Set code (default = 4 [UK/HK] or 4# [Taiwan, Malaysia, Indonesia]).	
4. Replace the handset or press the ON/OFF key.	Message lamp flashes at called extension

To answer a message waiting indication (callback):

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Message Wait Callback code (default = *6).	<ul style="list-style-type: none"> • Telephone automatically dials extension that sent message waiting indication • Message lamp goes off when your call is answered

To cancel a Callback Message:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Callback Request Cancel code (default = *5).	
3. Replace the handset or press the ON/OFF key.	Message lamp goes off

Hardware Requirements

- N/A

Considerations

- The System has priority message waiting for 3rd-party Voice Mail. See “Voice Mail Integration (Third Party)” on page 68.

Offhook Signalling

Description

Offhook Signalling sends a tone to a busy extension to indicate that another trunk call has arrived or a call is camped on.

Operation**After receiving an offhook signal during a call:**

Action	Result
1. Press the HOLD key.	
2. Hang up and then go off-hook to answer call.	

Note: For details about handling multiple calls, see “Call Hold” on page 225.

Hardware Requirements

- N/A

Considerations

- The trunk call type may be either multiple ring, direct, or camp-on.
- The system does not send the offhook signal under the following conditions:
 - During a conference call
 - During an OHVA or Busy override
 - Data Privacy is enabled
 - The receiving telephone is a 3rd party voice mail.

Offhook Voice Announce

Description

You can interrupt a busy extension when making an Intercom Call, and then use the Off-Hook Voice Announce (OHVA) feature to make an announcement that only the called party can hear. You can also transfer a held call to a busy extension after making the announcement using this feature.

Operation

To make an OHVA :

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Dial the extension number.	Busy signal
3. Enter the OHVA feature access code (default = 8 [UK/HK] or 8# [Taiwan, Malaysia, Indonesia]).	
4. Make your announcement	

To transfer a call using OHVA:

Action	Result
1. While on a call, press the HOLD key.	Current call on hold
2. Dial the extension number to which the call is being transferred.	Busy signal
3. Enter OHVA feature access code (default = 8 [UK/HK] or 8# [Taiwan, Malaysia, Indonesia]) and announce the call to be transferred.	
4. If transfer is not accepted, press the FL/R key.	Transfer cancelled
5. Replace the handset.	

Hardware Requirements

- N/A

Considerations

- If Onhook Transfer is enabled, the held call is transferred as soon as the extension sending the OHVA hangs up.
- If the transferred call is not answered immediately, it will queue for a set time limit, then return to the extension sending the OHVA by Transfer Recall Timer.
- You cannot receive a Call Waiting message during an OHVA.
- If you make an OHVA to an SLT, the SLT user and the other party will hear the announcement.

Onhook Dialling

Description

Onhook Dialling allows users to dial without lifting the handset. However, the Digital Single Line Telephone (DSLTL) does not have a microphone so you must lift the handset to talk.

Operation

To use onhook dialling:

Action	Result
1. Press the ON/OFF key.	Intercom dial tone
2. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia] or 81-84), or dial an extension number.	
3. If you entered a trunk access code in step 2, dial the phone number. Otherwise, proceed to step 4.	
4. When the call is answered, lift the handset to talk.	

Hardware Requirements

- N/A

Considerations

- N/A

Paging

Description

The System allows you to make both internal and external pages and announcements. Internal pages are made via the System's key telephone speakers. External pages are made through the speakers of an external paging system connected to the System.

Paging calls can be answered from any extension using the Meet-Me Answer feature.

Operation

To make a page:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Group Paging code (default = #).	
3. Enter the number of the desired paging group (0-9).	
4. Make your announcement.	
5. Replace the handset or press the ON/OFF key.	

Meet-Me Answer

To answer a page using Meet-Me Answer:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Meet Me Answer code (default = ##).	Connected to specified party

Hardware Requirements

- External relays, amplifier, and speakers are required for external paging.

Considerations

- If an external paging system has been connected, pages can be made to paging groups **0-9** through the external speakers. Voice paging can also be heard over the extensions in groups **0-9**.
- An extension can belong to more than one paging group.
- Only one page may be performed at a time. If you attempt to make a page while another extension is paging, you will receive a busy signal.
- Beginning with Version 4.5 and higher, the paging system can be set to "timeout" if a page remains unanswered for a specified length of time (0 to 255 seconds). If this feature is set and the timeout period has elapsed, the page originator's handset will emit a Fast Busy Tone.

Room Monitoring

Version 4.5 and higher

Description

This feature allows the user to monitor the sounds in a room from another extension or room. The transmitter in the telephone handset is used as a remote “microphone” for monitoring these sounds.

To activate this feature, the monitored extension must enable the Room Monitor feature before the monitoring extension can listen to the sounds in the room. The monitored extension can be enabled using a SLT, DSLT, or Key Telephone. No special programming is required to allow an extension to enable the monitored mode.

Operation

To set up the monitored extension:

Action	Result
1. Dial the monitored extension access code (default 775), OR... Note: The handset must be off-hook to activate the Room Monitor feature.	You will hear a confirmation tone after the monitored extension has enabled the Room Monitor feature. (If the monitored extension has an LCD display, a confirmation message will also be shown.)
Press an FF key assigned with the monitored access code	

Additional operations may be performed from the monitored extension when it is in monitored mode:

Action	Result
1. Placing the handset back on-hook or pressing ON/OFF	Monitored mode is cancelled. Extension returns to idle.
2. Pressing digits 0-9, *, #, PROG, CONF, MIC, MENU, PREV, NEXT, REDIAL, MEMORY, FF Key	No response is given. Extension remains in monitored mode.
3. FL/R	Monitored mode is cancelled. Dial tone is returned to handset.

Note: When a monitored extension receives a call, the caller hears a busy tone.

To set up the monitoring extension:

Action	Result
1. Dial the monitoring extension access code (default 776) <u>and</u> the extension number of the monitored extension, OR... Press an FF key assigned the monitored access code <u>and</u> the extension number of the monitored extension, OR...	The monitoring extension enters the monitoring mode. (If the monitored extension has an LCD display, a confirmation message will also be shown.)
While the handset is on-hook, press an FF key assigned to the Room Monitor followed by the monitored extension number.	The monitoring extension will automatically enter the monitoring mode.

The monitoring operation can be allowed or denied by extension COS and is controlled by the Busy Override feature. If Busy Override is denied and the user attempts to monitor an extension, the user will hear a fast busy tone.

Additional operations may be performed from the monitoring extension when it is in monitoring mode:

Action	Result
1. Placing the handset back On Hook or pressing ON/OFF	Monitoring mode is cancelled. Extension returns to idle.
2. Pressing digits 0-9, *, #, PROG, CONF, MIC, MENU, PREV, NEXT, FL/R, REDIAL, MEMORY, FF Key	No response is given. Extension remains in monitoring mode.
3. LINE	Monitoring mode is cancelled. Dial tone is returned to handset.

Services available on the monitoring extension while the Room Monitoring feature is active:

- Camp On
- Call Back
- Message displayed on LCD when extension is busy
- Message Waiting On/Off
- Cancellation of DND and Call Forwarding by another extension
- Busy Transfer
- DIL Incoming Call (Queuing)

Services **NOT** available to either the monitored or monitoring extension when this feature is active:

- Busy Override
- On-Hook VA
- The ability to receive a text message
- Silent Monitor

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Allow/deny Busy Override Send—Monitoring extension)
- FF1-2-02: Dial Plan at DT Pattern 1
- FF1-2-03: Dial Plan at DT Pattern 2

Considerations

- If the monitored extension is placed on-hook while Room Monitoring is activated, the monitoring extension will hear a fast busy tone.
- If the monitoring extension goes on-hook while Room Monitoring is activated, the monitored extension will remain in the monitored mode, and can be accessed by any other extension allowed to access the room monitoring mode.
- A room cannot be monitored from more than one extension at a time. If an attempt is made to monitor an extension while the extension is being monitored, the user will hear a fast busy tone.
- ISDN (s-point) extensions cannot access the Room Monitor feature in either the monitor or monitored modes.
- A monitoring extension cannot forward a call on hold to a monitored extension.
- A monitored extension cannot receive a transferred call.
- If DND is enabled on either the monitoring or monitored extension, DND status is displayed on the calling extension's telephone.
- If the monitoring or monitored extension has an absence message set, the absence message will be displayed on the calling extension's telephone.

Speed Dialling

Description

The System supports the following speed dial features:

- Personal Speed Dial (PSD)
- System Speed Dial (SSD)
- Speed Dial Linking
- Speed Dial Name Assignment

Personal Speed Dial

You can store frequently called numbers using the PSD feature. Up to 20 PSD numbers can be stored in PSD bins numbered **80-99**.

Operation

To assign PSD numbers:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	
4. Dial the phone number.	
5. Press the HOLD key.	
6. Replace the handset or press the ON/OFF key.	

To dial a PSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Press the MEMORY key. OR... Enter the Speed Dial Originate code (default = 80).	
4. Enter the PSD bin number (80-99).	
5. Complete the call and replace the handset or press the ON/OFF key.	

To delete a PSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	
4. Press the HOLD key.	
5. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- Storing a new number erases any previously stored data.

- Speed Dial numbers can contain up to 24 characters. The following table reflects which keys to use.

To indicate . . .	Enter/Press
Digit or character	0, 1 - 9, *, #
Intercom Level *	MEMORY * #
MCO Code 9 (UK/HK) or 0 (Taiwan, Malaysia, Indonesia)**	MEMORY * 0
MCO Code 81**	MEMORY * 71
MCO Code 82**	MEMORY * 72
MCO Code 83**	MEMORY * 73
MCO Code 84**	MEMORY * 74
Pause	REDIAL
DP - DTMF Code	MEMORY * *
SSD Code	MEMORY NN(N)
Hyphen (-)	PROG
DTMF Conversion After the Other Party Answers	MEMORY * 3

* Indicates that the digits that follow are either a feature access code or an extension number. (Not needed if your System is set for Intercom Level.) See **Note** below.

** Indicates that the digits that follow are for an outside number and the System should seize the next available trunk when dialling. (Not needed if your System is set for Trunk Level.) See **Note** below.

Note: The System has two levels - Trunk Level and Intercom Level. If set at Trunk Level (default), you must enter the code for Intercom Level when programming a feature access code or extension number for speed dialling. If the System is set at Intercom Level, you must enter the MCO Code when programming an outside number for speed dialling.

System Speed Dial

You can store frequently called numbers using the SSD feature. Either 80 or 800 SSD numbers can be programmed, depending on how the System is configured. In an 80 SSD-number system, the SSD numbers are stored in bins **00-79**. In 800 SSD-number systems, the SSD numbers are stored in bins **000-799**.

Operation

To assign SSD numbers:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	

Action	Result
3. Enter the SSD bin number (00-79 or 000-799).	
4. Dial the phone number.	
5. Press the HOLD key.	
6. Replace the handset or press the ON/OFF key.	

To dial an SSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Press the MEMORY key. OR... Enter the Speed Dial Originate code (default = 80).	
4. Enter the SSD bin number (00-79 or 000-799).	
5. Complete call and replace the handset or press the ON/OFF key.	

To delete an SSD number:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the SSD bin number (00-79 or -799).	
4. Press the HOLD key.	
5. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- The system can be programmed to allow SSD Numbers to override toll restrictions.

Speed Dial Linking

You can automatically link together up to 5 SSD numbers in 1 PSD bin to handle telephone numbers longer than 24 characters. You can then dial the entire number by pressing the programmed PSD key or by entering the speed dial bin number.

Alternatively, any combination of PSDs and SSDs can be manually linked together by pressing the keys in the desired sequence. This can be useful for prepending account codes or long distance carrier access codes, etc.

Note: Before linking multiple SSD numbers to a PSD bin, the SSD bins must already have been programmed with the appropriate speed dial information.

Operation

To link multiple SSD numbers to a PSD bin:

Action	Result
1. Determine the SSD bin numbers to be linked	
2. Lift the handset or press the ON/OFF key.	
3. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
4. Enter the PSD bin number (80-99).	
5. Press the MEMORY key.	
6. Enter the SSD bin number (00-79 or 000-799) that contains the first part of the number to be called.	
7. Repeat steps 5-6 up to 5 more times for all additional SSDs to be dialled.	
8. Press the HOLD key when finished.	

To use a PSD that links multiple SSDs:

Action	Result
1. If necessary, select the trunk group (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84). (Normally the trunk is selected by the speed dial numbers.)	
2. Press the MEMORY key.	
3. Enter the PSD bin number (80-99).	

To manually link speed dials together:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Press the MEMORY key, then enter the PSD or SSD bin number.	
4. Press the MEMORY key and enter the PSD or SSD codes to dial the parts of the phone number until it is completed.	

Hardware Requirements

- N/A

Considerations

- N/A

Station Lockout

Description

Use the Station Lockout feature to limit use of your phone by others when you are away from your telephone. When the Station Lockout feature is in use, the TRS (Call Barring) Class of your telephone is changed. Anyone using your telephone is limited to the calling abilities defined by this Lockout TRS (Call Barring) Class.

In addition, with the appropriate COS, you can set or cancel Station Lockout for other telephones.

To activate Station Lockout feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset.	

To cancel Station Lockout feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Cancel feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]) .	
3. Enter the Walking TRS (Call Barring)/Station Lockout security code.	
4. Replace the handset.	

To activate Station Lockout feature for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Set for another extension feature code (default = 747 [UK/HK] or 747# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to activate station lockout.	
4. Replace the handset.	

To cancel Station Lockout feature for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Cancel for another extension feature code (default = 748 [UK/HK] or 748# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to activate station lockout.	
4. Enter the Walking TRS (Call Barring)/Station Lockout security code.	
5. Replace the handset.	

To change the Walking TRS/Station Lockout security code:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Walking TRS (Call Barring)/Station Lockout Security Code Change code (default = 749 [UK/HK] or 749# [Taiwan, Malaysia, Indonesia]).	
3. Enter the current Walking TRS (Call Barring)/Station Lockout security code.	
4. Enter the new Walking TRS (Call Barring)/Station Lockout security code.	
5. Replace the handset.	

Considerations

- Walking TRS (Call Barring) and Station Lockout use the same security code.
- If you enter an incorrect key code and then try to dial, the phone will issue a busy tone.
- If station lockout is set, the phone is limited to the Station Lockout TRS (Call Barring) Class outside calling abilities. This TRS (Call Barring) Class should be carefully selected to only allow the desired call types.
- Without Walking TRS (Call Barring) /Station Lockout Security Code, you cannot set the Station Lockout feature.
- You cannot override station lockout using Walking TRS (Call Barring) feature.

Step Call (Reset Call)**Description**

If you dial a busy extension, the System allows you to quickly dial another extension by simply pressing the last digit of the new extension number.

Operation

To use Step Call (Reset Call) to dial another extension (after a busy extension):

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Dial an extension number.	Busy tone
3. Dial the last digit of the next extension number.	

Example: You dial extension 213, but it is busy. To dial extension 214, enter **4**.

Hardware Requirements

- N/A

Considerations

- The second extension called using the Step Call (Reset Call) feature must have the same number of digits as the first extension.
- If you program the System for Step Call (Reset Call), the following features are not available: Camp-on (Ext. no. + **2** [UK/HK] or **2#** [Taiwan, Malaysia, Indonesia]), Callback Request (Ext. no. + **3** [UK/HK] or **3#** [Taiwan, Malaysia, Indonesia]), Message Waiting (Ext. no. + **4** [UK/HK] or **4#** [Taiwan, Malaysia, Indonesia]), Message Waiting (Priority for VM) (Ext. no. + **5** [UK/HK] or **5#** [Taiwan, Malaysia, Indonesia]), Intercom Busy Override (Ext. no. + **9** [UK/HK] or **9#** [Taiwan, Malaysia, Indonesia]).

Timed Reminder Call

Description

Your telephone can act as an alarm clock with the Timed Reminder Call feature.

Operation

To set the Timed Reminder Call feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Timed Reminder Set code (default = *31).	
3. Enter the time you want the Timed Reminder Call to sound. (Enter the time in 24-hour format. For example, 0100 for 1 AM, 1300 for 1 PM.)	
4. Replace the handset or press the ON/OFF key.	

To cancel the Timed Reminder Call feature:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the Timed Reminder Cancel code (default = *39).	
3. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations

- An alarm tone (default = 60 seconds) will be issued at the specified time.
- An extension can have only one Reminder Call set at a time.
- To change the Reminder Call, simply enter a new time.
- If the extension is in use when the reminder call is scheduled, the reminder call is issued 3 minutes later.

Trunk Access

Description

The System supports the following ways to seize an idle trunk to make an outside call:

- Direct Trunk Access
- MCO Trunk Access

Direct Trunk Access

Extensions can seize a specific trunk for outgoing calls. Extensions can also use Direct Trunk Access to test trunks or to access data trunks.

Operation**To use Direct Trunk Access:**

Action	Result
1. Lift the handset or press the ON/OFF key.	
2. Enter the Direct Trunk Access code (default = 88).	
3. Enter the desired trunk number.	Outside dial tone
4. Dial the phone number.	

Hardware Requirements

- N/A

Considerations

- N/A

MCO Trunk Access

The System supports up to 5 MCO groups for each MCO tenant group. You can seize an idle trunk from the MCO trunk group by entering the MCO access code.

Operation

To seize an idle trunk:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter the desired trunk access number (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84). (See Table 22.)	Outside dial tone
3. Dial the phone number.	

Hardware Requirements

- N/A

Considerations

- The System supports up to 576 outside lines in a six-CCU configuration. These lines can be divided into 99 different trunk groups.
- Each trunk group can support up to 50 outside lines.
- Each MCO Tenant Group can have up to 5 MCO trunk access codes. System defaults for MCO trunk access codes are displayed in the following table.
- MCO1 can have up to 5 trunk groups assigned by the Advanced Trunk Group feature.
- MCO1 access code is used for Automatic Route Selection (ARS) access code.

Table 22. MCO Trunk Access Codes

MCO Group	Trunk Access Code
MCO1	9 (UK/HK) or 0 (Taiwan, Malaysia, Indonesia)
MCO2	81
MCO3	82
MCO4	83
MCO5	84

Trunk Queuing

Description

When you try to originate a call by MCO (enter **9** [UK/HK] or **0** [Taiwan, Malaysia, and Indonesia]) and all outside lines in a trunk group are busy, the System can call you when a line becomes free. Simply pick up the handset and dial the telephone number when the Trunk Callback alert tone rings.

Operation

To set Trunk Queuing:

Action	Result
1. Lift the handset or press the ON/OFF key.	Intercom dial tone
2. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	
4. Press the ON/OFF key.	
5. Wait for the Trunk Callback alert tone.	

To respond to the Trunk Callback alert tone:

Action	Result
1. Lift the handset or press the ON/OFF key.	Outside dial tone

Hardware Requirements

- N/A

Considerations

- Response to the Trunk Callback must be within 15 seconds or Trunk Queuing will be cancelled.
- The Trunk Queuing feature may also be used if you hear a busy tone when trying to make a call using the MCO Trunk Access feature.

Universal Night Answer to Page

Description

During night mode, Universal Night Answer (UNA) sends incoming calls for selected trunks to ring external paging speakers.

Universal Night Answer calls can be picked up from any extension, provided the extension's Class of Service (COS) allows UNA answer.

Operation

To answer a UNA call:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the UNA to Page Pickup code (default = 705 [UK/HK] or 705# [Taiwan, Malaysia, Indonesia]).	Call is received.

Hardware Requirements

- External paging speakers and associated equipment are not provided with the S-ICX; they must be purchased separately.

Considerations

- The UNA Ringing port can be specified by the caller's tenant group or by the trunk ringing assignment.

Walking TRS (Call Barring) Class of Service

Walking Toll Restriction Service (TRS) (Call Barring) Class of Service (COS) allows an extension user to “carry” his or her toll restrictions to another phone.

Before the Walking TRS (Call Barring) COS feature can be used, a Walking TRS (Call Barring) code must be entered at your extension before using dialling privileges at another extension.

Operation

To use a Walking TRS (Call Barring) COS code:

Action	Result
1. Lift the handset or press the ON/OFF key of an extension other than your own.	Intercom dial tone
2. Enter the Walking TRS (Call Barring) Access code (default = 87).	
3. Dial your extension number.	
4. Enter your Walking code (0001-9999)	
5. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
6. Dial the phone number.	Walking TRS COS remains in effect until you replace the handset.
7. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Considerations(Call Barring)

- The same Walking TRS (Call Barring) COS code can be used on more than one extension.
- Walking TRS (Call Barring) COS mode is kept until the user goes on-hook.
- ARS and TRS (Call Barring) dialling privileges follow the Walking TRS (Call Barring) COS.
- Before entering a new Walking TRS (Call Barring) COS code, you must first clear the existing code.
- When Walking TRS (Call Barring) COS is used, Wxxxx (where xxxx is the user's extension number) appears in Call Logging.

Chapter 7. SLT Features

Single Line Telephones (SLTs) are industry-standard 2500 sets. SLTs are not equipped with feature keys or line keys, so basic telephone operations are performed by pressing dialpad keys and/or using the switchhook.

This chapter describes the following features that are available with SLTs.

Topic	Page
Absence Message	265
Account Codes	266
Non-Verified Account Codes	267
Verified Account Codes	267
Attendant Group Calls	269
Busy Override	269
Callback Request	270
Call Forwarding	271
Call Forwarding - All Calls	271
Call Forwarding - Busy	272
Call Forwarding - No Answer	273
Call Forwarding and Do-Not-Disturb	274
Call Hold	275
System Hold	275
Floating Hold (Retrieve Only)	276
Exclusive Hold	277
Broker's Hold	278
Call Park	278
Call Pickup	280
Extension Group Pickup	280
Extension Direct Pickup	281
Trunk Group Pickup	282
Trunk Direct Pickup	282
Call Transfer	283
Supervised Transfer	283
Unsupervised Transfer	284
Camp-On (Call Waiting)	285
Conference Calls	287
Do-Not-Disturb (DND)	288
Flash Send	289
Intercom Calling	290
Last Number Redial	291
Message Waiting/Callback	292

Topic	Page
Offhook Signalling	293
Offhook Voice Announce	294
Paging	295
Meet-Me Answer	296
Room Monitoring	296
Speed Dialling	298
Personal Speed Dial	298
System Speed Dial	299
Speed Dial Linking	300
Station Lockout	301
Step Call (Reset Call)	303
Timed Reminder Call	304
Trunk Access	305
Direct Trunk Access	305
MCO Trunk Access	305
Trunk Queuing	307
Universal Night Answer to Page	308
Walking TRS (Call Barring) Class of Service	308

Absence Message

Description

Extension users can leave text messages related to their phones when they are away. When the unattended extension is dialed, the text message displays on the caller's phone. Any one of the following messages can be selected. Messages 5 to 9 have no default message text. All the messages can be changed through system programming.

Table 23. Absence Messages

Message No.	Message Text Displayed on Called Party's Key Telephone	Message No.	Message Text Displayed on Called Party's Key Telephone
0	In Meeting	5	Absence_No_5
1	At Lunch	6	Absence_No_6
2	Out of Office	7	Absence_No_7
3	Vacation	8	Absence_No_8
4	Another Office	9	Absence_No_9

Optionally, a return time can be input. Example Return Times for Absence Messages include:

Input	Display
No input	Return
9	Return 9:00
11	Return 11:00
615	Return 6:15
1035	Return 10:35

Operation

To set an Absence Message

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	
3. Enter the Absence Message number. (See Table 23 above.)	
4. If desired, enter the 4-digit returning time.	
5. Flash the hookswitch.	
6. Replace the handset.	

To cancel an Absence Message

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Absence Message code (default = 729 [UK/HK] or 729# [Taiwan, Malaysia, Indonesia]).	
3. Flash the hookswitch.	
4. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1 (System): Extension Class of Service Setting
- FF3 (Extension): Extension Class of Service Assignment
- FF8 (Maintenance): Absence Messages

Considerations

- Calling parties without a display get a busy signal, rather than the Absence Message.
- Regardless of setting an Absence Message on a DDI/DIL extension, DDI/DIL calls are routed according to the trunk ringing setting.
- An absence message may also be cancelled by dialling **7****. This cancels Do-Not-Disturb (DND) and Call Forwarding-All Calls as well.

Account Codes

Description

You can assign account codes to clients to facilitate billing and to track call dates and times, numbers called, and outside line numbers used. This information is printed for each account on the Call Logging record.

In addition verified account codes may be used to change the Toll Restriction Service (TRS) (Call Barring) level to allow calls to numbers otherwise restricted.

Account codes may be either forced or unforced (voluntary) and either verified or unverified.

This feature works with Call Logging. Before making an outgoing call, a station user can silently enter an accounting or client billing code. Then later, the Call Logging reports will show the Code dialled for each call, and even sort the report by these Codes.

There are two different types of account codes: Non-Verified and Verified Account Codes. Prior to Version 5.0, the maximum amount of account code numbers for both types could range from 1-10 digits. Beginning with Version 5.0, a second mode has been added that allows the user to set the maximum amount of account code numbers from 1-4 digits. An account code error will occur when more than the maximum number of digits are entered.

Non-Verified Account Codes

Non-Verified Codes aren't checked by the system for validity. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. Individual phones can be programmed to accept *forced* Account Codes (the user must enter a code for every call) or *voluntary* Account Codes (the user can enter a code, but doesn't have to, for each call).

Non-Verified Account Codes can be assigned to outgoing calls. The user either enters the Code before accessing an outside line (for *forced* or *voluntary* Codes).

Verified Account Codes

Verified Account Codes entered by phone users must match a 4-digit or 10-digit code that has been preprogrammed into an Account Code Table. Depending on the setting, the user can enter anything from 1-4 digits or 1-10 digits. These codes can also be either *forced* or *voluntary*. You can program these codes with their own TRS (Call Barring) Class assignment so that, when entered, they will override the extension's TRS (Call Barring) Class. Thus, Verified Account Code users can "float" from phone to phone, placing calls that would normally be restricted on that phone.

Non-Verified Account Codes

Non-Verified Account codes are voluntary codes. (i.e., You do not have to enter an account code before making a call.)

You can assign Non-Verified Account codes to outgoing calls only. To assign an account code to an outgoing call, you enter the account code before making the call.

Operation

To enter an account code before making a call:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Account Code feature code (default = 8#).	
3. Enter the Account Code (up to 10 digits).	
4. Press the # key.	
5. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
6. Dial the phone number.	

Verified Account Codes

Stations restricted from outside call origination by TRS (Call Barring) can be allowed to make outgoing calls by entering a Verified Account code that changes the TRS (Call Barring). After a call is made, the Call Logging record for the call will show the verified account code.

Operation

To make an outside call that requires an account code:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Verified Account ID code (default = 8#).	
3. Enter the Account Code (max. 10 digits).	
4. Press the # key.	
5. Enter trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
6. Dial the phone number.	

Hardware Requirements

- A Call Logging printer or external call accounting system is required to collect account code records.

Related Programming

- FF1-0-19: TRS (Call Barring) Class for Forced Account Code
- FF1-2: Dial Plan
- FF3: Forced Account
- FF3: Verified Account
- FF8-1-04: Verified Account Codes with TRS (Call Barring) Class

Considerations

- Account codes are not available during conversation recording mode for the Built-In Voice Mail.
- Even though up to 10 digits may be entered, the system verifies the ID based on the first 4 digits only.
- Account codes will be cancelled after using trunk queuing.-
- Account codes are not available for a Dial Pulse SLT.
- SLT telephones can only use account codes with outgoing calls only.
- Account Codes interact with TRS (Call Barring) as shown in the following table:

Forced or Not Forced	Verified or Non-Verified	TRS (Call Barring) Class	
		No Account Entry	Account Entry
Not Forced	Non-Verified	Extension Port Based TRS Class	Extension Port Based TRS (Call Barring) Class
	Verified		Account Code Based TRS (Call Barring) Class
Forced	Non-Verified	TRS (Call Barring) Class for Forced Account Code (FF1 0 19 0001)	Extension Port Based TRS (Call Barring) Class
	Verified		Account Code Based TRS (Call Barring) Class

Attendant Group Calls

Description

You can call the attendant group from any extension by dialling the designated attendant number.

Operation

To call an attendant group:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the attendant pilot number (default = 0 [UK/HK] or 9 [Taiwan, Malaysia, Indonesia]).	

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF3-0: Extension Number
- FF5-0: Attendant Hunt Groups

Considerations

- Up to 20 extensions can be included in an attendant group.
- The attendant pilot number is flexible.
- If a member of an attendant group is for a virtual extension, multiple extensions in the attendant group can be made to ring at once when the virtual number is dialled.
- Attendant calls are always tone calls (i.e., not voice calls).

Busy Override

Description

Busy Override allows you to break into another user's outside or intercom calls to relay urgent information or to create three-party conference calls.

Operation

To set Extension Busy Override:

Action	Result
1. Lift the handset.	Intercom dial tone

Action	Result
2. Dial the extension number.	Busy tone
3. Enter the Busy Override code (default = 9 [UK/HK] or 9# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • Alert tone sounds to both extensions (System programming required) • Connection to both parties

Hardware Requirements

- N/A

Related Programming

- FF1-0-01: Splash Tone (Busy Override)
- FF1-0-03: Extension COS (Manual DND Override Send)
- FF1-0-03: Extension COS (Forced DND Override)
- FF1-2: Dial Plan
- FF3: Extension COS
- FF3: Data Security

Considerations

- You cannot break in on three-party conference calls.
- The default for the override alert tone is **off**. If the override alert tone is enabled, the tone will be sent to both parties when a call is overridden.

Callback Request

Description

If you dial a busy extension, you can have the System call you back when that extension becomes free. When you answer, the System automatically rings the called party again.

Operation

To set a Callback Request:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the extension number.	Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	Ringback tone
4. Replace the handset after you hear the ringback tone.	System calls back when called extension becomes free

To respond to the Callback Request:

Action	Result
1. Lift the handset.	System automatically redials extension

To cancel a Callback Request:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the Callback cancellation code (default = 769 [UK/HK] or 769# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset .	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Callback Request Send)
- FF1-0-03: Extension COS (Callback Request Receive)
- FF3-0: Extension COS
- FF1-2-03: Dial Plan (Callback Cancel)

Considerations

- N/A

Call Forwarding

Description

Call Forwarding allows you to send your calls to another extension, to an outside line, or to voice mail. Call Forwarding can be set or cancelled under the following conditions from either your own extension or from an alternate extension:

- Call Forwarding - All Calls
- Call Forwarding - Busy
- Call Forwarding - No Answer

Call Forwarding - All Calls

When Call Forwarding - All Calls is set, all incoming calls to an extension are immediately forwarded.

Operation

To set Call Forwarding - All Calls:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 721 (UK/HK) or 721# (Taiwan, Malaysia, Indonesia). • For another extension, enter 731 (UK/HK) or 731# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward.	
4. Enter the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 276.)</p>	
5. Replace the handset.	

To cancel Call Forwarding - All Calls:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 731 (UK/HK) or 731# (Taiwan, Malaysia, Indonesia). • For another extension, enter 751 (UK/HK) or 751# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, enter the extension number.	
4. Replace the handset.	

Call Forwarding - Busy

When Call Forwarding - Busy is set, all incoming calls to a busy extension are forwarded.

To set Call Forwarding - Busy:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 722 (UK/HK) or 722# (Taiwan, Malaysia, Indonesia). • For another extension, enter 742 (UK/HK) or 742# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you want to forward.	
4. Enter the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 276.)</p>	
5. Replace the handset.	

To cancel Call Forwarding - Busy:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 732 (UK/HK) or 732# (Taiwan, Malaysia, Indonesia). • For another extension, enter 752 (UK/HK) or 752# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset.	

Call Forwarding - No Answer

When Call Forwarding - No Answer is set, a call will ring until the Call forward No Answer timer expires. When the timer expires, the unanswered call is forwarded.

To set Call Forwarding - No Answer:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Set Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 723 (UK/HK) or 723# (Taiwan, Malaysia, Indonesia). • For another extension, enter 743 (UK/HK) or 743# (Taiwan, Malaysia, Indonesia). 	
3. If setting Call Forwarding for another extension, dial the number of the extension whose calls you wish to forward.	
4. Dial the destination number: <ul style="list-style-type: none"> • If forwarding to another extension, dial the extension number. • If forwarding to an outside number, press the # key then enter the SSD bin number. <p>Note: Any outside number used for Call Forwarding must already be programmed into speed dialling. (For instructions, see “Speed Dialling” on page 276.)</p>	
5. Replace the handset.	

To cancel Call Forwarding - No Answer:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the appropriate Cancel Call Forwarding code: <ul style="list-style-type: none"> • For your extension, enter 733 (UK/HK) or 733# (Taiwan, Malaysia, Indonesia). • For another extension, enter 753 (UK/HK) or 753# (Taiwan, Malaysia, Indonesia). 	
3. If cancelling Call Forwarding for another extension, dial the extension number.	
4. Replace the handset.	

Call Forwarding and Do-Not-Disturb

The System allows you to cancel both Call Forwarding and Do-Not-Disturb (DND) for your own extension in one step.

To cancel Call Forwarding and DND:

Action	Result
1. Lift the handset.	Intercom dial tone

Action	Result
2. Enter the CF/DND All Clear code (default = 7**).	
3. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Call Forward/All Calls)
- FF1-0-03: Extension COS (Call Forward/Busy)
- FF1-0-03: Extension COS (Call Forward/No Answer)
- FF1-0-03: Extension COS (Call Forward/Other)
- FF1-2: Dial Plan
- FF3-0: Extension COS Assignment

Considerations

- Calls cannot be forwarded to an extension that already has Call Forwarding or DND activated. For example, extension 220 can only forward to extension 225 if 225 is not forwarded.
- Call Forwarding - Busy and Call Forwarding - No Answer can both be set at the same time.
- You can cancel both Call Forwarding and DND by entering 7 * *.
- An auto camp-on to a busy extension will forward to the Call Forward No Answer destination. A manual camp-on to a busy extension will not forward.
- If Call Forwarding No Answer and DND are both set, calls immediately forward to the Call Forward No Answer destination.

Call Hold

Description

The system provides the following types of Call Hold:

- System Hold
- Floating Hold (Retrieve Only)
- Exclusive Hold
- Broker's Hold
- Call Park (Station)

System Hold

You can place either an outside or intercom call on System Hold. You can retrieve a call placed on System Hold from any extension that has a line appearance for the held call.

Operation

To place a call on System Hold:

Action	Result
1. While on a call, hookflash.	Intercom dial tone

To retrieve a call placed on System Hold:

Action	Result
1. If onhook, go offhook.	Intercom dial tone
2. Hookflash.	Retrieve call

To retrieve a held call on a specific trunk:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Specified Trunk Answer code (default = *0).	
3. Enter the trunk number.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Hookflash Operation for SLT)
- FF3-0: Extension COS

Considerations

- N/A

Floating Hold (Retrieve Only)

Floating Hold allows calls to be placed in a hold orbit (position) for retrieval elsewhere in the system. Floating Hold is most commonly used by the attendant group when they are unable to locate the desired party. If the desired party does not answer his/her phone, the attendant places the caller on Floating Hold and asks over the paging system that the desired party dial *9XXX to retrieve the held call.

Note: Single Line Telephone (SLT) positions are not able to place a call on Floating Hold. However, an SLT can retrieve a call on floating.

Operation

To retrieve a call from Floating Hold:

Action	Result
1. Lift the handset.	
2. Enter *9 followed by the Floating Hold Orbit number 01-96 (CPC-HS/HM) or 01-09 (CPC-HS/HM) (See considerations below.)	

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF1-0-02: Dial Control for Floating Hold Answer.

Considerations

- The number of floating hold orbits available may vary depending on the Station Park/Floating Hold Pickup setting (FF1-0-02-0025). The station park pickup access code can be set to *9 (default). The “*9” access code operates as follows:

System Size	Virtual Line Number and Operation
96	01-09 Floating Hold pick up 10-96: Station Park Hold pick up purpose

Exclusive Hold

With Exclusive Hold, only the extension that held the call can retrieve it. Exclusive Hold can be used to hold trunk calls and extension calls.

Operation

To place a call on Exclusive Hold:

Action	Result
1. While on a call, hookflash.	Intercom dial tone

To retrieve a call from Exclusive Hold:

Action	Result
1. If onhook, lift the handset.	
2. Hookflash.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Hookflash Control on SLTs)

Considerations

- Intercom calls will be held as Exclusive.

Broker's Hold

Broker's Hold allows you to toggle between the current call and the last held call by hookflash.

Operation

To place a call on Broker's Hold:

Action	Result
1. Pick up the first call.	
2. Hookflash.	First call on hold
3. Pick up the second call.	
4. Hookflash.	Second call on hold, first call retrieved

Hardware Requirements

- N/A

Related Programming

- F1-0-03: Extension COS (Hookflash Control on SLTs - Broker's Hold or Conference)
- FF3: Extension COS

Considerations

- If Broker's Hold is enabled, it is not possible to establish a conference call from an SLT position.

Call Park

You can use the Call Park function to transfer a call, even if you cannot locate the intended recipient of the call.

Trunk, extension, and network calls may be parked.

There are two ways for an extension to park a call on the S-ICX. One way is to park the call at the receiving extension and to retrieve the parked call at another extension by dialling the park answer code plus the parking extension number. The other way is to park the call at another extension and dial the park transfer answer code at the other extension to retrieve the call. **Beginning with Version 5.0, an Extension Group Pickup code allows the user to pick up a Transfer Recall (only on non-appearing calls), a Hold Recall, and a Station Park Recall.**

Operation

To park a call on this extension:

Action	Result
1. While on a call, press the hookswitch.	• Intercom dial tone
2. Enter the Call Park Hold access code (default = 771 [UK/HK] or 771# [Taiwan, Malaysia, Indonesia]).	
3. If necessary, page the party that needs to retrieve the call.	

To retrieve a call parked at the originating extension from another extension:

Action	Result
1. Lift the handset	Intercom dial tone
Enter the Call Park Answer/Other Ext. access code (default = 773 [UK/HK] or 773# [Taiwan, Malaysia, Indonesia]). OR... Enter the Call Park/Floating Hold Answer feature access code (default = *9).	
2. Dial the number of the extension that parked the call.	• Connected to parked call

To park a call at another extension:

Action	Result
1. While on a call, press the hookswitch.	• Intercom dial tone
2. Enter the Call Park Transfer access code (default = 774 [UK/HK] or 774# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to receive the parked call.	
4. If necessary, page the party that needs to retrieve the call.	

To retrieve a transferred call park:

Action	Result
1. At the extension with the transferred park call, lift the handset.	Intercom dial tone
2. Enter Call Park Answer/Self access code (default = 772 [UK/HK] or 772# [Taiwan, Malaysia, Indonesia]).	• Connected to parked call

Hardware Requirements

- N/A

Related Programming

- FF1 (System): Extension Park Hold Recall Timer
- FF1-0-02: Dial Control for Floating Hold Answer

Considerations

- You cannot park more than one call at a time.
- If two calls are on hold and the last call is parked, the other call is then considered the last held call. If a transfer is performed, the remaining held call would be the call transferred, not the parked call.

Call Pickup

Description

The System allows the following types of call pickup:

- Extension Group Pickup
- Extension Direct Pickup
- Trunk Group Pickup
- Trunk Direct Pickup

Extension Group Pickup

Extension Group Pickup allows you to pick up a direct ringing call (within your extension pickup group or in a different pickup group) without having to dial the number of the ringing extension.

Three types of Extension Group Pickup are available:

- **Call Pickup - All Calls:** You can pick up a call ringing anywhere within your own extension group.
- **Call Pickup - External Calls:** You can pick up only external calls ringing within your own extension group.
- **Specified Group Pickup:** You can pick up a call ringing to an extension in another extension group.

Operation

To use Extension Group Pickup - All Calls:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Extension Group Pickup - All Calls code (default = 701 [UK/HK] or 701# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset.	

To use Extension Group Pickup - External Calls:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Extension Group Pickup - External Calls code (default = 702 [UK/HK] or 702# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset.	

To use Specified Group Pickup:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Specified Group Pickup code (default = 703 [UK/HK] or 703# [Taiwan, Malaysia, Indonesia]).	
3. Enter the number of the call pickup group (01-72) where the call is ringing.	
4. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-02: Intercom Voice Call Pickup
- FF1-2: Dial Plan
- FF3: Call Pickup Group Assignment

Considerations

- N/A

Extension Direct Pickup

Extension Direct Pickup allows you to answer a call to another extension by dialling the number of the ringing extension.

Operation**To use Extension Direct Pickup:**

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Extension Direct Call Pickup code (default = 704 [UK/HK] or 704# [Taiwan, Malaysia, Indonesia]).	

Action	Result
3. Dial the number of the ringing extension.	
4. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-02: Intercom Voice Call Pickup
- FF1-2: Dial Plan

Considerations

- N/A

Trunk Group Pickup

Trunk Group Pickup allows you to answer calls ringing to any extension within your own MCO incoming trunk group.

Operation

To use Trunk Group Pickup:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Trunk Group Pickup code (default = 709 [UK/HK] or 709# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF5-3: MCO Inbound Trunk Group Members

Considerations

- N/A

Trunk Direct Pickup

Trunk Direct Pickup allows you to answer calls ringing on a specific trunk number.

Operation

To use Trunk Direct Pickup:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Trunk Direct Pickup code (default = *0).	
3. Dial the number of the ringing or holding (system) trunk.	
4. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan

Considerations

- Calls on exclusive hold cannot be picked up.

Call Transfer

Description

The System allows you to transfer calls to either another extension or to an outside number. The transferred calls can be either supervised or unsupervised. (You can also use the Camp-on feature to transfer a call to a busy extension.)

Supervised Transfer

When completing a supervised transfer, the transferring party remains on the line until the third party answers, then he/she announces the call.

Operation

To supervise the transfer of a call to another extension:

Action	Result
1. While on a call, hookflash to place the call on hold.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. When the call is answered, inform the third party of the transfer.	
4. Complete the transfer by replacing the handset.	

To supervise the transfer of a call to an outside number:

Action	Result
1. While on a call, hookflash to place the call on hold.	Intercom dial tone
2. Enter trunk access code.	
3. Dial the number to which the call is to be transferred.	
4. When the call is answered, inform the third party of the transfer.	
5. Complete the transfer by replacing the handset.	

Unsupervised Transfer

When completing an unsupervised transfer the transferring party hangs up before the third party answers.

Operation**To transfer a call to another extension without supervising the transfer:**

Action	Result
1. While on a call, hookflash to place the call on hold.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. Complete the transfer by replacing the handset.	

To transfer a call to an outside number without supervising the transfer:

Action	Result
1. While on a call, hookflash to place the call on hold.	Intercom dial tone
2. Enter trunk access code.	
3. Dial the number to which the call is to be transferred.	
4. Complete the transfer by replacing the handset.	

Camping a Call Onto a Busy Extension

Operation

To camp a call onto a busy extension:

Action	Result
1. While on a call, hookflash to place the call on hold.	Intercom dial tone
2. Dial the extension number to which the call is to be transferred.	
3. If your extension does not have Auto Camp-On activated, enter the Camp-On (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	Camp-on tone heard at called extension
4. Complete the transfer by replacing the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Onhook Transfer at Ringback)
- FF1-0-03: Extension COS (Onhook Transfer at Talk)
- FF1-0-03: Extension COS (Onhook Transfer at Camp-on)

Considerations

- On-Hook Transfer must be enabled for the transferring party's Extension Class of Service (COS).
- If the call is not answered by the third party before the Transfer Recall Timer expires, the call will recall to the transferring extension.
- If a Transfer Recall is not answered before the Recall Duration Timer expires, the call will revert to the Attendant group.
- If the called party does not exist, the call recalls to the transferring extension.
- You cannot transfer a call to an extension that has Do-Not-Disturb (DND) activated.
- You can transfer a call to an extension that has Call Forwarding activated. The transferred call will follow the call forwarding path of the extension it is transferred to. For example, if extension 221 is forwarded to extension 225, calls that are transferred to extension 221 will be forwarded to extension 225.
- Calls can be transferred from paging using supervised transfer.

Camp-On (Call Waiting)

Description

If you dial a busy extension, you can camp onto that extension and send a Call Waiting signal to the called party. The called party then needs only to replace the handset and pick it up again to be

automatically connected to the new call. The called party can also place the first call on hold by Hookflashing and then answering the waiting call.

The System provides two types of call waiting:

- **Automatic Call Waiting:** You do not need to enter a code to send the Call Waiting signal. You need only to remain on the line.
- **Manual Call Waiting:** You must enter a code to send a Call Waiting signal to the busy extension.

Operation

To use Automatic Camp-on:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the extension number.	<ul style="list-style-type: none"> • Called party hears alert tone • Calling party hears ringback tone
3. Remain on the line until the called party answers.	

To use Manual Camp-on:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the extension number.	Busy tone
3. Enter the Camp-On (Call Waiting) code (default = 2 [UK/HK] or 2# [Taiwan, Malaysia, Indonesia]).	<ul style="list-style-type: none"> • Called party hears alert tone • Calling party hears ringback tone
4. Remain on the line until the called party answers.	

To answer a Camp-on (Call Waiting) signal:

Action	Result
1. Replace the handset.	
2. Lift the handset again to be connected to the waiting call. OR.... Hookflash.	<ul style="list-style-type: none"> • Current call placed on hold • Connected to waiting call

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF1-0-03: Extension COS

- FF3: Extension COS

Considerations

- You can transfer an outside call to a busy extension using Camp-on. See “To camp a call onto a busy extension:” on page 266.

Conference Calls

Description

Conference Calls allow you to add another party to an existing conversation. With the standard system configuration, up to 3 parties can be included in a conference call at any one time.

Note: The SLT does not support 8 party conference calling.

Any combination of extensions and trunk lines can be in the conference as long as the original extension is in the conference and the total number of parties does not exceed 3. Only one operation is used to establish and add to a conference. You simply have to place the current call on hold, dial the next party and press the **CONF** key. No different operation or access code is required to add additional parties to the call.

When no optional conference card is installed, the system supports the following types of three-party conference calls:

- 3 extensions
- 2 extensions and 1 trunk
- 1 extension and 2 trunks

Operation

To establish a conference call:

Action	Result
1. While on a call, hookflash to place your current call on hold.	
2. If adding an outside party, dial a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	• Outside dial tone
3. Dial the number of the party you wish to add to the call.	
4. Hookflash when your call is answered.	
5. To add additional parties, repeat steps 1-4	
6. To drop out of the conference call, hang up.	

Hardware Requirements

- N/A

Related Programming

- FF3: Extension COS

Considerations

- If all the internal parties hang up, the conference call will be disconnected. If the internal party remains in the conversation, the conference call remains in progress.
- When three parties are conferenced, a built-in 3-party conference circuit is used. If no 3-party conference circuit is available, a conference cannot be established.

Do-Not-Disturb (DND)

Description

You can make an extension unavailable by activating the Do-Not-Disturb (DND) feature. When DND is activated, calls to that extension receive busy tone.

You can set or cancel DND from either your extension or from an alternate extension.

Operation

To set DND for your own extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the DND Set code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset.	

To cancel DND for your own extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the DND Cancel code (default = 720 [UK/HK] or 720# [Taiwan, Malaysia, Indonesia]).	DND/CD LED light goes off
3. Replace the handset.	

To set DND for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the DND Set by Other Phone code (default = 740 [UK/HK] or 740# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	
4. Replace the handset.	

To cancel DND for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the DND Cancel by Other Phone code (default = 750 [UK/HK] or 750# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number.	
4. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Manual DND Override Send)
- FF1-0-03: Extension COS (Forced DND Override)
- FF1-0-03: Extension COS (DND Set/Clear)
- FF1-0-03: Extension COS (DND Set/Clear Other)
- FF1-2: Dial Plan
- FF3-0: Extension COS

Considerations

- Forced DND override is available.
- DND override function is available by Busy Override code.

Flash Send

Description

Flash send allows you to send a flash to a trunk.

Operation**To send a flash on an trunk:**

Action	Result
1. Hookflash to place the current trunk call on hold.	Dial tone is returned
2. Enter the SLT Flash Send access code (default = 765).	A flash is sent on the trunk. The trunk will respond according.

Related Programming

- N/A

Related Programming

- FF1-2: Dial Plan
- FF5-5: Hot Line

Considerations

- N/A

Hot Line**Description**

Hot Line enables you to immediately connect to another pre-assigned extension or speed dial number simply by lifting the handset. You do not have to dial any digits.

Operation

To immediately connect to a pre-assigned extension or speed dial number:

Action	Result
1. Lift the handset.	Automatically connected to pre-assigned extension or speed dial number

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF5-5: Hot Line

Considerations

- N/A

Intercom Calling**Description**

The System provides two methods of intercom calling:

- **Voice Calling:** Extension calls are connected immediately, without a ringing tone.
- **Tone Calling:** A ringing tone is sent to the called extension.

Extension Class of Service (COS) programming determines whether the default for the originating extension is voice or tone calling. Regardless of the default, you can toggle between voice or tone calling by entering the Tone-Voice Call feature code. For example, if the extension default is tone

calling, you can make a voice call to another extension by entering the Tone-Voice Call feature access code.

Operation

To make a call using Intercom Calling:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the extension number.	
3. If your extension is set for tone calling and you want to make a voice call, enter 1 . Or, if your extension is set for voice call and you want to make a tone call, enter 1 .	
4. Speak when your call is answered	
5. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Intercom Calling Type)
- FF1-0-03: Extension COS (Voice Call Send)
- FF1-0-03: Extension COS (Voice Call Receive)
- FF3: Extension COS

Considerations

- Both the called and calling parties must belong to an Extension COS that allows Voice Calling.
- You cannot change from voice calling to tone calling.

Last Number Redial

Description

Last Number Redial allows you to automatically redial the last number dialed.

Operation

To automatically redial the last number dialled:

Action	Result
1. Lift the handset.	
2. Enter the SLT Redial feature code (default = 712 [UK/HK] or 712# [Taiwan, Malaysia, Indonesia]).	
3. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Intercom Redialing)
- FF3: Extension COS

Considerations

- Extension Class of Service (COS) determines whether Last Number Redial can be used for both intercom and trunk calls or trunk calls only.

Message Waiting/Callback

Description

If you try to call an extension that is busy or does not answer, you can leave a message wait indication at that extension, requesting a return call.

Operation

To leave a message waiting indication:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Dial the extension number.	Ring or busy tone
3. While the telephone is still ringing, or when you hear the busy tone, enter the Message Wait Set code (default = 4 [UK/HK] or 4# [Taiwan, Malaysia, Indonesia]).	
4. Replace the handset.	

To answer a message waiting indication (Callback):

Action	Result
1. Lift the handset.	Stutter dial tone
2. Enter the Message Wait Callback code (default = *6).	Telephone automatically dials extension that set Message Waiting Indication

To cancel a Callback Message:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Callback Request Cancel code (default = *5).	
3. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Message Wait set/cancel)
- FF1-0-03: Extension COS (Priority Message Wait set/cancel)
- FF1-2: Dial Plan
- FF3: Extension COS

Considerations

- The System has priority message waiting for 3rd-party voice mail. See “Voice Mail Integration (Third Party)” on page 69.

Offhook Signalling

Description

Offhook Signalling sends a tone over the handset to a busy extension to indicate that a trunk call has arrived or a call is camped-on. **Prior to Version 5.0, users receiving an offhook signal during a conversation had to end the call before answering an incoming call. Beginning with Version 5.0, users receiving an offhook signal during conversation can press and release the hook quickly (hookflash) to place the current call on hold and answer the incoming call.**

Operation

After receiving an offhook signal during a call:

Action	Result
1. Complete the first call and place the handset on hook.	First call is terminated.
2. After the telephone rings, go off hook.	Incoming call is answered.

OR

Action	Result
1. Press and release the hook quickly (hookflash).	First call is placed on hold; incoming call connects.
2. Press and release the hook quickly to go back to the original call.	First call connects again.

NOTE: The steps outlined above can be performed only when the necessary settings have been programmed into the system.

Hardware Requirements

- N/A

Related Programming

- FF3: Trunk Off-Hook Signal
- FF1-1: Off-Hook Signal Timer

Considerations

- The trunk call type may be either multiple ring, or DDI/DIL whose destination is set to Auto camp-on (Call Waiting).
- Offhook signalling is not supported for an ISDN terminal.
- The System does not send the offhook signal under the following conditions:
 - During a conference call
 - During an OHVA or Busy Override
 - Data Privacy is enabled
 - Receiving telephone is a 3rd party voice mail.

Offhook Voice Announce

Description

You can interrupt a busy extension when making an Intercom Call, and then use the Off-Hook Voice Announce (OHVA) feature to make an announcement.

Operation

To make an OHVA :

Action	Result
1. Lift the handset.	
2. Dial the extension number.	Busy signal
3. Enter the OHVA feature access code (default = 8 [UK/HK] or 8# [Taiwan, Malaysia, Indonesia]).	
4. Make your announcement	

Hardware Requirements

- N/A

Related Programming

- FF1 0 03 (System): Extension COS OHVA Originate
- FF1 0 03 (System): Extension COS OHVA Receive
- FF3 (Extension): Extension COS Assignments
- FF4: FF Key Assignment

Considerations

- If On hook Transfer is enabled, the held call is transferred as soon as the extension sending the OHVA hangs up.
- You cannot receive a Call Waiting message during an OHVA.
- If you make an OHVA to an SLT, the SLT user and **the other party** will hear the announcement.

Paging

Description

The System allows you to make both internal and external pages and announcements. Internal pages are made via the System's key telephone speakers. External pages are made through the speakers of an external paging system connected to the System.

Paging calls can be answered from any extension using the Meet-Me Answer feature.

Operation

To make a page:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Group Paging code (default = #).	
3. Enter the number of the desired Paging group (0-9).	

Action	Result
4. Make your announcement.	
5. Replace the handset.	

Meet-Me Answer

To answer a page using Meet-Me Answer:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Meet Me Answer code (default = ##).	Connected to specified party

Hardware Requirements

- External relays, amplifier, and speakers are required for external paging.

Related Programming

- FF1-0-02: Paging Override
- FF1-0-03: Extension COS (Paging)
- FF1-0-04: Trunk COS (Paging)
- FF1-2: Dial Plan
- FF2: Trunk COS
- FF3: Extension COS

Considerations

- If an external paging system has been connected, pages can be made to Paging groups **0-9** through the external speakers. Voice paging can also be heard over the extensions in groups **0-9**.
- An extension can belong to more than one paging group.
- Only one page may be performed at a time. If you attempt to make a page while another extension is paging, you will receive a busy signal unless your system allows Paging Override.
- Beginning with Version 4.5 and higher, the paging system can be set to “timeout” if a page is longer than the specified length of time (0 to 255 seconds). If this feature is set and the timeout period has elapsed, the page originator’s handset will emit a Fast Busy Tone.

Room Monitoring

Version 4.5 and higher

Description

This feature allows the user to monitor the sounds in a room from another extension or room. The transmitter in the telephone handset is used as a remote “microphone” for monitoring these sounds.

To activate this feature, the monitored extension must enable the Room Monitor feature before the monitoring extension can listen to the sounds in the room. The monitored extension can be enabled using an SLT, DSLT, or Key Telephone. No special programming is required to allow an extension to enable the monitored mode.

Operation

To set up the monitored extension:

Action	Result
1. Dial the monitored extension access code (default 775) Note: The handset must be off-hook to activate the Room Monitor feature.	You will hear a confirmation tone after the monitored extension has enabled the Room Monitor feature.

When a monitored extension receives a call, the caller hears a busy tone. Additional operations may be performed from the monitored extension when it is in monitored mode:

Action	Result
1. Placing the handset back on-hook	Monitored mode is cancelled. Extension returns to idle.
2. Pressing digits 0-9, *, #	No response is given. Extension remains in monitored mode.
3. FL/R	Monitored mode is cancelled. Dial tone is returned to handset.

It is not possible to monitor an extension from an SLT telephone.

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Allow/deny Busy Override Send—Monitoring extension)
- FF1-2-02: Dial Plan at DT Pattern 1
- FF1-2-03: Dial Plan at DT Pattern 2

Considerations

- Be sure all phones that should NOT be allowed to monitor have a COS that restricts monitoring.
- If the monitored extension is placed on-hook while Room Monitoring is activated, the monitoring extension will hear a fast busy tone.
- If the monitoring extension goes on-hook while Room Monitoring is activated, the monitored extension will remain in the monitored mode, and can be accessed by any other extension allowed to access the room monitoring mode.
- A room cannot be monitored from more than one extension at a time. If an attempt is made to monitor an extension while the extension is being monitored, the user will hear a fast busy tone.
- ISDN (s-point) extensions cannot access the Room Monitor feature in either the monitor or monitored modes.
- A monitoring extension cannot forward a call on hold to a monitored extension.

- A monitored extension cannot receive a transferred call.

Speed Dialling

Description

The System supports the following speed dial features:

- Personal Speed Dial (PSD)
- System Speed Dial (SSD)
- Speed Dial Linking
- Speed Dial Name Assignment

Personal Speed Dial

You can store frequently called numbers using the PSD feature. Up to 20 PSD numbers can be stored in PSD bins numbered **80-99**.

Operation

To assign PSD numbers:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	
4. Dial the number.	
5. Hookflash.	
6. Replace the handset.	

To dial a PSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Enter the Speed Dial Originate code (default = 80).	
4. Enter the PSD bin number (80-99).	
5. Complete the call and replace the handset.	

To delete a PSD number:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the PSD bin number (80-99).	
4. Hookflash.	
5. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- N/A

Considerations

- Storing a new number erases any previously stored data.
- Speed Dial numbers can contain up to 24 characters.
- Single Line Telephone (SLT) can only enter **0**, **1-9**, *****, and **#**. If a pause, MCO code, intercom level, Dial Pulse (DP) - Dual Tone Multifrequency (DTMF) code, or SSD code needs to be programmed, use *User Maintenance* to program the speed dial.

System Speed Dial

You can store frequently called numbers using the SSD feature. Either 80 or 800 SSD numbers can be programmed, depending on how the System is configured. In an 80 SSD-number system, the SSD numbers are stored in bins **00-79**. In 800 SSD-number systems, the SSD numbers are stored in bins **000-799**.

Operation**To assign SSD numbers:**

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the SSD bin number (00-79 or 000-799).	
4. Dial the phone number.	
5. Hookflash.	
6. Replace the handset.	

To dial an SSD number by entering the speed dial bin number:

Action	Result
1. Lift the handset.	Intercom dial tone
2. If necessary, access an outside line.	Outside dial tone
3. Enter the Speed Dial Originate code (default = 80).	
4. Enter the SSD bin number (00-79 or 000-799).	
5. Complete the call and replace the handset.	

To delete an SSD number:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Speed Dial Set/Clear code (default = 710 [UK/HK] or 710# [Taiwan, Malaysia, Indonesia]).	
3. Enter the SSD bin number (00-79 or 000-799).	
4. Hookflash.	
5. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-15, 16, & 17 SSD Blocks
- FF1-0-02 SSD Digits
- FF1-0-03 Extension COS (SSD Assignment)
- FF8-1-02: SSD Number
- FF8-1-02: SSD Name

Considerations

- The system can be programmed to allow SSD Numbers to override toll restrictions.

Speed Dial Linking

You can automatically link together up to 6 SSD numbers in 1 PSD bin to handle telephone numbers longer than 24 characters.

Alternatively, any combination of PSDs and SSDs can be manually linked together by pressing the keys in the desired sequence. This can be useful for prepending account codes or long distance carrier access codes, etc.

Operation

To use a PSD that links multiple SSDs:

Action	Result
1. Lift the handset.	
1. If necessary, access an outside line.	Outside dial tone
2. Enter the Speed Dial Originate code (default = 80).	
3. Enter the desired PSD bin number (80-99).	
4. Complete the call and replace the handset.	

Hardware Requirements

- N/A

Related Programming

- N/A

Considerations

- N/A

Station Lockout

Description

Use the Station Lockout feature to limit use of your phone by others when you are away from your telephone. When the Station Lockout feature is in use, the Toll Restriction Service (TRS) (Call Barring) Class of your telephone is changed. Anyone using your telephone is limited to the calling abilities defined by this Lockout TRS (Call Barring) Class.

In addition, with the appropriate COS, you can set or cancel Station Lockout for other telephones.

To activate Station Lockout feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]).	
3. Replace the handset.	

To cancel Station Lockout feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Cancel feature code (default = 746 [UK/HK] or 746# [Taiwan, Malaysia, Indonesia]).	
3. Enter the Walking TRS (Call Barring)/Station Lockout security code.	
4. Replace the handset.	

To activate Station Lockout feature for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Set for another extension feature code (default = 747 [UK/HK] or 747# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to activate station lockout.	
4. Replace the handset.	

To cancel Station Lockout feature for another extension:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Station Lockout Cancel for another extension feature code (default = 748 [UK/HK] or 748# [Taiwan, Malaysia, Indonesia]).	
3. Dial the extension number to activate station lockout.	
4. Enter the Walking TRS (Call Barring)/Station Lockout security code.	
5. Replace the handset.	

To change the Station Lockout security code:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Walking TRS (Call Barring)/Station Lockout Security Code Change code (default = 749 [UK/HK] or 749# [Taiwan, Malaysia, Indonesia]).	
3. Enter the current Walking TRS (Call Barring)/Station Lockout security code.	

Action	Result
4. Enter the new Walking TRS (Call Barring)/Station Lockout security code.	
5. Replace the handset.	

Related Programming

- N/A

Related Programming

- FF1-0-03: Extension COS (Station Lockout Enable/Disable)
- FF1-0-03: Extension COS (Station Lockout for another Extension Enable/Disable)
- FF1-2-02: Feature Codes (Station Lockout Code)
- FF1-2-02: Feature Codes (Station Lockout other Extensions Code)
- FF1-2-02: Feature Codes (Station Lockout Cancel other Extensions Code)
- FF1-2-02: Feature Codes (Walking TRS (Call Barring)/Station Lockout Security Code Changing Code)
- FF1-0-19: TRS (Call Barring) Class Under Station Lockout
- FF8-1-08: Walking TRS (Call Barring)/Station Lockout Security Code

Considerations

- Walking TRS (Call Barring) and Station Lockout use the same security code.
- You cannot override station lockout using Walking TRS (Call Barring) feature.
- If you enter an incorrect key code and then try to dial, the phone will issue a busy tone.
- If station lockout is set, the phone is limited to the Station Lockout TRS (Call Barring) Class outside calling abilities. This TRS (Call Barring) Class should be carefully selected to only allow the desired call types.
- Without Walking TRS (Call Barring)/Station Lockout Security Code, you cannot set the Station Lockout feature.

Step Call (Reset Call)

Description

If you dial a busy extension, the System allows you to quickly dial another extension by simply pressing the last digit of the new extension number.

Operation

To use Step Call (Reset Call) to dial another extension (after a busy extension):

Action	Result
1. Lift the handset.	Intercom dial tone

Action	Result
2. Dial an extension.	Busy tone
3. Enter the last digit of the next extension.	

Example: You dial extension 213, but it is busy. To dial extension 214, enter **4**.

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan

Considerations

- The second extension called using the Step Call (Reset Call) feature must have the same number of digits as the first extension.

Timed Reminder Call

Description

Your telephone can act as an alarm clock with the Timed Reminder Call feature.

Operation

To set the Timed Reminder Call feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Timed Reminder Set code (default = *31).	
3. Enter the time you want the Timed Reminder Call to sound. (Enter the time in 24-hour format. For example, 0100 for 1 AM, 1300 for 1 PM).	
4. Replace the handset.	

To cancel the Timed Reminder Call feature:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the Timed Reminder Cancel code (default = *39).	
3. Replace the handset.	

Hardware Requirements

- N/A

Related Programming

- N/A

Considerations

- An alarm tone (default = 60 seconds) will be issued at the specified time.
- An extension can have only one Reminder Call set at a time.
- To change the Reminder Call, simply enter a new time.
- If the extension is in use when the reminder call is scheduled, the reminder call is issued 3 minutes later.

Trunk Access**Description**

The System supports the following ways to seize an idle trunk to make an outside call:

- Direct Trunk Access
- MCO Trunk Access

Direct Trunk Access

Extensions can seize a specific trunk for outgoing calls. Extensions can also use Direct Trunk Access to test trunks or to access data trunks.

Operation

To use Direct Trunk Access:

Action	Result
1. Lift the handset.	
2. Enter the Direct Trunk Access code (default = 88).	
3. Enter the desired trunk number.	Outside dial tone
4. Dial the phone number.	

Hardware Requirements

- N/A

Related Programming

- FF1-0-03: Extension COS (Direct Trunk Access)
- FF3: Extension COS

Considerations

- N/A

MCO Trunk Access

The System supports up to 5 MCO groups for each MCO tenant group. You can seize an idle trunk from the MCO trunk group by entering the MCO access code.

Operation

To seize an idle trunk:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the desired trunk access number (9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84). (See Table 24 on page 306.)	Outside dial tone
3. Dial the phone number.	

Hardware Requirements

- N/A

Related Programming

- FF1: MCO Access
- FF5-2: MCO Trunk Group (Outbound)
- FF7: ARS/TRS (Call Barring)

Considerations

- The System supports up to 576 outside lines in a six-CCU configuration. These lines can be divided into 99 different trunk groups.
- Each trunk group can support up to 50 outside lines.
- Each MCO Tenant Group can have up to 5 MCO trunk access codes. System defaults for MCO trunk access codes are displayed in the following table.
- MCO1 can have up to 5 trunk groups assigned by the Advanced Trunk Group feature.
- MCO1 access code is used for Automatic Route Selection (ARS) access code.

Table 24. MCO Trunk Access Codes

MCO Group	Trunk Access Code
MCO1	9 (UK/HK) or 0 (Taiwan, Malaysia, Indonesia)
MCO2	81
MCO3	82
MCO4	83
MCO5	84

Trunk Queuing

Description

When you try to originate a call by MCO (enter **9** [UK/HK] or **0** [Taiwan, Malaysia, Indonesia]) and all outside lines in a trunk group are busy, the System can call you when a line becomes free. Simply pick up the handset and dial the telephone number when the Trunk Callback alert tone rings.

Operation

To set Trunk Queuing:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter trunk access code.	Busy tone
3. Enter the Callback Request code (default = 3 [UK/HK] or 3# [Taiwan, Malaysia, Indonesia]).	
4. Replace the handset.	
5. Wait for the Trunk Callback alert tone.	

To respond to the Trunk Callback alert tone:

Action	Result
1. Lift the handset.	Outside dial tone

Hardware Requirements

- N/A

Related Programming

- FF1-2: Dial Plan
- FF1-0-03: Extension COS (Trunk Queuing)
- FF3: Extension COS

Considerations

- Response to the Trunk Callback must be within 15 seconds or Trunk Queuing will be cancelled.
- The Trunk Queuing feature may also be used if you hear a busy tone when trying to make a call using the MCO Trunk Access feature.

Universal Night Answer to Page

Description

During night mode, Universal Night Answer (UNA) sends incoming calls for selected trunks to ring external paging speakers. UNA calls can be picked up from any extension, provided the extension's Class of Service (COS) allows UNA answer.

Operation

To answer a UNA call:

Action	Result
1. Lift the handset.	Intercom dial tone
2. Enter the UNA to Page Pickup code (default = 705 [UK/HK] or 705# [Taiwan, Malaysia, Indonesia]).	Call is received.

Related Programming

- FF2-0: Trunk Ring Assignments
- FF1-2: Dial Plan (UNA Pickup Code)
- FF1-0-03: Extension COS (UNA Pickup)
- FF3: Extension COS
- FF3: Extension (External Ring Extension Number)
- FF1-0-27: System (UNA Ringing Port by Tenant Group)

Hardware Requirements

- External paging speakers and associated equipment are not provided with the S-ICX; they must be purchased separately.

Considerations

- The UNA Ringing port can be specified by tenant group or by trunk ring assignment.

Walking TRS (Call Barring) Class of Service

Description

Walking Toll Restriction Service (TRS) (Call Barring) Class of Service (COS) allows an extension user to “carry” his or her toll restrictions to another phone.

Before the Walking TRS (Call Barring) COS feature can be used, a Walking TRS (Call Barring) COS code must be entered at your extension before using dialling privileges at another extension.

Operation

To use a Walking TRS (Call Barring) COS code:

Action	Result
1. Lift the handset or press the ON/OFF key of an extension other than your own.	Intercom dial tone
2. Enter the Walking TRS (Call Barring) Access code (default = 87).	
3. Dial your extension number.	
4. Enter your Walking TRS COS code (0001-9999)	
5. Enter a trunk access code (default = 9 [UK/HK], 0 [Taiwan, Malaysia, Indonesia], or 81-84).	
6. Dial the phone number.	Walking TRS (Call Barring) COS remains in effect until you replace the handset.
7. Replace the handset or press the ON/OFF key.	

Hardware Requirements

- N/A

Related Programming

- FF8-1-08: Walking Class of Service Code

Considerations

- The same Walking TRS (Call Barring) COS code can be used on more than one extension.
- Walking TRS (Call Barring) COS mode is kept until the user goes on-hook.
- ARS and TRS (Call Barring) dialling privileges follow the Walking TRS (Call Barring) COS.
- Before entering a new Walking TRS (Call Barring) COS code, you must first clear the existing code.
- When Walking TRS (Call Barring) COS is used, Wxxxx (where xxxx is the user's extension number) appears in Call Logging.

Appendix A: SBS/VB-9 A-Series Telephone Features

In addition to the Key Telephone, DSLT, and SLT, SBS/VB-9 A Series phones may also be used with Version 1.0. While most the features available on the Key Telephone, DSLT, and SLT are also available on the SBS/VB-9 A-Series telephones, there are a few differences. These differences are listed below:

Feature	Differences for SBS/VB-9 A-Series Telephones
Absence Messages	Absence message can be received only on display telephones.
Account Codes Non-Verified Account Codes Verified Account Codes	
Attendant Group Calls	
Auto Repeat Dial	
Background Music	
Busy Override	
Callback Request	
Call Forwarding Call Forwarding - All Calls Call Forwarding - Busy Call Forwarding - No Answer Call Forwarding - All Call and Do Not Disturb	
Call Hold System Hold Floating Hold Exclusive Hold Brokers Hold Call Park	
Call Hold Extension Group Pickup Extension Direct Pickup Trunk (Exchange Line) Group Pickup Trunk (Exchange Line) Direct Pickup	
Call Transfer Supervised Transfer Unsupervised Transfer Camping a Call onto a Busy Extension	
Caller ID Call Log	Not Available
Camp-on (Call Waiting)	
Conference Calls	

Feature	Differences for SBS/VB-9 A-Series Telephones
Directory Numbers	
Display Information 7-Segment Display Phones Small Display Phone	
Changing the Display's Contrast	Not available on A-Series telephones.
Do-Not-Disturb	
DP to DTMF Signal Conversion	
Flash	Flash key is not available on A-series phone. Recall button and A-series telephone (UK only) send the same Flash signal when the Exchange/MCO key is pressed while in conversation.
Flexible Function Keys	CONF, PROG, and RECALL keys are not available on A-series phones. These functions are assigned on FF keys.
Handsfree Answerback	A-series key phones do not support this feature.
Handsfree Operation	
Headset Operation	When the VB-2394 Headset Adapter is connected, the TW version A-series telephone requires the Headset Adapter (VB-5331) to switch to the headset mode.
Hot Dial Pad	This feature is not available with A-Series key telephones.
Hot Line	
Intercom Calling	
Last Number Redial	
Line Appearances DSS/BLF Appearances Direct In-Line Appearances Multi-Exchange Line (MCO) Appearances	Not available.
Message Key	
Message Waiting/Callback	This feature is available only when using alphanumeric telephones.
Mute Function	
Offhook Monitor	
Offhook Signaling	
Offhook Voice Announce	
One-Touch Keys	
On-hook Dialing	
Paging Meet-Me Answer	
Ringling Line Preferences	
Speed Dialing Personal Speed Dial System Speed Dial	

Feature	Differences for SBS/VB-9 A-Series Telephones
Speed Dial Linking Speed Dial Name Assignments	This feature is available only when using alphanumeric telephones.
Station Lockout	
Step Call (Reset Call)	
Timed Reminder Call	
Trunk (Exchange Line) Access Trunk (Exchange Line) Key Access Direct (Exchange Line) Access MCO Line Preference MCO Trunk (Exchange Line) Access	Depends on the key phone, and whether the maximum exchanges available to assign FF keys are different.
Trunk (Exchange Line) Queuing	
Universal Night Answer to Page	
Volume Control	A-series telephones have a slide switch. The SBS/VB-9 telephone has Volume Up/Down key.
Walking TRS (Call Bearing) Class of Service	
Zip Mode	

A

About User Programming 75
Absence Message 116
 DSLTL 213
 Key Telephone 116
 Message No. and Text
 Key Telephone 117
 SLT 265
Absence message
 key telephone 116
Absence Messages
 Setting 76
Access Codes
 MCO Trunk
 DSLTL 258
 Key Telephone 203
 SLT 306
Account Codes
 DSLTL 215
 Key Telephone 118
 Non-Verified
 Key Telephone 119
 SLT 267
 Non-Verified ID
 DSLTL 216
 SLT 266
 Verified ID
 DSLTL 216
 Key Telephone 119
 SLT 267
ACD (Automatic Call Distributor) 23
AEC Disconnet 22
Alarm Ringing 58
Alpha Tagging
 Caller ID 27
Analog Device Capability
 Extension Interface 40
ANSWER Key 160
Answer Supervision for Voice Mail (Third Party) 68
Architecture
 Non-Blocking 54
ARS (Automatic Route Selection) 24
A-Series Telephones 311
Attendant
 Attendant Reversion 52
Attendant Group Calls
 DSLTL 217
 Key Telephone 120
 SLT 269
Attendant Groups 22
Auto Repeat Dial
 DSLTL 218

 Key Telephone 121
Automatic Call Distributor (ACD) 23
Automatic Call Waiting
 Camp-on
 DSLTL 235
 Key Telephone 144
 SLT 286
Automatic Day/Night Mode 36
Automatic Route Selection (ARS) 24
Automatic Trunk to Trunk Transfer
 System 25

B

Background Music
 DSLTL 219
 Key Telephone 122
 System 25
Background Music/MOH Separation
 System 25
Backup
 Battery 25
 Memory 45
Battery Backup 25
BGM/MOH Separation 25
Blocking Outgoing Audio
 Mute Function 175
Broker's Hold
 DSLTL 228
 Key Telephone 131
 SLT 278
Busy Lamp Field (BLF) Delayed Ringing 58
Busy Lamp Field (BLF) Ringing 57
Busy Override
 DSLTL 220
 Key Telephone 123
 SLT 269

C

Call Barring
 Toll Restriction Service (TRS) 61
 Walking TRS (Call Barring) Class of Service 308
 Walking TRS Class of Service 209
Call Forward Busy Destination Extension
 Setting 77
Call Forward ID Code
 Voice Mail (Third Party) 68
Call Forward ID Codes for Voice Mail
 Setting 78
Call Forward No Answer Destination Extension
 Setting 79

- Call Forwarding
 - All Calls
 - DSLTL 222
 - Key Telephone 125
 - SLT 271
 - Busy
 - DSLTL 222
 - Key Telephone 126
 - SLT 272
 - Do-Not-Disturb
 - DSLTL 224
 - Key Telephone 128
 - SLT 274
 - DSLTL 221
 - Key Telephone 125
 - No Answer
 - DSLTL 223
 - Key Telephone 127
 - SLT 273
 - SLT 271
- Call Hold
 - Broker's Hold
 - DSLTL 228
 - Key Telephone 131
 - SLT 278
 - Call Park
 - DSLTL 228
 - Key Telephone 132
 - SLT 278
 - DSLTL 225
 - Exclusive Hold
 - DSLTL 227
 - Key Telephone 131
 - SLT 277
 - Floating Hold
 - DSLTL 226
 - Key Telephone 130
 - SLT 276
 - Key Telephone 129
 - SLT 275
 - System Hold
 - DSLTL 225
 - Key Telephone 129
 - SLT 275
- Call Logging
 - Output Format 60
 - SMDR 59
 - Priority of Incoming Call Condition Codes 59
 - Priority of Outgoing Call Condition Codes 59
 - Station Message Detail Recording (SMDR) 59
- Call Park
 - DSLTL 228
 - Key Telephone 132
 - SLT 278
- Call Pickup
 - DSLTL 230
 - Extension Direct Pickup
 - DSLTL 231
 - Key Telephone 135
 - SLT 281
 - Extension Group Pickup
 - DSLTL 230
 - Key Telephone 134
 - SLT 280
 - Key Telephone 134
 - SLT 280
 - Trunk Direct Pickup
 - DSLTL 232
 - Key Telephone 136
 - Trunk Group Pickup
 - DSLTL 231
 - Key Telephone 136
 - SLT 282
- Call Progress Tones 26
- Call Records
 - SMDR 59
- Call Routing
 - Network 52
- Call Transfer
 - DSLTL 233
 - Key Telephone 137
 - Network 52
 - SLT 283
 - Supervised
 - DSLTL 233
 - Key Telephone 137
 - SLT 283
 - Unsupervised
 - DSLTL 233
 - Key Telephone 138
 - SLT 284
- Call Waiting
 - (Automatic) Camp-on
 - DSLTL 235
 - Key Telephone 144
 - SLT 286
 - (Manual) Camp-on
 - DSLTL 235
 - Key Telephone 144
 - SLT 286
 - Camp-on
 - DSLTL 235
 - Key Telephone 144
 - SLT 285
- Callback
 - Message Key 172
 - Message Waiting
 - DSLTL 242

- Key Telephone 173
 - SLT 292
- Callback Request
 - DSLTL 220
 - Key Telephone 124
 - SLT 270
- Caller ID
 - Call Log
 - Key Telephone 140
 - Setting Logging Extensions 80
- Caller ID Alpha Tagging 27
- Caller ID Call Log
 - Key Telephone 140
- Caller ID Logging Extensions
 - Setting 80
- Calling
 - Network Extension 52, 53
- Camping on Busy Extension
 - Call Transfer
 - DSLTL 234
 - Key Telephone 139
 - SLT 285
- Camp-on (Call Waiting)
 - Automatic
 - DSLTL 235
 - Key Telephone 144
 - SLT 286
 - DSLTL 235
 - Key Telephone 144
 - Manual
 - DSLTL 235
 - Key Telephone 144
 - SLT 286
 - SLT 285
- Centrex/PBX Compatibility 28
- Changing Display Contrast
 - Display Information 155
- Circular Hunt Group 43
- Class of Service
 - Walking TRS
 - DSLTL 260
 - Walking TRS (Call Barring)
 - Key Telephone 209
 - SLT 308
- Class of Service - Ext/Ext Restriction 29
- Class of Service - Extension (Station) Timers 32
- Class of Service - Extension Feature 29
- Class of Service - Trunk to Trunk Restriction 31
- Class of Service - Trunk/Tie 28
- Class of Service (COS) 28
- CLI/DDI Voice Mail ID Code (Third Party) 69
- CO Trunk Interface - ISDN PRI 63
- Compatibility
 - Centrex/PBX 28

- Conference Calls
 - Busy Override
 - DSLTL 220
 - Key Telephone 123
 - SLT 269
 - DSLTL 236
 - Key Telephone 147
 - SLT 287
- Connection
 - Tandem 54
- Console
 - DSS/72 157
 - EM/24 157
- COS
 - Extension
 - Enable/Disable Features 29
 - Trunk
 - Enable/Disable Features 29
- COS - Ext/Ext Restriction 29
- COS - Extension (Station) Timers 32
- COS - Extension Feature 29
- COS - Trunk to Trunk Restriction 31
- COS - Trunk/Tie 28
- COS (Class of Service) 28
- Customizing Tool 55

D

- Data Security 32
- Date
 - Setting 103
- Day
 - Setting 103
- Day Mode
 - Automatic 36
 - Day, Day 2 33
 - Manual 34
- Day of Week Mode
 - Addresses 83
 - Setting 81
- Day Ringing 56
- Day/Night Mode
 - Automatic 36
 - Manual 34
- Day/Night System Mode
 - System 33
- DDI Trunk Interface 63
- Delayed Ringing 57
- Devices
 - Programming 55
- Dial Pad
 - Hot
 - Key Telephone 166

- Dialling
 - Onhook
 - DSLTL 245
 - Key Telephone 181
- Digital Key Line Telephone (DSLTL) Features
 - Attendant Group Calls 217
- Digital Key Telephones
 - Extension Interface 40
- Digital Pad 37
- Digital Pad Class 37
- Digital Single Line Telephone (DSLTL) Features
 - Conference Calls 236
- Digital Single Line Telephone (DSLTL) 213
- Digital Single Line Telephone (DSLTL) Features
 - Absence Message 213
 - Account Codes 215
 - Auto Repeat Dial 218
 - Background Music 219
 - Busy Override 220
 - Call Forwarding 221
 - Call Hold 225
 - Call Pickup 230
 - Call Transfer 233
 - Callback Request 220
 - Camp-on (Call Waiting) 235
 - Do-Not-Distrub (DND) 238
 - DP to DTMF Signal Conversion 239
 - Flash Signal 240
 - Hot Line 240
 - Intercom Calling 241
 - Last Number Redial 241
 - Message Waiting/Callback 242
 - Offhook Signalling 243
 - Offhook Voice Announce 244
 - Onhook Dialling 245
- Paging
 - Meet-Me Answer 246
 - Speed Dialling 249
 - Step Call (Reset Call) 255
 - Timed Reminder 256
 - Trunk Access 257
 - Trunk Queuing 259
 - Universal Night Answer (UNA) to Page 259
 - Walking TRS Class of Service 260
- DIL Delayed Incoming Ring Enhancement 66
- DIL Ringing
 - Distinguishing Between Incoming Calls 65
- Direct Dial Inward (DDI) (DID) Day/Night Ringing 57
- Direct Dial Inward (DDI) (DID) Delayed Ringing 57
- Direct Dial Inward (DDI) Ringing
 - Ringling Types 64
- Direct In Line Appearances 171
- Direct Inward System Access (DISA)
 - System 37
- Direct Inward System Access (DISA) Ringing
 - Ringling Types 65
- Direct Line (DL) Ringing
 - Ringling Types
 - DL 64
- Direct Trunk Access
 - DSLTL 257
 - Key Telephone 201
 - SLT 305
- Directory Numbers
 - Key Telephone 149
- DISA (Direct Inward System Access) 37
- Disconnect Signal
 - Voice Mail (Third Party) 70
- Display Information
 - Changing Display Contrast 155
 - Key Telephone 152
 - Large-Display Phone 153
 - Small-Display Phone 154
- Distinctive Ringing 38
- Distributed Hunt Group 42
- DND (Do-Not-Disturb)
 - DSLTL 238
 - Key Telephone 155
 - SLT 288
- Do-Not-Distrub (DND)
 - DSLTL 238
 - Key Telephone 155
- Do-Not-Disturb
 - Call Forwarding
 - DSLTL 224
 - Key Telephone 128
 - SLT 274
- Do-Not-Disturb (DND)
 - SLT 288
- Door box
 - Doorphone 38
- Doorphone 38
- Doorphone Sensor 39
- DP
 - Signal Conversion
 - DSLTL 239
 - Key Telephone 156
- DP to DTMF Signal Conversion
 - DSLTL 239
 - Key Telephone 156
- DP/DTMF Single Line Telephones (SLTs)
 - Extension Interface 40
- DSLTL (Digital Single Line Telephone (DSLTL))
 - Illustration 213
- DSLTL Features 211
- DSS/72 Console 157
- DSS/BLF Appearances 169
- DTMF

Signal Conversion
 DSLT 239
 Key Telephone 156

E

EM/24 Console 157
 Exception Day Mode
 Setting 83
 Exclusive Hold
 DSLT 227
 Key Telephone 131
 SLT 277
 Extension
 Set Call Forward Busy Destination 77
 Set Call Forward No Answer Destination 79
 Extension (Station) Timers
 Class Assignment 32
 Extension Calling 52, 53
 Extension COS
 Enable/Disable Features 29
 Extension Direct Pickup
 DSLT 231
 Key Telephone 135
 SLT 281
 Extension Feature COS 29
 Extension Group Pickup
 All Calls
 DSLT 230
 Key Telephone 134
 SLT 280
 DSLT 230
 External Calls
 DSLT 230
 Key Telephone 134
 SLT 280
 Key Telephone 134
 SLT 280
 Specified Group Pickup
 DSLT 230
 Key Telephone 134
 SLT 280
 Extension Interface
 Analog Device Capability 40
 DP/DTMF Single Line Telephones (SLTs) 40
 Extension Interface 39
 Digital Key Telephones
 System 40
 ISDN/BRI S-Point Interface 40
 ISDN/PRI S-Point Interface 41
 Extension Name Assignment
 Large-Display Phone Example 47
 Small-Display Phone Example 48

Extension Name Assignments 46
 Extension Names
 Setting 85
 Extension Restriction COS 29
 Extension Timers 32

F

Facilities
 Network 52
 Feature Access Codes
 FF Key Assignment 160
 FF Key Assignment
 Feature Access Codes 160
 FF Key Extender
 DSS/72 157
 EM/24 157
 FF Keys 158
 Flash Send
 SLT 289
 Flash Signal
 DSLT 240
 Key Telephone 158
 Flash Transfer
 Network 53
 Flexible Function Keys 158
 Flexible Numbering Plan 41
 Flexible Slot
 Free Slot 42
 Floating Hold
 DSLT 226
 Key Telephone 130
 SLT 276
 Virtual 67
 Forwarding
 All Calls
 DSLT 222
 Key Telephone 125
 SLT 271
 Busy
 DSLT 222
 Key Telephone 126
 SLT 272
 Do-Not-Disturb
 DSLT 224
 Key Telephone 128
 SLT 274
 DSLT 221
 Key Telephone 125
 No Answer
 DSLT 223
 Key Telephone 127
 SLT 273

SLT 271
Free Slot 42

G

Groups

Hunt Group
Circular 43
Next Extension 43
Pilot Distributed 42
Pilot Terminal 42
Switch Back 43
Hunting 42
MCO Tenant Group 44

H

Handset

Mute Function 175

Handsfree

Answerback
Key Telephone 165
Operation
Key Telephone 165

Handsfree Answerback

Key Telephone 165

Handsfree Operation

Key Telephone 165

Headset

Operation
Key Telephone 166

Headset Operation

Key Telephone 166

High Priority Message Waiting

Voice Mail (Third Party) 70

Hold

Broker's Hold
DSL 228
Key Telephone 131
SLT 278
Exclusive Hold
DSL 227
Key Telephone 131
SLT 277
Floating Hold
DSL 226
Key Telephone 130
SLT 276
Internal Hold Tone 44
Music 45
Network 53
System Hold

DSL 225
Key Telephone 129
SLT 275

Hot Dial Pad

Key Telephone 166

Hot Line

DSL 240
Key Telephone 167

Hunt Group

Circular 43
Next Extension 43
Pilot Distributed 42
Pilot Terminal 42
Switch Back 43

Hunting Groups 42

I

ID Codes

Setting 78

Intercom Calling

DSL 241
Key Telephone 167
SLT 290

Tone Calling

DSL 241
Key Telephone 168
SLT 290

Voice Calling

DSL 241
Key Telephone 168
SLT 290

Interface

Extension 39
ISDN/BRI 40
ISDN/PRI 41
Trunk 62

Internal Hold Tone

System 44

ISDN Lines

QSIG 55
ISDN PRI Trunk Interface 63
ISDN/BRI S-Point Interface
Extension Interface 40
ISDN/PRI S-Point Interface
Extension Interface 41

J

JTrunk Ringing Mode

Delayed Ringing 57

K

Key

- ANSWER 160
- Voice Mail (Third Party) Transfer Key 71

Key Telephone

- Illustration 116

Key Telephone Features 113

- Absence Message 116
- Account Codes 118
- Attendant Group Calls 120
- Auto Repeat Dial 121
- Background Music 122
- Busy Override 123
- Call Forwarding 125
- Call Hold 129
- Call Pickup 134
- Call Transfer 137
- Callback Request 124
- Caller ID Call Log 140
- Camp-on (Call Waiting) 144
- Conference Calls 147
- Directory Numbers 149
- Display Information 152
- Do-Not-Disturb (DND) 155
- DP to DTMF Signal Conversion 156
- FF Keys 158
- Flash Signal 158
- Handsfree Answerback 165
- Handsfree Operation 165
- Headset Operation 166
- Hot Dial Pad 166
- Hot Line 167
- Intercom Calling 167
- Last Number Redial 168
- Line Appearances 169
- Message Key 172
- Message Waiting/Callback 173
- Mute Function 175
- Offhook Monitor 175
- Offhook Signalling 176
- Offhook Voice Announce 177
- One-Touch Keys 179
- Onhook Dialling 181
- Paging
 - Meet-Me Answer 181
- Reset Call (Step Call) 199
- Ringing Line Preference 183
- Speed Dialling 187
- Station Lockout 197
- Step Call (Reset Call) 199
- Timed Reminder Call 200
- Trunk Access 201

Trunk Queuing 203

Universal Night Answer (UNA) to Page 204

Variable Mode 205

Voice Recognition 207

Volume Control 208

Walking TRS (Call Barring) Class of Service 209

Zip Mode 210

Key telephone features

- absence message 116

L

Large-Display Phone

Display Information 153

Example

- Assigning Extension Names 47

- Setting PSD Names 91

Main Menu Example 153

Last Number Redial

DSLTL 241

Key Telephone 168

SLT 291

Line Appearances

Direct In Line Appearances 171

DSS/BLF Appearances 169

Key Telephone 169

Multi-CO (MCO) 171

List of features 13

Loop Start Trunk Interface 63

M

Maintenance

Power On 54

User 73

Manual Call Waiting

Camp-on

- DSLTL 235

- Key Telephone 144

- SLT 286

Manual Day/Night Mode 34

MCO Line Preference

Trunk Access 202

MCO Tenant Group 44

MCO Trunk Access

DSLTL 258

Key Telephone 202

SLT 306

MCO Trunk Access Codes

DSLTL 258

Key Telephone 203

SLT 306

- Meet-Me Answer
 - Paging
 - DSLTL 246
 - Key Telephone 181
 - SLT 295
 - Memory Backup 45
 - Message Key
 - Message Wait Callback 172
 - Priority Message Wait Callback 172
 - Setting ID Code 86
 - Message Key ID Code
 - Setting 86
 - Voice Mail (Third Party) 69, 70
 - Message Keys
 - Key Telephone 172
 - Message Wait Callback
 - Message Key 172
 - Message Waiting
 - High Priority
 - Voice Mail (Third Party) 70
 - Message Waiting/Callback
 - DSLTL 242
 - Key Telephone 173
 - SLT 292
 - Messages
 - Absence
 - DSLTL 213
 - Key Telephone 116
 - SLT 265
 - Absence Message
 - Message No. and Text
 - Key Telephone 117
 - Setting
 - Absence Messages 76
 - Setting Send Text Messages 95
 - Setting Text Message Replies 108
 - Text Message
 - Replies 145
 - Send 145
 - Mode Schedule
 - Schedule Patterns - Addresses/Values 89
 - Setting 87
 - Modes
 - Automatic Day/Night 36
 - Day of Week
 - Addresses 83
 - Setting 81
 - Day, Day 2 33
 - Day/Night System 33
 - Exception Day
 - Setting 83
 - Manual Day/Night 34
 - Night, Night 1, Night 2 33
 - Special Day
 - Setting 96
 - Start Time/Mode - Addresses/Values 98
 - MOH 25
 - Internal Hold Tone 44
 - MOH (Music-on-Hold) 45
 - Multi-CO (MCO) Appearances 171
 - Multiple Ringing
 - Ringling Types 67
 - Music
 - Background
 - DSLTL 219
 - Key Telephone 122
 - Music-on-Hold (Background)
 - DSLTL 219
 - Key Telephone 122
 - Music-on-Hold (MOH) 45
 - Internal Hold Tone 44
 - Mute Function
 - Key Telephone 175
- ## N
-
- Name Assignments 46
 - Extension 46
 - Speed Dial 50, 192
 - Names
 - Extension 85
 - Network 52, 53
 - Network Attendant Reversion 52
 - Network Call Routing 52
 - Network Call Transfer 52
 - Network Extension Calling 52, 53
 - Network Facilities 52
 - Attendant Reversion 52
 - Network Call Routing 52
 - Network Call Transfer 52
 - Network Extension Calling 52, 53
 - Network Flash Transfer 53
 - Network Hold 53
 - Network Paging 53
 - Network Transfer Recall 54
 - Tandem Connection 54
 - Network Flash Transfer 53
 - Network Hold 53
 - Network Paging 53
 - Network Transfer Recall 54
 - Next Extension/Hunt Group 43
 - Night Mode
 - Automatic 36
 - Manual 34
 - Night, Night 2, Night 3 33
 - Non-Blocking Architecture 54
 - Non-Verified Account Codes

Key Telephone 119
 SLT 267
 Non-Verified ID Account Codes
 DSLT 216
 Numbering Plan
 Flexible 41

O

Offhook
 Monitor
 Key Telephone 175
 Signalling
 DSLT 243
 Key Telephone 176
 SLT 293
 Voice Announce
 DSLT 244
 Key Telephone 177
 SLT 294
 Offhook Monitor
 Key Telephone 175
 Offhook Signalling
 DSLT 243
 Key Telephone 176
 SLT 293
 Offhook Voice Announce
 DSLT 244
 Key Telephone 177
 SLT 294
 One-Touch Keys 179
 Onhook Dialling
 DSLT 245
 Key Telephone 181
 Override
 SSD TRS 61

P

Pad
 Digital 37
 Pad Class 37
 Paging
 DSLT 246
 Key Telephone 181
 Meet-Me Answer
 DSLT 246
 Key Telephone 181
 SLT 295
 Network 53
 SLT 295
 PBX Compatability 28

PC-Based Customizing Tool 55
 Personal Speed Dial (PSD)
 Setting Names 89
 Personal Speed Dial (PSD) Numbers
 Setting 94
 Personal Speed Dialling (PSD)
 DSLT 249
 Key Telephone 187
 SLT 298
 Pickup
 DSLT 230
 Extension Direct Pickup
 DSLT 231
 Key Telephone 135
 SLT 281
 Extension Group Pickup
 All Calls
 DSLT 230
 Key Telephone 134
 SLT 280
 DSLT 230
 External Calls
 DSLT 230
 Key Telephone 134
 SLT 280
 Key Telephone 134
 SLT 280
 Specific Group
 DSLT 230
 Key Telephone 134
 SLT 280
 Key Telephone 134
 SLT 280
 Trunk Direct Pickup
 DSLT 232
 Key Telephone 136
 Trunk Group Pickup
 DSLT 231
 Key Telephone 136
 SLT 282
 Pilot Distributed Hunt Group 42
 Pilot Terminal Hunt Group 42
 Port
 Virtual 67
 Power On Maintenance 54
 Priority Message Wait Callback
 Message Key 172
 Programing Devices
 Telephone 55
 Programming Devices 55
 PC-Based Customizing Tool 55
 Programming Telephone 55

Progress Tones 26
 PSD (Personal Speed Dial)
 Setting Names 89
 Large-Display Phone Example 91
 Small-Display Phone Example 92
 Setting Numbers 94

Q

QSIG ISDN Lines 55

R

Redial
 Last Number
 DSLTL 241
 Key Telephone 168
 SLT 291
 Redial Key
 Busy Tone
 DSLTL 218
 Key Telephone 121
 Last Number
 DSLTL 241
 Key Telephone 168
 RELEASE Key 160
 Reset Call (Step Call)
 DSLTL 255
 Key Telephone 199
 SLT 303
 Restriction
 Ext to Ext COS 29
 Ringing
 Alarm 58
 BLF 57
 BLF Delayed 58
 Day 56
 DDI 64
 DDI (DID) Day/Night 57
 DDI (DID) Delayed 57
 Delayed 57
 DISA 65
 Distinctive 38
 DL 64
 Slide 58
 Ringing Line Preference 183
 Ringing Modes 56
 Ringing Types 64
 DDI Ringing 64
 DISA 65
 Multiple Ringing 67
 Room monitoring using Key Telephone 183, 247

Room monitoring using SLT 296

S

SBS Telephones 311
 Schedule
 Setting 87
 Security
 Data 32
 Send Text Messages
 Setting 95
 Sensor
 Doorphone 39
 Separation
 BGM/MOH 25
 Set Absence Messages 76
 Set Call Forward Busy Destination Extension 77
 Set Call Forward ID Code for Voice Mail 78
 Set Call Forward No Answer Destination Extension 79
 Set Caller ID Logging Extensions 80
 Set Day of Week Mode 81
 Set Exception Day Mode 83
 Set Extension Names 85
 Set Message Key ID Code 86
 Set Mode Schedule 87
 Set Personal Speed Dial (PSD) Names 89
 Large-Display Phone Example 91
 Small-Display Phone Example 92
 Set Personal Speed Dial (PSD) Numbers 94
 Set Send Text Messages 95
 Set Special Day Mode 96
 Set System Date/Time/Day 103
 Set System Speed Dial (SSD) Index 104
 Set System Speed Dial (SSD) Names 105
 Set System Speed Dial (SSD) Numbers 107
 Set Text Message Replies 108
 Set Verified ID Codes 109
 Set Walking TRS (Call Barring) Codes 111
 Signal Conversion
 DP to DTMF
 DSLTL 239
 Key Telephone 156
 Silent Monitor 185
 Single Line Telephone (SLT) Features 263
 Absence Message 265
 Account Codes 266
 Attendant Group Calls 269
 Busy Override 269
 Call Forwarding 271
 Call Pickup 280
 Call Transfer 283
 Callback Request 270
 Camp-on (Call Waiting) 285

- Conference Calls 287
- Do-Not-Distrub (DND) 288
- Flash Send 289
- Intercom Calling 290
- Last Number Redial 291
- Message Waiting/Callback 292
- Offhook Signalling 293
- Offhook Voice Announce 294
- Paging
 - Meet-Me Answer 295
- Speed Dialling 298
- Station Lockout 301
- Step Call (Reset Call) 303
- Timed Reminder 304
- Trunk Access 305
- Trunk Queuing 307
- Universal Night Answer (UNA) to Page 308
- Walking TRS (Call Barring) Class of Service 308
- Single Line Telephone (SLT)Features
 - Call Hold 275
- Slide Ringing 58
- SLT Flash Send 289
- Small-Display Phone
 - Display Information 154
 - Example
 - Assigning Extension Names 48
 - Setting PSD Names 92
 - Menu Example 154
- SMDR (Call Logging)
 - Output data format 60
 - Priority of Incoming Call Condition Codes 59
 - Priority of Outgoing Call Condition Codes 59
- SMDR (Station Message Detail Recording)
 - Call Logging 59
 - Call Records 59
- Software Version 11
- Special Day Mode
 - Setting 96
 - Start Time/Mode - Addresses/Values 98
- Speed Dial Linking
 - DSLTL 252
 - Key Telephone 191
 - SLT 300
- Speed Dial Name Assignments 50, 192
- Speed Dialing
 - DSLTL 249
- Speed Dialling
 - DSLTL 249
 - Key Telephone 187
 - Personal
 - DSLTL 249
 - Key Telephone 187
 - SLT 298
 - SLT 298
- System
 - DSLTL 251
 - Key Telephone 189
 - SLT 299
- S-Point Interface
 - ISDN/BRI 40
 - ISDN/PRI 41
- SSD (System Speed Dial)
 - Setting Names 105
 - Setting Numbers 107
 - Setting SSD Index 104
- SSD TRS Override 61
- Station Lockout
 - Key Telephone 197
 - SLT 301
- Station Message Detail Recording (SMDR)
 - Call Logging 59
 - Call Records 59
- Station Message Detail Recording (SMDR) (Call Logging)
 - Output Format 60
- Station Message Detail Recording (SMDR) (Call Logging)
 - Priority of Incoming Call Condition Codes 59
 - Priority of Outgoing Call Condition Codes 59
- Station Timers 32
 - Class Assignment 32
- Step Call (Reset Call)
 - DSLTL 255
 - Key Telephone 199
 - SLT 303
- Supervised Call Transfer
 - DSLTL 233
 - Key Telephone 137
 - SLT 283
- Switch Back Hunt Group 43
- System
 - Background Music 25
- System Architecture
 - Non-Blocking 54
- System Features 19
- System Hold
 - DSLTL 225
 - Key Telephone 129
 - SLT 275
- System Mode
 - Day 33
 - Day/Night 33
 - Night 33
- System Speed Dial (SSD)
 - Setting Names 105
 - Setting Numbers 107
 - Setting SSD Index 104
 - TRS Override 61

System Speed Dialling (SSD)
 DSLTL 251
 Key Telephone 189
 SLT 299

T

Tandem Connection 54
Telephone Programming 55
Tenant Group
 MCO 44
Tenant Operation
 MCO 44
Text Message Replies
 Setting 108
Text Messages
 Replies 145
 Send 145
 Setting Replies 108
 Setting Send Text Messages 95
Third Party Voice Mail 68
Time
 Setting 103
Timed Reminder Call
 DSLTL 256
 Key Telephone 200
 SLT 304
Timers
 Station 32
Toll Restriction Service (TRS) (Call Barring) 61
Tone
 Internal Hold 44
Tone Calling
 Intercom Calling
 DSLTL 241
 Key Telephone 168
 SLT 290
Tones
 Call Progress 26
Transfer
 Automatic Trunk To Trunk 25
 Camping on Busy Extension
 DSLTL 234
 Key Telephone 139
 SLT 285
 DSLTL 233
 Key Telephone 137
 Network Call 52
 Network Flash 53
 SLT 283
 Supervised
 DSLTL 233
 Key Telephone 137

 SLT 283
 Unsupervised
 DSLTL 233
 Key Telephone 138
 SLT 284
Transfer Key
 Voice Mail (Third Party) 71
Transfer Recall
 Network 54
TRS (Call Barring) Codes
 Walking 111
TRS (Toll Restriction Service)
 Call Barring 61
TRS Override
 SSD 61
Trunk (Exchange Line) Key Trunk Access 201
Trunk (Exchange Line) Queuing 313
Trunk Access
 CTrunk (Exchange Line) Key Trunk Access 201
 Direct Trunk Access
 DSLTL 257
 Key Telephone 201
 SLT 305
 DSLTL 257
 Key Telephone 201
 MCO
 DSLTL 258
 Key Telephone 202
 SLT 306
 MCO Line Preference 202
 SLT 305
Trunk COS
 Enable/Disable Features 29
Trunk Direct Pickup
 DSLTL 232
 Key Telephone 136
Trunk Group Pickup
 DSLTL 231
 Key Telephone 136
 SLT 282
Trunk Interface 62
 DDI 63
 Loop Start 63
Trunk Interface - DDI 63
Trunk Interface - ISDN PRI 63
Trunk Interface - Loop Start 63
Trunk Queuing
 DSLTL 259
 Key Telephone 203
 SLT 307
Trunk Ringing
 DDI (DID) Day/Night 57
 Ringing Modes 56
Trunk Ringing Mode

- Alarm Ringing 58
- BLF Delayed Ringing 58
- BLF Ringing 57
- Day Ringing 56
- DDI (DID) Delayed Ringing 57
- Slide Ringing 58
- Trunk to Trunk Restriction COS 31
- Trunk To Trunk Transfer
 - Automatic 25
- Trunk/Tie COS 28

U

- UNA to Page
 - DSLTL 259
 - Key Telephone 204
 - SLT 308
- Universal Night Answer (UNA) to Page
 - DSLTL 259
 - Key Telephone 204
 - SLT 308
- Unsupervised Call Transfer
 - DSLTL 233
 - Key Telephone 138
 - SLT 284
- User Maintenance 73
 - Introduction 73
- User Programming 75

V

- Variable Mode 205
- VB-9 Telephones 311
- Verified ID Account Codes 216
 - Key Telephone 119
 - SLT 267
- Verified ID Codes
 - Setting 109
- Virtual Extension
 - Virtual Port 67
- Virtual Port 67
 - Floating Hold 67
 - Virtual Extension 67
- Voice Calling
 - Intercom Calling
 - DSLTL 241
 - Key Telephone 168
 - SLT 290
- Voice Mail
 - Call Forward ID Code (Third Party) 68
- Voice Mail (Third Party)
 - Answer Supervision 68

- CLI/DDI Voice Mail ID Code 69
- Disconnect Signal 70
- High Priority Message Waiting 70
- Message Key ID Code 70
- Voice Mail (Third Party) Transfer Key 71
- Voice Mail ID Codes
 - Setting 78
- Voice Mail Integration
 - Third Party 68
- Voice Recognition 207
- Volume Control 208

W

- Walking TRS (Call Barring) Class of Service
 - Key Telephone 209
 - SLT 308
- Walking TRS (Call Barring) Codes
 - Setting 111
- Walking TRS Class of Service
 - DSLTL 260

Z

- Zip Mode 210