

BCM RIs 6.0

# **Telephony Services**

Task Based Guide

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# **Telephony Services**

### **Overview**

This guide provides information relating to the key features of Telephony configuration of the Business Communications Manager. It is not intended to be a complete reference of all Telephony options.

#### Accessing Element Manager Configuration

1. To access the Business Element Manager application from the Start Menu, navigate to **Start**, **Programs**, **Avaya**, **Business Communications Manager**, **and Business Element Manager**.



2. Alternatively, double-click on the **Business Element Manager** desktop icon.



3. You will be presented with the Element Manager interface.



4. Open the **Network Elements** folder and select the IP Address of the BCM.

Avaya Business Element M	anager - Network Elements / 200.30.30.80
File Edit View Network Ser	ision Tools <b>Help</b>
🐐 Exit 🛛 💥 Cut 🖻 Copy	🗝 🖷 Paste 🛛 💳 Web Page 🖌 Validate Device 📸 Connect 🗙 Delete
Element Navigation Panel	
🖃 🖓 Network Elements	Connection Information
10.1.1.2 10.1.1.66 200.30.30.30.73 200.30.30.51 BCM Chester 200.30.30.77 TEST BCM50 R6 200.30.30.80	IP Address: 200.30.30.80 User ID: nnadmin Password: ******** Inventory Information System Name: BCM50b System Description: BCM50b System Software Version: 10.0.1.00.107

5. Enter the User Name of the BCM in the User Name field, by default this is **nnadmin**. Then enter the Password in the Password field, by default the password is **PIsChgMe!**. Click the **Connect** button.

6. A warning screen will appear, read the warning and click OK.



7. You will be presented with the Element Manager interface.



8. Select the **Configuration** tab, open up the **Telephony** tree.



## Flow Chart

The flow chart below shows a recommended programming order for Telephony Services.

**WARNING BCM450:** Before commencing any Telephony programming, ensure that the private and public DN lengths have been set as required. Changing the DN lengths at a later date will erase any related programming. This should have been performed during the BCM450 initialisation process (refer to the **Configuring the Received Number Lengths** section of the **System Start Up Guide**). For BCM50 systems, refer to the **Setting the Received Digit Length** section of this guide, as this process may not have been performed during the BCM50 Initialisation process.



## Setting the Received Digit Length

**Note BCM450:** The public and private Received Number Lengths should have been set during the Telephony Resources configuration section of the BCM450 System Start Up process (refer to the **Configuring the Received Number Lengths** section of the **BCM450 System Start Up Guide**). If they are configured after the Telephony Resources configuration, then any previous Received Number assignments to Target Lines may be erased.

**Note BCM50**: The Received Digit Length should be set prior to any Target Line programming. Changing the Received Digit Length erases any existing received digits programmed for Target Lines. If the Received Number Lengths and Received Number assignments to Target Lines have previously been configured, then skip this section.

File Edit View Network Sess	ion Tools Help
🐐 Exit 🛛 💥 Cut 🕞 Copy	🕋 Paste 🔚 Web Page 🗸 Validate Device 🧏 Disconnect 🔗 Refresh 💣 Auto-refresh
Task Navigation Panel Configuration Administration	Dialing Plan - Public Network
Welcome	Public Network Settings
Eren System Eren in Administrator Access	Public Received number length: 6 Public network dialing plan: Public (Unknown) 💌
🗄 💼 Resources	Public Auto DN: 5 Public network code:
E Clabel Catting	Public DISA DN:
H- Chines	Public Network DN Lengths Carrier Codes
Loops	
Scheduled Services	
📄 🗁 Dialing Plan	12 🔽
General	1 WARNING X
DNs	9
Public Network	Changing this value will clear incompatible received numbers.
Private Network	Default
Bouting	
Ring Groups	
🕀 🦳 Call Security	
Hospitality	
🕒 Hunt Groups	Add Delete Add Delete
Coll Dotoil Decording	

Use the following procedure to configure the Received Digit Length.

1. Select the **Configuration** tab followed by **Telephony, Dialling Plan, Public Network** and select **Public Received Number Length**.



- 2. From the drop down list, set the **Public Received Number length** as required.
- 3. If your BCM will be configured for use in a private network, select the **Private Network** option.
- 4. Again, configure the Private Received number length as required.



## Lines

#### **Configuring Lines**

1. To configure physical lines (e.g. ISDN2 or ISDN30 channels) navigate to the following path: Select the **Configuration** tab followed by **Telephony**, **Lines** and **Active Physical Lines**.



2. Next, select the line to configure, and enter in the configuration settings required.

File Edit View Network Session	Tools Help							
🐔 Exit 🐰 Cut 🖺 Copy 🖷	Paste	🗧 Web Page 🛛 🖌 Valid	ate Device	🞽 Disconnect 🛛 🍧	Refresh 🐻 Auto-	refresh		
Task Navigation Panel								
Configuration Administration	Active Pl	hysical Lines						
Welcome	Line	Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Receive	d # Priv
🗄 🛅 System	085	PRI	Line085	221	Pool:BlocC	221	N/A	N/A
🗄 🛅 Administrator Access	086	PRI	Line086	221	Pool:BlocC	221	N/A	N/A
E Casources	087	PRI	Line087	221	Pool:BlocC	221	N/A	N/A
E D Telephony	088	PRI	Line088	221	Pool:BlocC	221	N/A	N/A
Global Settings	089	PRI	Line089	221	Pool:BlocC	221	N/A	N/A
🕀 🧰 Sets	090	PRI	Line090	221	Pool:BlocC	221	N/A	N/A
E-C Lines	091	BRI-ST4 MBM	Line091	221	Pool:BlocB	221	N/A	N/A
Active Physical Lines	092	BRI-ST4 MBM	Line092	221	Pool:BlocB	221	N/A	N/A
Active VoIP Lines	093	BRI-ST4 MBM	Line093	221	Pool:BlocB	221	N/A	N/A
Target Lines	094	BRI-ST4 MBM	Line094	221	Pool:BlocB	221	N/A	N/A
Inactive Lines	095	BRI-ST4 MBM	Line095	221	Pool:BlocB	221	N/A	N/A
All Lines	096	BRI-ST4 MBM	Line096	221	Pool:BlocB	221	N/A	N/A
Loops	097	BRI-ST4 MBM	Line097	221	Pool:BlocB	221	N/A	N/A
Scheduled Services	098	BRI-ST4 MBM	Line098	221	Pool:BlocB	221	N/A	N/A
E Dialing Plan	Co	py Paste	Renum	ber				
Ring Groups								
Call Security								
Hust Crause	Details f	or Line: 091						
Call Detail Recording	II							
Data Services	Prope	rties Preferences Res	rictions Assi	igned DNs				
		Line Turine Disity 1						
H Pppicocoris		Line runing Digit: 1						

## Active Physical Lines

<u>р</u>	Active Physical Lines										
ſ	Line	Trunk Type 🔺	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv. Received #	Distinct Ring		
I	067	BRI-ST	Line067	221	Pool: A	221	N/A	N/A	None		

Attribute	Value	Description							
Line	This list contains all the possible line numbers for the system, including target lines.	Configure only those lines that are active on the system.							
Trunk Type	Loop, PRI, VoIP	There are three main categories of lines: PSTN-based lines: (analog, digital, PRI, BRI) Voice over IP (VoIP) trunks, which connect through the LAN or WAN. Target lines, which are internal channels that provide direct dial capability for PRI and VoIP trunks.							
Name	Up to seven alphanumeric characters	Identify the line in a way that is meaningful to your system, such as by the type of line and line pool or the DN it is attached to in the case of Target lines.							
Control set	DN <control </control  telephone DN> Default:Enter a telephone DN for a telephone that you want use to turn service off or on for other telephones us this line.(default start DN)The control telephone must have the line assigned, must be assigned to the line pool the line is in.								
Tips External lines and Ringing Restriction Routing S For maximum flex one for the lines a You can turn on control telephone. normal service or at one time, but th	telephones must be n ervices. kibility, it is recomm nd one for the teleph a service manually However, you can one of the six sche ey must use differer	e programmed to use one of the Scheduled Services: ended that you create two different control telephones, nones. or automatically for all external lines from an assigned not combine schedules. A service can only be active as dules at any one time. Several schedules can be active nt services.							
Line type	Public Private to: Pool A to O, Bloc A to F	<ul> <li>Define how the line is used in relation to other lines in the system.</li> <li>Public line: can be accessed by more than one telephone.</li> <li>Private line: can be assigned only to one telephone and the prime telephone for that line. Enter the internal number of the telephone.</li> <li>Pool A - O (digital lines and BRI/BLOC-A to BLOC-F (PRI and VoIP lines): assigns the line to one of the line pools. If a line is assigned to a line pool, but is not assigned to any telephone, that line is directly available only for outgoing calls.</li> <li>BLOC line pools must be used in conjunction with routes and destination codes. Target lines cannot be put into line pools.</li> </ul>							
Prime set	DN: None	Assign a telephone to provide backup answering for calls on the line. For an Auto Answer line, calls are redirected if the received number is invalid or the target							

Attribute	Value	Description
		line is busy, and if the If busy parameter is set To prime.
		Each line can be assigned only one prime telephone
Pub Received # (Target lines and DASS2 lines only	Digits associated with a specific target line	Specify the digits the system will use to identify a call from the public system to this target line. A received number cannot be the same as, or be the start digits, of a line pool access code, a routing code, the DISA DN or the Auto DN. If you are configuring auto-answer BRI trunks to map to target lines, the received number should be the same as the Network DN supplied by your service provider. The call will be directed to the prime telephone for the incoming line if the Network DN is not used
Private Received # (Target lines and DASS2 lines only)	Digits associated with a specific target line	Specify the digits the system will use to identify a call from the private system to this target line. A received number cannot be the same as, or be the start digits, of a line pool access code, a routing code, the DISA DN or the Auto DN. If you are configuring auto-answer BRI trunks to map to target lines, the received number should be the same as the Network DN supplied by your service provider. The call will be directed to the prime telephone for the incoming line if the Network DN is not used.
Distinct ring	None Pattern 2 Pattern 3 Pattern 4	<ul> <li>Choose the distinctive ring pattern that you want to assign to the line. This allows you to provide selective service to calls with differing answer priorities.</li> <li>When more than one line with the distinct ring settings rings at a telephone, the line with the highest priority will ring first.</li> <li>Pattern 4 has the highest ring priority</li> <li>Pattern 3 has second highest ring priority</li> <li>Pattern 2 has third highest ring priority</li> <li>None has the lowest ring priority.</li> <li>By default, all telephones and lines are set to None</li> </ul>

#### Lines - Properties Tab

The line properties that appear here are dependent on the lines to be configured.

Task Navigation Panel	All Line	s							
Welcome	Line	△ 1	runk Type	Name		Control Set	Line Type	Prime Set	
🗄 💼 System	094	BRI-ST	MBM	Line094	221		Public	221	N/A
🗄 🛅 Administrator Access	095	BRI-ST	MBM	Line095	221		Public	221	N/A
🗄 🛅 Resources	096	BRI-ST4	MBM	Line096	221		Public	221	N/A
🚊 🗁 Telephony	097	BRI-ST	MBM	Line097	221		Public	221	N/A
🕀 🛅 Global Settings	098	BRI-ST	MBM	Line098	221		Public	221	N/A
🗄 🛅 Sets	099	Loop		Line099	221		Public	221	N/A
🛱 🗁 Lines	100	Loop		Line100	221		Public	221	N/A
Active Physical Lines	101	Loop		Line101	221		Public	221	N/A
Active VoIP Lines	102	Loop		Line102	221		Public	221	N/A
Target Lines	103	Loop		Line103	221		Public	221	N/A
Inactive Lines	104	Loop		Line104	221		Public	221	N/A
All Lines		I	Deaths	1					
🕒 Loops		Сору	Paste	Kenum	ber				
Scheduled Services									
🕀 🛅 Dialing Plan	Details	for Line: 0	99						
Ring Groups									
🕀 🛅 Call Security	Pror	perties Dr	former Doct	vistions I Acc	anad D	Ma I			
🕒 Hospitality		percies pre	erences   Resu	rictions   Ass	gnea D	in s i			
Hunt Groups	т	Trunk mode	Loop guarded	-		Link at CO: 🕅			
Call Detail Recording					Line 1	Tuning Digit: 1	<b>T</b>		
Call Recording		Dial mode	Tone	<b>*</b>					
🕀 🧰 Data Services						Dial tone: Deter	ct 💌		

Attribute	Value	Description
Legend: Loc	p = analog/digital	loop; GS = ground start; DID = DID; E&M = E&M BRI =
included un	der the main scree	n
Trunk	Loop	Define how the line is used in relation to other lines in the
mode	Unspr	system.
	Supervised	Public line: can be accessed by more than one telephone.
	*Earth calling	Private line: can be assigned only to one telephone and the prime telephone for that line. Enter the internal number of the
	*Loop guarded	telephone.
		• Pool A - O/bloc: assigns the line to one of the 15 line
		pools. If a line is assigned to a line pool, but is not assigned to
		any telephone, that line is available only for outgoing calls.
Dial mode	Loop GS	DID E&M
	Pulse	Specify whether the system uses dual tone multi-frequency
	Tone	(DTMF) or pulse signalling on the trunk.
		Tone does not appear if Signalling is set to Immediate
	Leen (anales	(11 DID & 11 E&M trunk types only).
Digit	colv)	
Digit	None. 0 - 9	
Loss	Loop (analog	Select the appropriate loss/gain and impedance settings for
Package	only)	each line.
	Short CO	
	Short PBX	
	Long PBX	
Impedance	Loop (analog	The GATM can be set to a specific impedance level.
(Ohms)	only)	
	900 ohm	
Trunk mode Dial mode Line Tuning Digit Loss Package Impedance (Ohms)	Loop Unspr Supervised *Earth calling *Loop guarded *Loop unguarded *Loop unguarded <b>Loop GS</b> Pulse Tone <b>Loop (analog</b> only) None, 0 - 9 <b>Loop (analog</b> only) Short CO Medium CO Long CO Short PBX Loop (analog only) Short PBX Loop (analog only) 600 ohm 900 ohm	<ul> <li>Define how the line is used in relation to other lines in the system.</li> <li>Public line: can be accessed by more than one telephone.</li> <li>Private line: can be assigned only to one telephone and the prime telephone for that line. Enter the internal number of the telephone.</li> <li>Pool A - O/bloc: assigns the line to one of the 15 line pools. If a line is assigned to a line pool, but is not assigned to any telephone, that line is available only for outgoing calls. PRI lines are set to pool blocb by default.</li> <li>DID E&amp;M</li> <li>Specify whether the system uses dual tone multi-frequency (DTMF) or pulse signalling on the trunk.</li> <li>Tone does not appear if Signalling is set to Immediate (T1 DID &amp;T1 E&amp;M trunk types only).</li> <li>Default = 1</li> <li>Select the appropriate loss/gain and impedance settings for each line.</li> </ul>

Attribute	Value	Description
Signalling	<b>DID</b> WinkStart Immediate DelayDial	<b>E&amp;M</b> Select the signal type for the line. The immediate setting does not appear for T1 E&M or T1 DID trunks connected to a DTM if the Dial mode is set to tone. Make sure that this matches the signal type programmed for the trunk at the other switch.
*Gain	Normal High	<b>E&amp;M</b> Set the level of gain for the channel. *E&M trunks only. T1 E&M trunks do not have this field.
Link at CO	Loop (analog only) check box	Some exchanges respond to a Link signal ( <b>FEATURE 71</b> ) by providing an alternative line for making outgoing calls. Enabling Link at CO causes the system to apply the restrictions on outgoing calls to the digits dialled after the Link signal. As well, the call on the alternative line is subject to all restrictions. Disabling Link at CO prevents a Link signal from resetting the BCM restrictions in cases where the host exchange does not provide an alternative line.
Link time	Loop (analog only) time	Link at CO is enabled. The duration of the on-hook signal sent when the user activates the Link feature.
Dial tone (detect delay)	Loop (analog only) Detect	This field tells the system to either detect a dial tone before sending the dial string, or to wait a period of time and then send the dial string.

#### Lines – Preferences Tab

The following example shows the options available for a PRI line:

Task Navigation Panel	Γ										
Configuration Administration	A	ctive Ph	ysical Lines								
Welcome	П	Line	Trunk Type	Name	C	ontrol Set	Line Type		Prime Set	Pub. Received #	Priv
🕀 🫅 System		085	PRI	Line085	221		Pool:BlocC	221	N//	A	N/A
🗄 🧰 Administrator Access		086	PRI	Line086	221		Pool:BlocC	221	N//	4	N/A
🕀 🧰 Resources		087	PRI	Line087	221		Pool:BlocC	221	N//	A	N/A
🖹 🧀 Telephony		088	PRI	Line088	221		Pool:BlocC	221	N//	A	N/A
🗄 🛅 Global Settings		089	PRI	Line089	221		Pool:BlocC	221	N//	4	N/A
🕀 🧰 Sets		090	PRI	Line090	221		Pool:BlocC	221	N//	4	N/A
E Lines		091	BRI-ST4 MBM	Line091	221		Pool:BlocB	221	N//	4	N/A
Active Physical Lines		092	BRI-ST4 MBM	Line092	221		Pool:BlocB	221	N//	A	N/A
Active VoIP Lines		093	BRI-ST4 MBM	Line093	221		Pool:BlocB	221	N//	A	N/A
Target Lines		094	BRI-ST4 MBM	Line094	221		Pool:BlocB	221	N//	4	N/A
<ul> <li>Inactive Lines</li> </ul>		095	BRI-ST4 MBM	Line095	221		Pool:BlocB	221	N//	A	N/A
All Lines		096	BRI-ST4 MBM	Line096	221		Pool:BlocB	221	N//	4	N/A
🕒 Loops		097	BRI-ST4 MBM	Line097	221		Pool:BlocB	221	N//	A.	N/A
Scheduled Services		098	BRI-ST4 MBM	Line098	221		Pool:BlocB	221	N//	A	N/A
🕀 🛅 Dialing Plan		Co	ny Paste	Renum	her						
Ring Groups											
E Call Security	١ſ										
Hospitality		Details fo	or Line: 089								
Hunt Groups											
Call Detail Recording		Prefere	ences Restrictions								
Data Services											
		Dis	tinct rings in use: None								

The following	example s	shows the	options	available	for a	<b>BRI line</b> :
---------------	-----------	-----------	---------	-----------	-------	-------------------

lask Navigation Panel							
Configuration Administration	All Lines						
Welcome	Line /	Trunk Type	Name	Control Set	Line Type	Prime Set	
🗄 🧰 System	085	PRI	Line085	221	Pool:BlocB	221	N/A
Administrator Access	086	PRI	Line086	221	Pool:BlocB	221	N/A
E Resources	087	PRI	Line087	221	Pool:BlocB	221	N/A
E-	088	PRI	Line088	221	Pool:BlocB	221	N/A
⊕ 🛅 Global Settings	089	PRI	Line089	221	Pool:BlocB	221	N/A
🕀 🗀 Sets	090	PRI	Line090	221	Pool:BlocB	221	N/A
🖃 🗀 Lines	091	BRI-ST4 MBM	Line091	221	Pool:A	221	N/A
Active Physical Lines	092	BRI-ST4 MBM	Line092	221	Public	221	N/A
Active VoIP Lines	093	BRI-ST4 MBM	Line093	221	Public	221	N/A
Target Lines	094	BRI-ST4 MBM	Line094	221	Public	221	N/A
Inactive Lines	095	BRI-ST4 MBM	Line095	221	Public	221	N/A
All Lines		unu ( Danha	1 0				
O Loops	<u> </u>	Paste	Renumb	ber			
Scheduled Services							
🕀 🛅 Dialing Plan	Details f	or Line: 091					
Ring Groups							
🕀 🛅 Call Security	Brong	references Doc		anad DNa Ì			
🕒 Hospitality	I Prope	rues freierences i kes	uncuons   Assi	gried bits [			
🕒 Hunt Groups		Auto privacy: 🔽			Answer mode:	Auto 🔻	
Call Detail Recording		Full autohold: 🕅			Annual with DICA.		
Call Recording		Aux. ringer:			Answer With DISA: [		
Data Services	Die	stinct rings in user Mone			Voice message center:		
🗄 🛅 Applications	Dis	sencerings in use: prone					

The following example shows the options available for an analogue line

Task Navigation Panel Configuration Administration	Active Pl	nysical Lines						
Welcome	Line	Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv
🗄 🛅 System	094	BRI-ST4 MBM	Line094	221	Pool:BlocB	221	N/A	N/A
E-C Administrator Access	095	BRI-ST4 MBM	Line095	221	Pool:BlocB	221	N/A	N/A
E-C Resources	096	BRI-ST4 MBM	Line096	221	Pool:BlocB	221	N/A	N/A
E Celephony	097	BRI-ST4 MBM	Line097	221	Pool:BlocB	221	N/A	N/A
🗄 🛅 Global Settings	098	BRI-ST4 MBM	Line098	221	Pool:BlocB	221	N/A	N/A
🕀 🚞 Sets	107	Loop	Line107	221	Pool:BlocB	221	N/A	N/A
🖹 🦳 Lines	108	Loop	Line108	221	Pool:BlocB	221	N/A	N/A
Active Physical Lines	109	Loop	Line109	221	Pool:BlocB	221	N/A	N/A
Active VoIP Lines	110	Loop	Line110	221	Pool:BlocB	221	N/A	N/A
Target Lines	111	Loop	Line111	221	Pool:BlocB	221	N/A	N/A
Inactive Lines	112	Loop	Line112	221	Pool:BlocB	221	N/A	N/A
All Lines	113	Loop	Line113	221	Pool:BlocB	221	N/A	N/A
Ocops	114	Loop	Line114	221	Pool:BlocB	221	N/A	N/A
Scheduled Services	115	PRI	Line115	221	Pool:BlocB	221	N/A	N/A
🕀 🛅 Dialing Plan	6	ny Pasta	Papum	her (				
Ring Groups		Pasce	Kending					
🗄 🛅 Call Security	1 the second sec							
Hospitality	Details fo	or Line: 109						
Hunt Groups								
Call Detail Recording	Prope	rties Preferences Res	trictions Assi	ianed DNs				
🗄 🛅 Data Services					_			
E ← C Applications		Auto privacy: I			Answer mode: N	1anual	*	
		Full autohold:		M	oice message center: 1			
		Aux. ringer: 🔽		v	orce message center: [1			
	Dis	stinct rings in use: None			Redirect to:		*	

Attribute	Value	Description							
Legend: Loop	Legend: Loop = analog/digital loop; GS = ground start; DID = DID; E&M = E&M BRI = BRI;								
DPNSS = DPNSS; VoIP = VoIP; TL = Target and DASS2. Note: PRI fields are all included under									
the main scre	the main screen								
Auto privacy	Loop GS DID	Define whether one BCM user can select a line in use at							
	E&M BRI VoIP	another telephone to join an existing call.							
	<check box=""></check>								
Full	Loop BRI DPNSS	Enables or disables Full autohold.							
autohold	VoIP	When enabled, if a caller selects an idle line but does not dial							
	<check box=""></check>	any digits, that line is automatically placed on hold if you then							
		select another line.							
		Full autohold is always in place for T1 E&M trunks because it							
		has no meaning for incoming-only T1 DID trunks.							
		The default setting should be changed only if Full autohold is							
		required for a specific application.							

Attribute	Value	Description
Aux. ringer	Loop GS DID E&M BRI DPNSS VoIP TL <check box=""></check>	Turn the auxiliary ringer on or off for all telephones using this line. When programmed on a line, the auxiliary ringer will ring every time a call is received. Note: When programmed only on a telephone, no ring occurs for a transferred call. An auxiliary ringer can also be programmed in Services to ring for a line placed into a scheduled Ringing service.
ANI Number	DID E&M <check box=""></check>	Define whether the telephone number of the caller will be shown for this line. For T1 E&M and T1 DID trunks connected to a DTM, this setting only appears if Signaling is set to WinkStart. The central office must deliver ANI/DNIS in DTMF mode. No additional equipment is required.
DNIS	E&M	Defines whether the digits dialed by an external caller on this
Number	<check box=""></check>	Line will be shown. For T1 E&M trunks connected to a DTM, this setting only appears if Signaling is set to WinkStart and Answer mode is set to Manual.
Distinct Rings in use	<read-only></read-only>	Indicates if a special ring has been assigned.
Answer mode	Loop GS E&M BRI DPNSS Manual Auto	Define whether a trunk is manual or automatic answer. Auto answer mode allows the trunk to be a shared resource by the system telephones. This shared resource is created through routing to target lines or using DISA. For auto answer trunks being used to allow remote call-in from system users, the trunk can be configured to answer with a straight dial tone, if DISA has not been enabled. It can also be configured to answer with a stuttered dial tone if DISA is enabled and the caller is expected to enter a CoS password. The CoS password defines which system features the caller is permitted to access. Manual answer trunks are assigned to one or more telephones. The assigned telephones exclusively own the line. Note: You require Disconnect supervision on the line if loop start trunks are to operate in auto-answer mode.
Answer with DISA	Loop GS E&M BRI <check box=""></check>	Define whether the system prompts a caller for a six-digit class of service (CoS) password. This setting appears for T1 loop start, T1 E&M lines that have auto-answer mode, and analog trunks. Set this option to No for T1 E&M lines on a private network that have auto-answer mode.
If busy	TL To Prime Busy Tone	Define whether a caller receives a busy tone or the call forwards to the prime telephone when the target line is busy. Busy tone only works for PRI trunks. Tips: The duration of an open switch interval (OSI) before BCM disconnects a call is programmed by the Disconnect timer setting.
Voice Message Center	Loop GS DID E&M BRI DPNSS VoIP TL Center 1 - Center 5	It this line connects to a remote voicemail, either through the private network or at the Central Office, indicate which Center number has been configured with the contact number. The system calls that number to check voicemail messages when a message indicator is presented to a telephone.
Redirect to	Loop GS DID E&M <dial string=""></dial>	Enter a dial string (including destination code) to redirect the line to an external telephone, such as a call attendant on another system. If you want to stop redirection, you need to delete the dial string and allow the record to update. Warning: If the dial string is set up, the line will immediately be redirected out of the system not ringing any telephone.

Attribute	Value	Description
Warning: Ena	able modules. If you d	disabled any trunk media bay modules prior to performing
programming,	enable them now to	ensure your system will function properly.

#### Target Lines (DID)

Target Lines DID (Direct Inward Dial) lines are assigned directly to telephones and support a range of Public DN's as a line assignment. Each line is mapped directly to a telephone or group. They cannot be used for outgoing calls.

The following example shows the options available for a Target Line:

File Edit View Network Session Tools Help									
🖏 Exit 🐰 Cut 🤹 Copy 🖏 Paste 🗮 Web Page 🖌 Validate Device 🧏 Disconnect 🔗 Refresh 💣 Auto-refresh									
ask Navigation Panel Configuration Administration Target Lines									
	Line	Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv	
🗄 🛅 System	361	Target line	Line361	221	Public	221	670221	221	
Administrator Access	362	Target line	Line362	221	Public	221	670222	222	
E-C Resources	363	Target line	Line363	221	Public	221	670223	223	
🖻 🧀 Telephony	364	Target line	Line364	221	Public	221	670224	224	
🕀 🛅 Global Settings	365	Target line	Line365	221	Public	221	670225	225	
🕀 🧰 Sets	366	Target line	Line366	221	Public	221	670226	226	
🛱 🗁 Lines	367	Target line	Line367	221	Public	221	670227	227	
Active Physical Lines	368	Target line	Line368	221	Public	221	670228	228	
Active VoIP Lines	369	Target line	Line369	221	Public	221	670229	229	
Target Lines	370	Target line	skilset	221	Public	221	670230	230	
Inactive Lines	371	Target line	Line371	221	Public	221	231	231	
O All Lines	372	Target line	Line372	221	Public	221	232	232	
O Loops	373	Target line	Line373	221	Public	221	233	233	
Scheduled Services	374	Target line	Line374	221	Public	221	234	234	
🕀 🛅 Dialing Plan	0	Paste	Renum	her [					
Ring Groups		Paste	Kendin						
🗼 🕀 🦳 Call Security									

#### Target Lines - Public Received Number

**Note:** When configuring Target Lines the Received numbers should be set. These are the digits sent from the exchange (Public) of from other switches (Private) if the BCM is in a network.

To enter a received number for a Target Line:

- 1. Open the **Telephony** folder then open the **Lines** folder and select **Target Lines**.
- 2. Double click on the **Public/Private Received number** field as required and enter the received number for the line.

Task Navigation Panel	_							
Configuration Administration	Target L	ines						
Welcome	Line	Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv
🕀 🦳 System	361	Target line	Line361	221	Public	221	670221	221
E Calministrator Access	362	Target line	Line362	221	Public	221	670222	222
E-C Resources	363	Target line	Line363	221	Public	221	670223	223
E Celephony	364	Target line	Line364	221	Public	221	670224	224
🕀 🛅 Global Settings	365	Target line	Line365	221	Public	221	670225	225
🗄 🛅 Sets	366	Target line	Line366	221	Public	221	670226	226
🖹 🗁 Lines	367	Target line	Line367	221	Public	221	670227	227
Active Physical Lines	368	Target line	Line368	221	Public	221	670228	228
Active VoIP Lines	369	Target line	Line369	221	Public	221	670229	229
Target Lines	370	Target line	skilset	221	Public	221	670230	230
Inactive Lines	371	Target line	Line371	221	Public	221	1	231
All Lines	372	Target line	Line372	221	Public	221	232	232
Oops	373	Target line	Line373	221	Public	221	233	233
Scheduled Services	374	Target line	Line374	221	Public	221	234	234
🕀 🛅 Dialing Plan		ny Paste	Repum	her				
Ring Groups		Pasce	Kending					
III 🗄 🖾 🗁 Call Sacurity								

3. The received number will then be displayed for the line.

Task Navigation Panel								
Configuration Administration	Target Lii	nes						
	Line	Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv
🗄 🦳 System	361	Target line	Line361	221	Public	221	670221	221
E Calministrator Access	362	Target line	Line362	221	Public	221	670222	222
🗄 🧰 Resources	363	Target line	Line363	221	Public	221	670223	223
E-C Telephony	364	Target line	Line364	221	Public	221	670224	224
🕀 🛅 Global Settings	365	Target line	Line365	221	Public	221	679225	225
🕀 🛅 Sets	366	Target line	Line366	221	Public	221	67 226	226
🖻 🗁 Lines	367	Target line	Line367	221	Public	221	67 227	227
Active Physical Lines	368	Target line	Line368	221	Public	221	67 228	228
Active VoIP Lines	369	Target line	Line369	221	Public	221	67. 229	229
Target Lines	370	Target line	skilset	221	Public	221	670230	230
Inactive Lines	371	Target line	Line371	221	Public	221	-	231
<ul> <li>All Lines</li> </ul>	372	Target line	Line372	221	Public	221	232	232
- Oops	373	Target line	Line373	221	Public	221	233	233
Scheduled Services	374	Target line	Line374	221	Public	221	234	234
🔃 🔁 Dialing Plan			الم الم					
Ring Groups	<u> </u>	Paste	Renum	ber				

## **Configuring BRI Loops**

Use the following procedure to configure the BRI loop type, i.e. S or T.

- 1. Open **Telephony**, then click on **Loops**.
- 2. Select the **Loop** to configure.
- 3. Select the **Type** from the option box provided.

Loop 🔺	Туре	Protocol	Sampling	ONN Blocking
301		Euro	N/A	Service code
302		Euro	N/A	Service code
501	Т	Euro	N/A	Service code
502	S	Euro	Adaptive	N/A
503	Т	Euro	N/A	Service code
504	S	Euro	Adaptive	N/A
	95 D-Packet S	ervice		
Settin				
Settir	Clocks	ource Secondary	external 💌	

4. Configure the loop accordingly.

# Loop Settings

Attribute	Value	Description
Loop	<x01-x04></x01-x04>	Each BRI module supports four loops (eight lines for T-loop programming). The BCM50b models support 2 on board loops.
Туре	T S	This setting defines whether the loop supports trunks (T-loop) or device connections (S-loop). Note: This variable may be different for different market profiles.
Protocol	Euro QSIG NI-2	Select the appropriate ISDN protocol. The values displayed depend on both the market profile and software keycodes. Euro - ETSI ISDN standard QSIG - also an ETSI standard. Only appears if the ETSI QSIG keycode is loaded. NI-2
Sampling (S- loops only)	Adaptive Fixed N/A	Select a sampling rate for the S-loop. Fixed: two or more S-interface devices use the loop, and the length of the loop is less than 200 m (650 ft.). Adaptive: two or more S-interface devices use the loop, and the length of the loop is greater than 200 m (650 ft.). If one device is using the loop, the length of the loop can be a maximum of 1000 m (3230 ft)
ONN blocking (T-Loops only)	Suppression bit Service code N/A	Set the Outgoing Name and Number (ONN) Blocking. When you activate ONN, a user can press <b>FEATURE</b> 819 to block the outgoing name and number on a per call basis. Programming note: Ensure that all telephones that have this feature available are assigned valid OLI numbers. Suppression bit: the system flags the call to the Central Office (CO) so that the name and number is not sent to the person you call. Service code: VSC digits are dialled out before the called number to activate ONN at the central office. These codes are supplied by your service provider for the lines.
Clock source (T Loops only)	Primary External Secondary External Internal	Primary External - uses clock from PSTN Secondary External - used if system has more than one Loop Internal - uses clock on BCM
Protocol Type (T-Loops only)	S-T user T-T user	When set to S-T user, the BRI connection to the public network is treated like a line which appears on a set and is the termination end point for the call (Key system model). When set to T-T user, the BRI connection to the public network is treated like a trunk, which allows tandems to other switches without first answering the call (PBX model).
Overlap: receiving (T-Loops only)	<check box=""></check>	Supports target lines in markets which use Overlap receiving signalling on the BRI trunks. Overlap receiving must be configured for each BRI loop.
SPID Digits (T-Loops only)	<digits></digits>	NA only. Supplied by your service provider. System running with North American country profiles support additional BRI services offered by ISDN service providers and defined by network service profile identifiers (SPID). The SPID allows you to enter a network connection that provides a path for voice or data services.
SPID: Number of B-Channels (T-Loops only)	1 2	NA BRI loops can support two B-channels. The SPID may be the same or different for the channels.
Enable D- Packet Service (T-Loops only)	<check box=""></check>	This panel enables you to configure D-Packet Service to T-loops. You must have both T-loops and S-loops configured on the same module to allow this feature. Enable this service, only if you are installing devices that require this type of service.
Associated loop (T-Loops only)	<x01-x04></x01-x04>	Shows the associated S-Loop.
TEI	<digits></digits>	These entries identify up to eight terminal identifiers for the devices assigned to the S-loops. Your BRI service provider supplies these numbers, if they are required.

## Call Routing

Call Routing decides what path an outgoing call takes using the digits that are dialed. It is sometimes called Automatic Route Selection (ARS).

When you select an internal line and dial, the system checks the numbers you enter against the routing tables. If the number you dial starts with a destination code, the system uses the line pool and dials out digits specified by the route assigned to that destination code, and then dials the rest of the number that you dialed.

Routing service replaces a number of manual tasks, including:

- entering a line pool code
- dialing an access code for a long distance carrier
- deciding which line pool to use according to the time and day

The following example shows how to build a route to a remote office site. The objective is to access any DN (extension) at the remote site, by dialing a minimum of digits.

The remote site has a 4-digit DN/DDI length, and the start DN is 2000. The main telephone number for the remote site is 0161 235 2000. Using the following example it will be possible to dial any DN at the remote site by dialing 82xxx, where xxx is any DN/DDI number.

1. From the **Configuration** tab select **Telephony**, and then **Dialing Plan**. Click on **Routing**.



2. Click on **Add**. Enter up to three digits for the routing code (001-999) and click **OK**.



3. Click on the route you have just created. Select a pool to use in **Use Pool** drop down, e.g. **BlocB**.

Dialing	Plan - I	Routing				
Routes	Desti	nation Codes	Second Dial To	ne		
Routes						
Route	eΔ	Exter	nal Number		Use Pool	DN Type
000		•		Α		N/A
001				A		Public (Unknown)
002				A	۲	Public (Unknown)
				J		
				К		
				L		
				м		
				N		
				0		
				Blo	cA	
				Blo	ocB 📃 💌	

4. Select the Service Type option and set the **Service Type** as required.

ialing Plan - Routing								
outes Destination Codes Second Dial Tone								
Routes								
External Number	Use Pool	DN Type	Service Type					
	A	N/A	N/A					
	Α	Public (Unknown)	N/A					
	BlocB	Public (Unknown)	None 🗖					
			Overlap					
			None					
	Routing	Routing Ination Codes Second Dial Tone External Number Use Pool A A BlocB	Routing hation Codes Second Dial Tone  External Number Use Pool DN Type A N/A A Public (Unknown) BlocB Public (Unknown)					

5. For this example we will have to enter part of the desired number string in the **External number field** so that it is passed on to the exchange

Dialing Plan - Routing						
Routes Destination Codes Second Dial Tone						
Routes						
Route 🛆	External Number	Use Pool	DN Type	Service Type		
000		A	N/A	N/A		
001 A Public (Unknown) N/A						
002	0161235	BlocB	Public (Unknown)	Overlap		
002		0.000				

6. Click on the **Destination Codes** tab and click on **Add**.

Dialing P	Dialing Plan - Routing						
Routes	Destination Codes	Second	Dial Tone				
Destinat	ion Codes						
	Destination Code 🔗	Δ	Norma	l Route	A	bsorbed Length	
9		0	000		All		
Add	Delete	1					
	Dente	1					

**Note**: Destination code 9 is automatically assigned against route 000. To use destination code 9 against another route e.g. 001, it may be necessary to delete destination code 9, add it again, and then assign route 001.

7. In this example we shall use destination code 82. Click OK.

A Add Destination Code						
Destination code:	82					
	OK		Cancel			

8. Select the destination code you have just created (e.g. 82) and click on a Normal Route field for the destination code you have created. Type in the route to use (e.g. 002), and state how many digits of the destination code to absorb.

Dialing P	Dialing Plan - Routing							
Routes	Routes Destination Codes Second Dial Tone							
Destinat	Destination Codes							
	Destination Code 🛛 🛆	Normal Route	Absorbed Length					
82		002	All					
			0					
		1						
			All					

9. In this example we only want to absorb 1 digit, i.e. 8 so that the 2 can be passed with the other digits in the External Number field. Therefore, entering 82013 on a handset results in 0161 235 2013 being dialed.

**Note**: The destination codes must not conflict with the following: park prefix, external code, direct dial digit, Auto DN, DISA DN, Private access code, line pool codes, telephone DN, hunt group DN, target line received digits, other routing codes

#### **Routing Definitions – Routes Tab**

Di	Dialing Plan - Routing								
F	Routes D	estination Codes 🛛 Sec	cond Dial Tone						
F	Routes								
	Route External Number Use Pool DN Type Service Type Service ID					Service ID			
	000		А	N/A	N/A	N/A			

Attribute	Value	Description
Route	<001-999>	This number is unique to each route.
External Number	<a maximum="" of<br="">24 digits&gt;</a>	Enter the external or dial-out number for the route you want the assigned telephone to use. The external number is a digit or group of digits that get inserted in front of your dialled digits. If all the required numbers are defined in the destination code/dial string, this box can be left empty. Optional dial string entries: P = 1.5 second pause (counts as one digit in the dialling string) (F78 telset) DT = wait for dial tone (counts as two digits in the dialling string) (F804 telset)
Use Pool	Pool A to Pool O or BlocA to BlocF	Select a line pool for the route.
DN Type	Public Private Local (Subscriber)	This setting tells the system what type of line protocol the route uses to process the dial string. <b>MCDN private networks:</b> Local, National and Special are special designators used to route calls from Meridian 1 systems, through BCM

Attribute	Value	Description		
	National Special (International)	systems, out to the public network. The codes for these settings a defined under Telephony > Dialling plan > General > Private Network tab. When the BCM receives outgoing calls from the Meridian 1, recognizes the call type and appends the appropriate access code the Meridian dial string. This code then matches to a route that uses the same DN typ passing the call along, either to another node (the route would have the same DN type) or to the public network (the route would have Public DN type), depending on the routing information.		
Service Type	Overlap None	Displays for PRI lines. Overlap can result send dial tome to the user.		
Service ID	<digits></digits>	If you choose a service, type in the identification number for the service.		
Note:	Outgoing call dis and the DN type number you specif sends the Private	<b>play:</b> If you have the trunks set up to send called number information, is set to anything, except Private, the system sends the Public OLI fied under line programming. If the DN type is set to Private, the system OLI number. (Line Access tab).		
Actions:	•			
Add	Under the routes ta Enter a route numb Click OK to save the	ble, click Add. er in the dialog box. e new route.		
Delete	On the routes table, select the route you want to delete. In the Routes panel, click Delete. Click OK.			
Modifying routes:	Warning: Modifyin modify the destina External Number e Changing the Use lines in the line poo On the routes table Click the field you w Press Tab on your l	g some route settings may result in dropped calls. Ensure that you tion codes Absorbed Length setting, if required, if you add or change the entry. Pool or DN Types/Service Types values will result in dropped calls if the ol do not support the DN/Service Type selected. , select the route you want to change. vant to change for that route and enter the new value. keyboard to save the change.		

## Routing Definitions – Destination Codes Tab

Dialing P	aling Plan - Routing												
Routes	Destination C	Codes Second Dia	al Tone										
Destinat	ion Codes												
Destina	ation Code	Normal Route	Absorbed Length	Wild Card: 0	1	2	3	4	5	6	7	8	9
7		000	0	Γ									
82		001	1									Γ	
9		001	All									Γ	
Add	Dele	te											

Attribute	Value	Description		
Destination	<max. 12="" digits=""></max.>	This number precedes a telephone number to tell the system where		
Code		the call needs to be routed. An A in the destination code represents		
		an, any character designation. The A code is a wildcard.		
Normal	<configured route<="" td=""><td>This is the route that the system will use when the destination code</td></configured>	This is the route that the system will use when the destination code		
Route	#>	is added to the dial string.		
Absorbed	All, None, 1-X	This indicates how much of the destination code gets removed		
Length		before the system sends the dial string to the network.		
Wild Card 0	Included,	If you enter the wild card character A at the end of a destination		
- 9	Excluded,	code, then the following applies:		
	Unavailable	Included: This number can be dialled as part of the destination		
		code.		
		Excluded: This number will not be accepted as part of a destination		
		code string because it is already used in the system.		

Attribute	Value	Description			
		Unavailable: This number is already defined in another destination			
		code and cannot be used.			
Actions					
Add	Under the Destination Codes table, click Add.				
	Click OK to save the	route settings.			
	On the Destination modify them, as rec	Codes table, select the fields beside the route you just created, and guired.			
Test the route.					
Delete On the Destination Codes table, select the destination code you want to delete.					
	In the Destination Co	odes pane, click Delete.			
	Click OK.				

#### Routing Definitions – Second Dial Tone Tab (PRI Lines)

۵	Dialing Plan - Routing						
	Routes	Destinatio	on Codes	Second Dial Tone			
	SDT Pret	iix List					
	SDT Prefixes						
	9						

This feature provides dial tone for outgoing calls on any PRI line, based on the digits dialed. Digits dialed must match an entry in the second dial tone table to enable a second dial tone. Dial tone occurs on the line until another digit is dialed, a timeout occurs, or the user hangs up.

Up to 10 separate entries can be stored in the second dial tone table. The maximum digit length for each entry is four.

Each entry must be unique and cannot conflict with:

- Internal DN's
- Hunt Group DN's
- DISA DN's
- Auto DN's
- Target Line DN's
- 1. To set a dial tone for a line/trunk (or lines/trunks) using certain dialled digits, click on the **Add** button at the bottom of the Second Dial Tone tab, and enter the digits to generate a dial for. Click **OK** to submit.

Add SDT Prefix X				
SDT: 9				
ОК	Cancel			

#### **Configuring Overflow Routing**

If all the lines used by a route specified by a destination code are busy when a call is made, you can program other routes that the system automatically moves the calls to or you can allow the call to overflow directly to the Normal route schedule (usually the most expensive route). However, this only takes effect if an active schedule is applied to the line. Overflow routing is not available in Normal mode.

You must create overflow routes for each destination code for which you want to allow overflow routing.

To set up the overflow feature:

 The first thing to do is ensure that the settings for your chosen Schedules are correct. Remember that the Normal schedule is used only if no other schedules apply. It may be necessary create and rename a schedule to something more meaningful, for example Day. To do this, in Element Manager open the **Telephony** folder and **Scheduled Services**, and double click the schedule you wish to rename (in the screenshot, schedule 4 has been called Day).



2. Now you will need to alter the times relating to that schedule. Still in **Scheduled Services**, select and enter the Schedule times for each of the corresponding days, i.e. Monday, Tuesday, and so on. If the service is to apply over a 24-hour period, then choose 0100 for both the start and the finish times.

3. Now that the schedules have been set, it's time to set the overflow routes for that schedule. Open the **Dialing Plan** folder, then select the **Destination Codes** tab and select a schedule other than Normal (in the example below, Schedule 4 has been renamed to **Day**). The list for preferred routes will also be selected.

Task Navigation Panel	Dialing Plan - Routing						
Welcome	Routes Destination Co	Routes Destination Codes Second Dial Trine					
🗄 🦳 System	Destination Codes						
🗄 🫅 Administrator Access	Destination Codes	ada Narmal Rai	to Absorbed Longth	Wild Cards 0	1 2 2 4 5 6 7		
🗄 🛅 Resources	Describation C	loop	Absorbed Length	Wild Card. U			
🚊 🧰 Telephony	02	000	All 1				
🕀 🛅 Global Settings	50	002	1				
🕀 🚞 Sets							
🖻 🦳 Lines							
Active Physical Lines							
Active VoIP Lines							
- • Target Lines							
Inactive Lines							
All Lines							
- O Loops							
Scheduled Services							
🖃 🧀 Dialing Plan	Add Delet	e					
General							
- ONS							
Public Network	Alternate Routes for D	estination Code: 82					
Private Network							
Routing	Alternate Routes						
Call Security	Schedule	First Route Absorbed Leng	h Second Route Absorbed L	ength Third Route	Absorbed Length		
Hospitality	Night	All	All	All			
Hunt Groups	Evening	All	All	All			
Call Detail Recording	Lunch	All	All	All			
E Data Services	Day	All	All	Ali			
+ Applications	FALLBCK	All	All	All			
	Sched 6	All	All	All			

4. In the **First Route** field enter the route number for the preferred route for the call. Choose the absorb length for the first route that is appropriate for the dial out numbers you entered for the route.

Alternate Routes Schedule F Night						
Schedule F				1	,	
Night	Irst Route	Absorbed Length	Second Route	Absorbed Length	Third Route	Absorbed Length
		All		All		All
Evening		All		All		All
Lunch		All		All		All
Day 1		All	2	All	3	All
Sched 5		All		All		All
Sched 6		All		All		All

- 5. Repeat for **Second Route** and **Third Route** fields; second being the preferential route to third.
- 6. Assign an overflow route, usually the most expensive route, to the same Destination Code, but for the Normal schedule.

7. Open the **Telephony folder** and select **Scheduled services**, <preferred route schedule>, choose auto for Service Setting, and tick the Overflow box.

Task Navigation Panel							
Configuration Administration	Scheduled Services	;					
Welcome     System     System     Administrator Access     Global Settings     Global Settings     Global Settings     Collar Sets     Active Physical Lines     Active VolP Lines     Oractive Lines     Antive Lines     All Lines	Schedules Schedule Night Evening Lunch Day FALLBCK Sched 6	Details for Schedule: Da Schedule Times Day Start Monday 00:00:00 Tuesday 00:00:00 Wedne00:00:00 Thursday 00:00:00 Saturday 00:00:00	vy t Time St 00:00:0 00:00:0 00:00:0 00:00:0 00:00:0	top Time 0 ▲ 0 0 0 0 0 0 0 ▼			
Clops     C	Services Service control pass Schedule Night Evening Lunch Day FALLBCK Sched 6	Word, ***** Routing Svc Off Off Off Off Off Manual Auto	Overflow	Ringing Svc Manual Manual Manual Manual Manual Manual	Trunk Answer	Extra Dial Set 221 221 221 221 221 221 221	Off Off Off Off Off Off Off
Applications		AUCO	]				

8. Set the Routing Svc field to **Auto** to ensure that this service adheres to the times set previously.

#### Configuring PRI Pool Access, Routes and Destination Codes

Access to a PRI line pool must be done by assigning a Destination Code and associated Route. An overview of this configuration would be:

- PRI lines can be assigned to pools BlocA to BlocF (VoIP trunks will use one of those Bloc's).
- You assign the PRI line pool to a route (e.g. Route 001).
- You then assign the Route to a Destination Code (e.g. 9).

Thus in this example, digit 9 can be dialled to access the PRI line pool.

All lines in a PRI module must reside on the same line pool. However, lines from more than one PRI module can belong in the same line pool.

Ensure that the required Destination Code does not conflict with any other access code etc.

1. Open the **Telephony** folder, followed by the **Lines** folder, select **Active Physical Lines**, and then **Enabled Physical Lines**.

2. Select a line on a PRI module. Open a line and from the **Line Type** options, select a PRI line pool. All other lines attached to the same PRI module will automatically be added to the same PRI pool.

Task Navigation Panel								
Configuration Administration	Active	Physical Lines						
	Lin	e Trunk Type	Name	Control Set	Line Type	Prime Set	Pub. Received #	Priv
🕀 🧰 System	080	PRI	Line080	221	Pool:BlocB	221	N/A	N/A
E Calministrator Access	081	PRI	Line081	221	Pool:BlocB	221	N/A	N/A
E-C Resources	082	PRI	Line082	221	Pool:BlocB	221	N/A	N/A
E Delephony	083	PRI	Line083	221	Pool:BlocB	221	N/A	N/A
🕀 🛅 Global Settings	084	PRI	Line084	221	Pool:BlocB	221	N/A	N/A
🗄 🛅 Sets	085	PRI	Line085	221	Pool:BlocB	221	N/A	N/A
E Cines	086	PRI	Line086	221	Pool:BlocB	221	N/A	N/A
Active Physical Lines	087	PRI	Line087	221	Pool:BlocB	221	N/A	N/A
Active VoIP Lines	088	PRI	Line088	221	Pool:BlocB	221	N/A	N/A
Target Lines	089	PRI	Line089	221	Pool:BlocB	221	N/A	N/A
Inactive Lines	090	PRI	Line090	221	Pool:BlocB	221	N/A	N/A
All Lines	091	BRI-ST4 MBM	Line091	221	Pool:BlocB	221	N/A	N/A
Loops	092	BRI-ST4 MBM	Line092	221	Pool:BlocB	221	N/A	N/A
<ul> <li>Scheduled Services</li> </ul>	093	BRI-ST4 MBM	Line093	221	Pool:BlocB	221	N/A	N/A
🖃 🗀 Dialing Plan		Copy Paste	Renumb	per				
General			_					
ONs								
Public Network	Detail	s for Line: 088						
Private Network								
Line Pools	Pre	ferences Restrictions						

- 3. Next, the PRI pool should be assigned to a route. Open the **Dialling Plan** folder, click on **Routing** and select the **Routes** tab.
- 4. Select Add and enter a route number. Click OK.



5. Select the route you have just created, and ensure that it uses the required line pool. In this example BlocB has been selected.

Task Navigation Panel	Dialing P	an - Routing					
Configuration Administration	Change	an roung					
Welcome	Routes	Destination Codes	Second Dial Tone				
🗄 🛅 System	Routes						
🗄 🧰 Administrator Access	Rou	te Exte	rnal Number	Use Pool	DN Type	Service Type	Service ID
E Cesources	000			A	N/A	N/A	N/A
Telephony	001			A	Public (Unknown)	N/A	N/A
E Global Settings	002			j 🔺	Public (Unknown)	N/A	N/A
🕀 🛅 Sets	500			к —	Public (Unknown)	N/A	N/A
	999			L	Public (Unknown)	None	N/A
Active Physical Lines				м			
Active volP Lines				N			
Target Lines				0			
				BlocA			
All Lines				BlocB 💌			
Coops							
Dialing Plan							
General							
DNs							
Public Network							
Private Network							
Line Pools							
C Douting							

6. Set the **Service Type** to **Overlap**. This will give dial tone when accessing the route (applicable in some regions).

Task Navigation Panel Configuration Administration	Dialing Plan -	Routing				
Welcome	Routes Desti	ination Codes Second Dial Tone				
🗄 🔁 System	Routes					
🗄 🛅 Administrator Access	Route	External Number	Use Pool	DN Type	Service Type	Service ID
🕀 💼 Resources	000		A	N/A	N/A	N/A
E Telephony	001		BlocB	Public (Unknown)	None	N/A
🕀 🛅 Global Settings	002		BlocA	Public (Unknown)	Overlap	N/A
E Sets	500		в	Public (Unknown)	None	N/A
🖻 🗁 Lines	999		BlocB	Public (Unknown)	None	N/A
Active Physical Lines						
Active VoIP Lines						
Target Lines						

7. Select the **Destination Code** tab. Select **Add** and enter the required Destination Code. Click **OK**.

**Note**: Route 000 which cannot be changed from using Pool A. Create another route e.g. 001, and apply this to Destination Code 9.

Dialing Plan - Routing Routes Destination Codes Becond Dial Tone Destination Codes					
Destination Code 🔺	Normal Route	Absorbed			
82	002	All			
A Add Destination code	ation Code X				
Add Delete					

8. Select the **Destination Codes** tab and set the required **Normal Route** (in this example route 1) and **Absorb** length to all.



**Note:** For an extension to use the PRI route, the PRI pool (e.g. Blocb) must be assigned under Line Pool Access for that extension.

## **Dialling Plan – General Settings**

The settings defined under the Dialing Plans General link determine various common settings that affect, or that are affected by, number planning.

Task Navigation Panel	Dialing Plan Consul			
Configuration Administration	Dialing Plan - General			
Welcome	Global Settings		Change DN	
E-C Administrator Access	DN length (intercom)	: 3 🔻	Change DN	
È î Resources È î Telephony	Dialing timeout	:: 4 💌		
E Global Settings	Access Codes			
	Park prefix:	1 💌		
Loops     Scheduled Services	External code:	None 💌		
🖃 - 🗁 Dialing Plan	Direct Dial			
<ul> <li>DNs</li> </ul>	Direct Dial digit: 0	<b>*</b>		
Public Network     Private Network	Direct Dial Sets	_		
Ine Pools	Set 🛆 Type	Internal DN	External No.	Facility
Routing	1 Internal	DN:221	N/A	N/A
Ring Groups	2 None	N/A	N/A	N/A
🕀 🛅 Call Security	3 None	N/A	N/A	N/A
Hospitality	4 None	N/A	N/A	N/A
Hunt Groups	5 None	N/A	N/A	N/A
🛛 🔄 🗠 🙆 Call Detail Recording				

Attribute	Value	Description
Global Setti	ngs	
		Global Settings
		DN length (intercom) 3 -
		Dialing timeout 4
DN length	(2 to 7)	This is the length of the locally-dialled telephones. This field is set when
(intercom)	Undefined	the system is first configured.

Attribute	Value	Description
		Warning: If this system is part of a private network, ensure that this value
		is compatible with the network requirements.
		This value is mirrored in the Private Received Number Length field for
		target lines.
		in order to work properly
Dialing	3. 4. 5. 8.	This is the maximum time allowed between user dialpad entries, before the
timeout	10, 15	system considers the dialstring complete. Default = 4.
Access Cod	es	
		-Access Codes
		External code None 💌
Park prefix	None	The Park prefix is the first digit of the call park retrieval code that a user
	<one-digit< td=""><td>enters to retrieve a parked call. If the Park prefix is set to None, calls</td></one-digit<>	enters to retrieve a parked call. If the Park prefix is set to None, calls
	number>	cannot be parked.
		SWCA note: If this field is set to None, the system-wide call appearance
External	None	The External code setting allows you to assign the external line access
code	<one-diait< td=""><td>code for 7100 and 7000 digital phones and analog telephones attached to</td></one-diait<>	code for 7100 and 7000 digital phones and analog telephones attached to
	number>	ATA 2s or to analog modules to access external lines. Note: Model 7000
		phones are supported in Europe only. When the caller picks up the
		handset, the system tone sounds. The caller then enters this number to
		access an external line. <b>Note:</b> This number is overridden by line pool or
Change DN		starting with the same digit(s).
Change Div		
		Change DN
		Change DN
Change DN	<button></button>	Click to re-identify a DN.
		Note: This method is faster than re-identifying the DN's under
Direct Diel		Configuration > Telephony > Dialling Plan > DN's.
Direct Dial		
		Direct Dial
		Direct Dial digit 🖉 🗸
		,
Direct Dial	None	The Direct dial digit setting allows you to specify a single system-wide digit
digit	<one-digit< td=""><td>to call a direct dial telephone.</td></one-digit<>	to call a direct dial telephone.
	number>	
Define Direc	t Dial Sets	
	Direct D	ial Sets
	Set	Type Internal DN External No. Facility
	1	Internal 221 N/A N/A
	2	None N/A N/A N/A
	3	None N/A N/A N/A
	4	None N/A N/A N/A
	5	None N/A N/A N/A
Set	<1-5>	This tags the telephone to the system.
Туре	Internal	This is the type of number for the direct-dial set.
	External	
Internal DN		The DN number of the telephone to be designated as the direct dial act
		(Internal sets).
External	<external< td=""><td>The actual phone number, including destination codes, of the direct dial</td></external<>	The actual phone number, including destination codes, of the direct dial

Attribute	Value	Description
No.	dial string>	set (External sets).
Facility	Line	The facility to be used to route the call to a direct dial set that you define
	Pool (A-O)	with an external number.
	Use prime	Note: If you choose Use prime line, ensure that prime line is not assigned
	line	to the intercom buttons for your telephones. When prime line is assigned
	Use routing	as an intercom button, it chooses the first available line pool assigned to
	table	the telephone to make a call. If this line pool does not have the correct
		lines for routing the call, the direct dial call will fail.

## **The System DN Headings**

The following describes the headings that can be viewed from the **Sets** Folder. To view the contents of this folder select The **Configuration** tab, open the **Telephony** folder followed by the **Sets** folder.



**Templates:** Templates provide a quick and effective method of configuring large numbers of extensions. After reviewing the **Programming System DN's** section, refer to the **Telephony Templates Guide** for information on using the Templates.

Active Sets: This list displays only the DN's for digital (M-series and T-series telephones) and IP telephones that are actually connected to the system and are activated. Use this list when you want to change a configuration, or to remove a telephone.

Active Application DN's: This list segregates the list of DN's that are used for running applications, such as Voice Mail, Interactive Voice Response (IVR), Contact Center, and Find Me Follow Me. These DN's are assigned within the applications that they apply to. You do not need to do anything to any of these DN's, other than to note they are not available for application to your telephones.

**Warning:** Changing the settings on these DN's could cause malfunctions in the applications to which they apply.
**Inactive DN's:** lists all available DN's within the BCM Numbering range, any active DN will not appear in this list.

**All DN's**: This list displays all possible DN's, regardless of whether a station module is configured to activate them or not. This list begins with the Start DN that was defined when the system was initialized.

## **Programming System DN's**

**Note:** If programming a large number of DN's with the same settings, you may find it more convenient to use Telephony Templates. Refer to the **Telephony Templates** guide for instructions.

1. To program connected extensions/DN's, open the **Telephony** folder and select **Sets**, **Active Sets**.

Task Navigation Panel									
Configuration Administration	Active Sets								
Welcome	Line Access	Capabilities and Preferences	Restriction	is					
🕀 🧰 System	DN A	Model	Name	Port	Pub. OL	I Priv. OLI	Fwd No Answer	Fwd Delay	F
Administrator Access	221	T7316E	221	1001	221	221		N/A	
H- Resources	222	T7208/M7208	222	1002	222	222		N/A	
Clabel Cettinger	230	T7316/M7310	Dave	1010	230	230		N/A	
Giobal Securigs	253	1140E/2004/2007/2050/221x	253	0165	253	253		N/A	
Tomplator	254	1210	254	0173	254	254		N/A	
Active Sets	255	1110/2001/2033	255	0166	255	255		N/A	
Active Application	256	1140E/2004/2007/2050/221x	256	0174	256	256		N/A	
Inactive DNs	257	1140E/2004/2007/2050/221x	257	0167	257	257		N/A	
All DNs	435	Analog	435	5201	435	435		N/A	
+ Collines	436	Analog	436	5202	436	436		N/A	
Loops	437	Analog	437	5203	437	437		N/A	
Scheduled Services	438	Analog	438	5204	438	438		N/A	
🕀 🛅 Dialing Plan	Conv	Parte	Repumba	- 1					
Ring Groups	Сору	Pasce	Kenumbe						
🕀 🛅 Call Security	<b>A</b>								
- O Hospitality	Details for D	N: 221							
Hunt Groups									
Call Detail Recording	Line Assign	nment Line Pool Access Answ	er DNs Í I	MeetMe Co	nferencina Ì				
🕀 🧰 Data Services	Assigned L	ines							
Applications	Line A	Appearance Type		Appea	rances	Caller ID Set	Vmsa Set	Priv. Received #	
	361	Appr&Ring			1	V	221		67022
	362	Annr&Ring			1		□ 222		67022

### Active Sets - Line Access Tab

tive Sets							
ine Access	Capabilities and Preferences   F	Restrictions	5				
DN 🛆	Model	Name	Port	Pub. OLI	Priv. OLI	Fwd No Answer	Fwd Delay
221	T7316E	221	1001	221	221		N/A
222	T7208/M7208	222	1002	222	222		N/A
230	T7316/M7310	Dave	1010	230	230		N/A
253	1140E/2004/2007/2050/221x	253	0165	253	253		N/A
254	1210	254	0173	254	254		N/A
255	1110/2001/2033	255	0166	255	255		N/A
256	1140E/2004/2007/2050/221x	256	0174	256	256		N/A
257	1140E/2004/2007/2050/221x	257	0167	257	257		N/A
435	Analog	435	5201	435	435		N/A
436	Analog	436	5202	436	436		N/A
437	Analog	437	5203	437	437		N/A
438	Analog	438	5204	438	438		N/A

The Line Access tab displays the	e below columns.
----------------------------------	------------------

Attribute	Value	Description
DN	Numeric	The active extensions on the system. The length of which is derived from the DN length configured on the BCM
Model	Avaya digital set ISDN and DECT	The model or component assigned against the DN.
Name	up to seven alphanumeric characters	Use this field to provide a more specific description of the telephone, such as the last name of the user or the location, or the actual extension number if it is different than the DN number.
Port	<port number=""></port>	This number indicates the port number that this device is connected to, if the device is active, or which port the device would connect to, if the device is currently inactive. This field is not available or not shown for Companion and ISDN and DECT device records.
Private OLI number	up to 24 digits (10 digits, North America	Define the originating line identification number (OLI) which appears on the telephone (across a private network) being called from this telephone
Public OLI number	<up 24="" digits<br="" to="">(10 digits, North America)&gt;</up>	Define the originating line identification number (OLI) which appears on the telephone (across a public network) being called from this telephone
Fwd no answer to Forward Delay Fwd Busy Fwd All	See Call Forwar	ds Settings section of this guide

## **Call Forward Settings**

Configure Call Forward options required for the extension.

ne Access	Capabilities and Preferences	Restrictions							
DN 🛆	Model	Name	Port	Pub. OLI	Priv. OLI	Fwd No Answer	Fwd Delay	Fwd Busy	Fwd All
221	T7316E	221	1001	221	221		N/A		
222	T7208/M7208	222	1002	222	222	257	4	257	
230	T7316/M7310	Dave	1010	230	230		N/A		
253	1140E/2004/2007/2050/221x	253	0165	253	253		N/A		
254	1210	254	0173	254	254		N/A		
255	1110/2001/2033	255	0166	255	255		N/A		
256	1140E/2004/2007/2050/221x	256	0174	256	256		N/A		
257	1140E/2004/2007/2050/221x	257	0167	257	257		N/A		
435	Analog	435	5201	435	435		N/A		
436	Analog	436	5202	436	436		N/A		
437	Analog	437	5203	437	437		N/A		
438	Analog	438	5204	438	438		N/A		

**Note**: When setting Call Forwards for Contact Center extensions, always ensure that that the **Fwd Delay** is set higher than the **Transfer Callback Timeout** settings in **Feature Settings.** If the extension is used for Contact Center purposes do not set the **Fwd Busy** setting.

**Note**: A common destination for Call Forwards is the Voicemail DN, i.e. send to mailbox. This can be found by entering **F985** on a handset with a display.

Attribute	Values	Description
Fwd no answer to	Up to 24	Enter the number to which you want to redirect
	digits	Unanswered incoming calls
Forward Delay	2,3,4,6,10	Define the number of rings before the system forwards
		an unanswered call
Fwd Busy	Up to 24	Redirect Incoming Calls when the telephone is busy
	digits	with another call
Fwd All	Any number	Same as Feature 4 used at a phone. When active all
		calls to this telephone are forwarded to this telephone. If
		you are forwarding all calls to a remote location, ensure
		that you include the required destination/access codes.
		A user can press Feature #4 to cancel this feature.

#### Active Sets, Line Access - Line Assignment Tab

Allows you to assign lines that will be available for the extension. Both incoming DDI, Physical and VoIP lines.

Active S	ets									
Line Acc	ess Capabilities and Preferences	Restrictions	;]							
DN	△ Model	Name	Port	Pub. O	LI Priv. OLI	Fwd No Answer	Fwd Delay	Fwd Busy	Fwd All	
221	T7316E	221	1001	221	221		N/A			
222	T7208/M7208	222	1002	222	222	257	4	257		
230	T7316/M7310	Dave	1010	230	230		N/A			
253	1140E/2004/2007/2050/221	x 253	0165	253	253		N/A			
254	1210	254	0173	254	254		N/A			
255	1110/2001/2033	255	0166	255	255		N/A			
256	1140E/2004/2007/2050/221	× 256	0174	256	256		N/A			
257	1140E/2004/2007/2050/221	× 257	0167	257	257		N/A			
435	Analog	435	5201	435	435		N/A			
436	Analog	436	5202	436	436		N/A			
437	Analog	437	5203	437	437		N/A			
438	Analog	438	5204	438	438		N/A			
0	Copy Paste	Renumber	[							
	,,									
Detector	( DN- 000									
Decails r	FOR DIN: 230									
Line				e - 1						
Line	Assignment Line Pool Access   Ans	wer DNs   M	leetime Cor	hrerencing						
Assign							<u> </u>			
Line	Appearance Type		Appear	rances	Caller ID Set	Vms	j Set	Priv. F	Received #	

## To Assign a Line to a DN:

- 1. Select the **Capabilities** tab and open the **Sets** folder and click **Active sets**.
- 2. Highlight the DN to which you wish to assign a line.

Ine Acce	ess   Capabilities and Preference	es   Restrictio	ns	1		1		(		
DN	A Model	Name	e Port	Pub. OL	I Priv. OLI	Fwd No Answer	Fwd Delay	Fwd Busy	Fwd All	
221	T7316E	221	1001	221	221		N/A			
22	T7208/M7208	222	1002	222	222	257	4	257		
230	17316/M7310	Dave	1010	230	230		N/A			
53	1140E/2004/2007/2050/2	221x 253	0165	253	253		N/A			
54	1210	254	01/3	254	254		N/A			
55	1110/2001/2033	255	0155	255	255		N/A			
50	<ul> <li>1140E/2004/2007/2050/2</li> <li>1140E/2004/2007/2050/2</li> </ul>	221x 250	0167	250	200					
27	Appleg	425	5201	425	425					
20	Analog	426	5201	435	435					
30	Analog	437	5202	437	437					
38	Analog	438	5203	438	438		N/A			
•	Copy Paste	Renumb	er							
etails f	or DN: 230									
Line A	Assignment Line Pool Access	Answer DNs	MeetMe Co	nferencing						
Assign	ned Lines									_
			-			11	Cal	D	A second s	

3. Under the **Line Assignments** tab, click the **Add** button. Enter the line number within the **Add Line Assignment** window and click **OK**.



	Model	Name	Port	Pub. OLI	Priv. OLI	Fwd No An	swer Fwd Delay
221	T7316E	221	1001	221	221		N/A
222	T7208/M7208	222	1002	222	222	257	4
230	T7316/M7310	Dave	1010	230	230		N/A
253	1140E/2004/2007/2050/221x	253	0165	253	253		N/A
254	1210	254	0173	254	254		N/A
255	1110/2001/2033	255	0166	255	255		N/A
256	1140E/2004/2007/2050/221x	256	0174	256	256		N/A
257	1140E/2004/2007/2050/221x	257	0167	257	257		N/A
435	Analog	435	5201	435	435		N/A
436	Analog	436	5202	436	436		N/A
437	Analog	437	5203	437	437		N/A
438	Analog	438	5204	438	438		N/A
Details fo Line As	r DN: 230 signment   Line Pool Access   Answ	ver DNs∫M	leetMe Cor	nferencing			
- Hoonging			Appear	rances	Caller ID Set	Vmsg Set	Priv. Received #
Line	Appearance Type						

4. The line will be assigned and appear within the **Assigned Lines Table**.

#### Line Assignment Settings

Attribute	Values	Description
Appearance type	Ring only, Appear & Ring, Appear only	Select how a call on this line shows on the telephone. If you choose <b>Appear&amp;Ring</b> or <b>Appear only</b> , you can have as many simultaneous DID calls as there are target line key appearances. If you choose <b>Ring only</b> , you can have as many simultaneous DID calls as you have intercom keys.
Appearances (for target lines, only)	<digit></digit>	Selects the number of appearances of a target line.
Caller ID Set	Y or N Checkbox	Choosing Y enables the telephone to display call information on the telephone display, when it is available for a call. This setting also is used in conjunction with other settings to create the alpha tagging feature. Refer to Using alpha tagging for name display. Choosing N disables the telephone from receiving call display information. Choose this setting if the telephone does not have a display, or if you do not want call information displayed to the user. Disabling this function can reduce system resource requirements. This prompt only appears for target lines, and any analog lines that provide CLID through an ASM8+ (North America only). Limitation: Only 30 telephones can have this field enabled for any given line.
Vmsg set	Y or N Checkbox	Select whether an indicator shows on the telephone for voice message waiting to an external voice message system. The line must appear on

Attribute	Values	Description
		receiving telephone.
Private Received #	Digits associated	Specify the digits the system will use to identify a call from the private system to this target line.
(Target lines and	with a specific	A received number cannot be the same as, or be the start digits, of a line pool access code, a routing code, the DISA DN or the Auto DN.
DASS2 lines only)	target line	If you are configuring auto-answer BRI trunks to map to target lines, the received number should be the same as the Network DN supplied by your service provider. The call will be directed to the prime telephone for the incoming line if the Network DN is not used.
Pub Rx Number	Digits associated	Specify the digits the system will use to identify a call from the public system to this target line.
(Target lines and	with a specific	A received number cannot be the same as, or be the start digits, of a line pool access code, a routing code, the DISA DN or the Auto DN.
DASS2 lines only	target line	If you are configuring auto-answer BRI trunks to map to target lines, the received number should be the same as the Network DN supplied by your service provider. The call will be directed to the prime telephone for the incoming line if the Network DN is not used

#### Active Sets, Line Access - Line Pool Access Tab

The Line **Pool Access** tab allows you to define the line pools that the telephone will be able to access. These shared pools of lines allow many users to use fewer lines for connections where dedicated lines are not practical or not desirable. If all lines in the pool are taken, the user receives a busy signal.

## To assign a Line Pool to an Extension:

- 1. Click the telephone DN to which you want to assign a line pool.
- 2. Click on the Line Pool Access tab.
- 3. Click the **Add** button.

4. Enter a line pool identifier. <Digital - Pool A to O> or VOIP & PRI <Block -A to Block-F>.

ctive Sets		6		1		
	Model	Name	Port	Pub. OLI	Priv, OLI	Fwd
223	T7100/M7100	223	0403	223	223	
224	T7316E	224	0404	224	224	
233	Analog	233	0413	233	233	
234	Analog	234	0414	234	234	
Details for DN	: 223					
Line Assign Line Pools Line P	vool	A Add Li	er DNs   Me	etMe Confe	rencing	
Add	Delete	Line pool:	BlocB	OK	Cancel	]

- 5. Click the **OK** button.
- 6. The line pool identifier appears under the Line Pool Access tab.

#### Active Sets, Line Access - Answer DNs Tab

You can program a telephone to provide automatic call alerting and call answering for other telephones in the system. The DNs of the other telephones are referred to as Answer DNs or answer keys. You can assign a maximum number of 8 Answer DNs to a telephone.

#### **Assigning Answer DNs**

- 1. Click the telephone DN to which you want to assign an answer DN.
- 2. Click on the **Answer DNs** Tab.
- 3. Click the **Add** button located above the navigation tree.
- 4. In the **Answer DN** field, type in the DN for the telephone you want to be able to answer.

5. Click the **OK** button

Active Sets					
Line Access	anabilities and Preferences	Pestrictions	1		
DN A	Model	Name	Port	Pub. OLI	Priv. OLI
223	T7100/M7100	223	0403	223	223
224	T7316E	224	0404	224	224
233	Analog	233	0413	233	233
234	Analog	234	0414	234	234
Сору	Paste	Renumber.			
Details for DN					
Details for Div	: 224				
Line Assist		er DNe		6	
Line Assign	ment   Line Pool Access Answ		eetme Con	Terencing	
Answer Dive	, 	. (			
	Appearance Type	2			
			Add An	swer DN	×
		A	Answer DN:	230	
	,	Ľ		,	1
				OK	Cancel
		_			
	I and a				
Add	Delete				

- 6. From the **Appearance Type** drop down box select one of the following:
  - Appr & Ring: The call number or name will display and the telephone will ring.
  - Appr only: The call number or name will display.

Details for I	DN: 22	24		
Line Assi	ignmer	nt Line Pool Access	Answer DNs	MeetMe Conferencing
Answer D	ONs			
DN	Δ	Appearance	е Туре	
230		Appr&Ring		
		Appr only		
		Appr&Ring		
Add.		Delete		

#### Auto Dial Function (Direct Station Set Key)

Answer DN's can also act as an internal autodial link to the assigned telephone. The answer DN must be idle for this feature to work. That is, there must be no active indicator showing beside the button. You can program both an Answer DN and an autodial key for the same DN on the same telephone.

#### MeetMe Conferencing

With the MeetMe Conferencing facility, callers can establish a teleconference by calling in to a specified number at an agreed-upon time. For this facility to function one caller acts as the chairperson and has additional powers that include starting, stopping, securing, and controlling the conference.

Any caller can participate in a conference, but a BCM user must have chairperson privileges to chair/control a conference.

MeetMe Conferencing has a special directory number (DN) used to access the Meet Me Conferencing feature. Although you can access a conference in several ways, the system administrator should notify every conferencing user of the MeetMe Conferencing DN.

Note: For further information see separate MeetMe Conferencing Guide.

DN		201.05	Model		Name	Port	001	Pub.	
221	14	/316E	7000		221	1001	221		
222		7206/M	7208		ZZZ	1002	222		
230	1.	/310/M	/310	221.0	Dave	0165	230		
200	11	140E/20	04/2007/2050/	221X	200	0172	200		
204	1.	210	11/2022		204	01/5	204		
200	1	1405/200	04/2022	221.2	200	0174	200		
200	1	140E/20	04/2007/2050/	221X	200	0167	200		
4257	1		04/2007/2050/	221X	207 42E	E201	4257		
125	A	nalog			426	5201	426		
427	A	nalog			427	5202	427		
438	A	nalog			438	5203	438		
(	Сору		Paste	F	Renumbe	er			
Details for DN: 221									

Teal Naviation Decal						
	Active Sets					
Configuration Administration						
• • • • Welcome	Line Access	Capabilities and Preferences	Restrictions	5		
- 🛅 System		Model	Name	Prime Line	Intercom Keys	Cor
Contractor Access	221	T7316E	221	TIC	2	221
- Resources	221	T7208/M7208	221	I/C	2	221
Contraction Telephony	222	T7216/M7210	Dava	1/C	2	221
🗄 🛅 Global Settings	250	11405/2004/2007/2050/221	Dave	1/C	2	221
📮 🗁 Sets	255	1140E/2004/2007/2050/221X	253	1/C	2	221
Templates	254	1210	254	1/C	2	221
Active Sets	255	1110/2001/2033	255	1/C	N/A	221
Active Application DN	256	1140E/2004/2007/2050/221x	256	1/C	2	221
Inactive DNs	257	1140E/2004/2007/2050/221x	257	1/C	2	221
All DNs	435	Analog	435	I/C	N/A	221
🗄 🛅 Lines	436	Analog	436	I/C	N/A	221
Loops	437	Analog	437	I/C	N/A	221
Scheduled Services	438	Analog	438	I/C	N/A	221
🗄 🗁 Dialing Plan	Conv.	Dasha				
Ring Groups	Copy	Paste				
🗄 🦳 Call Security	<b>T</b>					
Hospitality	Details for D	N: 221				
Hunt Groups						
Call Detail Recording	Capabiliti		cool Butto	p Programming 1	Tabla Ì Rutton Brog	w promin
Data Services	Capabilitie	d Dial Numbers		in Frogramming i		n anninni
Applications	User Spee	d Diai Numbers				_
		ipeed Dial Number 🛆	Ext	ternal Number	Facility	
	71	9	012446855	62	Use routing	t
	Add	. Delete				

#### Active Sets - Capabilities & Preferences Tab

This heading allows settings such as the Prime Line, number of Intercom Keys and Control Sets to be set for extensions on the BCM. The settings are accessed from a number of different tabs as outlined below.

A	ctive Set	s						
		Copobilition and	Proforonoco	Restrictions				
	DN	Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID
	222	M7310/T7316	222	I/C	2	221	Name	
	122	A solog	100	WC .	617.0	224	hlomo	

Attribute	Values	Description
DN	Numeric	The active extensions on the system. The length of which is derived from the DN length configured on the BCM
Model	Avaya digital set ISDN and DECT	The model or component assigned against the DN.
Prime line	None, Pool (A to O), I/C (intercom), Line: <line number&gt;</line 	Choose the first line that the telephone selects when a call is made. PRI pools are not valid selections for a Prime line. When you assign a line pool as a prime line, the system searches automatically for an idle line in the pool.
Intercom (I/C) keys	0 to 8	Assign the number of intercom buttons to a telephone. Intercom buttons provide a telephone with access to internal and external lines, and line pools.

Attribute	Values	Description
Control Set	DN – any telephone DN NONE- DN:221 Start DN*	A control Telephone can turn Scheduled Services, such as Restriction Services on and off for the telephones that are assigned to it. You can assign several Control sets for the system but you can only assign one Control Telephone per DN. * If you change the Start DN the number reflects this change.
First display	Name Number Line	Determine what call display information appears first. This feature depends on what services you subscribe to. Call Display information may contain the name of the caller, the number of the caller, the name of the line in your Business Communications Manager system that the call is on, or all. For each telephone, you can determine what information displays first.
Auto called ID	<checkbox></checkbox>	Select whether you want to see the extension number and name of the telephone you call on your display. The Auto called ID set for target lines is the same telephone that has appearance on that target line.

# Active Sets, Capabilities & Preferences - Capabilities Tab

Task Navigation Panel							
Configuration Administration	Active Sets						
• Welcome	Line Access	Capabilities and Preferences	estrictions				
🛅 System	DN A	Model	Name	Prime Line	Intercom Kevs	Control Set	First Display A
Administrator Access	221	T7316F	221	T/C	2	221	Name
Resources	222	T7208/M7208	222	I/C	2	221	Name
	230	T7316/M7310	Dave	I/C	2	221	Name
	253	1140E/2004/2007/2050/221x	253	I/C	2	221	Name
E Sets	254	1210	254	I/C	2	221	Name
Templates	255	1110/2001/2033	255	I/C	N/A	221	Name
Active Sets	256	1140E/2004/2007/2050/221x	256	I/C	2	221	Name
Active Application DN	257	1140E/2004/2007/2050/221x	257	I/C	2	221	Name
	435	Analog	435	I/C	N/A	221	Name
	436	Analog	436	I/C	N/A	221	Name
	437	Analog	437	I/C	N/A	221	Name
Scheduled Services	438	Analog	438	I/C	N/A	221	Name
Bing Groups	Copy	Paste					
F Call Security	<del> </del>						
Hospitality	Details for D	N: 221					
Hunt Groups							
Call Detail Recording	Capabilitie	S SWCA Call Group I Preferen	rec Ì Butto	p Programming T	able   Button Brog	ramming Litear	Speed Dial
1	Capabilitie	SWCA Call Gloup   Preference		n Frogramming i		ramining   Oser	Speed Dial
Applications		Handsfree: Auto	-	HF a	answerback: 🔽		Allow redirect:
		Dialaura averaura i	=	D	ND on Busy: 🔲		Redirect ring: 🔽
		Pickup group:	_		Paging: 🔽	Receiv	/e short tones: 🔲
		Page zone: 1		Auto hold for inc	oming page: 🗖	Silent moni	tor supervisor: 🔽
		Direct dial: 1			Priority call:		
			_		Auto hold:		
	Intrusi	ion protection level: None	<b>*</b>		riace risian pr		

Attribute	Values	Description
DND on busy	<checkbox></checkbox>	Defines whether an incoming call rings if you are already
		on another call.
Handsfree	Auto	None: The handsfree feature is not available to this
	Standard	telephone.
	None	<b>Standard</b> : The handsfree feature is activated by pressing
		a button on the telephone.
		Auto: The handsfree feature is activated when the
		telephone receives a call.
HF answerback	<checkbox></checkbox>	Defines whether you can automatically answer a voice
		call without lifting the receiver or pressing the
		Handsfree/Mute button.

Attribute	Values	Description
Pickup group	None 1 to 9	Assigns this telephone to a pickup group.
Page zone	None 1 to 6	Assigns this telephone to a page zone.
Paging	<checkbox></checkbox>	Defines whether you can make paging announcements from this telephone.
Direct dial	Set 1 to Set 5 None	Defines whether you can call the Direct-dial telephone from this telephone using the Direct-dial digit.
Priority call	<checkbox></checkbox>	Defines whether this telephone can interrupt calls or override Do Not Disturb at another telephone.
Auto hold	<checkbox></checkbox>	This setting determines if the system will automatically put an active call on hold if you answer or initiate another call. If you choose No, the system will drop the active call if you answer or initiate another call, unless you press the Release button.
		The user can change the Auto Hold setting using Feature
		73 on the telephone.
Allow redirect	<checkbox></checkbox>	Defines whether the line to this telephone can be redirected. This must be set to Y to allow call forwarding outside the network (external call forward).
Redirect ring	<checkbox></checkbox>	Defines whether the telephone rings briefly when a call on one of its lines is redirected by the Line Redirection feature (Feature 84.).
Receive short tones	<checkbox></checkbox>	Analog equipment that is connected to the system with an analog terminal adapter (external or internal), responds only to tone dialling signals. If you have analogue equipment connected to an extension, set Receive short tones for that extension to Yes. Otherwise, leave Receive short tones set to No.
Silent Monitor Supervisor	<checkbox></checkbox>	On two-line display telephones only, you can choose whether the telephone can be used to allow the Silent Monitor feature (*550).
Auto Hold for Incoming Page	<checkbox></checkbox>	<ul> <li>N = if the telephone is active when a page comes in, the page will be put on queue until the user hangs up</li> <li>Y = if the telephone is active when a page comes in, the call is automatically put on hold and the page proceeds.</li> <li>Note: Business Series Terminals (BST) telephones:</li> <li>Condition: This setting is Y, active call on mute when the page comes in.</li> <li>Results after page: the call comes off hold, but is no longer muted.</li> </ul>
Intrusion Protection level	None Low Med High	If the break-in feature is allowed on any private network MCDN lines (PRI SL-1) assigned to the telephone, you must define the level of intrusion for each telephone. This determines if the user can use the feature, and to what degree. None: feature is turned off, user cannot break in on any calls Low: user can only break into calls on other telephones with low level protection Med: user can break into calls on other telephones with low and medium-level protection High: user can break into calls on all other telephones with this feature Default: None

# Active Sets, Capabilities & Preferences – SWCA Call Group Tab

Generally System-wide Call Appearance (SWCA) assignments are meant to be assigned to buttons with indicators. With this screen you can assign the selected telephone to a SWCA assignment Call Group. You can enable or disable Call 1 to Call 16 assignments for each set. The 16 SWCA feature codes can be configured on the sets through administration. (Please refer to the **SWCA** section of this guide)

Task Navig	ation Panel								
Configuratio	Administration	Active Sets							
- Welcome	,	Line Access	Capabilities and Preferences	Restrictions	1				
System			Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID
Administ	trator Access	221	T7316E	221	TIC	2	221	Name	Addo Calica ID
Resource	es	222	T7208/M7208	222	I/C	2	221	Name	
Telepho	ny	230	T7316/M7310	Dave	1/C	2	221	Name	i i i
🔲 🕀 🚞 Glob	oal Settings	253	1140E/2004/2007/2050/221x	253	1/C	2	221	Name	i i i
Sets		254	1210	254	I/C	2	221	Name	i i i
	emplates	255	1110/2001/2033	255	I/C	N/A	221	Name	i i
	Active Sets	256	1140E/2004/2007/2050/221x	256	I/C	2	221	Name	Ξ I
	Active Application DN	257	1140E/2004/2007/2050/221x	257	I/C	2	221	Name	Ξ.
	nactive Divs	435	Analog	435	I/C	N/A	221	Name	
		436	Analog	436	I/C	N/A	221	Name	
	s	437	Analog	437	I/C	N/A	221	Name	
Scha	dulad Sarvicas	438	Analog	438	I/C	N/A	221	Name	
	ing Plan	<b> </b>							_
Pina	Groups	Сору	Paste						
	Security								
	itality	Details for D	NF 221						
Hunt	Groups	Deconstor							
	Detail Recording	Canabilitie	SWCA Call Group Destance	and putter	- Due	able I putter puter		Council Dial (	
Data Se	rvices	Capabilitie	S SWCK Call Gloup Preferen	ices   butto	n Programming 1	able   button Prog	ramming   User	Speed Dial	
Applicat	ions	SWCA C	all Group						
	I	Call 1:	🗌 Call 5: 🔲 🛛 Call 9: 🔲 C	all 13: 🕅					
	I	Call 2:	🗌 Call 6: 🔲 Call 10: 🔲 C	all 14: 🕅					
	I	Call 3:	Call 7: 🗖 Call 11: 🗖 C	all 15: 🕅					
		Call 4:	Call 8: C Call 12: C C	all 16: 🕅					
	1								

### Active Sets, Capabilities & Preferences - Preferences Tab

The Preferences headings allow you to program the same settings that users can perform at their telephones and the settings for configuring a telephone as a hotline. The set-based options are only available to digital phones and IP telephones.

Active Sets							
Line Access	Capabilities and Preferences	Restrictions	5				
DN 🛆	Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID
223	T7100/M7100	223	I/C	N/A	221	Name	
224	T7316E	224	I/C	2	221	Name	
233	Analog	233	I/C	N/A	221	Name	
234	Analog	234	I/C	N/A	221	Name	
Сору	Paste						
Capabilitie D Distinc	s SWCA Call Group Prefer Language: UKEnglish ialing options: Standard dial Contrast: 4 Ring type: 1 trings in use: None Aux. ringer:	ences Butto	n Programming T	able Button Prog Call log optio Log spa Available log spa Reset Call I Hotline	ramming   User ns: No one ans ce: ce: Log Password	Speed Dial )	
В	usiness name: Business name Long name: 224	e 1	<b>_</b>	Hotline	type: None		
Ser	nd long name: 🗖						

Attribute	Values	Description
Language	Languages displayed are based on telephone capabilities and system software	Choose the language for the telephone display prompts.
Dialling options	Standard dial pre-dial automatic dial	Select how you want the telephone to handle information you dial into it. <b>Standard:</b> Pick up the receiver and dial. <b>Pre-dial:</b> Dial the numbers, then pick up the receiver to allow the telephone to dial the number. <b>Automatic dial:</b> Use for devices like fax machines where you want the number to dial out without external cues.
Contrast	1, 2, 3,4, 59	Adjust the contrast of the display.
Ring type	1, 2, 3, 4	Select a ring pattern for the set. Default is 1.
Warning: If you assign a has already be If you assign a already been a to pattern 1.	a distinctive ring patte en assigned to a line, a distinctive ring patt ssigned to a telephor	ern to a telephone, and that distinctive ring pattern all lines with that ring pattern will be reset to None. tern to a line, and that distinctive ring pattern has he, all telephones with that ring pattern will be reset

Distinct rings	read only	This	read-only	field	l indicate	es tl	he dist	inct I	ring pa	atterns
in use		are	currently	in	effect,	if	any,	on	any	lines,
		telep	phones, or	Hun	t groups	on	the sy	stem	I.	

Attribute	Values	Description
Aux. ringer	<checkbox></checkbox>	Determine whether an auxiliary ringer (if installed) rings for incoming calls at this telephone.
		Digital Doorphone note: Before you install the
		hardware, ensure this is setting is not selected in the
		DN record you want to use for the doorphone.
Business	None	For outgoing CLID purposes. Determine which of the
Name	Business Name 1 -	Business Names configured in Telephony, Global
	5	Settings, Feature Settings this set will send. If set to
		None, no Business Name will be sent.
		configurations will support this feature.
Long Name	0 – 15 characters	For outgoing CLID purposes. The Long Name can be
		sent with the Business Name (if configured) over the
		network.
		Note: For the Long Name to be sent, the Send Long
		Name checkbox should be ticked.
		Note: The maximum number of characters that can
		be sent is 15. This is the total of Business Name +
Cond Long	ala alah asa	Long Name.
Send Long	<cneckbox></cneckbox>	Lick this box to send the configured Long Name with
		Calest how you want the telephone to headle logging
Call log	Log all calls,	select now you want the telephone to handle logging
options	No one answered	Log all calls: All calls are noted in the call log
	Unanswered by me	No auto-logging: No calls are automatically logged
		No one answered: Unanswered calls are not logged.
		Unanswered by me: Unanswered calls are not
		logged.
Available log	Read Only	This setting indicates the total amount of space
space		available for call logging on the system.
Reset Call Log	 button>	This button resets the password for the call log if
Password		users forget their password.

#### Active Sets, Capabilities & Preferences, Preferences Tab – Hotline Settings

If the telephone is to be used for **Hotline** purposes, i.e. picking up the receiver automatically dials a number, configure the **Hotline** section.

Active Sets							
Line Access	Capabilities and Preferences	Restrictions	;				
DN 🛆	Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID
223	T7100/M7100	223	I/C	N/A	221	Name	
224	T7316E	224	I/C	2	221	Name	
233	Analog	233	I/C	N/A	221	Name	
234	Analog	234	I/C	N/A	221	Name	
Copy Details for D	Paste						
Capabilitie	SWCA Call Group Preferer	nces Butto	n Programming T	able Button Prog Call log optio	ramming User	Speed Dial	
D	ialing options: Standard dial		<u>+</u>	Log spa	ce:	0	
	Contrast: 4		<b>*</b>	Available log spa	ce:	1000	
	Ring type: 1		<b>T</b>	Reset Call I	Log Password	1	
Disting	t rings in use: None				-	_	
	Aux. ringer:			Hotline		_	
В	usiness name: Business name 1	1	<u> </u>	Hotline	type: None	<u> </u>	
	Long name: 224						
Ser	nd long name: 🕅						

Attribute	Values	Description						
None		The telephone does not automatically dial any						
		number.						
Internal	Internal #	Define the internal telephone you want to access.						
	Direct dial set	Direct dial set: Will automatically dial a telephone on						
	DN:*	the system defined as a direct dial telephone						
		<b>DN:</b> the DN of the telephone that gets automatically						
		dialled when the user picks up the handset						
External	External #	Enter the complete number for the external telephone						
	Facility Value:	you want to access. Enter the line you want the call to						
	Use line nnn	use. (This cannot be a target line.)						
	Use prime line Pool code	<b>Use line nnn</b> : Refer to line assignment for this telephone.						
	Use routing table	<b>Use prime line</b> : Refer to the General record for this						
	<b>J</b>	telephone.						
		<b>Pool code</b> : Refer to the line pool assignment for this						
		telephone.						
		Use routing table: Refer to the routing tables. The						
		destination code for that table must be part of the						
		External #.						

# Active Sets, Capabilities& Preferences – Button Programming Table Tab

The Button Programming Table tab panels allow you to program the buttons on a telephone with internal and external autodials and with programmed feature keys.

You also can use these panels to remove programming from a button, making it blank.

**Note:** Only the number of available buttons for the set type will be displayed for configuration.

1. Select the button number, and click on **Modify**. Configure the button as required.

DN 🛆		Model		Name	Prime Line	Interco	om Keys	Control Se	t First Disp
1	T7316/M	7310		221	I/C	2		221	Name
2	1140E/2	004/2007/205	0/221x	222	I/C	2		221	Name
4	1140E/2	004/2007/205	0/221x	254	I/C	2		221	Name
Сору	Pas	te							
tails for DN:	221								
tails for DN:	221								
tails for DN:	221								
capabilities	221	Call Group P	reference	es Button	n Programming T	able But	ton Progra	amming Us	er Speed Dial
capabilities Buttons	: 221   SWCA	Call Group   P	reference	es Button	n Programming T	able But	ton Progra	amming   Us	er Speed Dial
Capabilities Buttons Button Num	:221 ∫SWCA	Call Group P Function	reference	es Button	n Programming T Value	able But	ton Progra	amming Us ts O	er Speed Dial
Capabilities Buttons Button Num 01	:221  SWCA nber ∧	Call Group P Function Line	reference Line:36	es Button	n Programming T Value	able But	ton Progra	amming Us ts Oj N/A	er Speed Dial
Capabilities Buttons Button Num 01 02	:221 SWCA nber △	Call Group P Function Line Feature	reference Line:36 Feature	es Button	Value	able But	ton Progra	amming Us ts Oj N/A N/A	er Speed Dial
Capabilities Buttons Button Num 01 02 03	SWCA	Call Group P Function Line Feature Feature	Line:36 Feature Feature	es Button	Value (F70) vard (F4)	able But	ton Progra Digit N/A N/A N/A	amming Use ts Oj N/A N/A N/A	er Speed Dial ption
Capabilities Buttons Button Num 01 02 03 04	SWCA	Call Group P Function Line Feature Feature Feature Feature	Line:36 Feature Feature Feature	es Button	Value (F70) ard (F4) :kup (F75)	able But	ton Progra Digit N/A N/A N/A N/A	amming Us ts O N/A N/A N/A N/A N/A	er Speed Dial
Capabilities Buttons Button Num 01 02 03 04 05	: 221   SWCA nber 🔺	Call Group P Function Line Feature Feature Feature Feature	Line:36 Feature Feature Feature Feature Feature	es Button	Value (F70) (ard (F4) :kup (F75)	able But	ton Progra N/A N/A N/A N/A N/A N/A	amming Us N/A N/A N/A N/A N/A N/A	er Speed Dial
Capabilities Buttons Button Num 01 02 03 04 05 06	: 221	Call Group P Function Line Feature Feature Feature Feature Feature Feature	Line:36 Feature Feature Feature Feature Feature Feature	es Button	Value Value (F70) ard (F4) skup (F75) ce/Transfer (F3	able But	ton Progra N/A N/A N/A N/A N/A N/A N/A	amming Us ts Oj N/A N/A N/A N/A N/A N/A	er Speed Dial

Attribute	Values	Description
Button Number	1-24 (phone	
	model dependant)	
Function	Internal Autodial	The feature assigned against a button. Use the
	External Autodial	Modify button to change an assigned feature.
	Feature	
	Blank	
Value	Internal Autodial #	The specific feature assigned such as a feature
	Assigned Feature	code or Internal Autodial.
	Blank	
Digits	Dialed Digits	For External Autodials. Enter the complete dial
		sequence for the external call. This will depend on
		what you chose for the route in the Value field.
Name	Autodial Name	For External Autodials. This is the name associated
		with the external number.
Option		Useful for specifying options such as Page Zones.

ve Sets								
Access	Capabilities and Preferences	Restrictions	1					
DN 🛆	Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID	
	T7316E	221	I/C	2	221	Name		
	T7208/M7208	222	I/C	2	221	Name		
	1/316/M/310 1140F/2004/2007/2050/221	253		2	221	Name		
	1210	254	I/C	2	221	Name		
Copy	Paste	Click on th	e button to be	programmed				
		CHER OF L		programmed	Mod	ify		×
					Func	tion: Feature		-
apabilitie	s   SWCA Call Group   Prefere	nces   Butto	n Programming T	Table Button Prog	ramming V	alue: None		
odel T7	316E 🔽 🥄		_			Eeature:D	isplay voice mail DN	(E985)
	Select th	e phone m	odel			Feature:T	ransfer to mailbox (f	F986)
						Feature:V	oice mail interrupt (F	-987)
						Feature:V	oice mail direct (F98	8)
2						Eeature:R	ecord call (F989) 2 Services List (F*90	10)
					02-Blank	06 Feature: IF	Hot Desking (F*99	9)
					03-Black	None		<b>~</b>
				, (				
(	-			$\supset$ (	04-Blank	08-Blank		
/								
1 ==								
				09-L	ine	17-CC		
				10-L	ine	- 18-CC		
		a	<b>1</b> (340) (30	11-0		0 19-00		
-	E	Ľ			······U	U 19-00		
-		G		12-0	Gro	- 20-Cor	<b></b>	
		Ľ		12-0		0 21-1-20	F	
-		G	and gan (one	13-4			<b></b>	

# Active Sets – Button Programming Tab

By selecting a specific phone model the user can then click on a button and be presented with a window that will allow the button to be modified with a different feature.

### Active Sets, Capabilities & Preferences - User Speed Dial Tab

Speed dial numbers allow users to dial out a number with fewer button presses than dialling out the entire dial string.

Active Sets						
Line Access Capabilities and Preferences Restrictions						
Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID		
I/C	2	221	Name			
				_		
s Button Progra	mming Table Button	Programming	Jser Speed Dial			
1	2					
Facility Use routi	A Add User Speed Dial Nur	peed Dial mber (71-94)	72			
	rictions   Prime Line I/C :s   Button Program   Facility  Use routi	rictions Prime Line Intercom Keys UC 2  S Button Programming Table Button Facility Use routi Speed Dial Nu	rictions Prime Line Intercom Keys Control Set I/C 2 221 Prime Line Intercom Keys Control Set Prime Line Int	rictions Prime Line Intercom Keys Control Set First Display I/C 2 221 Name I/C 2 221 Name I/C 3 221 Name I/C 4 Add User Speed Dial Facility Use routi Speed Dial Number (71-94) 72 OK Cancel		

Settings	Value	Description
Speed Dial	<71-94>	This is the number the user dials to dial out the
Number		number entered in the External # field
External Number	<external phone<br="">number&gt;</external>	Enter the number the telephone will automatically dial when the user speed dial code is entered. Remember to include the access codes for the route you choose. i.e. 9
Facility	Use prime line Use routing table	Select the route you want the dialled number to take out of your system. Note: If you choose prime line, a prime line must be assigned to the telephone where the code is entered.

#### Active Sets – Restrictions Tab

Restriction Filters should be added to schedule settings. Restriction Filters should be configured before changing the default values, and require careful planning and application. See the **Programming Restrictions** section of this guide for further information.

•	ctivo Sot	e						<u></u>
~								
	Line Acce	ss Capabilities and	Preferences	Restrictions				
Г		1	-	1		(		·
	DN	Model	Name	Set Lock	Allow Last Number	Allow Saved Number	Allow Link	
	222	M7310/T7316	222	None				
	· ·							
		1 1						
	Co	py Paste						
	· •							

Setting	Values	Description
DN	Read Only	
Model	Read Only	
Name	Read Only	
Set lock	None	Choose the option that sets the amount of customizing the user can do with this telephone. <b>None</b> allows access to all features.
	Partial	<ul> <li>Partial prevents:</li> <li>programming autodial buttons</li> <li>programming user speed dial numbers</li> <li>programming feature buttons</li> <li>moving line buttons</li> <li>changing the display language</li> <li>changing dialling modes (Automatic, Pre-, and Standard</li> <li>using Voice Call Deny</li> </ul>
	<b>F</b>	saving a number with Saved Number Redial
	Full	<ul> <li>Full restricts all the Partial settings, plus:</li> <li>changing Background Music</li> <li>changing Privacy</li> <li>changing Do Not Disturb</li> <li>using Ring Again</li> <li>using Call Forward all calls</li> <li>using Send Message</li> <li>using Trunk Answer</li> <li>activating Services</li> </ul>
Allow last number	<checkbox></checkbox>	Allows or disallows access to the Last Number Redial feature.
Allow saved number	<checkbox></checkbox>	Allows or disallows access to the Saved Number Redial feature.
Allow link	<checkbox></checkbox>	Allows or disallows access to the Link feature, which is a host signalling option.

# **Programming Global Settings**

Global Settings specify configuration that relates to the system as a whole.

The Global settings can be accessed from **Configuration** tab and opening the Telephony folder followed by the **Global Services** tab.

Task Navigati	on Panel	
Configuration	Administration	
: Welcome	2	
🗄 🛅 System		
🗄 🗁 🛅 Adminis	trator Access	
🗄 🛅 Resourd	tes	
🔁 🧰 Telepho	ny	
Glob	oal Settings	
🕒 F	Feature Settings	
	Advanced Feature Settings	
IP Terminal Features		
DMC Feature List		
System Speed Dial		
	CAP Assignment	

## Feature Settings

Select the Feature Settings heading and configure the required options.

Feature Settings         Business Names         1: [MainCompany]         4: [	nt 1 3: Tenant 2	
Background music: Page tone: Conference tone: Message reply enhancement: Force auto/spd dial over ic/conf:	On hold: Tones Held line reminder: Immediate Delayed ring transfer: After 4 rings Park mode: Lowest Maximum CLI per line:	Answer keys:     Basic       Receiver volume:     Use sys volume       Directed pickup:     Image: Comparison of the system
Timers Camp timeout (sec.): 45 Park timeout (sec.): 45 Page timeout (sec.): 180	Transfer callback timeout: After 4 rings 💌 Network callback: 30 💌	Host delay (ms.): 1000 💌

Attribute	Value	Description		
Business Name 1 – 5	Maximum of 15 alphanumeric characters	This is the name sent via outgoing CLID over supporting networks. Up to 5 Business Names can be entered, to help identify the originating caller. Each extension can select which Business Name to use, under the Capabilities and Preferences, Preferences tab. A Business Name can also be assigned to a Hunt Group.		
Background music	<checkbox></checkbox>	Allows you to listen to music through your telephone speaker after pressing F86 on your set. A music source must be connected to Business Communications Manager.		
On hold	Tones Music Silence	Allows you to choose what a caller hears on an external line when the line is put on hold. <b>Tones</b> provide a periodic tone. <b>Music</b> provides any signal from a source such as a radio connected to Business Communications Manager. <b>Silence</b> provides no audio feedback.		
Receiver volume	Use sys volume Use set volume	Allows you to specify if the volume level of a receiver or headset returns to the system default level when a call ends or is put on hold, or if it remains at the volume level set at the individual telephone.		
Park mode	Lowest Cycle	The Call park feature allows you to suspend a call. It also allows someone to retrieve the call by entering a retrieval code at any telephone in the system. Park mode is the setting that determines how the system assigns a retrieval code to parked calls. When set to <b>Lowest</b> , the system chooses the lowest code that is available when the call is parked. When set to <b>Cycle</b> , the system will choose the codes in a sequence, from lowest to highest, until all the codes have been used.		
Delayed Ring Transfer	1, 2, 3, 4, 6, 10, or Off.	Defines whether unanswered external calls are automatically forwarded to a prime telephone after a certain period of time. You must assign a prime telephone for this feature to operate. Assign a prime telephone to one or more external lines in <b>Line Data</b> programming.		

Attribute	Value	Description
Held line reminder	Off After 30, 60, 90, 120, 150 or 180 Seconds Immediate	Reminds you that a call at your telephone is still on hold. You periodically hear two tones from your telephone until you return to the call on hold. Choose the number of seconds before the Held line reminder feature begins at a telephone that has an external call on hold.
Directed pickup	<checkbox></checkbox>	Allows you to answer any calls by specifying the ringing telephone internal number. Directed pickup is useful when not all the telephones have the same lines, but you want to allow co-workers to answer a call on any external line from their telephones. <b>Note:</b> Do not confuse Directed pickup with the Group pickup feature. Group pickup, allow you to answer a call at any telephone within a specific group without specifying the internal number of the ringing telephone.
Page tone	<checkbox></checkbox>	Defines whether a tone sounds before a page begins.
Alarm set	None DN: <number></number>	Allows you to assign a telephone on which alarm messages appear when a problem has been detected in the system. Alarms are recorded in the Windows NT event log.
Set relocation	<checkbox></checkbox>	Allows you to move any telephone to a new location without losing the directory number, autodial settings, personal speed dial codes, and any programming for that telephone. Activate <b>Set relocation</b> after you do the set installation and programming, for more flexibility in testing equipment. If you deactivate <b>Set relocation</b> while moving a set, the internal number and programming data remain with the physical port on Business Communications Manager. When you connect the set somewhere else, it does not receive the original programming. Change this attribute to N once the set has been moved.
Message reply enhancement	<checkbox></checkbox>	The <b>Message reply enhancement</b> feature allows you to automatically deactivate the message-waiting indicator on analogue telephones connected to an Analogue Station Media Bay Module (ASM), if the reply call from the analogue telephone to the direct-dial telephone is answered. It does not matter where the call is answered from by the user. This feature also functions if the user invokes the Call pickup feature to answer the reply call from the analogue set. It does not however, work with the Retrieve parked call feature.
Ans key	Basic, Enhanced, or Extended	There are up to eight answer keys that you can assign to a set. The <b>Answer key</b> setting in <b>Feature settings</b> window allows you to determine what types of calls alert at the telephone. Answer key changes do not apply to portables.
Force auto/spd dial over ic/conf	<checkbox></checkbox>	This feature allows you to determine if Auto and Speed dial codes can be transmitted during an active call. This feature works during either a one-to-one call, or during a conference call. If set to <b>N</b> : When the user presses a key for a speed dial, the current call will automatically be put on Hold, and the second call will be dialed. If set to Y: When the user presses an auto dial or speed dial key, the system dials out the number while

Attribute	Value	Description
		maintaining the current call.
Maximum CLI per Line	30 (read-only)	This setting indicates the maximum number of telephones that will display CLID simultaneously for an incoming call

#### **Timer Settings**

The Timers section allows configuration of settings such as Camp Timeout, Park Timeout, Page Timeout and Transfer Callback Timeout.

~	<u>~~</u> ~	Force auto/spd dial ov	er ic/conf		Maximum CLI per line	30	Alarm set	230
	-Timers-	C kink ( )						
		Park timeout (sec.) Page timeout (sec.)	45 <b>•</b> 45 <b>•</b> 180 <b>•</b>	]	Transfer callback timeout Network callback	After 4 rings	Host delay (ms.)	0 🔻

**Note:** The recommended setting for Transfer Callback if using Contact Center is 4.

Attribute	Values	Description			
Camp timeout	30, 45, 60, 90,120, 150 or 180 seconds	Allows you to assign the number of seconds before an unanswered camped call returns to the telephone that camped the call.			
Park timeout	30, 45, 60, 90, 120, 150, 180, 300 or 600 seconds	Allows you to assign the number of seconds before parked call on an external line returns to t originating telephone.			
Page timeout	15, 30, 60, 120, 180, 300, 600 2700 seconds	Defines the period of time after which the paging feature automatically disconnects.			
Transfer call- back timeout	Off,3, 4, 5, 6 or 12	Allows you to specify the number of rings before a call-back occurs on a transferred call. You can estimate the delay in seconds if you multiply the number of rings by six. Note: This setting can affect transferred calls from voice mail (including the Contact Center) and should be configured accordingly.			
Host delay	1000,1500, 2000, 2500, 3000, 3500, 4000, 4500 milliseconds	Assigns the delay between the moment an outgoing line is selected to make an external call (for example, by lifting the receiver off the telephone) and the moment that Business Communications Manager sends dialled digits or codes on the line. This ensures that a dial tone is present before the dialling sequence is sent. Minimizing this delay provides faster access to the requested features.			

Note: The Transfer Call Back option can be turned off.

## Advanced Feature Settings

	0
ask Navigation Panel	
Configuration Administration	Advanced Feature Settings
Welcome	System Wide Call Appearances Control
🗄 🛅 System	
🗄 🛅 Administrator Access	Auto-associate SWCA key to call: Manually - While parked V Invoke SWCA parking by Hold: IV
🗄 🛅 Resources	Include I/C calls when auto-associating:
🖻 🧀 Telephony	
🖻 🧰 Global Settings	ONN Blocking
Feature Settings	Tone:
Advanced Feature Settings	
IP Terminal Features	Pulse:
DMC Feature List	BRT:
System Speed Dial	
CAP Assignment	Silent Monitor
🖃 🗀 Sets	
Templates	Monitoring mode: Non silent
<ul> <li>Active Sets</li> </ul>	Number of SM sets: 5
Active Application DNs	
Inactive DNs	SM password:
All DNs	-Call Los Space
the Lines	
Loops	Reset Logs
Scheduled Services	

Attribute	Values	Description
System Wide Call Appearance Control		Refer to the <b>SWCA</b> section of this guide.
ONN Blocking		
Tone	<digits></digits>	Specify a code (Service Provider specified) that allows users to block outgoing name and number display over an analog tone trunk.
Pulse	<digits></digits>	Specify a code (Service Provider specified) that allows users to block outgoing name and number display over an analog pulse trunk.
BRI	<digits></digits>	Specify a code (Service Provider specified) that allows users to block outgoing name and number display over a BRI trunk.
Silent Monitor		Refer to the <b>Hunt Group Monitoring</b> section of this guide.
Call Log Space		Click the button to reset how many log spaces each phone has. Enter amount of space each telephone that supports logs has available (maximum 1000 for BCM50, 3000 for BCM450).

#### SWCA

This feature will allow calls to be parked under a programmed button and picked up from other handsets that also have programmed SWCA buttons. There are 16 SWCA codes that can be assigned to buttons when the telephone is being programmed.

The codes **FEATURE \*521 to FEATURE \*536** can be programmed onto buttons that have a display icon to illustrate up to 16 parked calls. You also can assign SWCA codes to a Key Interface Module (KIM).

You can also assign non-appearing SWCA assignments. This particularly applies to the 7000 and 7100 digital phones, but can also apply to any telephone where you do not want to have SWCA codes assigned to buttons with indicators.

**FEATURE \*520** searches for the next available SWCA code. **FEATURE \*537** retrieves the oldest SWCA call. **FEATURE \*538** retrieves the most recent SWCA call.

**Note**: Your telephone must have a free Intercom key to pick up SWCA calls.

#### **Programming SWCA Controls**

1. On the navigation tree, open the **Telephony** folder, followed by **Dialling Plan** and click on **General**.

Task Navigation Panel         Configuration       Administration         ●       System         ●       System         ●       Administrator Access         ●       Telephony         ●       Global Settings         ●       Global Settings         ●       Advanced Feature Settings         ●       DMC Feature List         ●       DMC Feature List	Dialing Plan - General Global Settings DN length (intercom Dialing timeou - Access Codes Park prefix External code	): 3 v t: 4 v : 1 v : None v	Change DN		
CAP Assignment      Gets      Details      Details	Direct Dial digit: 0	-			
- Oops	Set ( Turne	Totoroal DN	External No.	Encility	
Scheduled Services	Sec A Type	DNL221	External No.	Facility	
🖻 🗀 Dialing Plan	1 Internal	DN(221	N/A	NIA	
General	2 None	NIA	NIA	NIA	
DNs	4 None	NIA	N/A	NIA	
Public Network	5 None	NIA	N/A	NIA	
Private Network	- None	110	19/15	110	

- 2. Ensure that Park prefix has a number beside it. If the Park Prefix is set to None, SWCA keys will not work.
- 3. Then select **Telephony, Global Settings,** and **Advanced Feature settings.** The **SWCA Controls** will be displayed.
- 4. Set the controls as required.

Task Navigation Panel Configuration Administration	Advanced Feature Settings
Welcome	System Wide Call Appearances Control
	Auto-associate SWCA key to call: Manually - while parked 🗾 Invoke SWCA parking by Hold: 🔽
🕀 💼 Resources	Include I/C calls when auto-associating: Manually - while parked Include I/C calls when invoked by Hold:
🖻 🗁 Telephony	Manually - life of call
📄 🗁 Global Settings	ONN Blocking Automatically - life of call
Feature Settings	Tone:
Advanced Feature Settings	
IP Terminal Features	Pulse:
DMC Feature List	PDT.

#### **SWCA Control Settings**

Field	Description
Associate SWCA	Manually - while parked:
key to call	The user either presses a free SWCA key on the telephone, or dials the feature
	code for a free key. Once the call is retrieved, it is unassigned from the SWCA
	key.
	Manually - life of call:
	The user either presses a free SWCA key on the telephone, or dials the feature
	code for a free key. When the call is retrieved, it remains assigned to the SWCA
	key. The key is freed only after the call is terminated.

Field	Description
	Automatically - life of call: When a call is answered, it will automatically be assigned to a free SWCA key, starting with the lowest available number. When the call is retrieved, it remains assigned to the SWCA key. The key is freed when the call is terminated.
	Decide if you want intercom calls to automatically park on SWCA keys If you choose Y (yes) Associate SWCA key to call must be set to Automatically - Life of call for this feature to work.
	When the user makes a call using the intercom button, the call automatically associates with a free SWCA key, and remains assigned for the duration of the call
	If you choose N (no) the user must manually assign an intercom call to a SWCA key.
	The call will otherwise behave by the rules of the choice made for Associate SWCA key to call.
Invoke SWCA parking by Hold Y or N	Choose whether calls that are put on hold will automatically assign to a SWCA key. Yes:
	When the user presses Hold, the system attempts to re-park the call on the current SWCA key assigned to the call, or on a free SWCA key programmed on the telephone.
	If no SWCA is currently associated with the call (Automatically - life of call is not turned on), and there is no free SWCA key to assign to the call, the call remains on Hold on the line it came in on. Note: In this case, the call is not available to other telephones in the group until it can be assigned to a SWCA key or unless they have the same line appearance as the held call.
	There is no interaction with SWCA keys. The call remains on Hold on the line it came in on and is not available to other telephones in the SWCA group unless the user manually assigns the call to a SWCA key or unless those telephones have the same line appearance as the held call.
Include I/C calls	Choose whether intercom calls put on Hold will automatically assign to a SWCA
Hold Y or N	Key. Yes:
	Invoke SWCA parking by Hold must be set to Yes to activate this feature. When the user makes an intercom call, and puts it on Hold, the call works the same ways as described in Invoke SWCA parking by Hold.
	Intercom calls will be held on the local line, regardless of what you chose in Invoke SWCA parking by Hold.
	If the intercom call was assigned to a SWCA key automatically, you can press the SWCA key to re-park the call and make it available to other telephones in the group. If you manually assign the intercom call to a SWCA key, the call is automatically parked, and it becomes available to the rest of the group.

Choose one of the following configurations for the SWCA controls for your system:

**Configuration one**: If you want all incoming calls to auto-associate to SWCA assignments on the receiving telephone:

- 1. Associate SWCA key to call: select Automatically life of call.
- 2. Include I/C calls when auto associating: select Y (yes)
- 3. Invoke SWCA parking by Hold: select Y (yes)

4. Include I/C calls when invoking by Hold: select Y (yes)

**Configuration Two**: If you want incoming calls to auto-associate to SWCA assignments on the receiving telephone, but you want calls on hold to remain on hold at the receiving telephone, unless the user presses a SWCA button or enters a SWCA code:

- 1. Associate SWCA key to call: select Automatically life of call
- 2. Include I/C calls when auto-associating: select Y (yes)
- 3. Invoke SWCA parking by Hold: select N (no)
- 4. Include I/C calls when invoking by Hold: not applicable in this configuration

**Configuration three**: If you want external incoming calls to auto-associate to SWCA assignments on the receiving telephone, but you want all intercom calls to require manual parking:

- 1. Associate SWCA key to call: select Automatically life of call
- 2. Include I/C calls when auto associating: select N (no)
- 3. Invoke SWCA parking by Hold: select Y (yes)
- 4. Include I/C calls when invoking by Hold: select N (no)

**Configuration four**: If you want all calls to require the user to press a SWCA button or enter a SWCA code:

- 1. Associate SWCA key to call: select either **Manually while parked** or **Manually life of call**.
- 2. Include I/C calls when auto associating: not applicable in this configuration.
- 3. Invoke SWCA parking by Hold: select N (No).
- 4. Include I/C calls when invoking by Hold: not applicable in this configuration.
- 5. Configure the SWCA keys to indicator memory buttons on the telephones.

**Note**: The SWCA support codes (FEATURE \*520, FEATURE \*537 and FEATURE \*538) only search for SWCA assignments that are assigned to the telephone where the feature is invoked.

These codes are required for users who do not have buttons with indicators.

**FEATURE \*520** searches for the next available SWCA code.

**FEATURE \*537** retrieves the oldest SWCA call. **FEATURE \*538** retrieves the most recent SWCA call.

## **Programming System Speed Dials**

Speed Dials allow quick and easy access to regularly dialled numbers. You can assign destination numbers to three digit speed dial codes, which can be activated on a handset by entering **Feature 0**.

BCM450 allows 999 System Speed Dials, whereas BCM50 allows 255.

1. To program System Speed Dials use the following path: Select the **Configuration** tab and then the **Telephony** folder, **Global Settings** folder, **System Speed Dials**.

Task Navigation Panel									
Configuration Administration	System Speed Dial								
Welcome     System     Administrator Access	CLID match length: 8 System Speed Dials	Ŧ							
+ Resources	Speed Dial Number	External Number	Facility	Display	Name	Bypass Restrictions			
E	001	901612352013	Use routing table	Name	ManchesterOff				
🗄 🗁 Global Settings	002		N/A	N/A	N/A				
Feature Settings	003		N/A	N/A	N/A				
Advanced Feature Sett	004		N/A	N/A	N/A				
····· IP Terminal Features	005		N/A	N/A	N/A				
DMC Feature List	006		N/A	N/A	N/A				
System Speed Dial	007		N/A	N/A	N/A				
CAP Assignment	008		N/A	N/A	N/A				
🕀 🦳 Sets	009		N/A	N/A	N/A				
🕀 🛅 Lines	010		N/A	N/A	N/A	E I			
Ocops									

2. For a selected **Speed Dial Number** (e.g. 002), enter the destination number in the **External Number** field. You may need to precede the destination number with a routing digit if using a Routing table or Prime Line as the **Facility**.

S	System Speed Dial								
¢	CLID match length:	Y							
	System Speed Dials								
	Speed Dial Number External Number Facility								
	Spece Dia Namber	External Number	Facility						
	001	901612352013	Use routing table	N					
	001 002	901612352013 907732156423	Use routing table	N					

3. Select a **Facility**. This is the resource used to dial the speed dial destination. There is the choice of Prime Line, Routing Table, Line Pool or a specific line.

5	System Speed Dial									
C	LID match length: 8	· ·								
	System Speed Dials									
	Speed Dial Number	External Number	Facility	Display	Name					
	001	901612352013	Use routing table	Name	ManchesterOff					
	002	907732156423	Use prime linel 🔳	Digits	N/A					
	003		Use routing tat 🔺	N/A	N/A					
	004		Use prime line 📃	N/A	N/A					
	005		Pool:A	N/A	N/A					
	006		Pool:B	N/A	N/A					
	007									

4. You can then choose to display the destination Digits, or a Name given to the speed dial when the speed dial is activated

ystem Speed Dial							
CLID match length:	T						
System Speed Dials							
Speed Dial Number	External Number	Facility	Display	Name			
001	901612352013	Use routing table	Name	ManchesterOff			
002	907732156423	Use prime line	Name 🖃	Paul Cell Phone			
003		N/A	Name	N/A			
004		N/A	Digits	N/A			
005		N/A	N/A	N/A			
006		N/A	N/A	N/A			
007		N/A	N/A	N/A			
008		N/A	N/A	N/A			
009		N/A	N/A	N/A			
010		N/A	N/A	N/A			

5. If Restrictions are used extensively on the system (see the **Programming Restrictions** section of this guide), you may want to consider bypassing general Restrictions with specific Speed Dials.

5	System Speed Dial								
c	LID match length:	3 🗸							
	System Speed Dials								
	Speed Dial Number	External Number	Facility	Display	Name	Bypass Restrictions			
	001	901612352013	Use routing table	Name	ManchesterOff				
	002	907732156423	Use prime line	Name	Paul Cell Phone				
	003		N/A	N/A	N/A				

#### Using Alpha Tagging for Name Display

The Business Communications Manager can be configured to display a caller name for incoming lines that provide number-only CLID, such as target lines and analog CLID lines.

When the Business Communications Manager receives incoming CLID and the number matches a System Speed Dial Number the name associated with the speed dial will be displayed on the Telephone sets display

You use a combination of fields within the Element Manager to set up this feature.

#### **Configuring the Name to Display**

To determine the name to display, you add a system speed dial for the number and enter a display name.

- 1. Select the **Configuration** tab and then the **Telephony** folder, **Global Settings** folder, **System Speed Dials**
- Then select the Speed dial to be configured (For information on setting up General System Speed Dials refer to System Speed Dials section of this guide)
- 3. Ensure that **Display** field is set to Name, and enter the name to be displayed in the **Name** field.

5	ystem Speed Dial					
c	LID match length:	3				
	System Speed Dials		<b></b>			
	Speed Dial Number	External Number	Facility	Display	Name	Bypass Restrictions
	001	901612352013	Use routing table	me	Manchest Off	
	002	907732156423	Use prime line	Name	Paul Cell Phone	
	003		N/A	N/A	N/A	

4. In order for the telephone to display the name, it must have the First Display setting set to Name. This setting can be found by opening the Telephony folder, then the Sets folder followed by Active Sets. Then select the extension that will utilize the Alpha Tagging facility under the Capabilities and Preferences tab. First Display should then be set to Name selected from the drop down list.

Task Navigation Panel								
Configuration Administration	Active Sets							
Welcome	Line Access	Capabilities and Preferences	Restrictions	1				
🕀 🧰 System	DN	Model	Name	Prime Line	Intercom Keys	Control Set	First Display	Auto Called ID
Administrator Access	221	T7316E	221	I/C	2	221	Name 🖃	
H- Resources	222	T7208/M7208	222	I/C	2	221	Name	
Elephony	230	T7316/M7310	Dave	I/C	2	221	Number	
E Sets	253	1140E/2004/2007/2050/221x	253	I/C	2	221	Line	
Templates	254	1210	254	I/C	2	221	Name	
Active Sets	255	1110/2001/2033	255	I/C	N/A	221	Name 🕇	
Active Application DNs	256	1140E/2004/2007/2050/221x	256	I/C	2	221	Name	
Inactive DNs	257	1140E/2004/2007/2050/221x	257	I/C	2	221	Name	
All DNs	435	Analog	435	I/C	N/A	221	Name	
🕀 🛅 Lines	436	Analog	435	1/C	N/A	221	Name	
- O Loops	437	Analog	43/	1/C	N/A	221	Name	
Scheduled Services	""	Analog	430	1/C	N/A	221	Name	
🖻 🗁 Dialing Plan	Copy	Paste						
General								

5. The line that is assigned against the extension then needs to be configured. Select the set that will be utilizing Alpha tagging and then from the line access tab select the assigned line and tick the **Caller ID Set** tick box.

Task Navigation Panel											
Configuration Administration	Active Sets										
Welcome	Line	ne Access Capabilities and Preferences Restrictions									
🕀 🛅 System		Model	Name	Port	Pub OLT	Priv. OLT	Ewd No Ar	nswer Ewd Da			
E-C Administrator Access			772165	221	1001	221	221	T WO NO A	ISNOI TWO DO		
E-C Resources		17316E	221	1001	221	221	257	N/A			
E-C Telephony 7201		17200/11/200	ZZZ Dava	1002	222	222	257	4			
🕀 🛅 Global Settings	230		11405/2004/2007/2050/221-	Dave	1010	250	230		N/A		
🖹 🖨 🧰 Sets	200		1210	200	0100	200	255		N/A		
Templates	254		1110/2001/2022	201	01/5	201	201		N/A		
Active Sets	200		1110/2001/2033	200	0100	200	200		N/A		
Active Application DNs	250		1140E/2004/2007/2050/221x	200	01/4	250	250		N/A		
<ul> <li>Inactive DNs</li> </ul>	25/		1140E/2004/2007/2050/221x	257	016/	257	257		N/A		
All DNs	435		Analog	400	5201	400	435		N/A		
🕀 🧰 Lines	430		Analog	430	5202	430	436		N/A		
- Oops	437		Analog	437	5203	43/	437		N/A		
Scheduled Services	438		Analog	438	5204	438	438		N/A		
🖻 🗁 Dialing Plan		Conv	Pasta	Panumhar							
General		сору	1 4300	Rendiniber							
- ONs											
Public Network	Det	ails for DI	N: 221								
Private Network											
- Cine Pools		ne Assiar	nment   Line Pool Access   Ansy	ver DNs Ì N	leetMe Cor	ferencing					
Routing		ccionad Li	ines			in on original I					
Ring Groups	ll î	ing (	Annonyanga Tuna		Anno 1	-	Colley ID Col	Venes Cak	Driv Dessived #		
🕀 🧰 Call Security			Appearance type		Арреа	ances	Caller ID Set	Vinsg Sec	Priv. Receiveu #		
Hospitality		61	Approxing			1			221		
Hunt Groups	1	62	Approxing			1			222		
Call Detail Recording											
🕀 🗁 Data Services											
Applications											
		Add	Delete								

6. **CLID Match Length**: This determines how many digits of the dialed number and the system speed dial must match before a name is displayed.



#### Limitations:

- Due to system resource limitations, only 30 telephones can have the Caller ID Set field enabled for any given line.
- If the incoming number only partially matches the CLID match length, no name displays.
- If the number matches more than one speed dial, which have different names, the telephone displays the name of the first match.
- ISDN devices do not support the alpha tagging feature.

### **CAP/ KIM Assignment**

A CAP (Central Access Point) station acts as a central answering and monitoring point for a group or a business. You can configure lines and quick dial numbers that allow the person at this station to monitor and answer call traffic into the group.

You can configure a total of 12 CAP stations on a BCM50 or 24 on a BCM450 using the CAP/KIM assignment setting. Modules that have been configured like this will be referred to as eCAPs and eKIMs. eCaps and eKIMs can access/monitor lines in addition to extensions.

#### Configuring CAP/KIM assignment

- 1. Ensure that the telephone you want to use for a CAP station is configured and working.
- 2. Ensure that the CAP/KIM module has been installed on the appropriate telephone.

**Note:** The latest version of the i2050 software phone supports a software KEM, which can also be configured as an eKEM via this process.

- 3. In the Element Manager, open the **Telephony** folder followed by **Global Settings**, and select **Cap Assignment**.
- 4. The CAP # window appears.



- 5. Type the DN in the **Set DN** field for the telephones that you want to designate as a CAP station.
- 6. Click on the next CAP/KIM to add another CAP station, or click elsewhere on the navigation tree to save the setting.

# **Hunt Groups**

Configuration of Hunt Groups consists of the following steps:

1. Open the **Telephony** folder and select **Hunt Groups**. Configure the **Hunt Group** operational settings.

		Lu	1						1	1
	HG	Name	DN	Mode	Hunt Delay	If Busy	Queue Timeout	Overflow	Aux. Ringer	Distinct Ring
E Global Settings	01	HG01	397	Broadcast	N/A	Busy tone	60	397		Pattern 2
🕀 💼 Sets	02	HG02	398	Broadcast	N/A	Busy tone	60	398		None
🕀 💼 Lines	03	HG03	399	Broadcast	N/A	Busy tone	60	399		None
- O Loops	04	HG04	400	Broadcast	N/A	Busy tone	60	400		None
Scrieduled Services     Dialing Plan	05	HG05	401	Broadcast	N/A	Busy tone	60	401		None
- Ring Groups	06	HG06	402	Broadcast	N/A	Busy tone	60	402		None
E Call Security	07	HG07	403	Broadcast	N/A	Busy tone	60	403		None
Hospitality     Hunt Groups	08	HG08	404	Broadcast	N/A	Busy tone	60	404		None
Call Detail Recording	09	HG09	405	Broadcast	N/A	Busy tone	60	405		None
🚞 Data Services	10	HG10	406	Broadcast	N/A	Busy tone	60	406		None

#### **Hunt Group Settings**

Field	Values	Description
Name	<an alpha-<br="">numeric string naming the Hunt Group&gt;</an>	Provides a unique name for the Hunt Group. The default is HGxx, where xx is the Hunt Group number 01-30.
DN	<numeric></numeric>	BCM450: Enter a spare DN. BCM50: The field will already be populated with a DN.
Mode	Broadcast Sequential Rotary Default: Broadcast	Choose how you want the line to present to the group. <b>Broadcast</b> —simultaneously rings at each non-busy telephone in the hunt group. All telephones receiving the call also display the calling line identification from the line, if the telephone or line has been configured to offer that service. Any of the alerted telephones can access the call. Only one call can be presented to a hunt group at a time. Other calls are queued until the first call is answered. Then the next call rings on the remaining non-busy telephones. This feature allows the call load to be continuously spread across the entire member group. <b>Sequential</b> —rings the first telephone in the hunt group list. If that telephone is busy, the system continues down the hunt group priority list until a non-busy telephone takes the call. In this case, all incoming calls are processed simultaneously and delivered based on the priority list. With this feature, you can program your top salesperson to be the first member of the Hunt group to receive incoming calls. <b>Rotary</b> —the call starts at the member telephone that appears on the list after the telephone that answered the last call. If that telephone is busy, the system proceeds down the priority list until a non-busy telephone that

Field	Values	Description
		reached. As many incoming calls can be processed as there are available telephones to accept the call, each call being presented in the described round-robin fashion.
Hunt Delay	1-10 (seconds)	If Mode is either Sequential or Rotary, Hunt Delay specifies how much time to delay offering a Queued call to a member telephone once that telephone becomes available. This is to provide a break period for the users between calls. The default is four seconds.
If Busy	Busy tone Queue Overflow Default: busy tone	Choose how you want the system to respond if all lines appear as busy. <b>Busy tone</b> : If all lines are busy, the user receives a busy tone. <b>Queue</b> : If all lines are busy, the user is put on hold for the next available agent. <b>Overflow</b> - If all members of the Hunt Group are busy on a call from that Hunt Group, then route this call to the Hunt Group overflow DN. Overflow is only available if the overflow DN is different than the hunt group DN. Refer to the Overflow field, below.
Queue Timeout	15, 30, 45, 60, 120, 180 (seconds) Default: 60	Choose the time in seconds for a call to remain in the Hunt Group. This value defines the maximum time a call remains queued, and the maximum time to offer a call before sending it to overflow if it is not answered. If the queue times out before the call connects to a member telephone, the call is terminated. If the call has been offered to a member telephone, but is not answered when the queue times out, the call is rerouted to the overflow DN.
Overflow	<any system<br="">DN&gt; (including a Hunt Group DN) Default: hunt group DN</any>	This setting determines where unanswered calls are routed after the Queue timeout occurs. If a call gets overflowed back to the same Hunt Group, the call goes to the bottom of the queue and is treated as a new call
Aux ringer	<checkbox></checkbox>	Defines whether an auxiliary ringer (if installed) rings for incoming calls to a hunt group.
Distinct ring	None Pattern 2, 3 or 4	Select a ring pattern for the hunt group. Default is none.

2. Program the **Hunt Group** members (extensions). Click the **Add** button under **Hunt Group Members**, add the member DN and click **OK**.

Task Navigation Panel										
Configuration Administration	Hun	t Group <del>s</del>								
Welcome	Hun	t Groups								
F- System		/ Name	DN	Mode	L H	unt Delay	If Busy	1	Queue Timeout	
	01	HG01	473	Sequential	4	uncociay	Busy tone	60	Quede Ameoda	
E-C Resources	02	HG02	474	Sequential	4		Busy tone	60		
🗄 🖓 Telephony	03	HG03	475	Sequential	4		Busy tone	60		
🕀 🧰 Global Settings	04	HG04	476	Sequential	4		Busy tone	60		
🕀 🧰 Sets	05	HG05	477	Sequential	4		Busy tone	60		
🕀 💼 Lines	06	HG06	478	Sequential	4		Busy tone	60		
O Loops										
<ul> <li>Scheduled Services</li> </ul>	Details for Hunt Group: 01									
⊡ Dialing Plan										
Ring Groups										
Hupt Croups	Business name: Business name 1 💌 Distinct rings in use: None									
Call Detail Recording	Long name: HG01									
	Cand lang same									
H-C Data Services	Send long name:									
Applications	Hunt Group Members									
	Members Lines									
	Sen. No. / DN Appearance Type									
		Add	<b>D</b> el	ete	JD.	Down		Add.	Delete	
			AA	dd Member		×				
			DN:	221						
			511.1							
				(	Ж	Cancel				

3. Set the DN Appearance Type as Ring only, Appear and Ring, or Appear only. This affects how the Hunt Group calls alert the set. For example, Ring only means that the DN will ring and the Intercom key will flash, whereas Appear & Ring results in a specific button indicating the Hunt Group call as well as the phone ringing.

Details for Hunt Group: 01		
Business name: Business r	ame 1 💌 Distinct rings in us	e: None
Long name: HG01		
Send long name:		
Hunt Group Members		Line Assignment
Members		Lines
Seq. No. 🔺 DN	Appearance Type	Line 🔺
1 221	Appr&Ring	
	Ring only	
	Appr&Ring	
	Appr only	
Add Delete	Up Down	Add Delete
4. Configure lines that should be answered by the Hunt Group. Click the **Add** button, add the line and click **OK**.

Details for Hunt Group: 01	
Business name: Business name 1 Distinct rings in	use: None
Long name: [HG01	
Send long name:	
Hunt Group Members	Line Assignment
Members	Lines
Seq. No. A DN Appearance Type	Line 🛆
Add Delete Up Down	Add Delete
Add Line numbr	ine Assignment

5. Configure the Business Name and Long Name settings for outgoing CLID.

Det	ails for Hunt Group: 01 Business name: Business name 1 Long name: Sales Send long name: 🗸	Distinct rings in use: None
	Hunt Group Members Members Seq. No. A DN Appeara 1 221 Appr&Ring	Line Assignment Lines Lines 200
	Add Delete Up	Down Add Delete

### Monitoring Hunt Group Calls

You can set up a number of two-line display telephones on your system to use as supervisory telephones to monitor active hunt group calls from external numbers.

Only telephones that have been designated as monitoring devices have access to the **FEATURE \*550** code, which activates the monitoring session. Once the session is established, a number of display key prompts allow the supervisor to silently monitor the call, or break into the call to provide support or instruction.

When you monitor calls you are not detected by the Hunt Group member or caller unless **Non Silent Monitoring** has been enabled from within Element Manager. Hunt Group members can be monitored by a designated set on an active call.

**Note:** Hunt Group calls can only be monitored if they have originated from an external number.

### **Configuring Hunt Group Monitoring**

To set up Hunt Group Monitoring for your system:

- 1. Open the **Telephony** folder followed by the **Global Settings** folder and select **Advanced Feature Settings**.
- 2. The Silent Monitor screen appears in the right frame.

Task Navigation Panel	Advanced Feature Settings
Configuration Administration	Auvanceu reature settings
Welcome	System Wide Call Appearances Control
System     Administrator Access	Auto-associate SWCA key to call: Manually - while parke
E Resources	Include I/C calls when auto-associating:
E-C Global Settings	ONN Blocking
Peature Settings	Tone:
Auvanceur eacure Securitys     IP Terminal Features	Pulse:
DMC Feature List     System Speed Dial	BRI:
CAP Assignment	- Silent Monitor
📄 🗁 Sets	
Templates	Monitoring mode: Non silent
Active Sets	Number of SM sets:
Active Application DNs	
Inactive DNs	SM password: *****
All DNs	

Field	Values	Description
Monitoring mode	Silent Non silent	Choose <b>Silent</b> if you want supervisors to be able to break into a hunt group conversation without giving an indication of their presence. Choose <b>Non silent</b> if you want the hunt group member and the caller to hear a conference tone when a supervisor breaks into a hunt group conversation.
		<b>Note:</b> Initial monitoring is muted at the supervisor set. If the Supervisor wants to speak within the conversation, a display key on the two-line display supervisor telephone is available, once the connection is established.
SM sets	1 to 30	Indicate the number of two-line telephones in your system that you will allow to be used as supervisory telephones. (Default: 5)
SM passwd	XXXXXX	A six-digit set that must be entered after the supervisor presses <b>FEATURE *550</b> . To maintain system security, change this password frequently. (Default: <b>745368 (SILENT)</b> )

#### **Silent Monitor Settings**

- 3. The designated sets will have to be configured so that they have the capability to monitor a Hunt Group call.
- 4. Open the **Telephony** folder, then the **Sets folder** and select **Active Sets.** Then select the **Capabilities and Preferences** tab click the DN to have the Supervisor Monitoring facility select the **capabilities** tab and tick the **Silent Monitor Supervisor** tick box.



**Note:** The monitoring extension must be a 2-line display telephone.

# **Programming Restrictions**

To set the Restrictions and Overrides to be used by the system use the following path: Open the **Telephony** folder, followed by the **Call Security** folder and click **Restrictions Filters**. Always ensure that numbers to emergency services are not restricted.

1. Select the **Restrictions** from the filters list and click the **Add** button. Enter the digits to be restricted and click **OK**.



2. To add an Exception (Override) to a Restriction, select the **Digits** to be restricted i.e. 07 heading and select the **Override** heading. Click on **Add** under the **Exception Digits** field.

Restriction Filter	5	
Filters	Restricted Digits for Filter: 02	
02 03 04 05	Restrictions Digits A 07	Exceptions for Restriction: 07
06 07 08		Exceptions
09 10 11 12		
13 14 15		
16 17 18		Add
19 20		

3. Enter the Exception digits and click **OK**.

Add Exception			
Digits: 07941		-	
OK		Cancel	

Multiple Overrides can be added to each Restriction: however, there is a maximum total of 400 Restrictions and Overrides allocated to the 100 programmable filters.

When setting Restrictions and Exceptions the wildcard character is "A", which represents any digit.

4. Once the Restriction Filters have been created they can then be assigned to the required DN's open: Open the **Telephony** folder, then the **Sets folder** and select **Active Sets.** Select the extension and the **Restrictions** tab. set the Filter against the appropriate Schedule s required.

rask Navigación Panel						
Configuration Administration	Active Sets					
- • Welcome	Line Access	Capabilities and Preferences	Restrictions	1		
🖻 🛅 System		Model	Name	SetLock	Allow Last Number	Allow Saved Number
🗄 🧰 Administrator Access	221	T7316E	221	None	Allow East Number	Allow Saved Number
E C Resources	222	T7208/M7208	222	None		•
E D Telephony	230	T7316/M7310	Dave	None		2
Global Settings	253	1140E/2004/2007/2050/221x	253	None		
🖻 🗀 Sets	254	1210	255	None		
Templates	255	1110/2001/2033	255	None		1
Active Sets	256	1140E/2004/2007/2050/221v	256	None		1
Active Application DNs	257	1140E/2004/2007/2050/221x	250	None		
Inactive DNs	435	Apalog	435	None		1
All DNs	436	Analog	436	None		
🕀 🛅 Lines	437	Analog	437	None		-
- Oops	438	Analog	438	None		- -
Scheduled Services	11.00	Analog	150	Hone		<u> </u>
🕀 🧰 Dialing Plan	Copy	Paste				
Ring Groups						
E Call Security						
Hospitality	Details for DI	N: 221				
Hunt Groups						
Call Detail Recording	Set Restri	tions Line/Set Restrictions				
E Data Services	Restriction	s				
Applications	Sche	dule Use Filter				
	Normal	02				
	Night	11				
	Evening	12				
	Lunch	13				
	Day	00				
	FALLBCK	00	-			

# **Programming Scheduled Services**

Scheduled Services consists of three telephony services:

- **Ringing Service**: Allows a*dditional* telephones to ring on certain lines when required. For example, if a receptionist is unavailable to take calls during lunchtime, the lines that normally ring on that extension can be programmed to ring at other extensions.
- **Restriction Service**: *Alternate* restrictions can be set for different periods of the day. For example, at night time it is possible to restrict calls from an extension to international numbers, whereas during the day this facility is allowed.
- **Routing Service**: *Alternate* routes can be programmed for different times of the day.

Services can be activated either manually by the use of Feature codes (F871=Ringing, F872=Restriction, F873=Routing), or automatically by programming the respective Service setting to Auto.

### **Ringing Service**

The programming of a Ringing Service consists of configuring a Ring Group (essentially a list of extensions required to ring) and assigning the group to a line. Again, the service can be activated by use of a Feature code (Manual setting), or programmed to activate at certain times of the day. (Auto setting).

1. To assign extensions to a Ring Group, open the **Telephony** folder and click **Ring Groups.** Click the Ring Group to be configured. Under the **Members** field click on **Add** to add an extension (DN) to the group. Click **OK** when you've entered the extension.



**Note:** It is recommended that you do not use Ring Group 001, unless you want this Ring Group to be applied to all lines. Ring Group 001 is applied to all lines by default.

2. To assign the Ring Group to a line, click the **Line Settings** tab followed by the line to be used schedule to be used.

Configuration Administration	Ring Groups
⊞– 🚞 System	
🗄 💼 Administrator Access	Group Membership Line Settings
🗄 💼 Resources	Lines
E-Cal Telephony	
E Global Settings	
+ Sets	194
	195
Loops	196
Scheduled Services	197
Bing Croups	
The Call Security	190
- Hospitality	199
- Hunt Groups	200
Call Detail Recording	201
🕀 💼 Data Services	000
	202
	203
	Details for Line: 200
	Line Settings
	Schedule Ring Group Aux. Ringer
	Night 001
	Evening 002
	Lunch 001
	Sched 4 001
	Sched 5 001
	Sched 6 001

- 3. The under the Line Settings Field enter the **Ring Group** to be used against the appropriate schedule.
- To configure if the service is to be activated manually or automatically, open the **Telephony** folder and click **Scheduled Services**. Select the required schedule. Click the **Ringing Service** drop down box and the appropriate service setting.



**Note:** If using the **Auto** setting, you must set the times for that schedule appropriately. Refer to the **Scheduled Services – Times, Names, and Service Control Passwords** section of this guide for more information.

#### **Ringing Service Settings**

Attribute	Value	Description
Service setting	Off Manual Auto	<ul> <li>Manual allows you to turn the service on and off at any time from a control set using the Ringing service feature code (F871).</li> <li>Auto allows you to program a stop and start time for a service. You are still able to start and stop the service by entering the appropriate Services feature code at a control set. If you select this setting, you will have to set start and stop times.</li> <li>Off prevents the service from being activated.</li> </ul>
Trunk answer	< Checkbox >	Trunk answer allows you to answer, from any telephone, an external call that is ringing at another telephone in your office if the Ringing Service is active on that line at the time of the call. If the service is not active, you cannot answer the call. This is useful if the other telephones are not assigned the same lines as the telephone you are using to answer the call.
Extra dial set	None DN XX DN <control set&gt;</control 	The Extra dial set attribute allows you to assign an additional direct-dial set for each schedule. <b>Note:</b> The extra dial set is activated during a schedule by entering the Ringing service feature code from a direct-dial set. This does not activate the Ringing service unless the direct-dial set is also a control set.

### **Restriction Service**

To utilise alternate restriction scheduled services, ensure that the required Restriction Filters have been programmed. You must then ensure that the correct Restriction Filters are assigned to the required DN's (extensions).

Configuration Administration	Scheduled Servic	es					
Administrator Access     Administrator Access     Administrator Access     Sets     Telephony     Sets     Cobal Settings     Sets     Dialing Plan     Ring Groups     Call Security     Hunt Groups     Call Detail Recording     Data Services     Call Detail Recording     Data Services     Applications	Schedules Schedule Night Evening Lunch Sched 4 Sched 5 Sched 5 Sched 6	rol password *	***				
	Schedule	Routing Svc	Overflow	Ringing Svc	Trunk Answer	Extra Dial Set	Restriction Svc
	Night	Off		Off	V	221	Off
	Evening	Off		Off		221	Off 🗾
	Lunch	Off		Off	V	221	Off
	Sched 4	Off		Off	$\checkmark$	221	Manual
	Sched 5	Off		Off	$\checkmark$	221	
	Sched 6	Off		Off	V	221	Off

1. Define whether each Restriction Schedule should be activated Manually, Automatically, or not at all.

**Note:** If using the **Auto** setting, you must set the times for that schedule appropriately. Refer to the **Scheduled Services – Times, Names, and Service Control Passwords** section of this guide for more information.

#### **Restriction Service Settings**

Attribute	Value	Description
Service setting	Off Auto Manual	Manual allows you to turn the service on and off at any time from a control set using the Restriction service feature code (F872). Auto allows you to program a stop and start time for a service. You are still able to start and stop the service by entering the appropriate Services feature code at a control set. If you select this setting, you will have to set
		Off prevents the service from being activated.

### **Routing Service**

To utilise alternate routing scheduled services, ensure that the required Routes and Destination codes have been programmed.

1. Define whether each Routing Schedule should be activated Manually, Automatically, or not at all.



**Note:** If using the **Auto** setting, you must set the times for that schedule appropriately. Refer to the **Scheduled Services – Times, Names, and Service Control Passwords** section of this guide for more information.

### **Routing Service Settings**

Attribute	Value	Description
Service setting	Off Auto Manual	<ul> <li>Manual allows you to turn the service on and off at any time from a control set using the Routing service feature code (F873).</li> <li>Auto allows you to program a stop and start time for a service. You are still able to start and stop the service by entering the appropriate Services feature code at a control set. If you select this setting, you will have to set start and stop times. See the section on schedule times for</li> </ul>
		information on programming times. <b>Off</b> prevents the service from being activated.
Overflow routing	<checkbox></checkbox>	If all the lines used by a route are busy when a call is made, you can program Routing service to overflow to the route used for normal mode. If this happens, the set sounds a warning tone and displays the message <b>Expensive route</b> . The caller can then release the call to avoid using the normal route, or continue with the call. <b>Tips:</b> A schedule must be active for overflow routing to be in effect. Overflow routing is not available in normal mode. You must create an overflow route to be used with each destination code. In this way, every route used with a scheduled mode that has overflow service must have an alternate route in normal service.

# Scheduled Services - Times, Names and Service Control Passwords

1. When manually activated, some scheduled services may require a password. This is the password entered in the **Service Control Password** field.



2. To name a schedule, double click on the schedule to be named. Schedule 0 is always "normal" and cannot be renamed.

1	1		1				
Task Navigation Panel							
Configuration Administration	Scheduled Services						
Welcome	Schedules	Datails for Schadulas EA	UBCK				
Administrator Access	Schedule	Decais for Schedule, FA	LUCK				
	Evening						
	Lunch						
Global Settings	Day	Schedule Times					
E Sets		Day Star	t Time S	top Time			
Templates	Sched 6	Monday 00:00:00	00:00:	00			
Active Sets		Tuesday 00:00:00	00:00:	00			
Active Application DNs		Wedne 00:00:00	00:00:	00			
Inactive DNs		Thursday 00:00:00	00:00:	00			
<ul> <li>All DNs</li> </ul>		Friday 00:00:00	00:00:				
😟 🧰 Lines		Saturday 00:00:00	00:00:	- 00			
<ul> <li>Loops</li> </ul>							
Scheduled Services							
🕀 🛅 Dialing Plan							
Ring Groups							
E Call Security	Services						
<ul> <li>Hospitality</li> </ul>							
Hunt Groups	Service control pass	word: J*****					
Call Detail Recording	Schedule	Routing Svc	Overflow	Ringing Svc	Trunk Answer	Extra Dial Set	
Data Services	Night	Off		Manual	V	221	Of
Applications	Evening	Off		Manual		221	Of
	Lunch	Off		Manual	<b>v</b>	221	Of
	Day	Off	<b>v</b>	Manual	$\checkmark$	221	Of
	FALLBCK	Off		Manual	$\checkmark$	221	Of
	Sched 6	Off		Manual		221	Of

3. Set the schedule times accordingly for each day.



**Note:** Schedule times do not flow over midnight, i.e. setting a start time of 23:00 and stop time of 07:00 means that the schedule will start at midnight, stop at 07:00, then re-start at 23:00 and stop at midnight.

# **Additional Configuration**

The following configuration sections may not be required in all situations.

# **Voice Message Centres**

Voice Message Centres are remote Voicemail service providers. Thus, Voicemail mailboxes and messages can be stored on a system external to the BCM.

1. To program Voice Message Centres (Voicemail services via external provider) use the following path: open the **Applications** folder, and select **Voice Messaging/Contact Center**.



If using Voicemail on a Meridian system the path can be defined here.

### Voice Message Center Settings

Field	Values	Description
External #	<phone number=""></phone>	This is the number of the remote voice message system.
Message wait Indicate String	<string></string>	Indicates that the message centre has a message in the mailbox. This is a default NSI string for message waiting.
Message wait Cancellation string	<string></string>	Indicates that the voice messages have been retrieved. This is a default NSI string for message waiting.

# Hospitality

In a temporary room occupancy setting, such as hotels or hospitals, guests and staff gain improved services through immediate access to basic functions like:

- Wake-up services or reminders via alarms on the room telephones
- Accurate tracking of the room service requirements, such as cleaning schedules and occupancy.

The system classifies telephones as one of three types of telephones:

- **Common set**: This type of telephone can be found in a lobby, office, or common area. It is not associated with a room and does not have access to all of the hospitality features. These telephones are Business Communications Manager telephones or analogue telephones connected to an analogue terminal adapter (ATA 2).
- **Room set**: This type of telephone is assigned to a room. You can assign up to five telephones to the same room (they all share the same room number). These telephones can be any Business Communications Manager telephone or an analogue telephone connected to an ATA 2.
- Hospitality Services (HS) admin set: This type of telephone is any two-line display Business Communications Manager telephone. You can program a hospitality services telephone to require the entry of an Administrative desk password before the system grants access to hospitality administrative-level service control.
- 1. To program Hospitality features use the following path: **Telephony > Hospitality**.

Configuration Administration	, Hospitality	
⊞– <u>e</u> System		
🗄 🛅 Administrator Access	General Rooms	
± Resources		
	- O studio interneti e u	Make the Call Cattings
E-Global Settings	Administration	wake-op call settings
±- is Sets	Service change time	Attempts 3 👻
	Desk password 4677	Retry interval 4 🚽
Scheduled Services	, in the second s	
+- Dialing Plan	Room condition password	Alarm duration
	Call Pactvictiona	- Everyand Make Lin Call Cattings
- Hunt Groups	Cair Restrictions	Expired Wake-op Call Settings
Call Detail Recording	Vacant filter	
The Data Services		
t Applications	Basic filter	Notify DN
	Mid filter	Use tone
	00	
	Full filter	
	00	

Field	Values	Description
Services	<24 hour digital	Identify when the occupied rooms will change from
change time	time>	service done to service required.
		Format: HHMM, i.e. 1400 = 2 p.m.
		HH = 0 to 23; MM = 0 to 59
Desk	<up digits="" six="" to=""></up>	Enter the password that will be required to access all
password		the Hospitality administrative features.
		Security: We strongly recommend that you change the
		default password, and frequently change the desk
		password to prevent unauthorized entry.
		Default password: 4677 (HOSP)
Room	<up digits="" six="" to=""></up>	Set the password that will allow access to the Room
condition		condition feature (F876).
password No.		Default password: 4677 (HOSP)

### **Call Restrictions**

Configuration Administration	Hospitality	
⊞– 🛅 System		
🗄 🧰 Administrator Access	General Rooms	
± 💼 Resources		
E-G Telephony	0 elucirizaturation	Mileke Lie Cell Cettinge
E-Global Settings	Administration	wake-op call settings
T- Sets	Service change time	Attempts 3
	Desk password 4677	Retry interval 🛛 🛓 👻
Scheduled Services		
+- Dialing Plan	Room condition password	Alarm duration
Bing Groups		
+		
- Bospitality	Coll Restrictions	-Expired Make Up Cell Settings
	Cair Restrictions	Expired Wake-op Call Settings
Call Detail Recording	Vacant filter	
+ Data Services		
+ Applications	Basic filter	Notify DN
		, , , , , , , , , , , , , , , , , , ,
	Mid filter 00	Use tone 🔽
	Full filter	

Field	Values	Description
Vacant filter	<two-digit code=""></two-digit>	Enter a code that indicates which calls are allowed when a room is empty, (i.e. 911).
Basic filter	<two-digit code=""></two-digit>	Enter a code that indicates which calls are allowed for a basic room phone, (i.e. 911, and internal calls only).
Mid filter	<two-digit code=""></two-digit>	Enter a code that indicates which calls are allowed for a phone with mid service. (i.e. 911, internal calls, and 1-800 numbers only)
Full filter	<two-digit code=""></two-digit>	Enter a code that indicates which calls are allowed for a phone with full service. (i.e. no restrictions).

# Wake Up Call Settings

Configuration Administration	Hospitality	
⊕– 💼 System		
🗄 💼 Administrator Access	General Rooms	
🗄 💼 Resources		
🔁 🔄 Telephony	Administration	-)A/ake_Lin Call Settings
🗄 💼 Global Settings		Wake-op call octaings
🗄 💼 Sets	Service change time 00:00:00 👻	Attempts 3 👻
🕀 💼 Lines		
-O Loops	Desk password 4677	Retry interval 🛛 🚽 👻
Scheduled Services		
🕀 💼 Dialing Plan	Room condition password	Alarm duration 15 💌
Ring Groups		
🔁 🛅 Call Security		
	Call Restrictions	Expired Wake-Up Call Settings
- Hunt Groups		
Call Detail Recording	Vacant filter 00	
🗄 📃 Data Services	Basis (ibas	
🗄 💼 Applications	Basic filter 00	Notify DN
I	Mad Glass	line terres
I	Mild filter 100	Use tone
I	Full filter	
I		
I		
I		

Field	Values	Description
Attempts	1, 2, 3, 4, 5	Select the number of times the Alarm time feature
		attempts to alert the occupant before cancelling.
Retry interval	(in minutes)	Select the interval between each attempt to send the
	2, 4, 6, 8,	alarm.
Alarm duration	(in seconds)	Select the period that a telephone alerts for each
	10, 15, 20, 25,	alarm attempt.
	30, 35, 40, 45, 50	

# Expired Wake-Up Call Settings

Configuration Administration	Hospitality	
🛨 🚞 System	Committee 1	
Administrator Access	General Kooms	
	Administration	Wake-Up Call Settings
E+- Giobal Settings	Service change time	Attemnts o
	Desk password 4677	Retry interval 🛛 🚽
Scheduled Services		
⊕– 🧰 Dialing Plan	Room condition password	Alarm duration 15 💌
Ring Groups		
🕀 🧰 Call Security		
	Call Restrictions	Expired Wake-Up Call Settings
	Vecent filter	
Call Detail Recording		
Data Services	Basic filter	Notify DN
	Mid filter 00	Use tone 🗖
	Full fillter 00	

Field	Values	Description
Notify DN	None/DN: <telephone dn=""></telephone>	Enter a telephone DN if you want to
		notify a specific telephone when an
		alarm expires.
Use tone	<check box=""></check>	Choose whether you want the user to
		hear a tone when the alarm expires.

## Rooms Tab

The Hospitality - **Rooms** panel tab allows you to assign telephones to a room. You can assign a maximum of five telephone DN's to a room.

Task Navigation Panel						
Configuration Administration	H	lospita	lity			
Welcome		General	Rooms <			
🗄 🛅 System		DN	Namo	Madal	Doom Number	Deguires Deals Dessured
🗄 🛅 Administrator Access			ivane 001	Model	Room Number	Requires Desk Password
🗄 🛅 Resources		221	221	1/316E		
🚊 🧀 Telephony		222	222	17208/M7208		
🕀 🫅 Global Settings		223	223	1/208/M/208		
🗇 🧰 Sets		224	224	1/208/M/208		
Templates		225	225	1/208/M/208		
Active Sets		226	226	T7208/M7208		
Active Application DNs		227	227	T7208/M7208		
Inactive DNs		228	228	T7208/M7208		
All DNs		229	229	T7208/M7208		
F C Lines		230	Dave	T7316/M7310		V
Loops		231	231	T7208/M7208		V
Scheduled Services		232	232	T7208/M7208		V
E Dialing Plan		233	233	T7208/M7208		V
General		234	234	T7208/M7208		
DNs		235	235	T7208/M7208		
Public Network		236	236	T7208/M7208		
Private Network		237	237	T7208/M7208		
Line Pools		238	238	T7208/M7208		
Douting		239	239	T7208/M7208		
Ping Crouns		240	240	T7208/M7208		
Call Sequeity		241	241	T7208/M7208		
		242	242	T7208/M7208		V
		243	243	T7208/M7208		<b>v</b>
Hunt Groups		244	244	T7208/M7208		

Field	Values	Description
DN	<read-only></read-only>	This is the DN of a telephone assigned to a room.
Name	Max 7 Characters	
Model	Select from	This is the model name from the
	Dropdown List	DN record.
Room number	<any 1<="" digit="" from="" td=""><td>Enter the room that contains the telephone with this DN.</td></any>	Enter the room that contains the telephone with this DN.
	to 32767>	
Requires desk password	Checkbox	If set to yes, the telephone requires a password to access administrative-level hospitality features (features 877-879). If set to no, the telephone does not require any passwords to access the features.
		Desk passwords are created using the main Hospitality command.

# **Renumbering DN's & Target Line Information**

There are two programming elements that can be sequentially renumbered within Element Manager:

- DN's
- Target Lines

The DN Renumbering feature allows the following items to be changed:

- DN's: A single or range of DN's can be renumbered to other more convenient values. For example, if there was a need to change DN numbers 221-230 to 621-630 then the Renumber feature would allow this.
- OLI's: Public and Private OLI's can be easily assigned or changed across a range of DN's.

The Target Line Renumbering feature allows the following items to be changed:

- Target Line Assignment: Target Lines can be sequentially assigned to designated DN's. This process is useful if the received numbers have already been assigned to the Target Lines.
- Received Numbers: Public and Private received numbers can be assigned sequentially to Target Lines. This is a convenient method of performing this process.

### Renumbering DN's and OLI's

### **Renumbering DN's**

Use the following procedure to change a single or range of DNs numbers to more convenient numbers. It is also possible to move existing mailboxes using this process.

The attributes of the original DN such as name, call forward settings, line assignments etc., will be moved to the new DN(s).

1. Launch Element Manager and connect to the BCM.

2. In the **Configuration** tab, open the **Telephony** folder, followed by **Sets**, and click on **Active Sets**. (The following process could be performed in Active Application DNs, Inactive DNs, and All DNs.)



- 3. Click on the Renumber... button.
- 4. The **Set Renumber** dialog box appears. Select **DN** from the **Attribute** drop down list.



 Enter the range of DN's to be renumbered in the Begin DN number and End DN number fields. Enter the DN number that you want to start renumbering to in the New begin value field.

A Set Renumber
Attribute: DN
Begin DN number: 223
End DN number: 224
New begin value: 623
Move Voice Mail boxes: 🔽
OK Cancel

- 6. If you want to move mailboxes associated with the original DN's to the new DN's, check the **Move Voice Mail boxes** check box. Click **OK** to renumber the DN's.
- 7. If selecting the **Move Voice Mail boxes** option, voice mail data will be lost. Click **OK** to continue



- 8. Click **OK** to continue.
- 9. The new DN numbers will be displayed. Note that the port numbers remain the same.

ine Access	Capabilities and Prefer	ences Restriction	IS		
DN 🛆	Model	Name	Port	Pub. OLI	Priv. (
233	Analog	233	0413	233	233
234	Analog	234	0414	234	234
623	T7100/M7100	623	0403	623	623
624	T7316E	624	0404	624	624
				-	

### **Renumbering OLI's**

The Renumber feature allows quick and easy numbering of Public and Private OLI's, if they weren't already correctly set in during Telephony Resources configuration.

OLI's, or the Outgoing Line Identifier, is used to display the configured OLI number of the dialing BCM extension at the receiving end. Separate OLI's can be specified for dialing over public or private networks.

The procedure allows selection of DN's to apply the OLI's to, and the start OLI number to sequentially assign OLI's from.

Use the following procedure to apply OLI's to a range of DN's.

1. Launch Element Manager and connect to the BCM.

2. In the **Configuration** tab, open the **Telephony** folder, followed by **Sets**, and click on **Active Sets**. (The following process could be performed in Active Application DNs, Inactive DNs, and All DNs.)

Task Navigation Panel Configuration Administration	Active Sets						
• Welcome	Line Access	Capabilities and	Preferences R	estrictions			
System		M	odel	Name	Port	1	Pub OI
🗄 🗂 Administrator Access	222	Analan	ouci	222	0.412	222	1 00. 01.
🗄 🗁 Resources	233	Analog		233	0413	233	
🗄 🗁 Telephony	234	Analog		234	0414	234	
🕀 🗁 Global Settings	623	T7100/M7100		623	0403	623	
	624	T7316E		624	0404	624	
Templates							
Active Color			_				
Acuve Sets	Conv	Pa	iste 🚺	Renumber			
Active Application Divs			Jacini I.	(chamber)			
Inactive DNs	<b>—</b>						
All DNs	Details for DI	0.623					
🗄 🛅 Lines	Details for Di	V: 025					
Loops							
Scheduled Services	Line Assign	nment   Line Poo	Access Answe	er DNs M	eetMe Con	feren	cing
Dialing Plan							
	Crea	ate MeetMe Con	ference Bridge	•			
Ring Groups							
🖃 🗁 Call Security							

- 3. Click on the **Renumber...** button.
- The Set Renumber dialog box appears. Select either Public OLI or Private OLI from the Attribute drop down list, depending on whether OLI's are being configured for the public or private network.

A Set Renumber	×		
Attribute	DN 💌		
Begin DN number	DN Public OLT		
End DN number	Private OLI		
New begin value.			
Move Voice Mail boxes:			
0	Cancel		

 Enter the range of DN's to apply the OLI's to in the Begin DN number and End DN number fields. Enter the start of the OLI range in the New begin value field. OLI's will be applied sequentially from this value to the specified range of DN's.

A Set Renumber	×
Attribute: Public OLI	-
Begin DN number: 623	
End DN number: 624	
New begin value: 670623	
OK Cano	el

6. Click **OK** to apply the OLI's.

7. The updated OLI's will appear in the selected OLI field.

	copositions and thereference	s   Restrictions	S		
DN 🛆	Model	Name	Port	Pub. OLI	Priv. OLI
33	Analog	233	0413	233	233
34	Analog	234	0414	234	234
23	T7100/M7100	623	0403	670623	j23
24	T7316E	624	0404	670624	524

# **Renumbering Target Line Assignments & Received Numbers**

#### **Renumbering Target Line Assignments**

The Renumber feature can be used to assign a range of Target Lines to a range of DN's, specified by the DN begin value. Each Target Line will be mapped sequentially from the specified DN upwards.

Use the following procedure to assign Target Lines to DN's.

**Note:** Existing Target Lines will not be replaced by the newly assign Target Lines on the DN's specified in this process.

1. Launch Element Manager and connect to the BCM.

2. In the **Configuration** tab, open the **Telephony** folder, followed by **Lines**, and click on **Target Lines**. (The following process could be performed in Active Physical Lines, Active VoIP Lines, Inactive Lines, and All Lines, but as this process only relates to Target Lines it is recommended to perform this from the Target Lines section.)

Task Navigation Panel	Γ							
Configuration Administration		Targe	: Lin	es				
Welcome		Line	$\square$	Trun	k Type	Name		Control 9
🗄 🗁 System		125		Target line		Line 125	621	
🗄 🛅 Administrator Access		126		Target line		Line 126	621	
🗄 💼 Resources		127		Target line		Line 127	621	
🖻 🗁 Telephony		128		Target line		Line 128	621	
🗄 🛅 Global Settings		129		Target line		Line 129	621	
🗄 🛅 Sets		130		Target line		Line 130	621	
🖻 🗁 Lines		131		Target line		Line 131	621	
Active Physical Lines		132		Target line		Line 132	621	
Active VoIP Lines		133		Target line		Line 133	621	
Target Lines		134		Target line		Line 134	621	
Inactive Lines		135		Target line		Line 135	621	
All Lines		136		Target line		Line 136	621	
Oops		137		Target line		Line 137	621	
Scheduled Services		138		Target line		Line 138	621	
🗄 🛅 Dialing Plan		ľ —	~	- 1				
Ring Groups			Cop	У	Paste,	Renur	mber	)
🖻 🗁 Call Security								

- 3. Click on the **Renumber** button.
- 4. The **Line Renumber** dialog box appears. Select **Assign Target Lines** from the **Attribute** drop down list.



5. Enter the range of Target Lines to be assigned in the **Begin line number** and **End line number** fields, and the first DN to have the target lines sequentially assigned in the **DN begin value** fields.

A Line Renumbe	er 🔀
Attribute:	Assign Target lines 🗾
Begin line number:	125
End line number:	134
DN begin value:	241
	OK Cancel

6. Click **OK** to assign the Target Lines.

7. Select the Target Line and click on the **Assigned DNs** tab in the lower pane to view the Target Line assignments (per line basis).

	ines						
Line	△ Trun	к Туре	Name		Control Set	Line	e Type
125	Target line		Line 125	621		Public	6
126	Target line		Line 126	621		Public	6
127	arget line		Line 127	621		Public	6
128	Target line		Line 128	621		Public	6
129	Target line		Line 129	621		Public	6
C	ору	Paste	Renumb	oer			
Prefe	erence Assig	ined DNs					
		Appearance 1	Гуре		Appearances		Caller ID Se
 241	Appr&Ring	Appearance	Гуре		Appearances	1	Caller ID Se

#### **Renumbering Received Numbers**

The Renumber feature provides a quick and convenient method of assigning ranges of public and private received numbers to Target Lines.

Use the following procedure to assign received numbers to Target Lines using the Renumber feature.

- 1. Launch Element Manager and connect to the BCM.
- 2. In the **Configuration** tab, open the **Telephony** folder, followed by **Lines**, and click on **Target Lines**. (The following process could be performed in Active Physical Lines, Active VoIP Lines, Inactive Lines, and All Lines, but as this process only relates to Target Lines it is recommended to perform this from the Target Lines section.)



3. Click on the **Renumber** button.

4. The **Line Renumber** dialog box appears. Select either **Public receive number** or **Private receive number** from the **Attribute** drop down list, depending on whether received numbers are being configured for the public or private network.

🔼 Line Renumb	er <mark>X</mark>					
Attribute	Assign Target lines 📃					
Begin line number	Assign Target lines					
Fod line number	Public receive number					
Enu line number	Private receive number					
DN begin value.						
	OK Cancel					

5. Enter the range of Target Lines to be configured in the **Begin line number** and **End line number** fields, and the first received number to sequentially assign from in the **New begin value** field.

🔼 Line Renumb	er 🔀
Attribute:	Public receive number 💌
Begin line number:	125
End line number:	134
New begin value:	670621
(	OK Cancel

- 6. Click **OK** to assign the received numbers.
- 7. The assigned received numbers will be displayed.

Targett	lines					
Line	<ul> <li>Trunk Type</li> </ul>	Name	Control Set	Line Type	Prime Set	Pub. Received #
125	Target line	Line 125	621	Public	621	670621
126	Target line	Line 126	621	Public	621	670622
127	Target line	Line 127	621	Public	621	670623
128	Target line	Line 128	621	Public	621	670624
129	Target line	Line 129	621	Public	621	670625
130	Target line	Line 130	621	Public	621	670626
131	Target line	Line 131	621	Public	621	670627
132	Target line	Line 132	621	Public	621	670628
133	Target line	Line 133	621	Public	621	670629
134	Target line	Line 134	621	Public	621	670630
135	Target line	Line 135	621	Public	621	231

# **Avaya Documentation Links**

- Configuration System
- Configuration Devices
- Configuration Telephony