



System Programming

User Name: Supervisor
Password: visor

All programming for your BCM50 telephone system is performed through a program called **Element Manager**

This packet will guide you through:

1. Logging onto Element Manager
2. Logging off of Element Manager
3. Configure the Capabilities of telephones
4. Configure the Line Access of telephones
5. Configure System Speed Dials

Logging onto BCM50 Element Manager

Use the following steps to connect to your BCM50 once it is defined in the Element Manager:

1 On the Network Elements tree, select the element to which you wish to connect by selecting the IP address or element name as it appears in the Network Element tree.
Login fields appear in the Information panel.

2 Enter your log in credentials for the BCM50 to which you are trying to connect.

3 Perform one of the following tasks to connect to the BCM50:

- Click the **Connect** icon on the Icon toolbar
- Right-click on the IP address or element name and select **Connect**

The Element Manager attempts to connect to the selected element.

— If the connection is successful, Element Manager opens the Configuration and Administration tabs associated to the selected device.

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Logging Off of Element Manager

- 1 Click **Session** on the menu bar.
- 2 Select the IP address of the device you want to disconnect.
- 3 Select **Disconnect** from the list of tasks that are displayed.
- 4 Click **Yes** in the Confirmation dialog box to confirm the disconnect request.



Warning: Clicking the X box on the upper right corner causes the Element Manager application to close and all current sessions with BCM50 devices are terminated. Do not click on the X box to disconnect Element Manager from its current session.

Configuring telephones: Digital telephones

The following paths indicate where to configure digital telephones in Element Manager and through Telset Administration:

Configuring Capabilities and Preferences

The following paths indicate where to configure capabilities and preferences in Element Manager and through Telset Administration:

- Element Manager: *Configuration>Telephony>Sets>All DNs*

System DNs – Capabilities Tab

- 1 Select the field that you want to modify.
- 2 Prime Line: Enter the facility that you want the telephone to use if no line, line access code, or routing code is dialed before an outgoing dial string.
- 3 Intercom Keys: Confirm or change how many intercom keys you want the telephone to have. Default is 2.
Programming note: At least one intercom key must be defined to allow internal calls. Two intercom keys are recommended for conference calling. Model 7000 and 7100 telephones are automatically assigned two intercom keys, so users can alternate between two active calls.
- 4 Control Set: If the telephone uses any schedules other than the Normal schedule, ensure that a DN for a control set is entered.

5 First Display: Choose **Name** if you want the caller's name to be the first information displayed. Set this field to **Number** to display the caller's telephone number first, or to **Line**, to display the calling line number first.

6 Auto Called ID: Select the checkbox if you want the user to see the name and number display of the telephone they call.

To configure telephone capabilities

1 In the bottom frame, on the Capabilities tab, confirm or change how the telephone functions with system features.

2 Handsfree settings:

- Handsfree

Select the setting that is appropriate for the type of telephone.

- HF answerback

Select the checkbox only if the telephone allows handsfree, and is in an environment where speakers do not cause disruption.

3 Page settings:

- Page zone

If you have various areas that receive different page announcements, place the telephone in the appropriate zone.

- Paging

Select the checkbox if the telephone can send or receive page messages.

Programming note: Telephones without speakers, such as models 7000 and 7100, allow page messages to be sent, but not to be received.

4 Interrupting calls:

- DND on Busy

Select the checkbox if you want the caller to receive a Do Not Disturb message when the telephone is busy. Ensure this feature is selected, when the Fwd Busy field has a value.

- Priority call

Select the checkbox if you want the user to be able to forward calls that alert at the telephone where the call was forwarded, even when that telephone is busy.

- Intrusion protection level

Select an intrusion level if you want the user to be able to break into calls on other telephones. The intrusion level must be the same or higher than the telephone being interrupted.

5 Auto hold

Select the checkbox if you want calls coming into the telephone to be placed on hold automatically when the user answers another call, or dials out while an incoming call is active.

6 Redirect settings:

- Allow redirect

Select the checkbox if you want the user to be able to redirect active lines to other telephones.

- Redirect ring

Select the checkbox if you want calls coming into a redirected line to give a short alert.

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7 Receive short tones

Do not select this for digital telephones.

8 Administrative capabilities:

- Pickup group

If you want to allow this telephone to be answered by other telephones in a defined group, choose the appropriate group. Otherwise, leave the setting at None.

- Direct dial

Select the direct dial telephone assignment that you want this telephone to be able to dial with one digit (direct dial access code).

- Silent monitor supervisor

Select this checkbox to enable the telephone to monitor hunt group calls.

Configuring Line Access

- Element Manager: *Configuration > Telephony > Sets > All DNs*

System DNs - Line Access tab

To assign a line to a telephone

1 Select the line listing the appropriate DN for the telephone.

2 Select the field that you want to modify.

3 Name: Enter a name that identifies the user or the location (maximum of seven digits).

4 Pub. OLI: Enter or confirm the number that displays at the far end for calls going out over the public network (only on digital and VoIP trunks).

5 Priv. OLI: Enter or confirm the number that displays at the far end for calls going over the private network. This number is usually the same as the DN (only on digital and VoIP trunks).

6 Fwd No Answer: Enter the number of the device that receives calls when this telephone does not answer. The device can be another telephone or a voice mail service.

7 Fwd Delay: Confirm or change the number of rings you want to occur at the telephone before a call is forwarded. (Default: 4).

8 Fwd Busy: Enter the number of the device you want to receive calls when this telephone is busy. This can be another telephone or a voice mail service.

9 Fwd All: Enter the number of the device where all calls to this telephone are forwarded.

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Line Assignment and Line Pools

To add line assignments

1 In the Line Assignment panel, click **Add** to add line assignments for the telephone.

2 Determine how the line behaves at the telephone.

- Appearance Type
- Appearances (target lines)
- Caller ID Set (target lines)
- Vmsg Set
- Priv. Received #
- Pub. Received #

3 Click the Line Pool Access tab.

4 Use the **Add** button to add line pools for the telephone.

5 Click the Answer DN's tab.

6 Use the **Add** button to add a maximum of eight Answer DN's to the telephone.

Programming note:

- If the telephone does not have any buttons with indicators available to provide an Answer DN appearance, ensure that **Appearance Type** is set to Ring only.
- Answer DN's, which are assigned to buttons, can also be used to autodial that telephone.

Configuring system speed dial numbers

System speed dial codes are assigned to external numbers. You can use then the two- or three-digit code to dial the number, or assign the code to a memory button, instead of dialing the entire string.

These assignments are the same for all users in the system.

The following paths indicate where to access system speed dial programming in Element Manager and through Telset Administration:

- Element Manager: *Telephony>Global Settings>System Speed Dial*

System Speed Dial panel

This panel allows you to determine the number of speed dial codes on the system, and what each code dials.

System Speed Dial

Number of speed dials: CLID match length:

System Speed Dials

Speed Dial Number	External Number	Facility	Display	Name	Bypass Restrictions
001		N/A	N/A	N/A	<input type="checkbox"/>
002		N/A	N/A	N/A	<input type="checkbox"/>
003		N/A	N/A	N/A	<input type="checkbox"/>
004		N/A	N/A	N/A	<input type="checkbox"/>
005		N/A	N/A	N/A	<input type="checkbox"/>
006		N/A	N/A	N/A	<input type="checkbox"/>
007		N/A	N/A	N/A	<input type="checkbox"/>
008		N/A	N/A	N/A	<input type="checkbox"/>
009		N/A	N/A	N/A	<input type="checkbox"/>
010		N/A	N/A	N/A	<input type="checkbox"/>

Attribute	Values	Description
Number of speed dials	70 255	Choose the number of speed dial codes you want available to your system users. If you are using alpha tagging, you can choose the larger list to accommodate your incoming call requirements. Also refer to "Using alpha tagging for name display (incoming)" BCM50 Networking Configuration Guide (N0027156)
CLID match length	3 - 8 None	Default: 8 Indicate the number of digits, starting from the right of the dial string, that the system needs to match between an incoming call and a system speed dial listing to prompt the alpha tagging display. When a match is made, the system provides a name or number display for any calls coming in over analog lines that allow number CLID. Also refer to "Using alpha tagging for name display (incoming)" BCM50 Networking Configuration Guide (N0027156) .
Speed dial table:		
Speed Dial Number	<001-070 or 001-255>	Displays dial codes for the System Speed Dial list.
External Number	<dial string (max. 24 digits)>	Displays the number the system dials when the code is entered. Remember to include required destination codes.

Facility	Use prime line Use line Pool code Use routing table	Select the route you want the dialed number to remove from your system. Note: Any lines or pool codes that you specify must be assigned to the telephone where the code is entered. If you choose prime line, a prime line must be assigned to the telephone where the code is entered. Refer to "Line Access tab" on page 75 .
Display	Digits, Name	Digits = the speed dial number displays Name = the first 16 characters of the name defined for the speed dial displays
Name	<alphanumeric>	Enter a descriptive name for the owner or business code dials. Note: For alpha tagging, this is the name that the system displays if there is a number match with an incoming call.
Bypass restrictions	<checkbox>	Disabled = the dialed number uses the line and set restrictions Enabled = the dialed number bypasses any line and set restrictions