

Using the Device Manager

The chapter explains how to use the Device Manager and contains the following sections:

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Overview

Device Manager displays the At a Glance page after securely connecting to the CGR 1000. From this page, you can perform the following tasks as determined by your assigned role. (See Role-based Access Control, page 1-4.)

- **Test Connectivity:** Verify access to a device (IP address) from the CGR 1000 by using ping to check link connectivity and quality, and initiate a traceroute for an inaccessible IP address. (See Test Connectivity, page 3-12.)
- **Manage Interfaces**: Bring up or shut down an CGR 1000 interface, view details for an interface, and reload a module. (See Manage Interfaces, page 3-17.)
- **Change Configuration:** Update the CGR 1000 configuration with a provided configuration file, and then reboot the router with the new configuration. (See Change Configuration, page 3-22.)
- Update Image: Upload a copy of a software image onto the CGR 1000 for immediate installation or for a deferred update of the image. (See Update Image, page 3-25.)
- Retrieve Report: Download and view the CGR 1000 system logs. (See Retrieve Report, page 3-27.)
- **Manage Modules:** Add and Remove Modules from the CGR 1000 by employing a wizard that guides you through the process. (See Manage Modules, page 3-28.)

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• Advanced Command: Provides a console-like interface to troubleshoot the CGR 1000 by using CLI commands. Supported queries include verifying the system time, viewing the current router configuration, saving the current configuration, viewing the current file directory, rebooting the router, or saving the window output to a file. (See Advanced Command, page 3-33.)



Figure 3-1 At a Glance Page for the CGR 1240

The CGR 1000 image that appears on the left side of the At a Glance page provides a view of the CGR 1000 router to which the Device Manager connects. The CGR 1000 image also displays the Connected Grid Modules installed, as well as LEDs that indicate if the modules are operating. You can also view interfaces, available module slots, and other information. The information can be refreshed at any time by clicking the Refresh icon, located on the bottom right-hand corner of the page.

How to Use the Device Manager

Following are a few examples of how to use the Device Manager:

- Devices connected to a CGR 1000 cannot be reached. Start the Device Manager, connect to the router, and then check connectivity to the device. (See Test Connectivity, page 3-12.)
 - When you reconnect to the devices, review the CGR 1000 configuration information. (See Advanced Command, page 3-33.)

- When the configuration information is incorrect, you can update the configuration (see Update Configuration, page 3-24) by adding a configuration file to the Device Manager and then updating the CGR 1000 configuration. After you update the configuration (see Advanced Command, page 3-33) the router automatically resets and restarts with the new configuration.
- A software image update must be uploaded and installed on the CGR 1000. Start the Device Manager, upload the new image file, and then update the router with the new image. The router automatically restarts after you update the software image. (See Update Image, page 3-25.)
- Newly deployed CGR 1000s do not appear in the back-end system. Start the Device Manager and review the router graphic on the At a Glance page. Check the installed modules and their LEDs to verify their operation. When the LEDs are not flashing, check the installation status of the modules. Refer to the configuration guide for the module. (See www.cisco.com/go/cgr1000-docs.)
- (CGR 1240 Only) The door of the CGR 1240 is open. Start the Device Manager and check the status of the door (bottom of the At a Glance page). When the door status indicates a status of *System Casing Open*, you must physically access the CGR 1240 to verify the status of the door. After closing the door, click the Refresh icon (bottom right) on the Device Manager and verify that the door status displays *System Casing Closed*.
- A WiMAX module is being added to a CGR 1240. Start the Device Manager and navigate to the At a Glance > Manage Module page. (See Manage Modules, page 3-28.)
- When there are issues related to WiMAX connectivity, (for instance, after a storm, the WiMAX antenna may not be pointing in the right direction, which can cause RSSI/CINR values to drop), you can use the information on the WiMAX Module Activity page to help troubleshoot the issue. If the issue involves a directional antenna, you can change the direction of the antenna and watch RSSI/CINR values change accordingly. (See View Details for an Interface, page 3-20.)
- A WiMAX module needs to be reloaded in the event of a hardware failure, hang or crash. (See Reload a Module, page 3-22.)

Connect to the CGR 1000

You can connect to a CGR 1000 by either Ethernet or WiFi. WiFi connectivity ensures data traffic between the Device Manager and the router are protected by WPA Layer 2 security, once the association and key handshake are complete. The Ethernet connection is secured by HTTPS only.

Connect to the Device Manager by employing one of the following methods:

- Auto Discovered IPv6 address (preferred method for the field)
- IPv4 address (such as 128.128.128.128)
- IPv6 address (such as fe80::d81f:6402:2ae4:4ea8)

Follow these steps to start the Device Manager:

Step 1 After installing the Device Manager on your laptop, double-click on the Cisco CGD Manager icon on your Desktop, or select Start > All Programs > Cisco CGD Manager.

The application opens the Connect to the Router page.

🗱 Cisco Connected Grid Device Manager			
	-		
	Conne	ect to the Router	
	Connect	Over WiFi 🔹	
	SSID	BigMaple	
	Passphrase	****	
	Address	128.107.154.222	
		Auto Discover IP Address	
		Connect >	
alada			
CISCO. Copyright 2012 Cisco Systems, Inc. All Rights Reserved			*

- Step 2 On the Connect to the Router page, select the connection method: Ethernet, WiFi, Auto Detect.
 - (WiFi only) Enter the SSID and Passphrase.
 - Enter the router IP address, or select the checkbox to auto-discover the IP address.

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- **Note** To Auto Discover an IPv6 address, the laptop running Device Manager must be directly connected to the CGR 1000 via Ethernet or WiFi. By design, the Auto Discover function works when there is only one active router within the same network.
- **Step 3** On the Connect to the Router page, do one of the following:
 - To set or modify the operating mode (non-NMS or NMS mode) of the Device Manager, click the Settings icon on the bottom-right of the Router page. Non-NMS is the default setting.

The Setup Wizard appears. Proceed to Setting Operating Mode.

• To connect to the router to query the router details (after you set the operating mode), click either **Connect** (non-NMS mode) or **Connect to the Router** (NMS mode).

The At a Glance page appears. Proceed to Performing Tasks on the Router.



If you have problems connecting to the Device Manager, refer to Chapter 4, "Troubleshooting" for troubleshooting suggestions.

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Setting Operating Mode

The operating mode of the Device Manager determines what tasks you can access and view from the Device Manager and how it interacts with systems within the Connected Grid network field deployment. (See Performing Tasks on the Router.)

You can configure the Device Manager to operate in one of the following modes:

NMS Mode–When you have a CG-NMS operating in the network, you can connect to that system with the Device Manager to download and update work authorizations. Work authorizations allow the Device Manager to view status and perform tasks on the CGR 1000. To operate in conjunction with a CG-NMS system, configure the Device Manager to operate in NMS-mode.

Non-NMS Mode–When you do not have a CG-NMS operating in the network or do not want to connect to that system, configure the Device Manager to operate in non-NMS mode. In this case, you connect directly to a CGR 1000 by either WiFi (with valid SSID and passphrase) or Ethernet to view status and perform tasks on the CGR 1000.

Follow these steps to configure the Device Manager operating mode:

Step 1 On the Setup Wizard page, select one of the following options:

SETUP WIZARD

- To have the Device Manager connect to the Router only (non-NMS mode), select the No radio button, and then click Next. Proceed to Step 2.
- ٠ To have the Device Manager operate in conjunction with a CG-NMS system (NMS mode), select the Yes radio button, and then click Next. Proceed to Step 3.

No Cancel Next

Step 2 (Non-NMS mode) On the Certificate Configuration page, review the Common Name and the certificate details for accuracy and do the following:



SETUP WIZARD	Certificate Cor Rectangular Snip 🧐 Change Certi	nfiguration
	Common Name Issuer Name Serial Number Effective Date	ConnGridDevMgr nms-NMS-SGBU-DC-CA 4e:ba:23:85:00:02:00:00:02:9f Mon Mar 26 20:58:47 2012
E	Cancel	Next ->

- To accept the current certificate, click Next. Proceed to b.
- To select a different certificate, click Change Certificate. Proceed to Import Certificates.
- To exit the Setup Wizard, click Cancel.

SETUP WIZARD		
	Connect Configuration Service Port 8443	
	Cancel	Next 🛶

- **a.** On the Connect Configuration page, confirm the Service Port and click Next.
- **b.** On the Setup Completed page, click **Confirm**.



- c. On the Connect to the Router page that appears, click Connect.The At a Glance page appears. Proceed to Performing Tasks on the Router.
- **Step 3** (CG-NMS mode) On the NMS Configuration page, do the following:

SETUP WIZARD		
	NMS Configura	ation
20	NMS Address	https://172.27.126.22/nbapi/workorder
6 5 5	NMS Namespace	http://workorder.nbapi.cgms.cisco.com/
	NMS Username	samahab1
	NMS Password	*****
	Cancel	Next 🔿

- **a.** Enter the NMS address (IP address), NMS Namespace, NMS Username and NMS Password for the CG-NMS application server, and then click **Next**.
- **b.** On the Certificate Configuration page, review the certificate details, and do one of the following:

SETUP WIZARD	Certificate Con	nfiguration
C	S Change Certi	ficate
50	Common Name	ConnGridDevMgr
	Issuer Name	nms-NMS-SGBU-DC-CA
	Serial Number	4e:ba:23:85:00:02:00:00:02:9f
	Effective Date	Mon Mar 26 20:58:47 2012
	Expire Date	Wed Mar 26 20:58:47 2014
	Cancel	Next 🛶

- To accept the current certificate, click Next. Proceed to c.
- To select a different certificate, click Change Certificate. Proceed to Import Certificates.
- To exit the Setup Wizard, click Cancel.
- c. On the Connect Configuration page, confirm the Service Port and click Next.

SETUP WIZARD		
57.83	Connect Configuration Service Port 8443	
3	Cancel	Next →

d. On the Setup Completed page, click Confirm.



e. On the Work Authorization page that appears, click **Confirm**. Proceed to Accessing Work Authorizations.

Accessing Work Authorizations

The Device Manager must be operating in the NMS mode for you to view and download work orders from the CG-NMS to the Work Authorization page. (See Setting Operating Mode.)

The Work Authorization page is the opening page of the Device Manager when operating in NMS mode.

Whenever work or direct inspection of a CGR 1000 is necessary by a field technician, an admin generates a work order on the CG-NMS. Work orders include encrypted WiFi credentials necessary for the technician to connect to the router. In most cases, a work order requires a user with an assigned user role of technician (tech) to access and update the work order. However, a user with a viewer role can retrieve status on a CGR 1000 but not perform tasks on the router.

Each work order has an expected start and end date, which is noted in the Work Details summary (right pane) along with user role and user name and the current state of the work order: New (N), Complete (C), Incomplete (I), or Expired (E).

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Cisco Connected Gri	id Device Man	ager	150	Nork A	uthor	ization	TPYL			
Ũ	SYNCHRO	NIZE								
	🔹 vo:	ILU00100	54 days, 2 hours left	C		WORK DET	AILS			
•	O RSI	UGY01101	54 days, 2 hours left	N	_					
•	O KG	SEY04200	54 days, 2 hours left	N		Work Status	Complete		×	
	IAI	JUE01010	54 days, 2 hours left	N		Work Number	VOILUOD1	N	New	
	SO	KO122030	54 days, 2 hours left	N	E	Device ID User Role	CGR1240/ admin		Incomplete	
	👽 UIZ	TA28280	Expired	C		User Name Start Date	samahab1 Mon Sep 17	7 17:00	0:00 2012	
	🗘 QR	EGR21202	Expired	C		End Date	Tue Nov 13	16:00:	:00 2012	
		DEK12011	Expired			cor	NECT TO TH	IE RO	UTER	
	🗘 LKF	-CK00005	Expired	E			NNECTION	WEDD	DIDE	
	🗘 DUS	SDE20212	Expired	E			MAECITON	JVEKR		
	: 2012 Cisco Svs	tems, Inc. All Rink	nts Reserved		Ŧ					¢

This section covers the following topics:

- Enabling Feature on Router
- Downloading Work Authorizations
- Viewing Work Details
- Updating Work Details

 \mathcal{P} Tip

To perform additional tasks on the router, click **Connect to the Router** on the Work Authorization page to launch the At a Glance page. (See Performing Tasks on the Router.)

Enabling Feature on Router

The following commands must be entered on the CGR 1000 to support communication between the Device Manager and the router when Work Authorization is in use:

```
router# configure terminal
router (config)# cgdm
router (config-cgdm)# command authorization enable
```

Downloading Work Authorizations

To download the latest work orders from CG-NMS and upload new status of the work orders to CG-NMS, click **Synchronize** on the Work Authorization page.

Viewing Work Details

The Work Number in the Work Details section (right pane) corresponds to an existing work order within a Utility management or operations system that the technician can access to get additional details on the work order.

Generally, a technician synchronizes with the CG-NMS at the beginning of the day to download work orders before heading to the field and then again at the end of the day when back at the office to update CG-NMS with the changes.

To view work order details, do the following:

- **Step 1** On the Work Authorization page, click a work order (left pane).
- **Step 2** Using the Work Number that appears (left pane), locate the specific work details from the appropriate system and then do one of the following:
 - When you complete the work order, select **Complete** from the Work Status drop-down menu.
 - When you are not able to complete the work order, select **Incomplete** from the Work Status drop-down menu.

The work order (left pane) reflects the status change.

Step 3 When connected to CG-NMS, click Synchronize to update the CG-NMS.

After synchronization with the CG-NMS, all Completed, Incomplete, and Expired work orders are removed from the Device Manager display.

Updating Work Details

A work order has four possible states: New (N), Complete (C), Incomplete (I), or Expired (E). To update the status of a work order, do the following:

- Step 1 On the Work Authorization page, select the Work Status drop-down menu (right pane).
- **Step 2** Select the current state of the work order.

The Work Authorization page reflects the new state of the work order (left pane).

Step 3 To update the CG-NMS database with this change, click Synchronize.

Performing Tasks on the Router

The At a Glance page appears after you click **Connect** from the Connect to the Router page (Non-NMS mode) or click **Connect to the Router** from the Work Authorization page (NMS mode).



Listed below are all the possible tasks that a user can perform. However, your assigned role determines which tasks you can access. The Device Manager displays or restricts tasks based on your assigned role (or roles). The above At a Glance view represents an Admin role. (See Role-based Access Control.)

- Troubleshoot connectivity between a CGR 1000 and the devices connected to the router. (See Test Connectivity, page 3-12.)
- Bring up or shut down a CGR 1000 interface. (See Manage Interfaces, page 3-17.)
- Check and update the current CGR 1000 configuration.

(See Change Configuration, page 3-22 and Advanced Command, page 3-33.)

- Upload and/or update the CGR 1000 image and reset the router. (See Update Image, page 3-25.)
- View real-time CGR 1000 configuration log for troubleshooting. (See Retrieve Report, page 3-27.)
- Add and Remove Modules from the CGR 1000 by employing a wizard that guides you through the process. (See Manage Modules, page 3-28.)
- View module activity and reload a module (See View Details for an Interface, page 3-20 and Reload a Module, page 3-22.)
- Use advanced commands to troubleshoot the CGR 1000. (See Advanced Command, page 3-33.)

Test Connectivity

The Test Connectivity task allows you to confirm connectivity to a device from the CGR 1000.

<u>}</u> Tip

Before you can check a device connection or route to a CGR 1000, you must add the IPv4 or IPv6 address of the device to the Device Manager.

📓 Cisco Connecto	ed Grid Device	e Manager						□ X
Connection			Test Co	nnectivity				
	Ŷ	Click Add to Create Target IPv4 or IPv6 of target address		?				
					\bigcirc	Ping Target Test router connectivity to the	e selected target	
					N	Trace Route	o the selected target	$\mathbf{\tilde{\mathbf{D}}}$
*								
5								
		_						
			Remove	Add				
ulu CIS	() CO.	Name Altamont-D91 Version build 5.2(1)CG2(0.187) Model CGR1240/K9 Serial JSJ1538000R	Door Battery Storage	System Casing (Backup Not Pres 829 MB used /	Opened sent 1014 MB to	Connection Certificate	Ethernet Installed Administrator	C

This section covers the following topics:

- Add a Device IP Address
- Ping a Device IP Address
- Trace Route a Device IP Address
- Remove a Device IP Address

Add a Device IP Address

Follow these steps to add a device IP address:

Step 1 From the At a Glance page, click Test Connectivity. The Test Connectivity page displays the defined sample devices and/or target addresses.
Step 2 Click Add to create a target IP address. 345607

Add Target		R
	Target Description	
Cancel		Save

- **Step 3** In the Target Description field, enter a description for the device.
- Step 4 In the Target IP Address field, enter the IP address (IPv4 or IPv6) of the device.
- Step 5 Click OK.You can now test the connectivity to the device you just added to the Device Manager.

Ping a Device IP Address

The Ping feature allows you to verify connectivity to a device by querying the target IP address. Follow these steps to test connectivity between the CGR 1000 and the device:

Step 1 On the Test Connectivity page, click on a target IP address from the listing on the page (left pane).

Step 2 Click Ping Target.

The In Progress dialog box appears.



When the system successfully pings the device, the Target Reached dialog box appears. If the system does not successfully ping a device, refer to Failed Ping, page 3-15.

Ping Target				
	Targ	et Reache	ed	
	Target	128.107.154.1		
	Status	Task Completed		
Details			E	xit

Step 3 Click Details to view details or click Exit to close the window.

Failed Ping

Follow these steps if the ping of the target IP address is unsuccessful:

Step 1 In the Failed to Reach dialog box, click **Details** to view the reason the system could not reach the IP address.

Ping Target	
	Failed to Reach
	Target 128.107.155.67
	Status Task Completed
Details	Exit

Ping Target	
	Target Error
	Target invalid ip address
	Status Task Failed
	Invalid IP address
Details	Exit

Step 2In the Target Error dialog box, click Exit after reviewing the reason for the error.Proceed to Trace Route a Device IP Address, page 3-16.

Trace Route a Device IP Address

When an IP address cannot be reached using Ping, you can use the Trace Route feature to check the route taken to reach the device IP address.

Follow these steps to trace the route of the IP address:

- Step 1 On the Test Connectivity page, select the device IP address from the list.
- Step 2 Click Trace Route:

- If the trace route is successful, click **Exit** in the Trace Route dialog box.
- If the trace route is unsuccessful, proceed to Remove a Device IP Address, page 3-17.

Remove a Device IP Address

After you have tested a target IP address and verified its connectivity, you can remove the device entry from the Device Manager. You can also remove an IP address that the application identifies as incorrect during failed pings and trace route attempts.

Follow these steps to remove a target IP address:

- Step 1 On the Test Connectivity page, select the target IP address from the list.
- Step 2 Click Remove.

Manage Interfaces

You can bring up or shut down an interface on the Manage Interfaces page. You can also view details about a module's activity and reload a module from the Manage Interfaces page.

- When an interface is *up* (appears as green), the line protocol is currently active. When an interface is *down* (appears as red), it means the line protocol is not active.
- When an interface is administratively down (appears as gray), the line interface was taken down by the administrator.

All interfaces installed within the CGR 1000 display automatically.



This section covers the following topics:

- Bring Up an Interface
- Shut Down an Interface
- View Details for an Interface
- Reload a Module

Bring Up an Interface

When an interface is shut down for any reason, you can attempt to bring up the interface by doing the following:

- Step 1 From the At a Glance page, click Manage Interfaces.
- **Step 2** On the Manage Interfaces page, select an interface and then click **Bring Up Interface**.

The In Progress message appears. When the interface is up, the Interface Up dialog box appears.

Bring Up Inter	face	
478.	In Progress	
4.84	Target Serial 1/1	
	Status Task Pending	
	Refreshing Interfaces	

Bring Up Inter	ace		
	Interfac	e Up	
	Target Serial	1/1	
	Status Task (Completed	
		Exit	

Shut Down an Interface

Do not shut down the interface on which the Device Manager communicates with the CGR 1000 or the connection will be lost.
Follow these steps to shut down an interface:
From the At a Glance page, click Manage Interfaces
Troin the At a Granee page, enex Manage Interfaces.
On the Manage Interfaces page, select an interface and then click Shut Down .
On the Manage Interfaces page, select an interface and then click Shut Down . The In Progress message appears. When the process completes, the Interface Down dialog box appears.

Shut Down In	terface	
.476	In Progress	
A AN	Target Serial 1/1	
	Status Task Pending	
	Refreshing Interfaces	

wn Interface	Shut Down Inte
Interface Down	
Target Serial 1/1	
Status Task Completed	
Exit	
Target Serial 1/1 Status Task Completed Exit	

View Details for an Interface

The View Details feature allows you to display information for the selected interface and related module, including interface status, model number, MAC and IP addresses, and dynamic statistics. The information is updated every 10 seconds.



In this release, details are available for the WiMAX module only.

Follow these steps to view details for a module:

Step 1 From the At a Glance page, click **Manage Interfaces**.

Step 2 On the Manage Interfaces page, select an interface and then click View Details.The Module Activity page appears.

🕵 Cisco Connected Grid D	Device Manager v3.1.0.18	- modeling		
Connection		Manage Interfa	ces	
	MODULE ACTIVITY			×
n -	WIMAX	Property		
	CGM-WIMAX-1.8GHZ	Model	CGM-WIMAX-1.8GHZ	
	Module Placement	Mac Address	00a0.0ad2.0cb7	
		IP Address	172.20.4.174	
		Physical Layer State	Connected	
3.0		BSID	66:66:66:66:66	Ξ
		Frequency	1805000 kHz	
		Channel Bandwidth	10000 kHz	
	4 5	RSSI		
		-10		
		-20 -30 -40		
	Reload Module	-50 -60	71 dBm	
		-70 O OO -	0-0-0-0-0-0	
	A Data refreshed every 10 seconds			
		CINR		
	Updates	80		
		60 50		
المراب				-
cisci				Jator
	Senal JAPIOZOBLIMI			C

WiMAX Details

The following information is displayed for the WiMAX module:

- Slot in which module is inserted
- Model number
- MAC address
- IP address
- Physical layer state (indicates Connected, Disconnected, Scanning, or Authenticating)
- BSID (ID of the base station to which the WiMAX module is connected)
- Frequency of transmission of the WiMAX module
- Channel bandwidth (bandwidth supported by the WiMAX module)
- RSSI (Received Signal Strength Indication measured in dBm)
- CINR (Carrier to Interference Noise Ratio measured in dB. A higher value indicates better signal strength)
- Packets in (number of incoming packets)
- Packets out (number of outgoing packets)

- DL Bad CRC Packets (number of bad packets during download ideally 0)
- Hardware version
- Board version

Reload a Module

Reloading a module shuts off power to the module then powers it on again.



In this release, the Reload Module feature is available for the WiMAX module only.

Follow these steps to reload a module:

- **Step 1** From the At a Glance page, click **Manage Interfaces**.
- Step 2 On the Manage Interfaces page, select an interface and then click View Details.The Module Activity page appears.

Step 3 Click Reload Module.

The message *Reloading module...* appears in the Updates area (bottom of left pane). When reloading is complete, the message *Module reloaded successfully* appears in the Updates area, and it takes 3-4 minutes for WiMAX module base station connectivity to be reestablished.

Change Configuration

The Change Configuration task allows you to upload a configuration file to the Device Manager and then use that file to update the configuration of the CGR 1000. The configuration file information must include version, username and password, Ethernet and WiFi interfaces, and Device Manager (CGDM) and IP HTTPS configurations.



The configuration file must be a complete and valid CGR 1000 configuration. When the configuration file contains missing fields, the Device Manager stops the file upload and warns that the configuration file is incomplete. When you receive an error while updating the configuration file, check the configuration file for missing information.



This section covers the following topics:

- Add a Configuration File
- Update Configuration
- Correct a Configuration File
- Remove Configuration File

Add a Configuration File

Follow these steps to add a configuration file to the Device Manager:

- Step 1 From the At a Glance page, click Change Configuration.
- Step 2 Click Add.

Add Configurat	ion	
	File Description	Browse
Cancel		Save

Step 3 In the Add Configuration dialog box:

- a. Enter a file description for the configuration file that you are going to upload.
- **b.** Click **Browse** to navigate to the configuration file location and select the file.
- c. Click Save.

Update Configuration

After uploading the configuration file to Device Manager, you can use the file to update the CGR 1000 configuration.

∕!∖ Caution

• Updating the configuration causes the router to reboot. All connections to the router are lost during the update. After this task starts, there is no way to cancel the event. Be careful when using this feature.

Follow these steps to update the configuration file on the CGR 1000:

Step 1 On the Change Configuration page, select the desired configuration file (left pane).

Step 2 Click Update Configuration.

- If a confirmation dialog box appears, click **Confirm** to verify that you would like to change the router configuration.
- If an error message appears, the file did not upload to the CGR 1000. Proceed to Correct a Configuration File.

Correct a Configuration File

A configuration file upload fails because the configuration file has missing fields such as version, username and password, Ethernet and WiFi interfaces, and Device Manager (CGDM) and IP HTTPS details.

To correct a configuration file error:

- **Step 1** Check the configuration file for errors. If errors or missing information exist, make corrections.
- **Step 2** Remove the current configuration file from the Device Manager. (See Remove Configuration File, page 3-25.)
- Step 3 Add the updated configuration file to Device Manager. (See Add a Configuration File.)
- **Step 4** Update the configuration file. (See Update Configuration.)

Remove Configuration File

After you update the CGR 1000 with the new configuration file, you can remove the file from Device Manager. You can also use this function to remove unwanted or duplicate configuration files.

Follow these steps to remove a configuration file:

- **Step 1** On the Change Configuration page, select the configuration file you want to remove from the list.
- Step 2 Click Remove.

Update Image

The CGR 1000 image bundle contains information that the router uses when starting up and operating. The information in the image contains information on FPGA, 3G, wireless drivers, and so on. The only acceptable file format for the Cisco CGR 1000 image file is a zip bundle, which contains a manifest file with information on versioning and files. Any missing files in the zip bundle cancels the update. You can find the official Cisco CGR 1000 zip bundle on Cisco.com.

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This section covers the following topics:

- Upload Image
- Replace Image
- Remove Image

Upload Image

Before you can update an image on the CGR 1000, you must upload the image to the Device Manager.

The Upload Image option allows you to upload and store a copy of a software image on the CGR 1000 without initiating an immediate image install. This capability allows operations personnel to use CG-NMS or a Utility management tool to install and reboot the CGR 1000 when network conditions allow.

Follow these steps to upload a image:

- Step 1 From the At a Glance page, click Update Image.
- **Step 2** On the Update Image page, select the CGR 1000 software image that you want to upload.

Note If the software image that you want to install on the CGR 1000 is not listed, click **Add** and browse to the image, and then click **OK** to upload the image.

Step 3 Click Upload Image.

The new image is stored on the CGR 1000 router until you are ready to replace the image on the router. (See Replace Image.)

Replace Image

Be careful when using this feature. After this tasks starts, there is no way to cancel the event. Updating the CGR 1000 software image might take awhile to complete and requires a reboot. All connections to the router will be unavailable during the image update.
Follow these steps to replace an image:
On the Update Image page, select an CGR 1000 image.
On the Update Image page, select an CGR 1000 image. Click Replace Image .
On the Update Image page, select an CGR 1000 image. Click Replace Image . A confirmation dialog box appears.
On the Update Image page, select an CGR 1000 image. Click Replace Image . A confirmation dialog box appears. To begin the replace image process, click Confirm .

Remove Image

After you update an image, you can remove the image file from the Device Manager. You can also use the Remove image option to remove a image file you added mistakenly.

Follow these steps to remove an image:

- **Step 1** On the Update Image page, select an CGR 1000 image.
- **Step 2** Click the **Remove** button (bottom of page).

Retrieve Report

You can retrieve real-time reports of log events from the CGR 1000 and view them on the Retrieve Report page or save the information to a *.txt* file.

- You can specify that you want to retrieve and view all CGR 1000 log events (Retrieve All) or view a specified number of log events (200 or 1000)
- You can specify that you want to save a copy of the log events that display on the Retrieve Report page to your laptop (Save Report)

🔯 Cisco Connected	l Grid Device Manager v2.0.0.198	×
Connection	Retrieve Report	
	2012 Oct § 14:01:44 Altament-D91 WSHD-5- VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on localhost@sml.24161 2012 Oct § 14:02:00 Altament-D91 WUSER-3-SYSTEM_MSG: 1 dialer interface listed - van 2012 Oct § 14:09:37 Altament-D91 last message repeated 1 time 2012 Oct § 14:09:01 Altament-D91 WUSER-3-SYSTEM_MSG: 1 dialer interface listed - xmlas 2012 Oct 11 12:02:02 Altament-D91 WUSER-3-SYSTEM_MSG: 1 dialer interface listed - xmlas 2012 Oct 11 12:55:02 Altament-D91 WUSER-3-SYSTEM_MSG: 1 dialer interface listed - xmlas 2012 Oct 11 15:55:08 Altament-D91 WUSER-3-SYSTEM_MSG: 1 dialer interface listed - xmlas 2012 Oct 11 15:55:08 Altament-D91 last message repeated 1 time 2012 Oct 11 17:06:53 Altament-D91 last message repeated 1 time 2012 Oct 11 13:06:54 Altament-D91 last message repeated 1 time 2012 Oct 11 13:06:53 Altament-D91 last message repeated 1 time 2012 Oct 11 13:06:53 Altament-D91 last message repeated 1 time 2012 Oct 11 13:06:53 Altament-D91 last message repeated 1 time 2012 Oct 15 13:06:59 Altament-D91 last message repeated 1 time 2012 Oct 15 13:06:09 Altament-D91 last message repeated 1 time 2012 Oct 15 13:06:09 Altament-D91 last message repeated 1 time 2012 Oct 15 13:06:09 Altament-D91 last message repeated 1 time	
cisc	Name Altamont-D91 Door System Casing Opened Connection Ethernet Version build 5.2(1)CG2(0.187) Battery Battery Backup Not Present Certificate Installed Model CGR1240/K9 Storage Storage 829 MB used / 1014 MB total Authorization Administrator	C

Retrieve and Save Reports

Follow these steps to retrieve real-time reports from the CGR 1000:

- Step 1 From the At a Glance page, click Retrieve Report.
- **Step 2** On the Retrieve Report page, click the type of report that you want to view or save:
 - Retrieve Last 200–Displays the last 200 log events of the CGR 1000.
 - Retrieve Last 1000–Displays the last 1000 log events of the CGR 1000.
 - Retrieve All-Displays all current log events of the CGR 1000.
 - Save Report–Saves a copy of the retrieved log events (displayed on the page) to a default file, *systemlog.txt*. By default, the application saves this file in the Documents folder. However, you can specify the destination for the file. See SYSTEMLOG.TXT SAMPLE for example output.

Manage Modules

The Manage Modules page provides a wizard that guides you through the process of adding or removing 3G and WiMAX modules.

The Device Manager updates the configuration file and reloads the CGR 1000 after you add or remove a module.

The plus sign (+) indicates an available slot. The minus sign (-) indicates an occupied slot.



This section covers the following topics:

- Add a Module
- Remove a Module



- For details on opening the chassis door of the CGR 1240, please refer to the "Opening the Router Chassis" chapter in the *Cisco 1240 Connected Grid Router Hardware Installation Guide* at: www.cisco.com/go/cgr1000-docs
- For details on installing a specific module, refer to the Installation and Configuration Guide for that module at: www.cisco.com/go/cgr1000-docs

Add a Module



You cannot run any other operations when adding the module.

To add a module, do the following:

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Step 1On the Manage Modules page, click on a plus (+) sign in the router diagram (left pane) to get started.A blue outline appears around the slot in the router diagram to confirm selection, and a *Please wait*...

message appears on the page. Do not install the module until this message disappears from the page.

🔯 Cisco Conr	nected Grid Device Manager v3.0.0.225		
Connection	Mana	ge Modules	
	<image/>		ARNING Tare about to add a module
•1] CI	Name sg-calab-p3-4 Slot 1 Version build 5.2(1)CG4(0.48) Slot 4 ISCO. Model CGR1120/K9 Stora Serial JAF1619ARTK	CGM-3G-HSPA-AB-G Not Present ge 448 MB used / 1021 MB total	Connection Ethernet Certificate Installed Authorization Administrator

Step 2 After the *Please wait...*message disappears, insert the module into the physical slot of the router.



Step 3 Click Finish.

The following message appears on the page to indicate an update to the configuration file is in process: Inserting module into slot. This process will take several minutes. Please wait.

A green line appears around the slot within the router diagram when the module is active.

Step 4 After you successfully insert the module, click Refresh icon (lower-right corner).

A minus (-) sign appears in the slot where you added the module.

Remove a Module

~ A	
Note	Before starting the removal process, ensure that no traffic is active or destined for the module. You cannot run any other operations when removing a module.
	To remove a module, do the following:
Step 1	On the Manage Modules page, click on a module slot within the Info area (right pane) that corresponds to the location of the module that you want to remove. Populated slots display a minus sign (-).
	A blue outline appears around the slot in the router diagram to confirm selection, and a Warning message appears stating that you are about to remove a module.
Step 2	To continue the removal, click Confirm .

The following message appears on the page: Preparing slot for removal. Please wait.

<u>A</u> Caution

Do not physically remove the module until a message prompts you to do so.





Step 3 When the Removing Module message appears, remove the module from the physical slot of the router.

Step 4 Click Finish.

The following message appears on the page to indicate an update to the configuration file is in process: *Removing module from slot. This process will take several minutes. Please wait.*

Step 5 When the configuration update completes, a success message appears.

A plus (+) sign now appears in the slot where you physically removed the module indicating an empty slot.

Advanced Command

The Advanced Command task provides access to the CGR 1000 to fine-tune or troubleshoot the router. You must be familiar with Cisco CG-OS commands. For details on supported commands, refer to the CGR 1000 software configuration guides at: www.cisco.com/go/cgr1000-docs

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n				Advance	d Commar	nd	
	Altamo:	nt-D91‡ sh	ow running				Custom Time
	!Comma: !Time:	nd: show r Mon Oct 1	unning-config 5 13:48:40 2012			U	Show system router clock
	versio	n 5.2(1)CG	2(1)				
	powero	ff module	4		=	<u>्</u> र्	Show Configuration
	powero	ff module	5			10	Show system current configuration
	powero	ff module	6				Show System current coningulation
	hostna	me Altamon	t-D91			120	Save Configuration
	limi	t-resource	vlan minimum 16 maximum	4094		211	Save configuration
	limi	t-resource	vrf minimum 2 maximum 4	096			Save router current configuration
	limi	t-resource	u4route-mem minimum 9 m	aximum 9 mawimum 34			
	limi	t-resource	m4route-mem minimum 58	maximum 58			File Directory
	limi	t-resource	m6route-mem minimum 8 m	aximum 8			Show router file directory
	featur	e telnet					
	reatur	e C12221					Upload
	userna	me admin p	assword ******** role n	etwork-admin			Upload local file on to the router
	ip dom	ain-lookup	realishel CIECO medulus	2049	h1.		
	crypto	ca trustp	oint CISCO	2048 exports	DIE	· ·	
	r	sakeypair	CISCO 2048			<u></u>	Reboot
	snmp-s	evocation- erver user	check crl admin network-admin aut	h md5 ******	* priv		Reboot router
		** localiz	edkey				
						_ ∎]	Save Output
	Enter	Command			Enter		Save window output to file
	LINCI	Command					
				_			
		Name	Altamont-D91	Door	System Casir	ng Opened	Connection Ethernet
111	11	Version	build 5.2(1)CG2(0.187)	Battery	Backup Not I	Present	Certificate Installed
SCI	0	Model	CGR1240/K9	Storage	829 MB used	/ 1014 MB to	tal 🗧 Authorization Administrator

Note

Not all interactive commands are supported. Configuration commands must be concatenated together, as follows: configuration terminal ; interface ethernet2/1 ; shutdown ; end

Step 1 From the At a Glance page, click **Advanced Command**. In addition to the advance console, you have the following choices:

- Click System Time to display the current setting of the system clock for the router.
- Click Show Configuration to display the current configuration of the router.
- Click Save Configuration to save the current router configuration to startup-config file.
- Click File Directory to display the router file directory.
- Click Upload to upload a new image file to the router.
- Click **Reboot** to reboot the router.
- Click **Save Output** to save the output displayed on the page to a file, *windowslog.txt*. By default, the application saves the *windowslog.txt* file to the Documents folder. (See WINDOWSLOG.TXT SAMPLE, page 3-36.)

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Import Certificates

As admin, you can import certificates through the Device Manager by employing the Setup wizard or by command line. You will need to know the path to the certificate (.pfx) and the certificate password. The certificate password is created when the .pfx file is created. Generally, the admin downloads the .pfx file onto the Device Manager laptop.

The Setup wizard launches when either the user clicks the Settings icon on the opening page of the Device Manager or when the application does not detect a certificate.

To open the Import Certificate page, do the following:

Step 1 Step through the Setup wizard until you reach the Certificate Configuration page by clicking **Next** on each page. (See Setting Operating Mode.)

You do not need to change any values on the pages as you move through the pages.

Step 2 On the Certificate Configuration page, click Change Certificate.

The Import Certificate page appears.

Import Certificate

	Browse
Certificate Password	

Step 3 On the Certificate Configuration page, browse to the location of the certificate file (.pfx) on your laptop.Step 4 Enter the certificate password and then click Import.

Disconnect from the CGR 1000

After finishing your work on the CGR 1000, click **Connection** (upper-left) to disconnect the Device Manager from the router. The application opens the Connect to the Router page.

Connection Override

You only use the Connection Override option when you need to use different login information than that provided in the work order.

For example, the SSID or Passphrase for a WiFi connection might have changed since the work order was first created, but a new work order was not issued. In this case, the field technician might call the admin for that information and use Connection Override to enter that new information to log in to the router.

Optionally, the field technician can directly connect to the router by using the Over Ethernet option with the Auto Discover IP address option.

To change the login information, do the following:

Step 1 On the Work Authorization page, click Connection Override.

Connection Overr	ide	
	Connect	Over Ethernet 🗸
	SSID	
	Passphrase	
	Address	
		V Auto Discover IP Address
Cancel		Connect >

Step 2 In the Connection Override dialog box, select the connection type (Over Ethernet, Over WiFi, or Auto Detect) from the Connect drop-down menu.

Step 3 Click Connect.

Example Log File Output

This section contains output examples for files generated from the Retrieve Report and Advanced Command pages of the Device Manager.

WINDOWSLOG.TXT SAMPLE

The following example represents typical content that might be found in the *windowslog.txt* file generated from the Advanced Command page.

CGR-1# show clock 15:13:37.311 PST Tue Oct 16 2012

```
CGR-1# show running
!Command: show running-config
!Time: Tue Oct 16 15:13:38 2012
version 5.2(1)CG3(1)
logging level feature-mgr 0
hostname CGR-1
vdc CGR-1 id 1
  limit-resource vlan minimum 16 maximum 4094
  limit-resource vrf minimum 2 maximum 4096
  limit-resource u4route-mem minimum 9 maximum 9
  limit-resource u6route-mem minimum 24 maximum 24
  limit-resource m4route-mem minimum 58 maximum 58
  limit-resource m6route-mem minimum 8 maximum 8
feature telnet
feature crypto ike
crypto ike domain ipsec
  policy 10
    group 1
  identity hostname
feature ospf
feature tunnel
feature crypto ipsec virtual-tunnel
feature c1222r
username admin password *** <fingerprint value> role network-admin
no password strength-check
ip domain-lookup
ip host nms.cisco.com 192.168.193.11
crypto key param rsa label Blue modulus 2048
crypto ca trustpoint Blue
     enrollment profile Blue
     rsakeypair Blue 2048
     revocation-check none
     enrollment retry count 3
     enrollment retry period 5
     serial-number
     fingerprint <fingerprint value>
crypto ca profile enrollment Blue
     enrollment url http://10.0.2.2:80
ip access-list ce-traffic
  statistics per-entry
  10 permit tcp any any eq 1153
class-map type qos match-all ce-traffic
  match access-group name ce-traffic
policy-map type qos ce-traffic
  class ce-traffic
    set dscp 46
snmp-server user admin network-admin auth md5 <value> priv <value> localizedkey
rmon event 1 log trap public description FATAL(1) owner PMON@FATAL
rmon event 2 log trap public description CRITICAL(2) owner PMON@CRITICAL
rmon event 3 log trap public description ERROR(3) owner PMON@ERROR
rmon event 4 log trap public description WARNING(4) owner PMON@WARNING
rmon event 5 log trap public description INFORMATION(5) owner PMON@INFO
callhome
  email-contact root@localhost
  phone-contact +1-000-000-0000
  streetaddress a-street-address
  destination-profile nms
  destination-profile nms format netconf
  destination-profile nms transport-method http
```

```
destination-profile nms http https://nms.cisco.com:9121 trustpoint Blue
  destination-profile nms alert-group all
  enable
vrf context management
crypto ipsec transform-set trans1 esp-aes 128 esp-sha1-hmac
crypto ipsec profile MyIPSecProfile
  set transform-set trans1
vlan 1
route-map CONN permit 10
 match interface loopback0
chat-script gsm PROFILE1
wimax scan-list airspan2344
  channel index 1 frequency 2344000 bandwidth 10000
  nap id C1:5C:00 priority 1 channel-index 1
  nsp id C1:5C:00 home
wifi ssid CGDM
  authentication key-management wpa2
  wpa2-psk ascii encrypted 7 1234567890
interface Tunnel1
  ip address 20.5.20.3/31
  tunnel source loopback0
  tunnel destination 20.2.10.1
  description GRE tunnel
  no keepalive
  no shutdown
interface Tunnel19
  ip address 20.4.20.2/24
  ip ospf cost 100
  ip ospf mtu-ignore
  ip router ospf 1 area 0.0.0.1
  tunnel mode ipsec ipv4
  tunnel source Wimax6/1
  tunnel destination 10.0.4.8
  description ipsec tunnel through wimax
  no keepalive
  tunnel protection ipsec profile MyIPSecProfile
  no shutdown
interface Tunnel20
  ip address 20.3.20.2/24
  ip ospf cost 200
  ip ospf mtu-ignore
  ip router ospf 1 area 0.0.0.1
  tunnel mode ipsec ipv4
  tunnel source Cellular3/1
  tunnel destination 173.36.248.197
  description ipsec tunnel through ATT 3G
  no keepalive
  tunnel protection ipsec profile MyIPSecProfile
  no shutdown
interface Tunnel21
  service-policy type qos output ce-traffic
  ip address 20.1.20.2/24
  ip ospf cost 300
  ip ospf mtu-ignore
  ip router ospf 1 area 0.0.0.1
  tunnel mode ipsec ipv4
```

```
tunnel destination 10.0.4.8
  description ipsec tunnel through E2/1
  no keepalive
  tunnel protection ipsec profile MyIPSecProfile
  no shutdown
interface Dialer1
  dialer persistent
  dialer pool 1
  dialer string gsm
  no shutdown
interface Ethernet2/1
  description ==sol-3750-1
  ip address 10.0.5.1/24
  no shutdown
interface Ethernet2/2
  description ==2.3.094 blue
  ip address 172.27.89.56/25
 no shutdown
interface Ethernet2/3
  no shutdown
interface Ethernet2/4
interface Ethernet2/5
interface Ethernet2/6
interface loopback0
  ip address 20.2.10.2/32
  ip router ospf 1 area 0.0.0.1
interface Cellular3/1
  dialer pool-member 1
  no shutdown
interface Wimax6/1
 no shutdown
  scan-list airspan2344
  ip address 10.0.7.3/24
interface Wpan4/1
interface Wifi2/1
 ssid CGDM
 no shutdown
  ipv6 address use-link-local-only
clock timezone PST -8 0
line console
  exec-timeout 0
line vty
  exec-timeout 0
router ospf 1
 redistribute direct route-map CONN
ip route 10.0.2.0/24 10.0.5.2
ip route 10.0.2.1/32 10.0.5.2
ip route 10.0.2.2/32 10.0.5.2
ip route 10.0.2.3/32 10.0.5.2
ip route 10.0.2.53/32 20.2.10.1
ip route 10.0.2.102/32 20.2.10.1
```

tunnel source Ethernet2/1

```
ip route 10.0.4.0/24 10.0.5.2 2
ip route 10.0.4.0/24 10.0.7.2
ip route 128.0.0.0/24 Cellular3/1
ip route 171.0.0.0/8 172.27.89.1
ip route 172.0.0.0/8 172.27.89.1
ip route 173.36.248.0/24 Cellular3/1
cgdm
  registration start trustpoint Blue
ip http secure-server
ip http secure-port 8443
ip http secure-server trustpoint Blue
```

SYSTEMLOG.TXT SAMPLE

The following example represents typical content that might be found in a *systemlog.txt* file generated from the Retrieve Reports page.

```
2012 Oct 16 14:44:12 CGR-1 Oct 16 14:44:12 %KERN-3-SYSTEM_MSG: [ 1293.456678] - kernel
2012 Oct 16 14:44:12 CGR-1 Oct 16 14:44:12 %KERN-3-SYSTEM MSG: [ 1293.456830]
/1_0_cdma_qos/third-party/src/linux/kernel/wrl3/linux-2.6.27_wrl30/drivers/i2c/busses/ioh/
ioh_i2c_hal.c:ioh_i2c_wait_for_xfer_complete returns 0 - kernel
2012 Oct 16 14:44:12 CGR-1 Oct 16 14:44:12 %KERN-3-SYSTEM_MSG: [ 1293.456847] - kernel
2012 Oct 16 14:44:13 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:47:02 CGR-1 last message repeated 1 time
2012 Oct 16 14:47:31 CGR-1 last message repeated 2 times
2012 Oct 16 14:47:31 CGR-1 %PLATFORM-2-DISK_ALERT: Disk Status Alert : disk partition
'/bootflash' is at high usage level (91%).
2012 Oct 16 14:47:31 CGR-1 %CALLHOME-2-EVENT: LOW_FLASH_SPACE
2012 Oct 16 14:47:31 CGR-1 %PLATFORM-2-DISK_ALERT: Disk Status Alert : disk partition
'/isan' is at high usage level (91%).
2012 Oct 16 14:47:32 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:47:57 CGR-1 last message repeated 1 time
2012 Oct 16 14:47:57 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:47:57 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:48:01 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - dcos-ping
2012 Oct 16 14:49:39 CGR-1 last message repeated 2 times
2012 Oct 16 14:50:20 CGR-1 last message repeated 1 time
2012 Oct 16 14:50:20 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:50:21 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - dcos-ping
2012 Oct 16 14:50:34 CGR-1 last message repeated 1 time
2012 Oct 16 14:50:34 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:50:37 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - dcos-ping
2012 Oct 16 14:50:38 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:51:15 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - rm
2012 Oct 16 14:51:16 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - java
2012 Oct 16 14:51:16 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - pidof
2012 Oct 16 14:51:20 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:51:30 CGR-1 last message repeated 1 time
2012 Oct 16 14:51:30 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:51:31 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:51:38 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - su
2012 Oct 16 14:51:38 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - xmlsa
2012 Oct 16 14:51:39 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called -
dcos-traceroute
2012 Oct 16 14:52:11 CGR-1 last message repeated 1 time
2012 Oct 16 14:52:25 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:52:32 CGR-1 last message repeated 1 time
2012 Oct 16 14:52:32 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:52:33 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:52:33 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:53:10 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - vsh
```

```
2012 Oct 16 14:53:56 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:53:56 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:54:32 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:55:58 CGR-1 last message repeated 2 times
2012 Oct 16 14:55:58 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:55:59 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:57:13 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:57:53 CGR-1 last message repeated 2 times
2012 Oct 16 14:57:53 CGR-1 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on
console0
2012 Oct 16 14:57:53 CGR-1 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on
localhost@xml.7555
2012 Oct 16 14:57:54 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:57:55 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - vsh
2012 Oct 16 14:57:56 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 14:58:12 CGR-1 last message repeated 1 time
2012 Oct 16 14:58:12 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 14:58:13 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 14:58:53 CGR-1 %VSHD-5-VSHD_SYSLOG_CONFIG_I: Configured from vty by admin on
localhost@xml.7555
2012 Oct 16 14:58:54 CGR-1 %USER-3-SYSTEM_MSG: 1 dialer interface listed - xmlsa
2012 Oct 16 15:00:53 CGR-1 last message repeated 1 time
2012 Oct 16 15:00:53 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 15:00:53 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 15:03:08 CGR-1 %DIALER-5-DIALER_MODEM_UP: Modem active
2012 Oct 16 15:04:15 CGR-1 last message repeated 1 time
2012 Oct 16 15:04:15 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 15:04:15 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 15:07:56 CGR-1 %CALLHOME-2-EVENT: REGISTRATION_NOTIFICATION
2012 Oct 16 15:07:56 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - curl
2012 Oct 16 15:10:51 CGR-1 %USER-3-SYSTEM_MSG: --- plcpm_im init is called - vsh
```

Feature History

Feature Name	Release	Feature Information
View details for WiMAX module and reload the module	Cisco CG-DM Release 3.1	Initial support of the feature on the Device Manager
Add and remove modules	Cisco CG-DM Release 3.0	
Certificate import enhancement		
Role-based Access Control (RBAC)		
Work Authorization access	-	
Support for Cisco 1120 Connected Grid Router (CGR 1120)	Cisco CG-DM Release 1.1	
Upload Image one-touch button		