



CHAPTER 4

Cisco VSPT Utilities

Revised: March 17, 2010, OL-8907-06

Cisco VSPT Release 2.7(3) provides the following utilities:

- [View Generated Output, page 4-1](#)
- [Perform an Integrity Check, page 4-3](#)
- [Deploy a Configuration, page 4-6](#)
- [Remote Shell, page 4-11](#)
- [MGC Viewer, page 4-12](#)
- [Cisco BAMS Configuration, page 4-14](#)
- [State Operation, page 4-14](#)
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- [Perform an Audit, page 4-17](#)
- [Back Up and Restore, page 4-19](#)

View Generated Output

The Cisco VSPT automatically generates output of various types which you can view using View menu options:

- Generated MML commands
- Trunk group file
- Trunk file

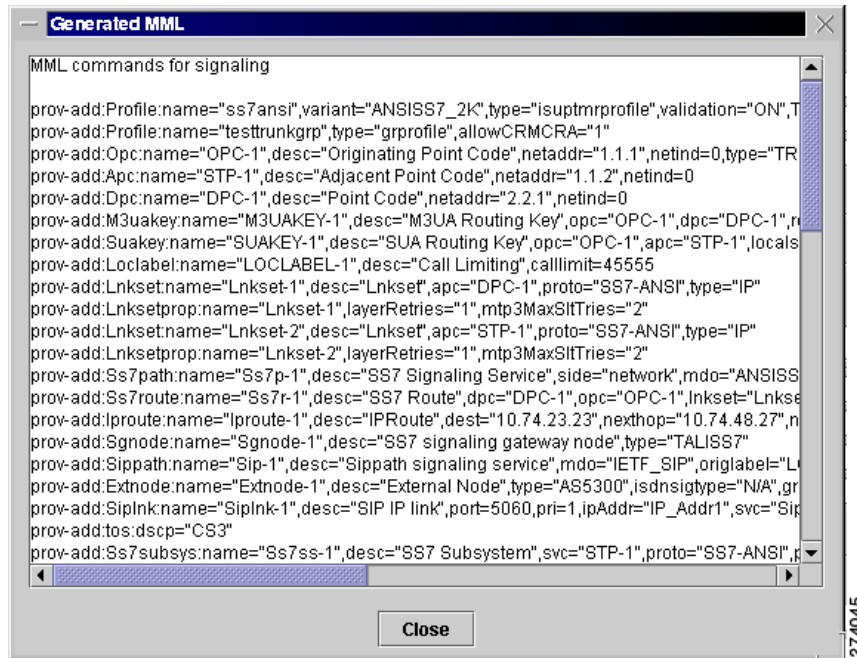
View Generated MML Commands

Cisco VSPT automatically generates MML commands to provision your Cisco PGW 2200 Softswitch and saves these commands in a file to be executed when you deploy the configuration.

To view the MML commands generated from your Cisco VSPT provisioning session, click **View > MML**.

A screen displaying generated MML commands, similar to the one shown in [Figure 4-1](#), appears.

Figure 4-1 Generated MML Window

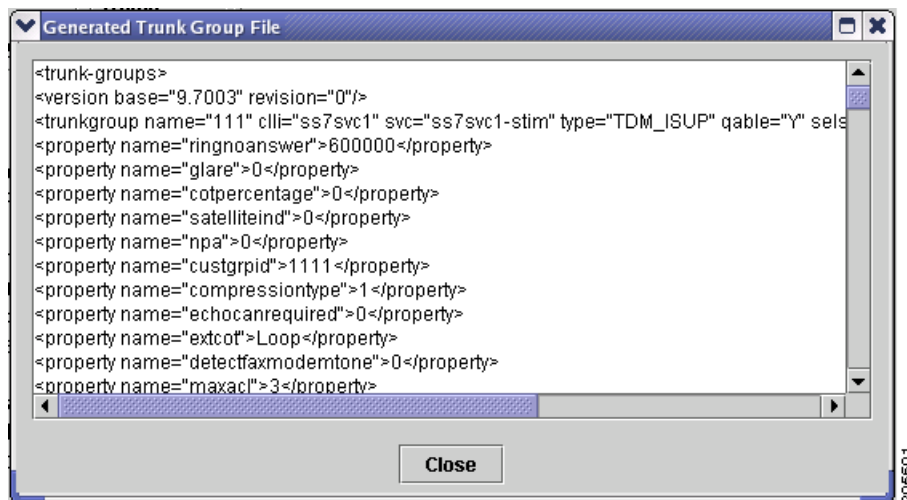


View Generated Trunk Group File

To view the trunk group file generated from your Cisco VSPT provisioning session, click **View > Trunk Group File**.

A screen displaying the generated trunk group file, similar to the one shown in [Figure 4-2](#), appears.

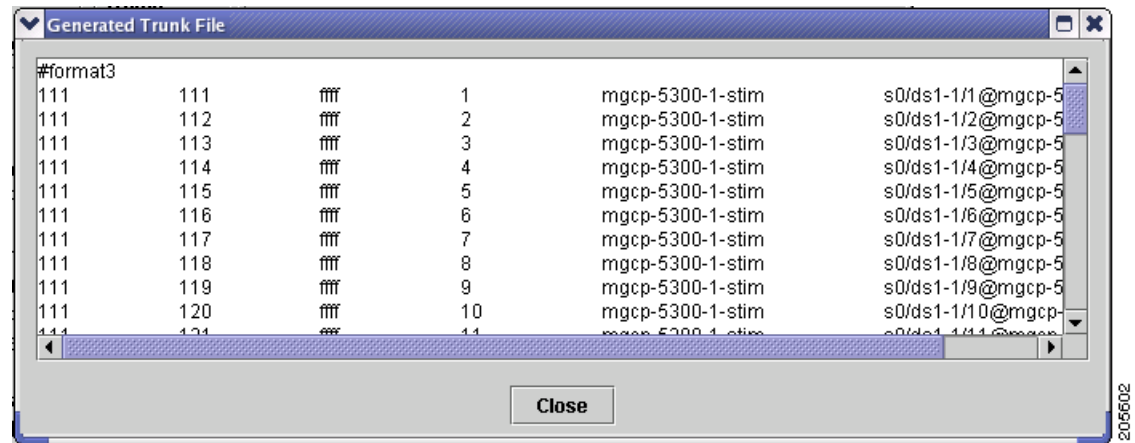
Figure 4-2 Generated Trunk Group File Window



View Generated Trunk File

To view the trunk file generated from your Cisco VSPT provisioning session, click **View > Trunk File**. A screen displaying the generated trunk file, similar to the one shown in [Figure 4-3](#), appears.

Figure 4-3 Generated Trunk File Window



Perform an Integrity Check

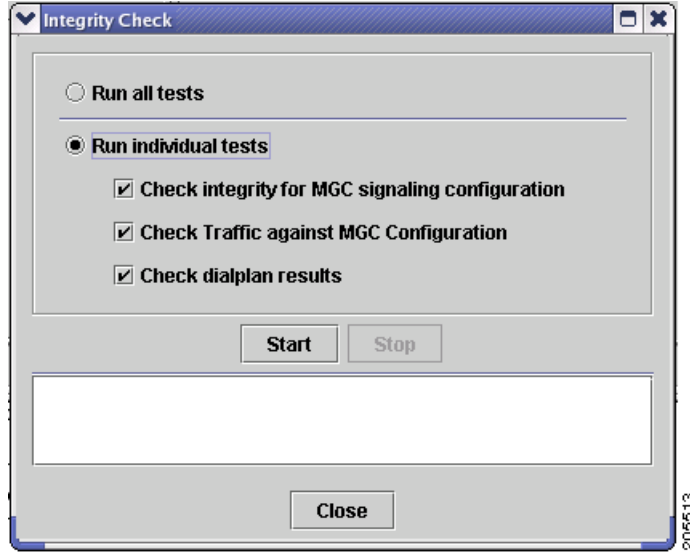
When provisioning is complete, you can perform an integrity check to prevent possible configuration errors. You can check one or all of the following:

- Integrity for the Cisco PGW 2200 Softswitch signaling configuration
- Traffic against the Cisco PGW 2200 Softswitch configuration
- Dial plan results

Use the following procedure to perform an integrity check of the currently open configuration:

-
- Step 1** Click **Tools > Integrity Check**. The Integrity Check dialog box appears ([Figure 4-4](#)).

Figure 4-4 Integrity Check Dialog Box



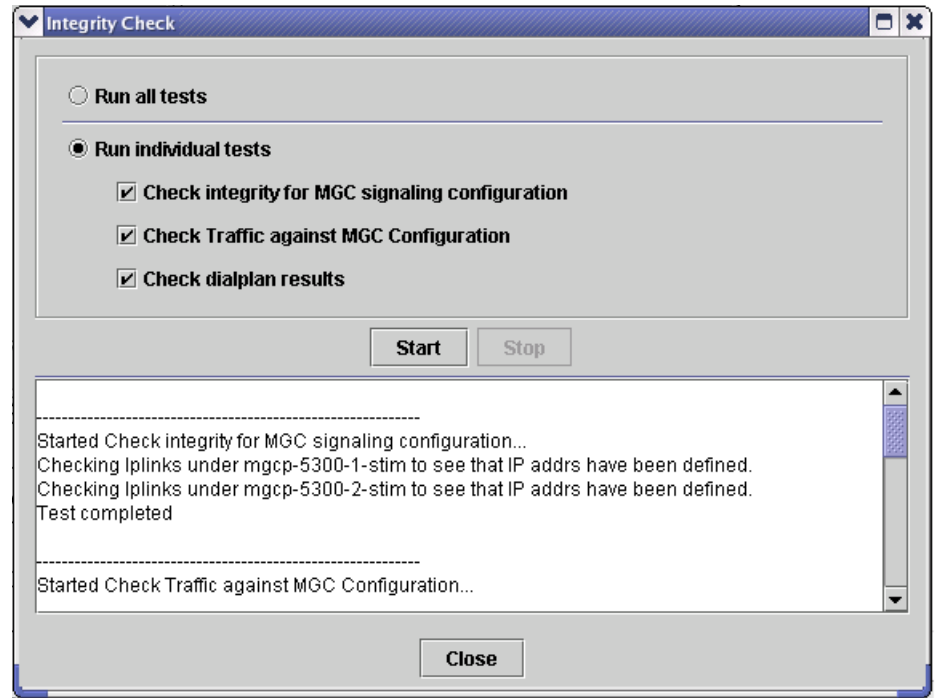
Step 2 Select the tests you want to run:

- Click **Run all tests** to run all three tests. See “Integrity Check Dialog Box Options” section on page 4-5 below for a description of each test.
- To run one or more individual tests, click **Run individual tests**. All tests are checked. Uncheck the tests you do not want to run.

Step 3 Click **Start**. Cisco VSPT runs the selected tests.

When the tests finish, a screen similar to the one in Figure 4-5 appears showing the results of the integrity checks.

Figure 4-5 Integrity Check Results



Integrity Check Dialog Box Options

This section describes the options in the Integrity Check dialog box.

Check Integrity for Cisco PGW 2200 Softswitch Signaling Configuration

When you perform an integrity check for Cisco PGW 2200 Softswitch signaling configuration, the Cisco VSPT does the following:

- Checks that the hostname is specified for Cisco PGW 2200 Softswitch.
- Checks that logins and passwords are specified for Cisco PGW 2200 Softswitch.
- Checks that Cisco PGW 2200 Softswitch ipaddrs are specified.
- Checks that if Cisco PGW 2200 Softswitch failover is specified, the failover IPs are specified.
- For IPFAS IPLNK:
 - Ensures that SigSlot/SigPort is specified.
 - Checks SigSlot/SigPort on the MGX to ensure that the values are valid as specified on the MGX.
 - Ensures that Cisco PGW 2200 Softswitch ports and MGX ports match on the IPLNK.
 - Checks that all IPLNKs under a single IPFASPATH map to the same port number.
- Checks that point codes are correctly provisioned and only one true opc is defined.
- Checks that if there are Lawful Intercept Mediation Device (LIMD) sigpaths, one iplink is defined at least.

- Checks that a trunk group profile contains some property provisioning.
- Checks that signaling path for an external node is correctly provisioned. (External node types are MGX8260, VISM, VXSM (VXSM was added in Release 2.7(3) Patch 2).)
- Checks that if the property IPInScreening of one SIP signaling service is set to 2, a default trunk group of SIP_IN trunk type using that SIP signaling service is provisioned (Added in Release 2.7(3) Patch 3).

**Note**

The number of IPFAS sessions using a given port is displayed because some IPLNKs might use different port IDs.

Check Traffic Against Cisco PGW 2200 Softswitch Configuration

When you perform an integrity check of traffic against the Cisco PGW 2200 Softswitch configuration, the Cisco VSPT does the following:

- Check if there are corresponding IPFASPATH signaling services with corresponding IPLNKs when D channels are defined as FAS and NFAS PRI in the trunk group/trunk section.
- Checks if there are any defined IPFASPATH signaling services defining a D channel but no corresponding trunk group or trunk in the traffic information with a corresponding NFAS/FAS PRI.
- Checks that signaling services defined for trunk groups exist in the configuration.
- Checks CIC conflicts for trunk groups sharing the same SS7 or IP signaling service. (One CIC is used only in one trunk among the trunk groups sharing the same SS7 or IP signaling service.)

Check Dial Plan Results

When you perform an integrity check for the dial plan, the Cisco PGW 2200 Softswitch does the following:

- Checks that the route names in the route results actually exist on the traffic side
- Checks that the resultset is not empty
- Checks that the resultset contains an existing conditional route, codecString, and CPCMOD
- Checks that the IN_TRIGGER result contains a valid STP/SCP index which is defined in MGC Config window > SS7 Subsystem

Background Information

In the dial plan, the Bdigittree maps a called digit string to select the desired result. For the Bdigittree, the digit string indicates what it should do when a call destined for the number xxx-xxxx is received. The selected value identifies what to do with the call. The result set contains results (processing actions for the call). One of the results can be a route result. Associated with the route result is the name of a route (from the traffic branch) that shows the trunk groups that exist within a route. This implies that the call should be routed onto the specified route and routed onto one of the trunk groups within the route.

Deploy a Configuration

When you finish defining a configuration, you must deploy that configuration to the Cisco PGW 2200 Softswitch.

**Note**

A new configuration should not be deployed during times of peak load on the Cisco PGW 2200 Softswitch.

A configuration created in Cisco VSPT can be deployed to a Cisco PGW 2200 Softswitch as a new configuration or incrementally. Deploying incrementally allows you to quickly apply modifications to an existing configuration without having to redeploy the entire configuration. Cisco VSPT also allows you to visually check the incremental commands it generates before deploying those commands to the Cisco PGW 2200 Softswitch.

If the Cisco PGW 2200 Softswitch has SSH enabled, you should deploy the configuration using the SSH protocol.

Deploying a New Configuration

Use the following procedure to deploy a new configuration.

**Note**

If you want to delete a component and plan to reuse the component name, first delete the component, deploy the session, and verify that the component name has been deleted before reusing the name.

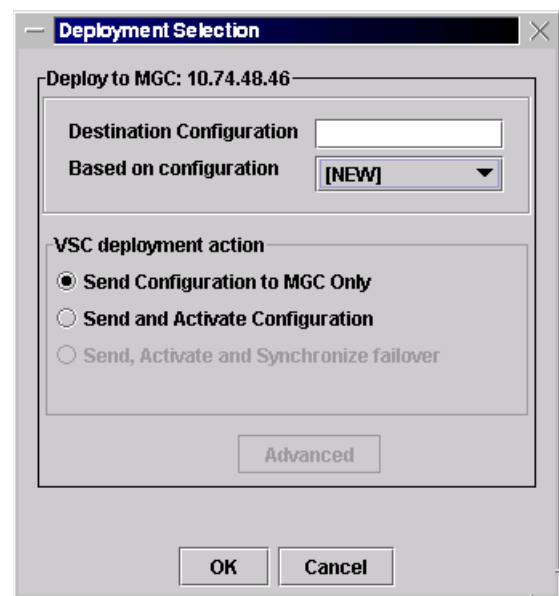
Step 1 Click **Tools > Deploy** on the main Cisco VSPT menu. The Protocol Options dialog box appears.

Step 2 Select the desired protocol:

- Choose **SSH** if SSH is enabled on the device.
- Choose **None** if SSH is not enabled on the device.

The screen shown in [Figure 4-6](#) appears.

Figure 4-6 Deploying a Configuration



Step 3 Indicate how you want to deploy the configuration:

- To deploy the configuration to the Cisco PGW 2200 Softswitch only, do one of the following:
 - If you want to send the configuration to the Cisco PGW 2200 Softswitch but not activate it, click the button next to **Send Configuration to MGC Only**.
 - If you want to send the configuration to the Cisco PGW 2200 Softswitch and activate it, click the button next to **Send and Activate Configuration**.
 - If you have a continuous-service configuration with two Cisco PGW 2200 Softswitch hosts, click the button next to **Send, Activate and Synchronize failover**. The configuration is saved on the active host and copied to the standby host. You must restart the standby server after reconfiguration to apply changes.



Note If you select an option other than NEW, the Advanced button is enabled. For information about the options this button provides, see the [“Configuring an Incremental Deployment”](#) section on page 4-9.

Step 4 Choose a configuration in the Based on configuration drop-down list.

This list displays all existing configurations on the selected Cisco PGW 2200 Softswitch and the [LAST IMPORT] and [NEW] options. You can choose one of the following options from the drop-down list:

- LAST IMPORT—The Cisco VSPT compares your provisioning session to the last imported configuration and deploys only changes you have made.



Note The LAST IMPORT option allows multiple users to modify an existing configuration. However, they must each be modifying a different area of the configuration for this option to work properly.

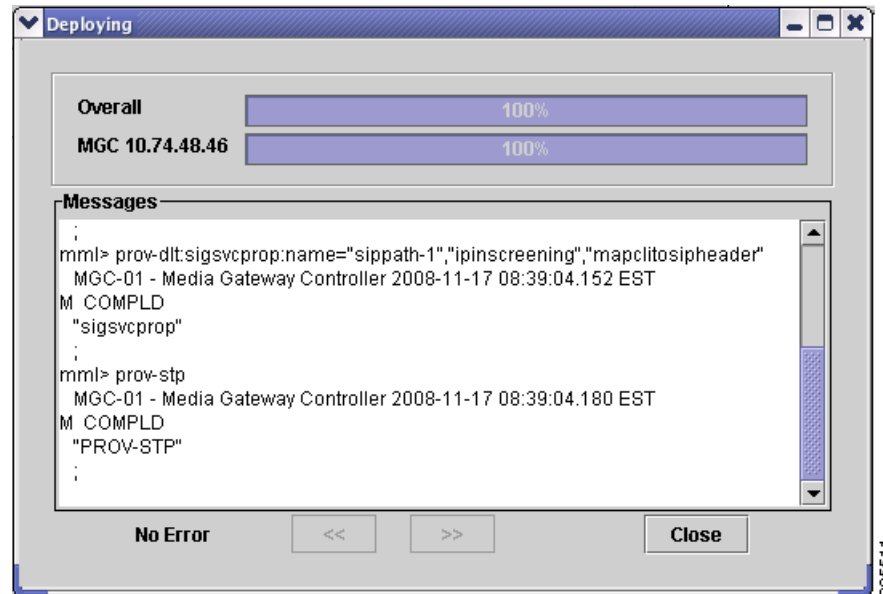
- NEW—Your entire provisioning session is deployed as a new configuration.
- Existing Configurations—Cisco VSPT imports the selected configuration from the Cisco PGW 2200 Softswitch, compares the differences between that configuration and your current provisioning session, and deploys changes you have made.



Note Since you are deploying a new configuration, make sure to choose the NEW option in the Based on configuration drop-down list.

Step 5 Click **OK**. The screen shown in [Figure 4-7](#) appears and displays the status as the current provisioning session is deployed.

Figure 4-7 Deployment Progress

**Note**

In a continuous-service configuration, the XECfgParm.dat file on each machine must be configured. If you experience problems, verify the integrity of the XECfgParm.dat files on both machines. See Chapter 3 in the *Cisco Media Gateway Controller Software Release 9.7 Installation and Configuration Guide*.

Configuring an Incremental Deployment

An incremental deployment allows you to modify an existing configuration and deploy only the modified areas to the Cisco PGW 2200 Softswitch. Modifications can be made more quickly, and errors affecting unmodified areas are minimized. In addition, provisioning modifications made by other users in separate areas are not affected.

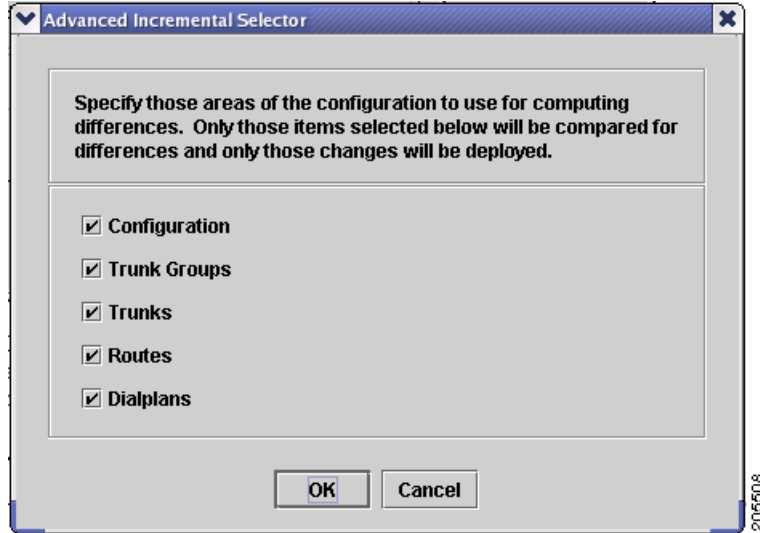
**Note**

The Cisco PGW 2200 Softswitch does not support some incremental deployment processes. If you have a problem with an incremental deployment, examine the MML commands to ensure that you have properly configured the desired components. Modify the component presenting the problem, or cancel the deployment and redeploy the component as a new configuration.

Use the following procedure to configure an incremental deployment:

- Step 1** Follow Step 1 through Step 4 in the “[Deploying a New Configuration](#)” section on page 4-7.
- Step 2** Click **Advanced** in the window shown in [Figure 4-6](#). The screen shown in [Figure 4-8](#) appears.

Figure 4-8 Incremental Deployment Component Selector



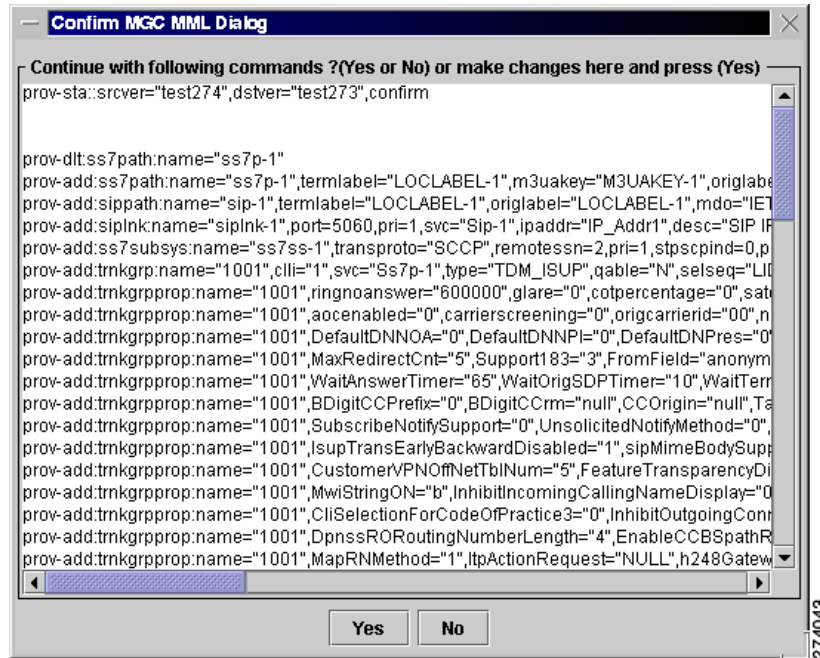
If you have only made configuration changes to one or more of the areas listed, you can direct the Cisco VSPT to compare only those areas with the current configuration, and your modifications can be deployed more quickly.

**Note**

If you select areas in this window, be sure to include all areas that you have modified.

- Step 3** Select one or more component types to deploy, and click **OK**.
- Step 4** Go to Step 5 in the “[Deploying a New Configuration](#)” section on page 4-7, and complete the procedure described there. When you click **OK**, a screen similar to the one displayed in [Figure 4-9](#) appears.

Figure 4-9 Confirm MML Commands



- Step 5** Inspect the MML commands, modify them if desired, and click **Yes** to continue with the incremental deployment. Click **No** to reissue the deployment as a new configuration.

Remote Shell

Cisco VSPT provides a utility to open a Telnet session and connect directly to a device. Once you have established your Telnet connection, you can log in to the device and execute commands remotely on the device through the Telnet interface.

If you have installed SSH for Cisco VSPT and the remote device also supports SSH, you can select the ssh utility instead of Telnet.

Use the following procedure to open a Telnet or ssh session with a network device:

- Step 1** Click **Tools > Remote Shell**. A screen similar to that shown in [Figure 4-10](#) appears.

Figure 4-10 Select Remote Network Device



Step 2 Select the device and connection method:

- Select a device from the dropdown list, or enter the name or IP address of a device on your network.
- Select the connection method, either **SSH** (if the device supports it) or **None** for Telnet.
- Click **Go**.

A Telnet or SSH window opens for you to log in to the device.

MGC Viewer

The MGC Viewer allows you to view, activate, remove, and synchronize configurations on the Cisco PGW 2200 Softswitch. If you are communicating with an SSH-enabled Cisco PGW 2200 Softswitch, you can use SSH instead of Telnet for the communication.

Use the following procedure to view configurations on a Cisco PGW 2200 Softswitch:

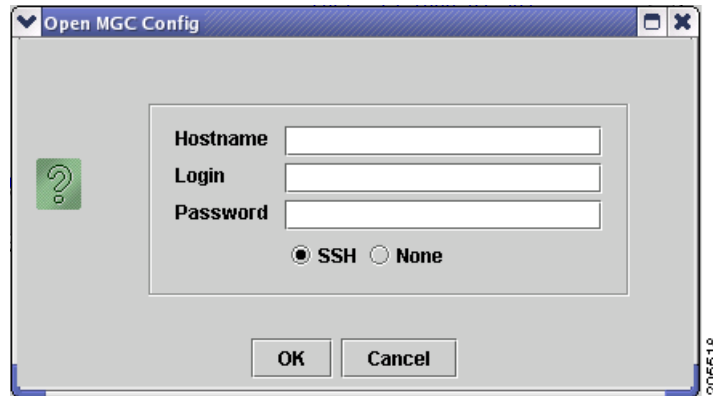
Step 1 Click **Tools > MGC viewer** on the main Cisco VSPT menu. On the MGC Configuration screen that appears, click **File > Open MGC**. The Protocol Options dialog box appears.

Step 2 Select the desired protocol:

- Choose **SSH** if SSH is enabled on the device.
- Choose **None** if SSH is not enabled on the device.

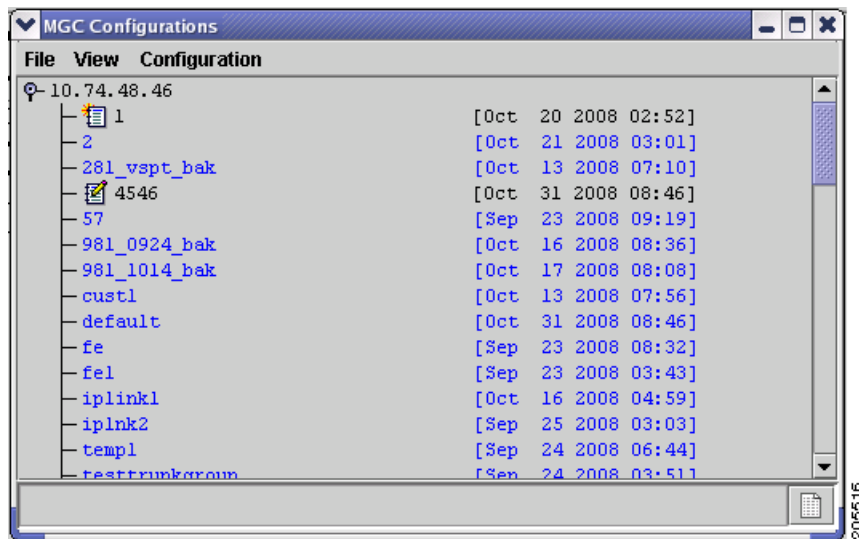
A screen similar to the one in [Figure 4-11](#) appears.

Figure 4-11 Select Cisco PGW 2200 Softswitches



- Step 3** Enter the host name of the Cisco PGW 2200 Softswitch in the **Hostname** box, enter the Cisco PGW 2200 Softswitch login and password, and click **OK**. A screen similar to the one in Figure 4-12 appears and lists all configurations on the specified Cisco PGW 2200 Softswitch.

Figure 4-12 MGC Configurations



- Step 4** Click **Configuration** on the MGC Viewer menu bar, and select one of the following actions:
- Activate—Activate the configuration.
 - Synchronize—Synchronize with the current configuration.
 - Delete—Delete the configuration.

Cisco BAMS Configuration

The Cisco BAMS Configuration utility enables you to create, copy, modify, and deploy a configuration for the Cisco BAMS server. You can use Cisco VSPT to provision general Cisco BAMS system items, including general information, zones, trunk group information, measurements, system, and other items.

You can find provisioning procedures in the section, “Starting a Cisco BAMS Provisioning Session,” and the section “Cisco BAMS Server Configuration” in Chapter 3 of the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide* at

http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/provisioning/guide/R9GUI.html

Before you use Cisco PGW 2200 Softswitch to provision a Cisco BAMS, you need to provision the Cisco BAMS and the Cisco PGW 2200 Softswitch for using the Cisco BAMS.

- Provision the Cisco PGW 2200 Softswitch for using BAMS—See the section “Configuring the Cisco MGC for Using BAMS,” and the section “Enabling SFTP on Cisco BAMS and the Cisco PGW 2200” in Chapter 2 at

http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/bams/3.30/guide/330ch2.html

- Provision the Cisco BAMS—See the section “Configuring BAMS” in Chapter 2 at the preceding link and the section “Updating the Poll Table” in Chapter 5 at

http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/bams/3.30/guide/330ch5.html

**Note**

To set up an active Cisco PGW 2200 Softswitch paired with a standby one for a Cisco BAMS, you need to provision both active and standby Cisco PGW 2200 Softswitches.

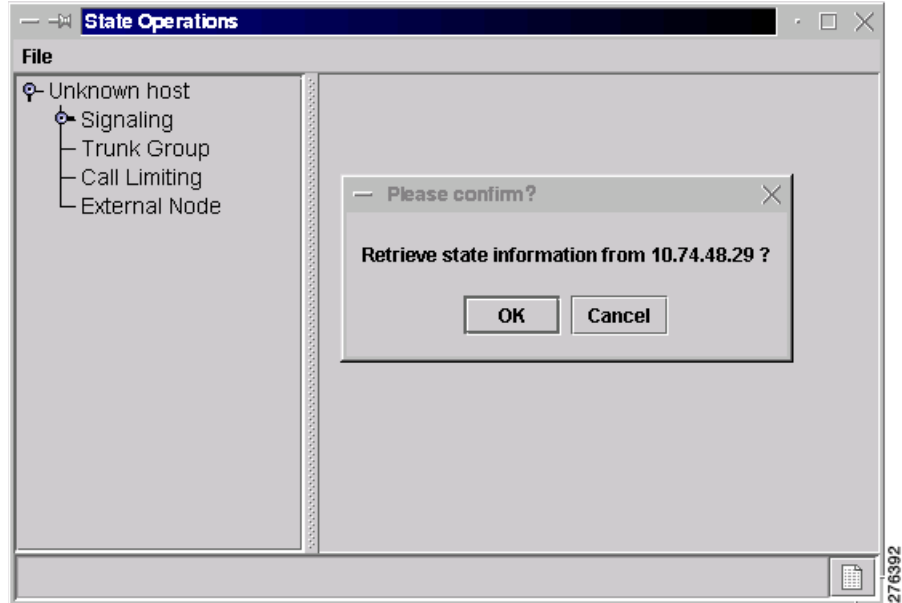
State Operation

The State Operation utility enables you to query the active configuration on the Cisco PGW 2200 Softswitch for the state of managed objects. After a query, you can modify the state of an object and apply the update to the Cisco PGW 2200 Softswitch. If you are querying the state of an SSH-enabled Cisco PGW 2200 Softswitch, you can use SSH instead of Telnet for the communication.

Use the following procedure to query the state of managed objects on the Cisco PGW 2200 Softswitch:

- Step 1** Click **Tools > State Operation** on the main Cisco VSPT menu. The Protocol Options dialog box appears.
- Step 2** Select the desired protocol:
 - Choose **SSH** if SSH is enabled on the device.
 - Choose **None** if SSH is not enabled on the device.

A screen similar to the one in [Figure 4-13](#) appears.

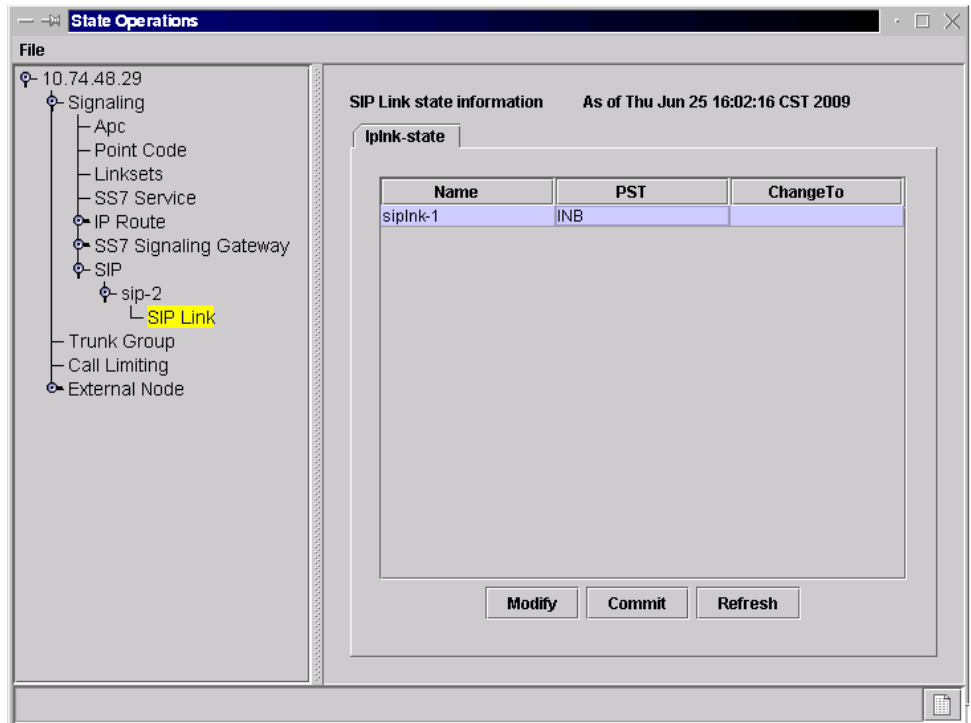
Figure 4-13 State Operation Dialog

Step 3 Click OK.

The Cisco VSPT queries the Cisco PGW 2200 Softswitch.

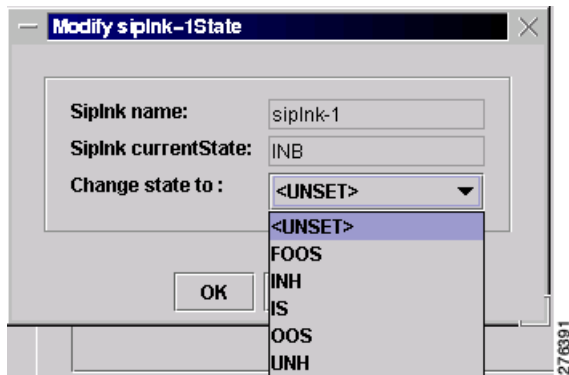
Step 4 Expand the hierarchical tree in the left pane of the State Operations window to locate and highlight the object. See [Figure 4-14](#)

Figure 4-14 State Operations



Step 5 Click **Modify** at the bottom of the right pane. A screen similar to the one in Figure 4-15 displays.

Figure 4-15 Modify State



Step 6 From this window, you can modify the state by choosing the desired state in the Change state to drop-down list. Click **OK** to save the change. You are back to the window in Figure 4-14.

Step 7 Click **Modify** to change the state in this window, and click **Commit** to change the state on the Cisco PGW 2200 Softswitch. To query the object again, click **Refresh**.

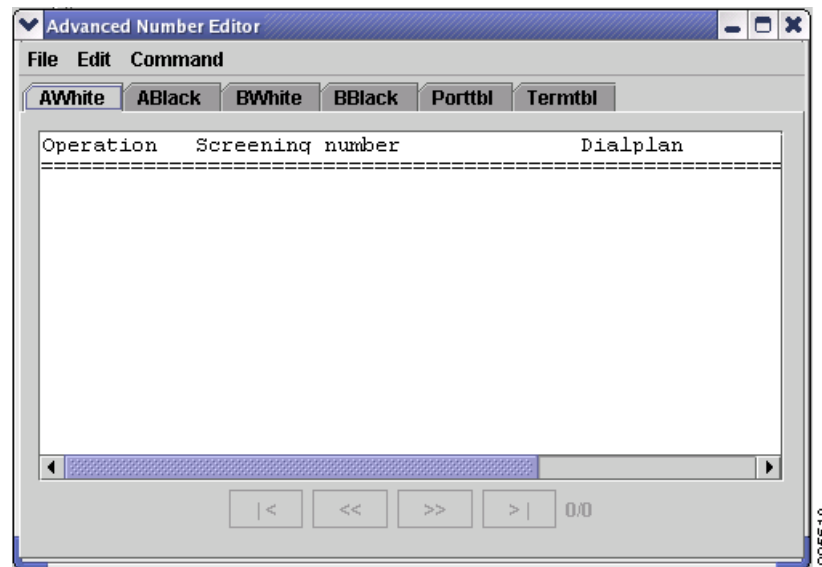
Advanced Number Editor

You can use the advanced number editor to edit the call screening list, the ported number table, and the number termination table:

- A-number Whitelist
- A-number Blacklist
- B-number Whitelist
- B-number Blacklist
- Ported Number Table
- Number Termination Table

Click **Tools > Advanced Number Editor** and you see a window similar to the one in [Figure 4-16](#). For details on the advanced number editor, see Chapter 3 of the *Cisco PGW 2200 Softswitch Release 9 Dial Plan Guide*.

Figure 4-16 Advanced Number Editor Window



Perform an Audit

You can use an audit to ensure that both the Cisco PGW 2200 Softswitch and a Cisco BAMS server supporting the Cisco PGW 2200 Softswitch host have consistently configured signal paths. The audit involves examining signal path and bearer channel data on both servers, comparing the data, and reporting any differences. If you are auditing an SSH-enabled Cisco PGW 2200 Softswitch, you can use SSH instead of Telnet for the communication.

Use the following procedure to perform an audit:

-
- Step 1** Click **Tools > Audit**.

The Protocol Options dialog box appears (see [Figure 4-17](#)).

Figure 4-17 Audit

The screenshot shows a dialog box titled "Audit" with two main sections: "VSC information" and "BAMS information".

VSC information section:

- Hostname: [Empty text box]
- Login: mgcusr
- Password: [Empty text box]
- Config: [Empty text box] with a "Select" button to its right.
- Protocol options: SSH None

BAMS information section:

- Hostname: [Empty text box]
- Node: 1 (dropdown menu)
- Login: bams
- Password: [Empty text box]
- Config: [Empty text box] with a "Select" button to its right.
- Protocol options: SSH None

At the bottom of the dialog box are two buttons: "Audit" and "Close".

- Step 2** Enter the Cisco PGW 2200 Softswitch hostname, login, and password in the top pane of the window.
- Step 3** To specify the configuration to audit, click **Select**, highlight the configuration to audit, and click **OK**.
- Step 4** Enter the Cisco BAMS hostname, login, and password in the bottom pane of the window.
- Step 5** To specify the configuration to audit, click **Select**, highlight the configuration to audit, and click **OK**.
- Step 6** Click **Audit**. A screen similar to the one displayed in [Figure 4-18](#) appears.

Figure 4-18 Audit Results

| VSC 10.74.49.174 (adqiq) | | BAMS 10.74.48.201 (bams_system) | |
|--------------------------|---------------|---------------------------------|---------------|
| Trunkgrp | # of Circuits | Trunkgrp | # of Circuits |
| 5310 | 31 | 3001 | 1 |
| 1705 | 1 | 3002 | 1 |
| 1704 | 1 | 3003 | 1 |
| 1703 | 1 | 3004 | 1 |
| 1702 | 1 | 3005 | 1 |
| 1701 | 1 | 3006 | 1 |
| 9005 | 31 | 3007 | 1 |
| 9000 | 1 | 3008 | 1 |
| 2233 | 1 | 3009 | 1 |
| | | 3010 | 1 |
| | | 3101 | 1 |
| | | 3102 | 1 |
| | | 3103 | 1 |
| | | 3104 | 1 |
| | | 3105 | 1 |
| | | 3106 | 1 |
| | | 3107 | 1 |
| | | 3108 | 1 |
| | | 3109 | 1 |
| | | 3110 | 1 |
| | | 3201 | 1 |
| | | 3202 | 1 |
| | | 3203 | 1 |

The left pane displays the signal path and bearer channel data configured on the Cisco PGW 2200 Softswitch host, and the right pane displays the same data configured on the Cisco BAMS server.

Back Up and Restore

The Cisco VSPT backup and restore tool allows you to create, modify, and delete scheduled backups and restores hourly, daily, weekly, monthly, or on demand.

You can do a backup or restore on any of the following devices if they have been configured for the Cisco PGW 2200 Softswitch:

- Cisco PGW 2200 Softswitch Host—Active configuration or entire Cisco PGW 2200 Softswitch system
- Cisco Catalyst 2900XL—Running-config and image in Flash
- Cisco Catalyst 5500—For switch module and RSM, configuration and image in Flash
- Cisco Catalyst 6509—For switch module and MSFC, configuration and image in Flash
- Cisco ITP-L (SLT) 2600—Running-config and image in Flash
- Cisco BAMS Phase 3—Active configuration
- Cisco HSI Adjunct Server—Active configuration

The backup and restore tool also provides the status of each activity and generates user-viewable status logs.

Before you begin

- You must have selected an appropriate backup host and enabled TFTP on that machine.
- Make sure there is enough space on the backup host for the backup files.
- You must start Cisco VSPT from a UNIX shell with the backup ID. The backup ID is specified during installation. You can start Cisco VSPT in either of two ways:
 - If Cisco VSPT is launched from Cisco MGC Node Manager (Cisco MNM), you must have started the Cisco EMF client with the backup ID. If your normal ID is different from the backup ID, you must start a new Cisco MNM session with the backup ID.
 - From the command line in a UNIX shell opened with the backup ID.
- Make sure the timeout value is adequate for the backup process to be finished. To adjust the timeout values, modify the following two parameters in the configuration file:
`/opt/CSCOVsp28/classes/com/cisco/transpath/dart/editor/configEditor.properties.`
 - Modify the value of parameter `DefaultTimeOut` to adjust the timeout value for shell command. The default value is three minutes.
 - Modify the value of parameter `Backup.timeout` to adjust the timeout value for system backup and FTP session. The default value is 30 minutes.

If you receive an error message, "Time out interact..." during the backup process, you can modify the value of `Backup.timeout` to a larger number to solve the problem.



Note

The system backup could take long time and the backup files could be very large. It is strongly recommended that you perform the system backup at non-busy time.

Backup and Restore Process

The backup process includes three main steps:

- Cisco VSPT connects to the managed component using Telnet or, if the component is SSH enabled, using a secure ssh connection. (You must have specified the component's IP address, login, and password, and you must have selected the security policy. To select the policy, choose None or SSH, in the Add... Schedule dialog box when you set up the backup.)
- The managed component makes a TFTP connection (as a client) to the TFTP server on the backup host.
- The configuration file of the managed component is transferred to the backup host. TFTP is used whether or not SSH is enabled. (You must have specified the backup host's IP address, Login, and Password in the Add Schedule dialog box.) TFTP must be enabled on the backup host.

The restore process includes four main steps:

- Cisco VSPT connects to the managed component using Telnet or, if the component is SSH enabled, using a secure ssh connection.
- The managed component makes a TFTP connection (as a client) to the TFTP server on the backup host.
- As the TFTP client, the managed component gets the backup file (tar file) from the backup host and places it in a temporary location (`/tmp`).

- The managed component untars the tar file from the temporary location into the `/opt/CiscoMGC/etc/cust_specific/` directory location.

Schedule a Backup or Restore

To schedule a backup or restore, use the following procedure:

Step 1 Click **Tools > Backup and Restore** on the main Cisco VSPT menu bar.

The Backup and Restore window appears, listing components that can have scheduled backups.

Step 2 Click the component for which you want to schedule a backup.

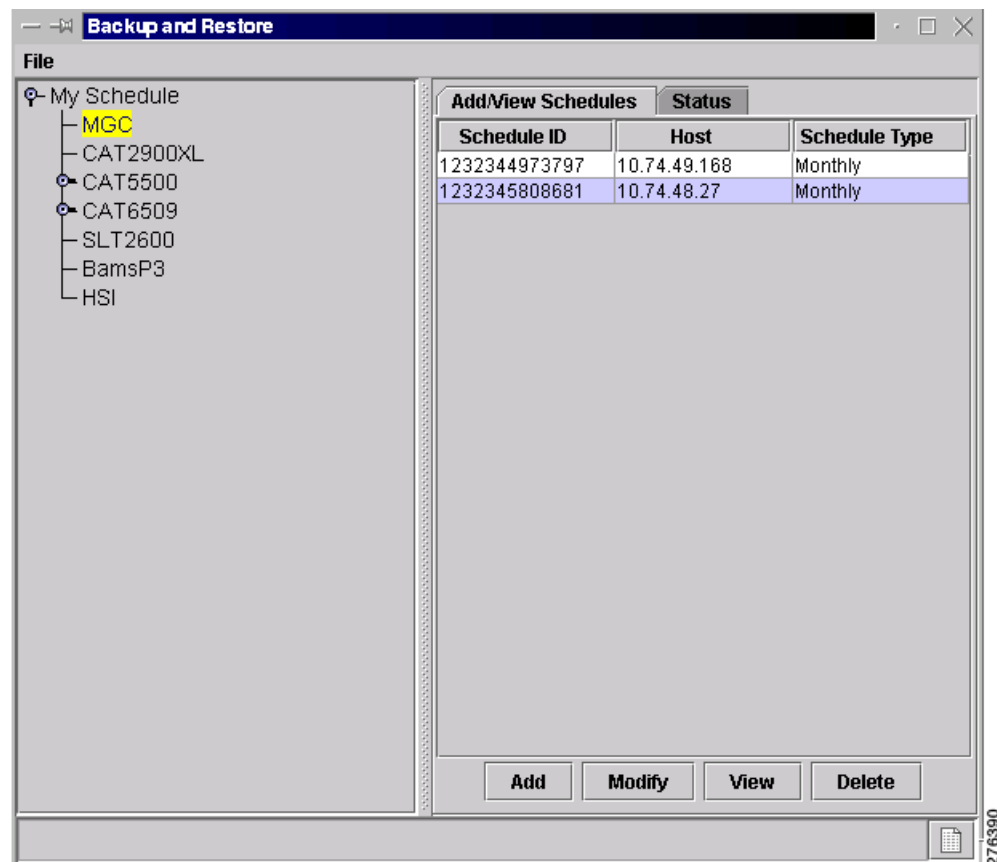
In the following example, the Cisco PGW 2200 Softswitch component configuration is backed up. On the right side of the window, the schedules for that component appear.



Note If you want to perform a restore, you must have a backup file already created and available on the Cisco PGW 2200 Softswitch or on another managed component.

Step 3 In the Add/View Schedules pane, click **Add**.

Figure 4-19 Add/View Schedules



A screen similar to the one shown in [Figure 4-20](#) appears.

Figure 4-20 Add MGC Schedule



Note

The fields available in the dialog box vary according to the component selected.

- Step 4** From the Action drop-down list, choose the action you want to perform. Choices are Backup and Restore. If you choose Restore, a screen similar to the one shown in [Figure 4-21](#) appears.

Figure 4-21 Restore

- Step 5** Enter information for the component you are backing up:
- Enter the IP address of the Cisco PGW 2200 Softswitch.
 - Enter the Cisco PGW 2200 Softswitch login and password.



Note If you want to perform a restore for the Cisco PGW 2200 Softswitch system, you must enter the Cisco PGW 2200 Softswitch root password as well.

- Step 6** In the File Name field, enter a name for the backup file.
- Step 7** From the File Type drop-down list, choose one of the following:
- MML Config—Backs up MML files for the active configuration on the Cisco PGW 2200 Softswitch
 - MGC System—Backs up MML files for the active configuration (as does MML Config), plus the Times Ten database, the XEconfigParm.dat file, and UNIX configuration files
- Step 8** Enter TFTP information for the server to which you are backing up (destination for the configuration file):
- Enter the IP address of the TFTP server.
 - Enter the TFTP login and password.

Step 9 Specify whether or not to use verbose log mode. Verbose mode records all commands issued by the Cisco VSPT and any system responses.

Step 10 Choose whether to connect to the component you are backing up using **SSH** or Telnet (**None**).



Note The operation itself is executed with TFTP or in the case of the Cisco PGW 2200 Softswitch system, FTP.

Step 11 Choose the schedule type. Choices include

- Monthly
- Daily
- Hourly
- Weekly
- Now
- Later

Step 12 Choose the protocol to use for connecting to and logging in to the component you are backing up:

- Choose **SSH** to use ssh.
- Choose **None** to use Telnet.

Step 13 Choose the hour and minute that the backup should begin.

Step 14 Click **OK**. The backup activity is scheduled, and the scheduled event appears in the schedule list.

After the backup has been completed, you can view the status of the activity, and acknowledge or clear the status log file from the Status tab. The backup file with the name you specified is available for use with Cisco VSPT.

Check Status of Backup or Restore

The Cisco VSPT generates status logs that provide information about each scheduled activity. The status log displays the following information for the activity:

- Date and time when activity began
- Success or failure
- File name on the TFTP server
- Directory of configuration files
- Image file name

If you specified verbose log mode, the status log also displays the sequence of commands issued by the Cisco VSPT and any system responses.

Use the following procedure to check the status of a backup or restore activity:

Step 1 In the left pane of the backup and restore tool window, click the device that has been backed up or restored. Click the **Status** tab in the right pane.

Step 2 Highlight the backup or restore for which you want information.

Step 3 Select the appropriate button for the action you want to perform. Choices are

- Show status—Displays the log file for the activity.
 - Acknowledge—Removes the text from the Status window and deletes the log file from the server.
 - Clear—Removes the text from the Status window, but the log file remains on the server.
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