



Release Notes for the Cisco Voice Services Provisioning Tool Release 2.6(1)

This document contains release information for the Cisco Voice Services Provisioning Tool (VSPT) Release 2.6(1) software.

For more information on the Cisco VSPT software, please visit Cisco's website at

<http://www.cisco.com> > Software Center > Network Management > Voice Services Provisioning Tool
or

<http://www.cisco.com/cgi-bin/tablebuild.pl/vspt>

VSPT helps you create configuration files across multiple devices including the Cisco PGW 2200 and BAMS. It provides a GUI for the batch and interactive provisioning of the various features of the PGW 2200 host. Each release of VSPT supports a specific release of the PGW 2200.

VSPT can help you avoid common errors that might arise if devices are provisioned independently. This package eliminates the need to enter duplicate data and enables you to deploy configurations to and export configurations from the PGW 2200.

It also generates the configuration files you need to provision the PGW 2200, including the provisioning information associated with the following items:

- Signaling
- Trunk groups
- Trunks
- Routes
- External nodes
- System
- Dial plans

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New Features

The features discussed in the following sections have been added for Release 2.6(1).

Call Limiting

The Call Limiting feature allows you to limit the number of calls originating from or ending at a particular VoIP destination. This includes calls made to a certain SIP device, an H.323 device, or a route to DPNSS/Q.SIG/PRI gateways as well as another PGW or HSI using E-ISUP.

Call limiting allows the service providers to improve the Quality of Service (QoS) by planning the IP network better. Because the number of calls that can be made at one time is limited, bandwidth is available for each call.

This feature is also useful for those devices that support a limited number of calls, for example, an IP-based announcement machine. Once the set limit for the device is reached, PGW can select a route to another IP-based announcement machine.

Call Limiting is implemented by use of the Location Label field in VSPT.

Call Limiting is done by providing a Location Label along with the call limiting value associated with the location label.

Location labels can be created from the Location Label component on the left pane of the VSPT graphic user interface.

For more information on how to use the Location Label component to limit calls, see the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide*.

Call Back and Extension Status

The Call Back and Extension Polling feature is provided to support the inter-working between PGW and Cisco Call Manager for the DPNSS Call Back When Free (CBWF), Call Back When Next Used (CBWNU), and Extension Status supplementary service features.

The CBWF feature provides a method for a user to request an automatic callback when the extension being called is busy, or there is network congestion.

The calling user can register this feature with the PBX—where the call originated—to monitor the called extension. When the called extension or the network becomes free, the PBX notifies the user through visual and audio signals.

The CBWNU feature provides a method for the user to request a notification when the called extension is next used. This happens when the user has called an extension in the network and has received no reply.

The user then enables the feature at the PBX where the call originated. The user is notified automatically when the requested extension is next used.

The Extension Status (ES) feature is used to determine the state of an extension on a private network. The feature enables you to determine the status of the extension (free, busy, out of service, call waiting on, call forward all on) without calling the extension.

For more information on how to use the Call Back and Extension Status Polling feature, see the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide*.

VSPT Timeout

PGW by default, allows only one provisioning session at a time. VSPT accomplishes multiuser provisioning by placing a provisioning attempt on hold if another session is already in progress.

After a 45-second timeout, VSPT retries the operation. This is repeated up to three times.

Time out entries and retry values are specified in the configEditor.properties file located at

```
VSPT_INSTALL_DIR/classes/com/cisco/transpath/dart/editor
```

To change the default settings, modify the following lines:

```
Deploy.Retry=3  
Deploy.WaitPOM=45
```

In the case of large and complex installations, the default timeout of 3 minutes for import or export is not adequate. In such cases, VSPT allows you to change the default timeout value in the configEditor.properties file.

To change the default timeout value for import or export, modify the following line:

```
DefaultTimeout=3
```

Product Documentation



Note

We sometimes update the printed and electronic documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

Table 1 describes the product documentation that is available.

Table 1 Product Documentation

Document Title	Available Formats
<i>Release Notes for Cisco Voice Services Provisioning Tool Release 2.6(1)</i> [this document]	<ul style="list-style-type: none"> Printed document that was included with the product On Cisco.com at this URL: http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.6/release/note/vspt26rn.html
<i>User Guide for Cisco Voice Services Provisioning Tool</i>	<ul style="list-style-type: none"> PDF on the product CD-ROM. On Cisco.com at this URL http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.6/user/guide/u_guide.html Printed document available by order (part number OL-8097-01)
<i>Context-sensitive online help</i>	<ul style="list-style-type: none"> Select an option from the navigation tree, then click Help. Click the Help button in the dialog box.

Related Documentation



Note

We sometimes update the printed and electronic documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

Table 2 describes the additional documentation that is available for the Cisco Voice Services Provisioning Tool Release 2.6(1).

Table 2 Related Documentation

Document Title	Description and Available Formats
<i>Cisco Media Gateway Controller Software Release 9 Provisioning Guide</i>	Describes the details for using VSPT for provisioning. Detailed instruction can be found in Chapter 3, “Provisioning with the Voice Services Provisioning Tool”, at http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/provisioning/guide/R9GUI.html
<i>Cisco Media Gateway Controller Software Release 9 Dial Plan Guide</i>	Describes the details for using VSPT for provisioning dial plans. Detailed instructions can be found in Chapter 3, “Provisioning Dial Plans with VSPT” at http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/dial_plan/guide/DP_VSPT.html



Note

When you are using VSPT, you can refer to the above mentioned documents for basic PGW 2200 MML command descriptions.

Software Release History

This section contains information for Release 2.6(1).

Release 2.6(1)

VSPT Release 2.6(1) supports new result type, sigpath, trunk group properties, and trunk group types that are supported by PGW Release 9.6. For detailed information on this support, refer to the *Cisco Media Gateway Controller Software Release 9 Provisioning Guide*.

The following new MML components are supported by VSPT 2.6(1):

- Location Label
- CCM Clusters
- CTI sigpath
- CTI manager
- AXL server
- CTI trunk groups
- CTI route trunk groups
- VXSM external node type

The following new sigpath properties are supported:

- MaxCBRequest
- TimeOutCBWF
- TimeOutCBNU

The following new MML commands are supported:

- set-callim
- retrv-callim

The following new MML result types are supported:

- override_callim
- loc_label

Additionally, support for the following features has been added:

- A new component “Location Label” has been added to provide the functionality of Call Limiting to Trunk Groups, sigpaths, and dial plans.
- DPNSS Route Optimization.
- Call Back and Extension Status. VSPT Release 2.6(1) now supports configuring of callback features of the Cisco Call Manager.
- The Validation parameter was added in the ISUP Timer Profile for validating Timer values.
- The Call-Cutoff-Timer result type was modified to accommodate time values in hours and seconds.
- The AMODDIG result type was modified to support conditional modification.

Known and Resolved Problems

This section contains information about the resolved problems and the Featurettes in Cisco Voice Services Provisioning Tool Release 2.6.1.


Note

To obtain information about known problems, access the Cisco Software Bug Toolkit at <http://www.cisco.com/cgi-bin/Support/Bugtool/home.pl>. (You will be prompted to log in to Cisco.com.)

Table 3 describes the featurettes in this release.

Table 3 *Featurettes in Cisco Voice Services Provisioning Tool Release 2.6(1)*

DDTS ID	Summary	Additional Information
CSCef69216	Addition of new MML parameter VALIDATION in Isuptimer profile	New MML parameter for the PROFILE command, which allows the validation of the ISUP timers, should be turned off when you are adding or editing a profile
CSCef80007	Modification of the existing result type CALL_CUTOFF_TIMER in VSPT	This result type was using the dataword for hours support only, now minutes and seconds are also supported.
CSCeh09340	Support for new external node VXSM	PGW supports external node types VISM and VXSM.
CSCeg69941	Modification of the existing AMODDIG result type: Featurette	ConditionalInd. A new data word providing an indication of conditional modification is provided. 0 = unconditional modification, 1 = Presentation Restriction dependent

Table 4 describes the resolved problems in this release.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCef75795	VSPT allowed adding SS7 Sigpath without SG Pair being specified	VSPT allowed deployment of SS7 SG Sigpaths without an SG pair being specified. This problem has been resolved.
CSCef95784	Default values in trunk groups were incorrect	Two default values in the Trunk Group dialog were invalid. This problem has been resolved.
CSCef95793	Could not add route of type CTI	Could not add routes of type CTI. VSPT was modified to allow the addition of the routes of type CTI. This problem has been resolved.
CSCeg00353	No GUI interface to delete the locally stored configurations.	VSPT did not provide any means in the GUI for deleting the configurations stored on the VSPT system. This problem has been resolved.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCeg00367	Allowed you to change point code in existing Linkset.	VSPT allowed you to change Point Code in existing Linkset. The Point Code field is disabled to prevent editing. This problem has been resolved.
CSCuk53298	DPNSS Path was not available under the external node C3745.	The DPNSS path was not available under the external node C3745 in VSPT 2.6(1)BT This problem has been resolved.
CSCef35377	D Channel deployment tended to fail as VSPT does not do a range check.	VSPT appended characters to name D Channel. This generated a string more than 20 characters and led to deployment failure This problem has been resolved.
CSCeg00364	VSPT allowed value of routing context that is already in use.	VSPT allowed you to add these two keys with the same Routing Context value and deployment failed. This problem has been resolved.
CSCeg00370	Problems in Property dialog box.	The Property dialog box had a problem with refreshing values in the Value text box, when the election in the Name drop-down list was changed. This problem has been resolved.
CSCeg11356	Wrong values displayed for PNMODDIG result type.	VSPT displayed wrong range of values for “number of digits to remove” in the PNMODDIG result type. This problem has been resolved.
CSCed10679	The external references to SRCP functionality were removed.	SRCP-specific alarms and properties, alarm information and property information were removed. This problem has been resolved.
CSCeh17461	Extnode did not build a DPNSS path. ExtNodeType.dat did not match.	Everything that has IUA requires the ability to build the DPNSS path in VSPT. This problem has been resolved.
CSCeg77154	VSPT: SS7 path could not be built from scratch.	For attempts to build a system from scratch, the VSPT did not allow any SS7 PATHS to be built. This problem has been resolved.
CSCeg67942	Could not add Session set node under any external node.	Add any external node which supports Session set. This problem has been resolved.
CSCuk53298	DPNSS path was not available under the external node C3745.	DPNSS path was not available under the external node C3745 in VSPT 2.6(1)BT. This problem has been resolved.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCeg11351	No check on Modification name in PNMODDIG in Resultset.	VSPT was accepting any name, whether or not that was configured and generated the MML that failed on deployment. This problem has been resolved.
CSCeg11368	No range check on PN number type in results.	VSPT was accepting the value up to 99999999999999999999 and generated the MML for this and hence the deployment failed. This problem has been resolved.
CSCeg11382	SCREENING result failed to deploy with default values in VSPT.	Screening result set populated the dw3 and dw4 by default and failed during deployment. This problem has been resolved.
CSCee90424	VSPT did not generate mml commands for Location Label.	VSPT did not generate mml commands for Location Label. Menu item View->MML did not pop up any dialog box. This problem has been resolved.
CSCeg11385	No check on A_NUM_NPI_TYPE resultset.	VSPT accepted any value and generated the MML, which failed on deployment. This problem has been resolved.
CSCeg11393	No range check on PN npi type in PN_NPI_TYPE.	VSPT accepted and generated the MML command and the deployment failed on PGW with an error. This problem has been resolved.
CSCeg12735	OPC was not getting imported to SS7 subsystem component.	In SS7 subsystem AIN service was selected and all the values were given including OPC. But when imported, the value of OPC did not get imported. This problem has been resolved.
CSCeg13808	No check to see if the service type is same in DPC and the M3UA.	VSPT performed a check to see if the service type of the DPC and the M3UA key matched or not, allowing the user to select the options. This problem has been resolved.
CSCeg13874	Problems in Property dialog box.	VSPT had overwritten the property that was added earlier with a new one. This problem has been resolved.
CSCee90519	Import of CTI sigpath failed for external node of type ccmcluster.	Import of CTI sigpath failed for external node of type ccmcluster. This problem has been resolved.
CSCeg13876	No check if the IP address specified is the same.	VSPT accepted the combination of the same IP address without any problem and generated the MML command, which failed during deployment. This problem has been resolved.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCeg13882	TCAP IP Path object exists.	Support for TCAP IP path was removed. This problem has been resolved.
CSCeg13898	No check if the ports entered were already in use in the config.	VSPT accepted the combination of the same ports without any problem and generated the MML command, which failed during deployment. This problem has been resolved.
CSCeg13921	No check performed if an IP was already used in other sessionset.	No check was performed to see if the IP address was already used in the combination. This problem has been resolved.
CSCeg13952	No check on Receive Window in Association.	VSPT accepted the maximum value without range check and the deployment failed. This problem has been resolved.
CSCeg13956	Obsolete Associate SGP field exists in Association page.	Obsolete "Associate SGP" field existed in Association page. This problem has been resolved.
CSCeg13969	No range check on maxInitRetrans in the Association page.	VSPT accepted this value and generated the MML without range check, and it failed on deployment. This problem has been resolved.
CSCeg13974	No range check on maxInitRt0 in the Association page.	No range check was performed on maxInitRt0. This problem has been resolved.
CSCeg13989	No range check on MAXRETRANS in the Association page.	VSPT accepted this value and generated the MML without range check, which failed on deployment. This problem has been resolved.
CSCef35377	DChannel deployment tended to fail as VSPT does not do a range check.	VSPT appended characters to name D Channel that can lead to generation of strings of more than 20 characters, which can result in deployment failure. This problem has been resolved.
CSCeg14010	No range check on CUMSACKTO in the Association page.	VSPT accepted this value and generated the MML without range check, which failed on deployment. This problem has been resolved.
CSCeg14015	No range check on BUNDLETO in the Association page.	No range check was performed on BUNDLETO. This problem has been resolved.
CSCef75781	VSPT allows to change DPC in existing SS7 path.	VSPT allowed modification of DPC in existing SS7 path. This problem has been resolved.
CSCeg14021	No range check on MINRTO in the Association page.	No range check was performed on MINRTO. This problem has been resolved.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCeg14026	No range check on HBTO in the Association page.	No range check was performed on HBTO. This problem has been resolved.
CSCeg14028	No range check on MAXRETRANSDEST in the Association page.	No range check was performed on MAXRETRANSDEST. This problem has been resolved.
CSCeg14032	The IP address were not validated in the peer IP addr.	The IP addresses were not validated in the peer IP addr. This problem has been resolved.
CSCef95784	Default values in trunk groups were incorrect.	Default values in the trunk group dialog were invalid. This problem has been resolved.
CSCef95791	No check if the DPC was already in use in SS7Paths.	No check was performed on DPCs to see if they were already in use while SS7 paths were added. This problem has been resolved.
CSCef95793	Could not add route of type CTI.	A route of type CT could not be added. This problem has been resolved.
CSCeg41240	Failed to discover and display Label Property Dialog.	Failed to open Label Property Dialog, along with all of the contents in Label Dialog. This problem has been resolved.
CSCeg00362	VSPT had allowed to change DPC in existing SS7 Path.	VSPT allowed the change of DPC in the existing SS7 path and deployment failed. This problem has been resolved.
CSCeg00364	VSPT allowed values of Routing context which were already in use.	VSPT allowed user to add these two keys with same Routing Context value and deployment failed. This problem has been resolved.
CSCeg00366	VSPT allowed adding SS& Sigpath without SG Pair being specified.	VSPT allowed deployment of SS7 SG Sigpaths without SG pair being specified. This problem has been resolved.
CSCeg00367	Allowed to change point code in existing Linkset.	VSPT allowed user to change the point in the existing linkset and deployment failed. This problem has been resolved.
CSCeg67860	Unhandled exception in BRI SigPath addition page.	Unhandled exception in BRI SigPath addition page. This problem has been resolved.
CSCeh38971	mgcp signaling svc parameter for iplnk pri was required to be checked.	The only numbers allowed are 1 and 2. Fix the drop-down menu by deleting all numbers after 2. This problem has been resolved.

Table 4 Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)

Bug ID	Summary	Additional Information
CSCei39966	New parameter always sent (4) in trunk group property SUPPORT183.	The valid values for trunkgroup property *.Support183 have changed. The new values are 0 = Not supported, 3 = Supported, and 4 = Always Send. This problem has been resolved.
CSCeg06535	No Range check on the *Call Limiting* value in Location Label.	VSPT did not perform any check and displayed an exception. This problem has been resolved.
CSCeg06673	Issues in Location Labels.	There were issues in handling the location labels. This problem has been resolved.
CSCeg06693	Could not add SIP path, SS7 SG path without selecting Location Label.	Wrong error message was displayed when no location label was specified. This problem has been resolved.
CSCei39983	While importing Isuptimer profile, VSPT displayed UNSET.	On VSPT import of Isuptimer profile/trunk group profile, it UNSET the values because of which it generated prov-dlt mml commands on deployment. This problem has been resolved.
CSCeg07658	Could not modify the Currency value in PRI tariff table.	Could not modify the value of currency in Advice of Charge->Pritariff table. This problem has been resolved.
CSCeg07689	No check in Adigtree in Digits String and Digits to Present.	No check was performed on digit string and digits to present in Adigittree. This problem has been resolved.
CSCuk56139	Addition of routelist for local announcement.	When adding a local announcement in the result-set of a dial-plan under Number Analysis through VSPT, the window was asking for a routelist to be added. This problem has been resolved.
CSCeg07762	Range check was required to be done for CTI version.	Appropriate error message was not displayed, when an incorrect value for CTI version was entered. This problem has been resolved.
CSCeg07806	VSPT allowed deletion of ss7 path without deleting the route.	VSPT should not allow the deletion of ss7 path without deleting the route. An appropriate error message should be displayed. This problem has been resolved.
CSCeg07851	VSPT supported unsupported ISDN sig type option in cmcluster.	VSPT provides the unsupported option of ISDNSigType. This problem has been resolved.

Table 4 *Resolved Problems in Cisco Voice Services Provisioning Tool Release 2.6(1)*

Bug ID	Summary	Additional Information
CSCeg07856	MDO was allowed to set as UNSET in CTI sig path.	VSPT added changes to the MDO in GUI without errors and failed on deployment. This problem has been resolved.
CSCeg08973	No check on Peer address in CTI Manager.	No check was performed on the IP address format in the CTI Manager. This problem has been resolved.
CSCeg09002	Change of CTIPATH in existing AXL server was allowed in VSPT.	Modification of the CTIPATH in the existing AXL Server was permitted in VSPT. This problem has been resolved.
CSCeg09050	Usage of references on CTI sigpath was checked after deleting it.	VSPT checked the CTI sigpath references in the trunk group after it was deleted. This problem has been resolved.
CSCei51284	IPRoute config allowed special characters.	VSPT allowed the configuration of IPRoute properties with parameter names from XECfgParm.dat, that is, the IP Gateway entry was IP_NextHop1. This problem has been resolved.

System Requirements

The following is the minimum hardware and software you need to run the Cisco VSPT software:

- Sun Ultra 5 workstation, 440 MHz or faster
- Sun Solaris 8 operating system
 - February 2002 release recommended
 - Open Windows with the Common Desktop Environment (CDE)



Note VSPT 2.6(1) can also be installed on Solaris 10 operating system.

- 8-bit video graphics card
- 128 MB of System RAM
- 128 MB of free disk space (in installation directory)
- 128 MB of free swap space
- Approximately 4 MB of disk space in the /var partition required for each configuration session

Supported Configurations

These configurations are supported:

- Cisco MGC Node Manager and Cisco VSPT installed together on a network management server (recommended)
- Cisco MGC Node Manager installed on a network management server and Cisco VSPT installed on a Cisco PGW host machine
- Cisco MGC Node Manager installed on a network management server and Cisco VSPT installed on a separate server
- Cisco VSPT installed on a PGW host machine or a standalone Sun Server



Note

Other element managers can be installed on the network management server.

Supported Network Elements

The following network elements have been tested and verified to work with this release of the Cisco VSPT.



Note

Other network element software versions are not supported with this version.

Cisco PGW 2200 Release 9.6(1) including provisioning of the following components:

- Signaling
- Trunk groups
- Trunks
- Routes
- External nodes
- System
- Dial plans

Troubleshooting

- The X Windows DISPLAY environment variable must be set in order for you to install the Cisco VSPT.

During installation, the X Windows DISPLAY environment variable must be set properly. If this variable is not set properly, the installation program exits with a Java error message or simply appears to stop responding. Use the following examples to set your X Windows DISPLAY environment variable. Replace the value <hostname> with your machine's hostname:

In csh or tcsh:

```
setenv DISPLAY <hostname>:0
```

In sh or ksh:

```
DISPLAY=<hostname>:0 ; export $DISPLAY
```

- If you experience problems or errors deploying to or communicating with a remote machine, check the following points:
 - Ensure that the machine is active and responding to the **ping** command.
 - Ensure that correct login/passwords have been specified.
- If you experience errors when deploying to the PGW 2200, check the following points:
 - The PGW 2200 supports only one provisioning session at a time. When deploying to the PGW 2200, ensure that no other provisioning sessions are active.
 - When you are activating a configuration on the PGW 2200, the PGW 2200 might require that some signaling components be taken out of service before the configuration is activated. If you do not take the components out of service, you receive an MML error message. You can take the components out of service from MML manually, and after that you can activate the configuration.
- Enter the following command to determine where Cisco VSPT is installed:
/usr/bin/pkgparam _DART_PKG_NAME_ BASEDIR
- CSCOVsp stores configuration files in the /var/<install directory>/data directory. Each _DART_PKG_NAME_ configuration is stored in a separate directory; the directory name is the same as the configuration name.

In the examples below, the assumption is that CSCOVsp16 was installed in the directory /opt/CSCOVsp16, thus = /opt/CSCOVsp16.

- To rename a configuration, simply rename the directory under /var/opt/_DART_PKG_NAME_/data.
- To remove a configuration, remove the directory under /var/opt/_DART_PKG_NAME_/data.
- To determine where the data directory is located, search for DartStoreDir in the configEditor.properties file:
/usr/bin/grep DartStoreDir
/opt/_DART_PKG_NAME_/classes/com/cisco/transpath/dart/editor/configEditor.properties

As a safety precaution, the deinstallation procedure does not remove configuration data. The data must be removed manually.

Obtaining Documentation, Obtaining Support, and Security Guidelines

For information on obtaining documentation, obtaining support, providing documentation feedback, security guidelines, and also recommended aliases and general Cisco documents, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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