



# Release Notes for the Cisco Voice Services Provisioning Tool Release 2.7(3)

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**Revised: June 22, 2009, OL-15168-06**

The Cisco Voice Services Provisioning Tool (VSPT) Release 2.7(3) provides support on new features and performance improvements introduced on Cisco PGW 2200 Softswitch Release 9.7(3).

This document contains release information for the Cisco VSPT Release 2.7(3) software. For more information on the Cisco VSPT software, please visit the Cisco website at

[http://www.cisco.com/en/US/products/sw/netmgtsw/ps2272/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/netmgtsw/ps2272/tsd_products_support_series_home.html)

or

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

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# Introduction

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

Each release of Cisco VSPT supports a specific release of the Cisco PGW 2200 Softswitch.

Cisco VSPT Release 2.7(3) is no longer available as a free download at Cisco.com. In order to use Cisco VSPT 2.7(3), you must purchase the Cisco MGC Node Manager 2.7(3) Media Kit which includes both Cisco VSPT 2.7(3) and CMNM 2.7(3).

Cisco 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 Cisco PGW 2200 Softswitch.

It also generates the configuration files you need to provision the Cisco PGW 2200 Softswitch, including the following provisioning information:

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

## System Requirements

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

- Sun Ultra 5 workstation, 440 MHz or faster
- Sun Solaris 8 or 10 operating system (Sparc/Opteron)
  - Open Windows with the Common Desktop Environment (CDE)
- 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

You need approximately 4 MB of disk space in the /var partition for each configuration session.

## New Features

Cisco VSPT Release 2.7(3) added support for Cisco PGW 2200 Softswitch Release 9.7(3) and BAMS Release 3.30. The FlexLM license control was added on Cisco VSPT Release 2.7(3) too.

## Cisco PGW 2200 Softswitch Release 9.7(3) Support

For more information on features of Cisco PGW 2200 Softswitch Release 9.7(3), see the *Release Notes for the Cisco Media Gateway Controller Software Release 9.7(3)* at

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/pgw/9/release/note/rn973.html](http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/release/note/rn973.html)

## Cisco BAMS Release 3.30 Support

For more information on features of Cisco Billing and Measurements Server 3.30, see the *Release Notes for Cisco Billing and Measurements Server Software Release 3.30 and Related Patches* at

[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/pgw/bams/3.30/release/note/330rn.html](http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/bams/3.30/release/note/330rn.html)

## Cisco VSPT FlexLM License Control

To manage licenses, Cisco VSPT provides the license files that are stored in a directory where Cisco VSPT obtains the required license information. Cisco VSPT uses the license files to enforce the capacity. The feature line of the license file is encrypted. Cisco VSPT requires a unique license file during the execution of the software. This license file allows the software to be loaded and run on a specified server.

## Software Changes

This section describes added or modified MML components, SIP/sigpath and trunk group properties, and result types and other changes on the Cisco VSPT Release 2.7(3) and Release 2.7(3) patches.

For more information on the Cisco PGW 2200 Softswitch provisioning, see 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/prvgde.html](http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/provisioning/guide/prvgde.html)

## Release 2.7(3)

Cisco VSPT Release 2.7(3) supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S3P3.

### New MML components

- CustomervpnId
- RACLUSTER
- RAPATH
- RASERVER
- ORIG\_VPN\_ID
- DTMFCAP
- FACILITY
- DB\_XLATED

**Modified MML Components**

- Two more parameters called min length and max length were added to the porttbl component.
- The existing parameter digitToPresent was removed from the existing components BDIGITTREE and ADIGITTREE.

**New SIP Properties**

- ContactListOrder
- SipRedirAnalysisMethod

**Modified SIP Properties**

- The value range of the InhibitSipFromMapping property was changed from 0–1 to 0–3.

**New Sigpath Properties**

- FT\_IncomingPFXdigitsRemove
- FT\_IncomingPFXdigitsInsert
- FT\_OutgoingPFXdigitsRemove
- FT\_OutgoingPFXdigitsInsert
- MidCallServiceCustID
- GatewayAnnouncementPackageSupport
- CNAPService
- CustomerVPNid
- CustomerVPNOnNetTblNum
- CustomerVPNOffNetTblNum
- OwnRoutingNumber
- QSIGTunnelVariant
- DisableQSIGReleaseMethod
- DpnssRORoutingNumberLength
- EnableCCBSpaathReservation
- RORrequestDelayTimer

**Modified Sigpath Properties**

- The value range of the sigpath property \*.CLIPess was changed from 0–1 to 0–2.
- A new type of protocol called Q761\_RUSS /Q761\_RUSS\_C2 was added to SS7 path.

**New Trunk Group Properties**

- H323Destination
- DtmfCap
- TrunkGroupTagId
- TrunkGrpTagIdTransEnable
- InviteAttempts
- NonInviteReqAttempts

- ResponseAttempts
- RetransMethod
- InviteWaitTimer
- CustomerVPNIid
- CustomerVPNOnNetTblNum
- CustomerVPNOffNetTblNum
- OwnRoutingNumber
- QSIGTunnelVariant
- DisableQSIGReleaseMethod
- DpnssRORoutingNumberLength
- EnableCCBSPathReservation

#### Modified Trunk Group Properties

The value of the following properties was changed from a string value to an overdecadic phone number (0–9 and A–F), NULL, or null.

- AInternationalPrefix
- BInternationalPrefix
- ANationalPrefix
- BNationalPrefix
- BDigitCCrm
- CCOrgin
- BTechPrefix

#### Modified Result Types

- A new data word called Location Value was added to the CAUSE result type.
- A new data word called UsePartialNumber was added to the E\_PORTED\_NUM and E\_ROUTE\_NUM result types.
- A new data word called SearchMin was added to the A\_NUM\_DP\_TABLE result types.

#### Other

- A new XML parser was added to parse and populate the trunk group details to GUI. The XML form of the changed properties was stored in the local configuration.
- All the Cisco logos in the related user documents and splash screens were updated.
- Two new parameters called QOS output and protocol were added to the VSPT BAMS section.

## Release 2.7(3) Patch 1



#### Note

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Cisco VSPT Release 2.7(3) Patch 1 is obsolete.

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Cisco VSPT Release 2.7(3) Patch 1 supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S3P3.

**Others**

- PGW mode (switched or nailed) detection was added in PGW/BAMS attributes.

## Release 2.7(3) Patch 2

Cisco VSPT Release 2.7(3) Patch 2 supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S9P9.

**New Packaging**

- Cisco VSPT 2.7(3) is packaged with Cisco Media Gateway Controller Node Manager (CMNM). Cisco VSPT 2.7(3) Patch 2 and above can be installed only on the Cisco VSPT version that ships with CMNM.

**New MML Components**

- H.248

**Modified MML Components**

- A new option H248 was added into the type of Association component.

**New SIP Properties**

- SipSatelliteIndEnable
- SipCallHoldMethod
- CallHoldInterworkingEnable
- RedirNumForAnalysis
- NewDiversionHdrRequired
- DeselOutCicCDRGenerate
- respectsipUriUserParm

**New Sigpath Properties**

- RedirNumForAnalysis
- h248bulkaudit
- h248congestionenable
- h248controlinterval
- h248domainnameremote
- h248gatewayreservevalue
- h248gwstdbyheartbeatinterval
- h248inactivitytimer
- h248initfill
- h248initialrtt
- h248initleakamount

- h248leakinterval
- h248localipinterfacepollcount
- h248longtimer
- h248maxfill
- h248maxretries
- h248mgcexectimer
- h248mgcpendlimit
- h248mgcprovresptimer
- h248mgexectimer
- h248mgpendlimit
- h248overloadenable
- h248profilename
- h248profileversion
- h248remoteippollcount
- h248splashamount
- h248targetolrate
- h248termpendperiod
- h248timert1
- h248txnpendrespcount

#### **Modified Sigpath Properties**

- The protocol called EISUP was added to the sigpath property CircHopCount.

#### **New Trunk Group Properties**

- ItpActionRequest
- H248GatewayReserveValue
- sipIngressRoutingControl
- sipEgressRoutingControl
- respectSipUriUserParm

#### **Modified Trunk Group Properties**

- The value range of the trunk group property GatewayRBToneSupport was changed from 0–2 to 0–4.

#### **Modified Result Types**

- A new dataword called CPC type was added to Result Type CPCMOD.
- A new option called ansi-pre-ain-cnam was added to the dataword service type of Result Type IN\_TRIGGER.

#### **Others**

- The DS1 type selection was added. You use it when you are adding or appending a trunk.
- The default DS1 type setting was added to the configEditor.properties.

## Release 2.7(3) Patch 3

Cisco VSPT Release 2.7(3) Patch 3 supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S13P13.

### New MML Components

- ipinmapping

### Modified MML Components

- Multiple SIP ports were added to siplnk.
- External Node Type VXSM support was added in the M3UA Routes component.
- A Q761 variant Q761\_97VER\_RUSS\_C2 was added to ss7path parameter MDO.

### New Sigpath Properties

- IPInScreening

### Modified Sigpath Properties

- The property MidCallSericeCustID was added for SIP protocol.
- The FT\_OutgoingPFXdigitsRemove and FT\_OutgoingPFXdigitsInsert properties were added to the EISUP path.

### New Trunk Group Properties

- Default
- OMaxDigits
- OMinDigits
- OOverlap
- OverlapDigitTime
- TMaxDigits
- TMinDigits
- TOverlap

### Modified Trunk Group Properties

- The property localport was associated with ports in siplnks.

### New Result Types

- REDIRECT

### Modified Result Types

- A new data word, Whether to modify OC, was added to Result Type RMODDig.

### Others

- The sigpath=all parameter was enabled for the command rtrv-h248.



## Release 2.7(3) Patch 4

Cisco VSPT Release 2.7(3) Patch 4 supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S20P20.

### Modified MML Components

- The parameter mdo was added to the eisupPath component.
- The EISUP variant EISUP\_VER96 was added to eisupPath parameter mdo.

### New Sigpath Properties

- STdigitforCDPN
- SipDtmfContentType
- XmitCallingName
- UUIEProtocolDiscriminator
- mgcpDomainNameLocal
- HandlePresUnavail
- InhibitPasson

### Modified Sigpath Properties

- The protocol called EISUP was added to the sigpath property CallHoldInterworkingEnabled.
- The protocol called SIP was added to the sigpath properties: OMaxDigits, OMinDigits, OverlapDigitTime, TMaxDigits, TMinDigits, and TOverlap.
- The protocol called ISDNPRI was added to the sigpath property InhibitIncomingCallingNameDisplay.
- The default value of the sigPath property called radiusretrycount was changed from 3 to 2.

### New Trunk Group Properties

- SipDtmfContentType
- ReferRedirectingNOA
- ReferRedirectingInd
- RejectOfferForResourcePending

### Modified Trunk Group Properties

- A new Trunkgroup property ADigitCCrm was added to sigPath.
- The value of the trunkgroup property UnsolicitedNotifyMethod was changed from 0–1 to 0–2.

### New Result Types

- SIPTNS

### Modified Result Types

- The value range of the resulttype RMODDIG was changed from 0, 1 to 0, 1, 2.

## Release 2.7(3) Patch 5

Cisco VSPT Release 2.7(3) Patch 5 supports Cisco PGW 2200 Softswitch Release 9.7(3) up to Release 9.7(3) S25P25.

### New MML Components

- crptmesg

### Modified MML Components

- A new value 99 was added to subunit for DpnssPath/Dchan.
- The property H248GatewayReserveValue was removed from H248 and TrunkGroup.

### Modified Sigpath Properties

- The protocols SS7-ANSI, SS7-ITU, SS7-UK, SS7-China were added to sigpath property SuppressCHGNtoCGPNMapping.
- The value range of the sigpath property CallHoldInterworkingEnabled was changed from 0–1 to 0–3.
- The value range of the sigpath property RedirNumForAnalysis was changed from 0–1 to 0–2.

### New Result Types

- CALL\_REPORT

### New Trunk Group Properties

- IsdnNSF
- MidCallCodecSelect
- UseGtdCalledPartyNumber

## Supported Configurations

The following 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 2200 Softswitch 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 Cisco PGW 2200 Softswitch host machine or a standalone Sun Server

**Note**

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

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# 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 Softswitch Release 9.7(3) with provisioning for the following components:
  - Signaling
  - Trunk groups
  - Trunks
  - Routes
  - External nodes
  - System
  - Dial plans
- Cisco BAMS 3.30

## Resolved Problems

### Release 2.7(3)

Table 1 describes problems resolved in Cisco VSPT Release 2.7(3).

**Table 1** Resolved Problems in Cisco VSPT Release 2.7(3)

| Identifier | Severity | Description   |
|------------|----------|---|
| CSCsg11440 | 3        | The property InhibitSipFromMapping value should increase.         |
| CSCsh18749 | 3        | Allow to configure the extr. no if customer ID as 0000.           |
| CSCsh20178 | 3        | Backup operation fails due to improper file permissions.          |
| CSCsh31401 | 3        | Addition of values to BC and HLC, throwing errors when deploying. |
| CSCsh31425 | 3        | H323Destination property is not appearing the properties window.  |
| CSCsh31498 | 3        | Some properties are missing in the DPNSS properties window.       |
| CSCsh33031 | 3        | Some properties are missing in the SS7 Paths properties window.   |
| CSCsh46372 | 3        | VSPT generating an error when adding Holiday.                     |
| CSCsh46386 | 3        | VSPT should not throw errors when adding SS7 Subsystems.          |
| CSCsh52861 | 3        | Generating errors when adding values for SGCP.                    |
| CSCsh52874 | 3        | Generating errors while adding values for C7.                     |
| CSCsh52904 | 3        | Generating errors while deploying External Node CAT8540.          |
| CSCsh52913 | 3        | Generating errors while deploying External Node type H323.        |

**Table 1** *Resolved Problems in Cisco VSPT Release 2.7(3) (continued)*

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsh85721 | 3        | Deployment of Trunk Groups fails.  |
| CSCsh85779 | 3        | Invalid values for the property Support Reliable 100.                      |
| CSCsh85791 | 3        | VSPT is generating an error while adding value of 3 to inhibitsipfrommap.  |
| CSCsh85816 | 3        | VSPT is generating an error while modifying the name field.                |
| CSCsh85858 | 3        | VSPT is allowing to add the same name for another holiday.                 |
| CSCsh85867 | 3        | VSPT is generating an error for FT_IncomingPFXDigitsInsert.                |
| CSCsh87361 | 3        | Routing property values are not deploying.                                 |
| CSCsh89027 | 3        | VSPT application hanging while trying to modify resultset.                 |
| CSCsi93070 | 3        | Switch navigation on VSPT panel caught OOB exception.                      |
| CSCsi95998 | 3        | Trunk group for naspath can't be added by VSPT.                            |
| CSCsh30038 | 4        | A warning message appears twice for Result set.                            |
| CSCsh30052 | 4        | Error occurs when modifying Adigtrees/Bdigtrees.                           |
| CSCsh85869 | 4        | VSPT should not generate an error while deploying external node ISDN sig.  |
| CSCsh85873 | 4        | VSPT should not take the default value for BC Name.                        |
| CSCsh87210 | 4        | Range check has not been done for this property EnableCCBSpahtReservation. |
| CSCsh89033 | 4        | VSPT is checking the range - 0 to 24 for properties E_PORTED_NUM/E_ROUT.   |
| CSCsh90351 | 4        | Routing property values are not deploying.                                 |
| CSCsh27405 | 5        | VSPT copyright tag date (1999–2000) and logo is old, need to change.       |
| CSCsg11413 | 6        | VSPT should do proper operation of Backup and restore for all NE.          |

## Release 2.7(3) Patch 1

Table 2 describes resolved problems in Cisco VSPT Release 2.7(3) Patch 1.

**Table 2** *Resolved Problems in Cisco VSPT Release 2.7(3) Patch 1*

| Identifier | Severity | Description   |
|------------|----------|---|
| CSCsd46027 | 3        | In BAMS config SKIPCODE Identifier accepts only 5-digit numeric value.  |
| CSCse47917 | 3        | No warning for no. of CTI Mgrs that can be configured with 1 CTI Path.  |
| CSCse54097 | 3        | Exception: while adding VISM external node.   |
| CSCse54110 | 3        | C7Iplnk Failed to Deploy: Links in the same or different linksets with the same APC and routes defined with the same OPC. |
| CSCsg00613 | 3        | VSPT throws exception while provisioning the PRI NFAS Trunk.  |
| CSCsi18962 | 3        | Digmodstring incorrectly allows name to be set as 0 (zero) -2.5.2.  |
| CSCsi92985 | 3        | VSPT273: sip signaling node attached to wrong mother node.  |
| CSCsi93010 | 3        | VSPT273: rtrtnkgrp property value range is not correct.   |

**Table 2** *Resolved Problems in Cisco VSPT Release 2.7(3) Patch 1 (continued)*

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsi93091 | 3        | VSPT273: NullPointerException in deploying and out of service.     |
| CSCsd45937 | 4        | In BAMS config SKIPADB Code accepts only 8 numeric digits.         |
| CSCsd46096 | 4        | In BAMS config, window title is Confirm MGC MML Dialog.            |
| CSCsd47591 | 4        | In BAMS configuration Inode upper threshold range incorrect.       |
| CSCse47768 | 4        | Adding a new Signaling service with existing DPC id.               |
| CSCse47849 | 4        | Adding a new Q.SIG sigpath with MDO as Q931.                       |
| CSCsh87614 | 4        | VSPT is not checking the ip address which belong to local subnet.  |
| CSCsi58027 | 4        | Property MidCallServiceCustID no sanity check on VSPT.             |
| CSCsi99435 | 4        | Modification of BC in Dial plan leads to deletion of the BC added. |

## Release 2.7(3) Patch 2

Table 3 describes resolved problems in Cisco VSPT Release 2.7(3) Patch 2.

**Table 3** *Resolved Problems in Cisco VSPT Release 2.7(3) Patch 2*

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsg03455 | 3        | VSPT needs to add the scroll bar into IPFAS panel.                         |
| CSCsj39545 | 3        | vspt273p1: mgc viewer inconsistent with current session.                   |
| CSCsj41387 | 3        | vspt273p1: deploy BAMS configuration met exception.                        |
| CSCsj43107 | 3        | vspt273p1: wrong transport protocol name for ss7subsys.                    |
| CSCsj43380 | 3        | NullPointerException when add SS7path.                                     |
| CSCsj44864 | 3        | VSPT interprets the trunk group name in BAMS ACC file wrong.               |
| CSCsj45283 | 3        | NullPointerException when deploy.  |
| CSCsj48754 | 3        | vspt237p1: patch script doesn't work if no whoami.                         |
| CSCsk08270 | 3        | Write permission denied when creating backup schedule using non-root user. |
| CSCsk47760 | 3        | VSPT should read former trkgrp.dat when upgrading from 2.6(1) to 2.7(3).   |
| CSCsk78153 | 3        | Wrong version of VSPT User Guide in help menu.                             |
| CSCse53113 | 4        | Add/Modify operation for mgcpath with external node type as AS5200.        |
| CSCsj52102 | 4        | Backup operation fails due to improper log file permission.                |
| CSCsj96724 | 4        | support 16 ss7 iplinks per sessionset.                                     |
| CSCsk47842 | 4        | trkgrp config should be display in xml format.                             |
| CSCsk61338 | 4        | Wrong trunkgroup property sipRoutingMode in vspt.                          |
| CSCsk61603 | 4        | Read tab in XECfgParm.dat.   |
| CSCsk78358 | 4        | Delete the mgx deployment in vspt.   |
| CSCsk86149 | 4        | VSPT can add numan service whose name is 0.                                |
| CSCsc83253 | 6        | Featurette - French ISUP V3 (SPIROU) Support.                              |

**Table 3** Resolved Problems in Cisco VSPT Release 2.7(3) Patch 2 (continued)

| Identifier | Severity | Description   |
|------------|----------|---|
| CSCsg55002 | 6        | Routing Based on the Redirecting Number featurette.                   |
| CSCsg63390 | 6        | SIP & ISUP Interworking featurette.                                   |
| CSCsh28692 | 6        | New service trigger type values for IN_TRIGGER result type.           |
| CSCsh32927 | 6        | H.248 protocol support for PGW featurette.                            |
| CSCsi53410 | 6        | Ring-back service using CPC = 3 for VM requirement.                   |
| CSCsj59742 | 6        | Add a sigpath property: SipSatellitedIndEnable.                       |
| CSCsj76041 | 6        | New property for ITP query mode.                                      |
| CSCsj76061 | 6        | Value range of GatewayRBToneSupport property changed.                 |
| CSCsj76135 | 6        | Request to add CircHopCount property to EISUP protocol.               |
| CSCsj79771 | 6        | SIP Diversion header treatment in the multi-contact environment.      |
| CSCsj83960 | 6        | Add a DeselOutCicCDRGenerate property for SIP.                        |
| CSCsk29356 | 6        | The default DS1 type should be configurable.                          |
| CSCsk55502 | 6        | New property respectSipUriUserParm.                                   |
| CSCsk55574 | 6        | New properties: sipIngressRoutingControl and sipEgressRoutingControl. |

## Release 2.7(3) Patch 3

Table 4 describes resolved problems in Cisco VSPT Release 2.7(3) Patch 3.

**Table 4** Resolved Problems in Cisco VSPT Release 2.7(3) Patch 3

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsm14412 | 3        | MML files generated by VSPT contain outdated properties.                     |
| CSCsm16699 | 3        | The trunk group property:supportreliable100 has the wrong value.             |
| CSCsm27408 | 3        | The M3UA should be added for VXSM.   |
| CSCsm30216 | 3        | DPNSS to EISUP redirection number modification.                              |
| CSCsm77734 | 3        | Deploying ss7path error when modifying the dpc parameter.                    |
| CSCsk90231 | 4        | AbstractPC's Description should be validated.                                |
| CSCsk96055 | 4        | Protocol ISDNPRI should not be selectable in Linksets.                       |
| CSCsl02086 | 4        | Name Field length should be effectively validated.                           |
| CSCsl20128 | 4        | Duplicate trunk group properties.  |
| CSCsl21914 | 4        | Wrong handle exception function in SftpAdapter.java.                         |
| CSCsl53794 | 4        | The behavior of Details button in Announcement panel is not correct.         |
| CSCsl72993 | 4        | VSPT 2.5 reports a trunk group format error while importing a configuration. |
| CSCsm79809 | 4        | Wrong warning message when importing without trunk.dat.                      |
| CSCsj87530 | 6        | Call Redirect Server or Call Diversion Server.                               |
| CSCsk86182 | 6        | PGW needs an option to modify OCN and Redirecting IE with RMODDIG.           |

**Table 4** Resolved Problems in Cisco VSPT Release 2.7(3) Patch 3 (continued)

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsl56573 | 6        | Multiple Incoming IP Trunk.  |
| CSCsl56576 | 6        | Enable sigpath=all for rtrv-h248 command.                          |
| CSCsl56577 | 6        | Allow configuration of overlapped signaling per trunk group basis. |
| CSCsl92922 | 6        | Support of SIP Agent/Trunking.                                     |
| CSCsl92941 | 6        | Change browser to Mozilla 1.7 for user documentation display.      |
| CSCsm25040 | 6        | Q761 variant Q761_97VER_RUSS_C2 added to support TNS.              |

## Release 2.7(3) Patch 4

Table 5 describes resolved problems in Cisco VSPT Release 2.7(3) Patch 4.

**Table 5** Resolved Problems in Cisco VSPT Release 2.7(3) Patch 4

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsq71077 | 3        | VSPT 2.7(3) Patch 3 fails to upload the TrunkGroup information from PGW.   |
| CSCsu61667 | 3        | vspt import error.   |
| CSCsv79161 | 3        | trkgrp template should begin with format3 or xml for pgw to read.          |
| CSCsv79178 | 3        | trkgrp mml name OirgLabel and TermLabel should be origlabel and termlabe.  |
| CSCsr88827 | 4        | Delete "using sftp...." when running VSPT.                                 |
| CSCsq49733 | 6        | Sip overlap support.   |
| CSCsq49735 | 6        | SIP/NI Calling Name to Q931+ Display I.E.                                  |
| CSCsq52422 | 6        | Manually change parameters in redirecting number parm in REL message.      |
| CSCsr36528 | 6        | Support UUIE protocol discriminator configurable for some SS7 variant.     |
| CSCsr36540 | 6        | Support pgw features synced from 9.6(1) S48P49 to S54P54.                  |
| CSCsu44520 | 6        | Support BTNUP message trigger Engine "kill ghost call."                    |
| CSCsu73526 | 6        | Support Calls released when DPNSS call is diverting from pgw9.7 to pgw9.6. |
| CSCsu99137 | 6        | Support PGW unrecognized message/Parameter issue for exchange type A.      |
| CSCsu99145 | 6        | Support Dynamite Enhancement: Support NCT after NCT completion.            |
| CSCsv90624 | 6        | Support PGW - SIP - DPNSS - Causing 491.                                   |
| CSCsw15890 | 6        | Errors of property provisioning.   |

## Release 2.7(3) Patch 5

Table 6 describes resolved problems in Cisco VSPT Release 2.7(3) Patch 5.

**Table 6** Resolved Problems in Cisco VSPT Release 2.7(3) Patch 5

| Identifier | Severity | Description  |
|------------|----------|--|
| CSCsz00729 | 2        | VSPT BAMS Measurements Threshold setting sends wrong mml command.              |
| CSCsy56837 | 3        | New BAMS 3.30 Measurements Thresholds were missing in VSPT.                    |
| CSCsy94777 | 3        | VSPT is unable to access MGC.  |
| CSCsz03108 | 3        | BAMS nodename cannot be set or edited in VSPT.                                 |
| CSCsz69867 | 3        | The add/import of suppresschngtoccgpnmapping for ss7 sigpath sends wrong mml.  |
| CSCsz73877 | 3        | Modify MidCallCodecSelect with extra parameters.                               |
| CSCsz74398 | 3        | State operation cannot set m3ua association to OOS.                            |
| CSCsz79020 | 3        | Modify trunkgroup property UseGtdCalledPartyNumber with other values.          |
| CSCsz81590 | 3        | Threshold values for Call Routing I, II and III peg are incorrect.             |
| CSCsz82118 | 3        | Threshold string for Total Carrier Select presubscribed input is incorrect.    |
| CSCsz78831 | 4        | Help text and Validation for Add crptmesg dialog box for Message.              |
| CSCsv66721 | 6        | No NSF found in SETUP for ATT41495_C2 variant.                                 |
| CSCsw33357 | 6        | VSPT supports to disable SIP/H.323 initiated hold to CPG interworking.         |
| CSCsw53516 | 6        | VSPT didn't check the mdo when adding property STdigitforCDPN.                 |
| CSCsx51981 | 6        | Rework on the H248GatewayReserveValue for H.248 DO codec negotiation.          |
| CSCsx74510 | 6        | Add SS7 SIGPATH to SuppressCHGNtoCGPNMapping feature.                          |
| CSCsy76121 | 6        | VSPT supports PGW CODEC Preference handling for Reinvites/MDCX.                |
| CSCsy76133 | 6        | R digit modification should be possible when redirecting number analysis.      |
| CSCsy76137 | 6        | VSPT supports 3845 HWIC1 slot which was not supported by PGW dpnss connection. |
| CSCsy76140 | 6        | VSPT supports SNMP for 999 service.  |
| CSCsy76145 | 6        | VSPT supports pgw usability enhancement.                                       |
| CSCsz30790 | 6        | VSPT supports override of the called number with the CPN in MIME of INVITE.    |



# Installation Notes

This section contains information and procedures you can use to install, upgrade, and uninstall Cisco VSPT Release 2.7(3). It also contains information about software patches.

## Acquiring the Software

Cisco VSPT Release 2.7(3) is provided to users on the Cisco VSPT CD included in the Cisco MGC Node Manager Media Kit. All the patches and releases prior to Release 2.7(3) are available at

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

## Installing and Uninstalling Cisco VSPT 2.7(3)

For detailed information on installing and uninstalling Cisco VSPT Release 2.7(3), see Chapter 2, “Installing Cisco VSPT” in the *Cisco Voice Services Provisioning Tool User’s Guide*, Release 2.7(3) at

[http://www.cisco.com/en/US/docs/net\\_mgmt/vspt/2.7/user/guide/vspt\\_ug\\_wpr.html](http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.7/user/guide/vspt_ug_wpr.html)

## Software Patches

You can only install Cisco VSPT 2.7(3) patches on Cisco VSPT version available on the Cisco VSPT 2.7(3) product CD that ships with the Cisco MGC Node Manager 2.7(3) Media Kit. Perform the following procedure to install patches:

---

**Step 1** Save the configuration files using the following commands:

```
mkdir -p /tmp/CSCovsp27
cp -r /var/opt/CSCovsp27/data /tmp/CSCovsp27
```

**Step 2** Check the version of Cisco VSPT 2.7(3) using the following command:

```
cat /opt/CSCovsp27/version
```



**Note**

If the Cisco VSPT version you installed is built before October 2007, you must uninstall your version of Cisco VSPT first and reinstall Cisco VSPT Release 2.7(3) from the Cisco VSPT product CD before you install the patches. For detailed information on installing and uninstalling Cisco VSPT 2.7(3), see the *Cisco Voice Services Provisioning Tool (VSPT) User’s Guide* at

[http://www.cisco.com/en/US/docs/net\\_mgmt/vspt/2.7/user/guide/vspt\\_ug\\_wpr.html](http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.7/user/guide/vspt_ug_wpr.html)

---

**Step 3** Download the patch file from the following website:

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

For example, if you are going to install Cisco VSPT 2.7(3) Patch 2, download **CSCovspt-273-P02.tar**.

**Step 4** Extract the patch file using the following command:

```
tar -xvf CSCovspt-273-P02.tar
```

**Step 5** Change to super user **root** using the following command:

```
su -root
```

**Step 6** Install the Cisco VSPT patch using the following command:

```
./patchCSCOvspt
```

**Step 7** Restore the configuration files using the following command:

```
cp -r /tmp/CSCOvsp27 /var/opt/CSCOvsp27/data
```

---

## Troubleshooting

### Setting X-Windows DISPLAY Environment Variable

You must set the X-Windows DISPLAY environment variable in order to install the Cisco VSPT. If this variable is not set properly, the installation program exits with a Java error message or simply stops responding. Use the following examples to set your X-Windows DISPLAY environment variable. Replace the value <hostname> with your machine hostname.

- In csh or tcsh,  

```
setenv DISPLAY <hostname>:0
```
- In sh or ksh,  

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

### Deploying to and Communicating with a Remote Machine

If you experience problems or errors deploying configurations to or communicating with a remote machine, check the following points:

- Make sure that the machine is active and responding to the **ping** command.
- Make sure that you have specified the correct login and password.

### Deploying Configurations to Cisco PGW 2200 Softswitch

If you experience errors when deploying configurations to the Cisco PGW 2200 Softswitch, check the following points:

- The Cisco PGW 2200 Softswitch supports only one provisioning session at a time. When deploying configurations to the Cisco PGW 2200 Softswitch, make sure that no other provisioning sessions are active.
- When you are activating a configuration on the Cisco PGW 2200 Softswitch, the Cisco PGW 2200 Softswitch 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.

## Verifying Cisco VSPT Directories

### Directory Where Cisco VSPT Is Installed

Enter the following command to determine where Cisco VSPT is installed:

```
/usr/bin/pkgparam _VSPT_PKG_NAME_ BASEDIR
```

If you want to determine where Cisco VSPT Release 2.7(3) is installed, use the following command:

```
/usr/bin/pkgparam CSCOVsp27 BASEDIR
```

### Directory Where Cisco VSPT Configuration Is Stored

CSCOVsp27 stores configuration files in the `/var/<install directory>/data` directory. Each configuration is stored in a separate directory with the directory name the same as the configuration name.

In the example below, it is assumed that CSCOVsp27 was installed in the directory `/opt/CSCOVsp27`. The “install directory” in this example is `/opt/CSCOVsp27`.

- To rename a configuration, simply rename the directory under `/var/opt/CSCOVsp27/data`.
- To remove a configuration, remove the directory under `/var/opt/CSCOVsp27/data`.

To determine where the data directory is located, use the following command to search for `DartStoreDir` in the `configEditor.properties` file:

```
/usr/bin/grep DartStoreDir
/opt/_VSPT_PKG_NAME_/classes/com/cisco/transpath/dart/editor/configEditor.properties
```

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

## Setting VNC Parameters to address font problems

If you encounter any font problems in Cisco VSPT, use `-fb /user/openwin/lib/X11/fonts/misc/` as the command arguments to start the VNC server.

## Setting T1 or E1 As Default DS1 Type

You can set the default DS1 type in the `configEditor.properties` file, which is located at `/opt/_VSPT_PKG_NAME_/classes/com/cisco/transpath/dart/editor/`.

- To set T1 as the default DS1 type, edit the property `DEFAULT_DS1_TYPE`:

```
DEFAULT_DS1_TYPE=T1
```

- To set E1 as the default DS1 type, edit the property `DEFAULT_DS1_TYPE`:

```
DEFAULT_DS1_TYPE=E1
```

## SFTP or SSH Client Not Working in Cisco VSPT

If you get the error message, “The path, /user/bin/ssh, doesn’t exist” or the message “FTP Error. The path, /user/bin/sftp, doesn’t exist” when you are using SSH to deploy configurations in Cisco VSPT, check the SFTP and SSH clients.

The folder where SSH and SFTP clients are installed is different on Solaris 8 from what it is on Solaris 10.

- Solaris 8
  - Check the folder /user/local/bin/ to verify that SSH and SFTP clients are installed. If they are not installed, you need to install CSCOk9000 to use SSH in Cisco VSPT. See the section, “Installing SSH on VSPT” in Chapter 2, “Installing Cisco VSPT,” in the *Cisco Voice Services Provisioning Tool User’s Guide, Release 2.7(3)* at

[http://www.cisco.com/en/US/docs/net\\_mgmt/vspt/2.7/user/guide/vspt\\_ug\\_wpr.html](http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.7/user/guide/vspt_ug_wpr.html)

- Check the sshPath variable in the configEditor.properties file. The sshPath should be configured with the folder path where SSH and SFTP are installed. The following example gives the location of the configEditor.properties file and the default path for SSH and SFTP clients:

```
/opt/CSCOvsp27/classes/com/cisco/transpath/dart/editor/configEditor.properties
sshPath=/usr/local/bin
```

- Solaris 10
  - Check the folder /user/bin/ to verify that SSH and SFTP clients are installed. If they are not installed, you need to reinstall SSH and SFTP included in Solaris 10 software.
  - Check the sshPath variable in the configEditor.properties file. The sshPath should be configured with the folder path where SSH and SFTP are installed. The following example gives the location of the configEditor.properties file and the default path for SSH and SFTP clients:

```
/opt/CSCOvsp27/classes/com/cisco/transpath/dart/editor/configEditor.properties
sshPath=/usr/bin
```

## SFTP or SSH Server Not Working on Cisco PGW 2200 Softswitch or Cisco BAMS

If you get the error message, “Error connecting to MGC:jump\_ssh:failed login” or “Error connecting to BAMS:jump\_ssh:failed login” when you are using SSH to deploy in Cisco VSPT, check the SFTP and SSH on the Cisco PGW 2200 Softswitch or Cisco BAMS.

You can use the following MML command on both Cisco PGW 2200 Softswitch and Cisco BAMS to check if SFTP and SSH are installed on Cisco PGW 2200 Softswitch and Cisco BAMS.

```
ps -ef | grep ssh
```

Information displays that resembles the following:

```
root 240 1 Feb 22 ? 0:01 /usr/lib/ssh/sshd
mgcusr 8640 8637 0 03:17:19 ? 0:01 /usr/lib/ssh/sshd
```

If sshd is displayed, SFTP and SSH are already installed on the Cisco PGW 2200 Softswitch or Cisco BAMS. If sshd is missing, SFTP and SSH are not correctly installed on the Cisco PGW 2200 Softswitch or Cisco BAMS.

- SFTP and SSH installed on Cisco PGW 2200 Softswitch and Cisco BAMS.  
You need to verify that the path displayed for each command is the same path configured for the sshPath variable in the configEditor.properties file in the following Cisco VSPT folder:  
`/opt/CSCOVsp27/classes/com/cisco/transpath/dart/editor/configEditor.properties`  
  
The default path for SSH and SFTP for the Cisco PGW 2200 Softswitch and Cisco BAMS depends on the platform.
  - Solaris 8  
`/usr/local/bin`
  - Solaris 10  
`/usr/bin/`
- SFTP or SSH not installed on the Cisco PGW 2200 Softswitch or Cisco BAMS  
You need to check the Cisco PGW 2200 Softswitch and Cisco BAMS platforms before you install SSH and SFTP.
  - Solaris 8  
You need to install CSCOk9000 to use SSH on the Cisco PGW 2200 Softswitch and Cisco BAMS. See the section, “Installing the CSCOk9000 Security Package” in Chapter 4, “Cisco PGW 2200 Softswitch Security Enhancements,” in *Cisco Media Gateway Controller Software Installation and Configuration Guide (Releases 9.1 through 9.6)* at  
[http://www.cisco.com/en/US/docs/voice\\_ip\\_comm/pgw/9/installation/software/SW2/pre97inst.html](http://www.cisco.com/en/US/docs/voice_ip_comm/pgw/9/installation/software/SW2/pre97inst.html)
  - Solaris 10  
You need to reinstall SSH and SFTP, which are included in the Solaris 10 software on the Cisco PGW 2200 Softswitch and Cisco BAMS.

## TFTP Not Working on the Cisco PGW 2200 Softswitch or Cisco BAMS

If you get the timeout error message in Status tab when you are performing the backup and restore in Cisco VSPT, check the TFTP on Cisco PGW 2200 Softswitch or Cisco BAMS accordingly.

Use the following MML command to check TFTP on the Cisco PGW 2200 Softswitch or Cisco BAMS.

```
grep /etc/inetd.conf tftp
```

If in.tftpd is missing, TFTP is not installed on the Cisco PGW 2200 Softswitch or Cisco BAMS. You need to download the following two packages to install the TFTP on the Cisco PGW 2200 Softswitch or Cisco BAMS:

- SUNWtftp
- SUNWtftpr

To enable the TFTP on the Cisco PGW 2200 Softswitch or Cisco BAMS, see the section, “Enable TFTP on the Backup Host” in Chapter 2, “Installing Cisco VSPT,” in *Cisco Voice Services Provisioning Tool User Guide, Release 2.7(3)* at

[http://www.cisco.com/en/US/docs/net\\_mgmt/vspt/2.7/user/guide/vspt Ug\\_wpr.html](http://www.cisco.com/en/US/docs/net_mgmt/vspt/2.7/user/guide/vspt Ug_wpr.html)

## Product Documentation

The documents that contain information related to the Cisco VSPT Release 2.7(3) are at the following URL:

[http://www.cisco.com/en/US/products/sw/netmgtsw/ps2272/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/sw/netmgtsw/ps2272/tsd_products_support_series_home.html)

## Related Documentation

The documents that contain information related to the Cisco PGW 2200 Softswitch are at the following URL:

[http://www.cisco.com/en/US/products/hw/vcallcon/ps2027/tsd\\_products\\_support\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/vcallcon/ps2027/tsd_products_support_series_home.html)

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, 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>

Subscribe to the *What's New in Cisco Product Documentation* as a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS Version 2.0.

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