



# Cisco Prime Provisioning 6.8.1 Release Notes

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**February 6, 2017**

Cisco Prime Provisioning 6.8.1 is a maintenance release to be installed on Prime Provisioning 6.8, 6.8.0.1 or 6.8.0.2. Schema upgrade is supported from 6.8/6.8.0.1/6.8.0.2 to 6.8.1.

This release contains the following enhancements under different service blades and infrastructure:

- Layer 2 (L2EVC)
  - Extends E-Tree role Functionality.
  - Supports SONET to SONET Provisioning.
  - Extends Trunk EFP support for ASR920 UPE device.
- Infrastructure
  - Provides NBI support for IPv6 Address Pool.
  - Provides NBI support for Auto-Allocation of IPv6 addresses from the Pool for MPLS services.
  - Supports new platform certification.
  - Supports Sybase 16 DB.
  - Deprecates Config Audit functionality.

See the New Features and Enhancements in Prime Provisioning 6.8.1 for a list of point patches whose enhancements and defect resolutions have been merged into 6.8.1.

All documentation, including this Cisco Prime Provisioning 6.8.1 Release Notes document and any or all parts of the Prime Provisioning 6.8 documentation set, might be upgraded over time. Therefore, we recommend that you access the Prime Provisioning documentation at:

<http://www.cisco.com/c/en/us/products/cloud-systems-management/prime-provisioning/index.html>

You can also navigate to this documentation set by clicking Help on the Home Page of the Prime Provisioning 6.8.1 product. The “[Related Documentation](#)” section on page 16 gives the URL for the most current version of each guide to be used with Cisco Prime Provisioning 6.8.1.

The information in this Cisco Prime Provisioning 6.8.1 Release Notes document gives you an overview of this release and helps you understand what has changed since Cisco Prime Provisioning 6.8. Please read this document prior to reading any other guides or documents for Cisco Prime Provisioning 6.8.1.



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## Introduction

Prime Provisioning is a management solution for network provisioning that enables the automation and scaling of complex, policy-driven network provisioning tasks to produce consistent and reliable service deployments. Prime Provisioning does this by planning, provisioning, and auditing services across core, aggregation, access, and consumer premises equipment devices.

Cisco Prime Provisioning enables fast deployment and time-to-market of Multiprotocol Label Switching (MPLS) and Carrier Ethernet technologies. In addition, the Prime Provisioning Traffic Engineering Management (TEM) module is Cisco's exclusive planning and provisioning tool for Cisco MPLS Traffic Engineering-enabled routers. MPLS Transport Profile (TP) provides service providers with a reliable packet-based technology that is based upon circuit-based transport networking, and hence is expected to align with current organizational processes and large-scale work procedures similar to other packet transport technologies.

The Cisco Prime Provisioning solution has management capabilities for MPLS VPN, L2VPN and Carrier Ethernet, MPLS TP, and MPLS Traffic Engineering. These capabilities that comprise Cisco Prime Provisioning can be used in a stand-alone manner or can be integrated with the Prime Carrier Management April 2016 suite and corresponding suite product updates.

Cisco Prime Provisioning 6.8.1 has new functionality added and changed since Prime Provisioning 6.8 (see the "[New Features and Enhancements in Prime Provisioning 6.8.1](#)" section on page 8) and fixes (see the "[Prime Provisioning 6.8.1 Resolved Bugs](#)" section on page 14).

The system recommendations for Prime Provisioning 6.8.1 are based on those for Prime Provisioning 6.8 (with some restrictions, as noted). The new devices and platforms supported in addition to those supported in Prime Provisioning 6.8 are referenced in the "[System Recommendations](#)" section on page 3.

Steps for installing Prime Provisioning 6.8.1 are found in the “[Installation Notes](#)” section on page 3, and other important information is found in the “[Finding Known Problems in Prime Provisioning 6.8.1](#)” section on page 16. For problems that were found and might still exist in Prime Provisioning 6.8.1 are explained in “[Prime Provisioning 6.8.1 Open Bugs](#)” section on page 15.

URLs for base information about Prime Provisioning 6.8.1 and an overview and suggested reading order of these documents are given in the *Cisco Prime Provisioning Documentation Overview 6.8*.

The Prime Provisioning 6.8.1 documentation includes the Prime Provisioning 6.8 document set and the updated information for Prime Provisioning 6.8.1 found in this Cisco Prime Provisioning 6.8.1 Release Notes. The entire documentation set is listed in the “[Related Documentation](#)” section on page 16.

## Web Browser Support

- Prime Provisioning 6.8.1 GUI is supported by the following browsers:
  - Internet Explorer 9, 10, and 11.
  - Firefox browser version 30, 31 and 37.
  - Firefox browser version ESR 24 and 31.

## System Recommendations

The system recommendations and requirements are listed in Chapter 1, System Recommendations, of the *Cisco Prime Provisioning Installation Guide 6.8*. For details on network devices and related software supported with Prime Provisioning 6.8.1, refer to *Cisco Prime Provisioning Supported Devices*.

We recommend that you thoroughly review that list before even planning your installation, to be sure you have all the hardware and software needed for a successful installation.

## Installation Notes

Prime Provisioning patches are available at:

<https://software.cisco.com/download/release.html?i=!y&mdfid=286308515&softwareid=284525453&release=6.8.1&os=>

This section contains the following information:

- [Version Supported, page 4](#)
- [Prime Provisioning 6.8.1 Patch Installation, page 4](#)
- [Upgrading Prime Provisioning, page 6](#)
- [Using the Upgrade Tool for Schema Upgrade, page 7](#)
- [Uninstall, page 8](#)

## Version Supported

You can install Prime Provisioning 6.8.1 on Prime Provisioning 6.8 or 6.8.0.1 or 6.8.0.2. Schema upgrade is supported from 6.8/6.8.0.1/6.8.0.2 to 6.8.1. Therefore, repository migration can only be performed from 6.8/6.8.0.1/6.8.0.2. To migrate from earlier releases (prior to 6.8), you must first upgrade to Prime Provisioning 6.8/6.8.0.1/6.8.0.2 release. See “[Prime Provisioning 6.8.1 Patch Installation](#)” section on page 4.

The procedure for upgrading from earlier releases is documented in the *Cisco Prime Provisioning Installation Guide 6.8*.

The Linux platforms supported by Prime Provisioning include: Red Hat Enterprise Linux, 64 bit, version 6.7.



### Note

Prior to installing Prime Provisioning 6.8.1, ensure that you take a back up of your repository, as explained in “Sybase Database Backup and Restore” section of the *Cisco Prime Provisioning Administration Guide 6.8*. The upgrade tool needs to be executed after installing the patch on database schema upgrade. For information on using this tool, see “[Using the Upgrade Tool for Schema Upgrade](#)” section on page 7.



### Note

The Sybase backup and restore tool (**iscBRToolASA.tar**) location has changed due to Sybase 16 upgrade and it needs to be copied from Prime Provisioning 6.8.1, image location. Earlier the location was Prime Provisioning installation directory.

Prime Provisioning 6.8.1, image location is available at:

<https://software.cisco.com/download/release.html?i=!y&mdfid=286308515&softwareid=284525453&release=6.8.1&os=>

## Prime Provisioning 6.8.1 Patch Installation

The following section describes the **common steps** of the scenarios included for Prime Provisioning 6.8.1 installation in standalone and suite mode:

- [6.8/6.8.0.1/6.8.0.2 to 6.8.1 Standalone or Suite Mode Installation](#)

The following section describes about the steps required for Suite Mode installation.

- [6.8/6.8.0.1/6.8.0.2 to 6.8.1 Suite Mode Installation](#)



### Note

**\$PRIMEF\_HOME** and **<PRIMEF\_HOME>** represents the location where the latest version of Cisco Prime Provisioning is installed. **<REPOSITORY\_HOME>** represents the location of the Repository folder created in the Prime Provisioning directory.

### 6.8/6.8.0.1/6.8.0.2 to 6.8.1 Standalone or Suite Mode Installation

To install Prime Provisioning 6.8.1 maintenance path in Standalone mode or Suite mode follow these steps:

**Note** To install Prime Provisioning 6.8.1, you must have 6.8 or 6.8.0.1 or 6.8.0.2 previously installed.

**Note**

Prior to installing Prime Provisioning 6.8.1, if you are moving a repository from one machine to another, the schema upgrade fails unless the repository has been initialized on the new machine. This requires that you successfully run **initdb.sh** on the repository to update the host entry. To run **initdb.sh**, execute the following command from **<PRIMEF\_HOME>** location: **./prime.sh initdb.sh**.

**Step 1** Before proceeding to install Prime Provisioning 6.8.1, ensure that you take a back up of your repository, as explained in “Sybase Database Backup and Restore” section of the *Cisco Prime Provisioning Administration Guide 6.8*.

**Step 2** Retrieve the Prime Provisioning 6.8.1 software (prime-provisioning-6\_8\_1-12.tar.gz) from here:  
<https://software.cisco.com/download/release.html?i=!y&mdfid=286308515&softwareid=284525453&release=6.8.1&os=>

**Note**

If you have difficulties accessing the software from this location, please go to Cisco.com and choose **Support > Downloads > Cloud and Systems Management > Routing and Switching Management > Fulfillment Products > Cisco Prime Provisioning**.

**Note**

You should place the retrieved tar file in a directory outside of the **<PRIMEF\_HOME>** directory structure.

**Step 3** Before you install Prime Provisioning 6.8.1, verify that you have 100 MB of free space in the **<PRIMEF\_HOME>** directory and that you are logged in with the same username as the owner of your supported version of Prime Provisioning.

**Step 4** Navigate to the directory where the Prime Provisioning 6.8.1 software is downloaded.

**Step 5** Untar (unzip) the software prime-provisioning-6\_8\_1-12.tar.gz using the command:

```
tar -xvf prime-provisioning-6_8_1-12.tar.gz
```

**Step 6** If Prime Provisioning is running, navigate to **<PRIMEF\_HOME>** directory and use the following command to stop the database, name server, and WatchDog on the machine on which it is running:

```
./prime.sh stop
```

**Note**

To check if Prime Provisioning is running, execute the command **./prime.sh status** in **<PRIMEF\_HOME>** location.

**Step 7** Use the following command to run the patch installation script:

```
./primepatchinstall
```

You will be prompted with the following message “Enter a new path or press **Enter** for the default [**<PRIMEF\_OWNER\_HOME\_DIR>/prime-provisioning-6\_8\_1-12/PrimeProvisioning**]”:

**Step 8** To specify the path, where the patch has to be installed, follow the steps below:

- a. Press **Enter**, if you want to accept the default path.
- b. Enter the path, where the prime has already been installed.
- c. To terminate the installer at any time, press **Ctrl-C**.

**Step 9** At the end of the installation, you will get the following message:

```
"Do you want to continue the installation in Standalone mode?"
```

Enter **yes** to finish the installation. This completes the installation process and the installation stops immediately.

**Step 10** If you want to install Prime Provisioning 6.8.1 in suite mode, enter **no** and follow from step 3 mentioned in the procedure [6.8/6.8.0.1/6.8.0.2 to 6.8.1 Suite Mode Installation](#).



**Note** You must execute the upgrade tool before starting the server. For detailed steps to upgrade, see [“Using the Upgrade Tool for Schema Upgrade”](#) section on page 7.

## 6.8/6.8.0.1/6.8.0.2 to 6.8.1 Suite Mode Installation

To continue installing the Prime Provisioning 6.8.1 maintenance patch in suite mode, follow these steps:

**Note** To install Prime Provisioning 6.8.1, you must have 6.8 or 6.8.0.1 or 6.8.0.2 previously installed.

**Step 1** During patch installation, if Prime Provisioning is installed in suite mode, you will get the following message:

```
"Do you want to continue the patch installation?[yes/no]"
```

To terminate the patch installation in suite mode, enter **no**.

**Step 2** Enter **yes** to continue with suite mode installation.

**Step 3** Enter the following details about the Prime Central database on prompt:

- Server IP Address- IP Address of the Prime Central Database server
- SID- Server instance identifier of the Prime Central Database server
- Port- Port number of the Prime Central Database server
- DB User- Database username of the Prime Central Database server
- DB Password- Database password associated with the above user name.

## Upgrading Prime Provisioning

If you want to migrate from an existing installation to Prime Provisioning 6.8.1, your upgrade path depends on which release you are upgrading from. This process is explained in detail in Chapter 4, “Upgrading Prime Provisioning” of the [Cisco Prime Provisioning Installation Guide 6.8](#).

## Upgrade Matrix

The various possible upgrade paths are described in [Table 1](#).

**Table 1** Upgrade Path to Prime Provisioning 6.8.1

Current Prime Provisioning Version	Procedure	Steps to Upgrade to Prime Provisioning 6.8.1 (run in order stated)	Supported Oracle Database	Supported OS
<ul style="list-style-type: none"> <li>6.8</li> <li>6.8.0.1</li> <li>6.8.0.2</li> </ul>	Direct	<Prime Provisioning installation directory>/upgradeTool	Enterprise Oracle 12C	Linux (Red Hat)
<ul style="list-style-type: none"> <li>6.6</li> </ul>	Upgrade to 6.6.1.8 and then to 6.8 and then follow steps to upgrade to 6.8.1	<Prime Provisioning installation directory>/upgradeTool	Enterprise Oracle 12C	Linux (Red Hat)
<ul style="list-style-type: none"> <li>6.5</li> </ul>	Upgrade to 6.5.0.9 and then to 6.7.1 and then to 6.8 and then follow steps to upgrade to 6.8.1	<Prime Provisioning installation directory>/upgradeTool	Enterprise Oracle 12C	Linux (Red Hat)
<ul style="list-style-type: none"> <li>Prior to 4.2.5</li> </ul>		E-mail <a href="mailto:isc-mktg@cisco.com">isc-mktg@cisco.com</a> for upgrade instructions	Enterprise Oracle 12C	Linux (Red Hat)



### Note

Cisco Prime Provisioning version 6.8.1 does not support direct upgrade from version 6.7.2.9 and 6.8.0.3. So, the customers using 6.7.2.9 and 6.8.0.3 must upgrade directly to 6.8.1.1. using 6.8.1.1 upgrade tool.

## Using the Upgrade Tool for Schema Upgrade

The following steps describe how to use the upgrade tool to update the database schema. To upgrade the schema from Prime Provisioning 6.8/6.8.0.1/6.8.0.2 to Prime Provisioning 6.8.1, follow these steps:

- Step 1** Copy the upgrade tool from the image location to any preferred location. For example:  

```
cp prime_provisioning_681_upgradeTool.tar.gz /opt/
```
- Step 2** Use the following command to untar or unzip **prime\_provisioning\_681\_upgradeTool.tar.gz**:  

```
tar -xvf prime_provisioning_681_upgradeTool.tar.gz
```
- Step 3** Unzip the file **isc-upgrade.zip** to extract its contents:  

```
unzip isc-upgrade.zip
```
- Step 4** Go to the **upgradeTool** folder and execute the following command to run the upgrade tool:  

```
$./upgradeISCSchema.sh $PRIMEF_HOME
```
- Step 5** Provide the admin credentials on prompt to continue with the upgrade tool installation.

Please enter ISC admin user name [admin]:  
Please enter admin password:

- Step 6** Navigate to **<PRIMEF\_HOME>**.
- Step 7** Execute **./prime.sh start** command to start Prime Provisioning.

## Uninstall

To uninstall the Prime Provisioning 6.8.1 maintenance release that was successfully installed, follow these steps:

- Step 1** Log in with the same user name as the owner of Prime Provisioning 6.8.1.
- Step 2** Navigate to the **<PRIMEF\_HOME>** directory.
- Step 3** If Prime Provisioning 6.8.1 is running, use the following command to stop the database, name server, and WatchDog on the machine on which it is running:  
**\$/prime.sh stop**
- Step 4** Navigate to the directory **<PRIMEF\_HOME>/patch/prime6.8.1-12**, where all the files replaced by the Prime Provisioning 6.8.1 maintenance release were stored.
- Step 5** Use the following command to run the patch script to uninstall:  
**\$/primepatchrollback**
  - a.** When you run this script, you are asked to ensure that you have followed the equivalent of **Step 1** and **Step 2**.
  - b.** To accept the default value for a prompt indicated in [ ], for example, [n] or [y], press **Enter**. To terminate the installer at any time, press **Ctrl-C**.
  - c.** You are asked if you would like to roll back the patch. Answer yes or no as prompted.
  - d.** At the end of the uninstall, you receive a message that the patch rollback is complete.



**Note** You can only restart Prime Provisioning if you restore a copy of the backed up repository from the version of the patch used prior to the Prime Provisioning 6.8.1 upgrade. Database schema cannot be rolled back once it is upgraded with upgrade tool.

## New Features and Enhancements in Prime Provisioning 6.8.1

This section describes features and enhancements added or modified in Prime Provisioning 6.8.1.

Prime Provisioning 6.8.1 is based on Cisco Prime Provisioning 6.8. Prime Provisioning 6.8.1 includes problems fixed since Cisco Prime Provisioning 6.8. See [“Prime Provisioning 6.8.1 Resolved Bugs” section on page 14](#).



**Note** Cisco Prime Provisioning 6.8.1 is only compatible with PCM April 2016 release. Make sure you upgrade to latest Prime suite components before upgrading and integrating the current version of Prime Provisioning.



**Note**

- Prime Provisioning can be used as a standalone product or as a part of Prime Carrier Management April 2016. When installed as part of the suite, you can launch Prime Provisioning from the Prime Central portal. For more information about Prime Central, see the documentation for [Cisco Prime Central](#).
- Cisco Prime for IP Next Generation Networks (IP NGN) has been renamed as Cisco Prime for Evolved Programmable Networks (EPN). Please keep this in mind when viewing the suite and application documentation for the upcoming Cisco Prime Carrier Management release.

Items specific to Prime Provisioning 6.8.1 include the new and changed information as documented in the following sections:

- Features introduced in Prime Provisioning 6.8.1.
  - [General Features, page 9](#)
  - [L2EVC/TDM-CEM New Features, page 11](#)

## General Features

This section summarizes the general features that were added in Prime Provisioning 6.8.1.

### Supporting NBI for IPv6 Address Pool

From this release, NBI support has been extended for **IPv6 Address** pool. IPv6 Address pool is used by MPLS services while automatically assigning the IPv6 Addresses from the pool.

Below is a sample **NBI XML** highlighting the tags, attributes and values required for creation of a new IPV6 Address pool.

```
<soapenv:Envelope>
  <soapenv:Header>
    <ns0:message id="199" timestamp="2016-07-05T17:15:38.885Z"
    sessiontoken="E4DBF8A8E61BF4A77FF8B6106819C433" />
  </soapenv:Header>
  <soapenv:Body>
    <ns1:createInstance>
      <objectPath xsi:type="ns1:CIMObjectPath">
        <className xsi:type="xsd:string">IPv6AddressPool</className>
        <properties xsi:type="ns1:CIMPropertyList" soapenc:arrayType="ns1:CIMProperty[]">
          <item xsi:type="ns1:CIMProperty">
            <name xsi:type="xsd:string">IPv6AddressPool</name>
            <value xsi:type="xsd:string">2090:588:af23::/110</value>
          </item>
          <item xsi:type="ns1:CIMProperty">
            <name xsi:type="xsd:string">SubnetMask</name>
            <value xsi:type="xsd:string">127</value>
          </item>
          <item xsi:type="ns1:CIMProperty">
            <name xsi:type="xsd:string">Region</name>
            <value xsi:type="xsd:string">Reg_00X</value>
          </item>
        </properties>
      </objectPath>
    </ns1:createInstance>
  </soapenv:Body>
</soapenv:Envelope>
```

```

    </ns1:createInstance>
  </soapenv:Body>
</soapenv:Envelope>

```

## NBI Support for Automatically Assigning the IPv6 Addresses

From this release, Prime Provisioning extended NBI support for automatically assigning the **IPv6 Addresses** for MPLS Services from the pool.

IPv6 Address allocation is supported only for **Regular: PE-CE MPLS** policy and services.

Below are the sample **NBI XML** snippets highlighting the tags, attributes and values required for automatically assigning the **IPv6 Addresses** from the pool during creation/modification of MPLS Policies.

```

<item xsi:type="ns1:CIMProperty">
  <name xsi:type="xsd:string">Auto_Assign_IPv6_Address</name>
  <value xsi:type="xsd:string">true</value>
  <qualifier xsi:type="ns1:CIMQualifier">
    <name xsi:type="xsd:string">editable</name>
    <value xsi:type="xsd:string">true</value>
  </qualifier>
</item>

<item xsi:type="ns1:CIMProperty">
  <name xsi:type="xsd:string">IPv6_Address_pool_type</name>
  <value xsi:type="xsd:string">Region Pool</value>
  <qualifier xsi:type="ns1:CIMQualifier">
    <name xsi:type="xsd:string">editable</name>
    <value xsi:type="xsd:string">true</value>
  </qualifier>
</item>

<item xsi:type="ns1:CIMProperty">
  <name xsi:type="xsd:string">IPv6_Address_pool_mask</name>
  <value xsi:type="xsd:string">126</value>
  <qualifier xsi:type="ns1:CIMQualifier">
    <name xsi:type="xsd:string">editable</name>
    <value xsi:type="xsd:string">true</value>
  </qualifier>
</item>

```



### Note

To create an IPv6 addressing based MPLS-SR via NBI, the Policy must be created with IP numbering scheme as **IPv6 Numbered**.

## Deprecating Config Audit Functionality

From this release, Prime Provisioning deprecates the Config Audit functionality.

In Prime Provisioning, whenever an SR is deployed, configlets are pushed into the devices and config audit functionality compares the generated configlet against the one downloaded to the device.

During subsequent modification of SR, config audit only compares the additional/modified configlets which are pushed into the device. This doesn't serve any purpose as it doesn't check whether the initial configlets pushed into the devices are still available and valid.

Config Audit functionality can be reactivated using DCPL properties. If the value of the DCPL property is set to true, Prime Provisioning will not perform config audit. If the value is set to false, Prime Provisioning will perform config audit. The default value of DCPL property is true.

DCPL Path:

Provisioning\ProvDrv\DeprecateConfigAudit



**Note**

Once the DCPL property is set to false, Prime Provisioning need to be restarted to re-display the Config Audit in the Task Manager.

## L2EVC/TDM-CEM New Features

This section summarizes features that were added to enhance EVC services in Prime Provisioning 6.8.1.

### Supporting Trunk EFP for ASR920 UPE device

In Prime Provisioning 6.8.1, a new attribute **Enable Trunk EFP** has been added in Service Request screens for UPE device, which gives flexibility to make many Layer 2 flow points within one interface. One interface can have only one trunk support and doesn't provide support for switchport trunk. Enable Trunk EFP attribute supports flex and non-flex. It appears in the screen only when the Links with L2 Access Nodes or Rings contain ASR920 device. It provides support only for ASR920 IOS device.

If Enable Trunk EFP check box is enabled user will get “**service instance trunk <id> ethernet and encapsulation dot1q add <id>/ encapsulation dot1q remove <id>**” commands. If this check box is checked, Inner VLAN, Autopick Outer VLAN and Autopic Inner VLAN are not supported. For Rewrite Type only Pop is supported.



**Note**

In SR modification, Encapsulation of VLAN Id does not support add and remove commands together due to XDE framework limitation. As a workaround, same can be achieved by using policy customization.

This is feature is supported through GUI, NBI and Physical Rings.

Below are the sample configlets:

```
service instance trunk <id> ethernet
  encapsulation dot1q add <value>
  rewrite ingress tag pop <id> symmetric
  bridge-domain from-encapsulation
```

### Extending E-Tree Functionality

From Prime Provisioning 6.8.1, E-Tree role functionality has been extended to generate neighbor commands under vfi for hubs with E-Tree role as root or leaf for EVC services.

In accordance with this functionality, when the **E-Tree** role of the **HUB** node is set as **ROOT**, under vfi, neighbor commands gets generated for all the other hubs, and when the **E-Tree** role of the **HUB** node is set as **LEAF**, under vfi, neighbor commands gets generated for only the hub node with E-tree role as root.

Below are the sample configlets.

**Example: HVPLS SR with E-Tree (2 HUBs\_root, 2 HUBs\_leaf)**

cl-test-l2-7600-5 (HUB-root)	isc-cl-test-l2-asr9006-3 (HUB_leaf)
<pre> bridge-domain 558 12 vfi vpn1-85254 manual   vpn id 85254   neighbor 192.18.156.71 encapsulation mpls   neighbor 192.168.5.49 encapsulation mpls   neighbor 192.169.105.65 encapsulation mpls vlan 558   exit interface GigabitEthernet2/2   service instance 885 ethernet   description EVC-JOBID:15   encapsulation dot1q 747   bridge-domain 558   exit interface Vlan558   no ip address   description EVC-JOBID:15   xconnect vfi vpn1-85254   no shutdown                     </pre>	<pre> interface GigabitEthernet0/1/0/12.552 l2transport   description EVC-JOBID:15   encapsulation dot1q 552   no shutdown l2vpn   bridge group Customer1   bridge-domain ISC-vpn1-85254   interface GigabitEthernet0/1/0/12.552   split-horizon group   vfi vpn1-85254     neighbor 171.16.150.47 pw-id 85254     neighbor 192.18.156.71 pw-id 85254                     </pre>
isc-asr903 (HUB_root)	isc-cl-test-me3800x-1 (HUB_leaf)
<pre> bridge-domain 669   exit 12 vfi vpn1-85254 manual   vpn id 85254   bridge-domain 669   neighbor 171.16.150.47 encapsulation mpls   neighbor 192.168.5.49 encapsulation mpls   neighbor 192.169.105.65 encapsulation mpls interface GigabitEthernet0/0/3   service instance 996 ethernet   description EVC-JOBID:15   encapsulation dot1q 369   bridge-domain 669   exit                     </pre>	<pre> bridge-domain 550   exit 12 vfi vpn1-85254 manual   vpn id 85254   neighbor 171.16.150.47 9632   encapsulation mpls no-split-horizon   neighbor 192.18.156.71 9632   encapsulation mpls no-split-horizon vlan 550   exit interface GigabitEthernet0/14   switchport mode trunk   switchport trunk allowed vlan none   service instance 554 ethernet   description EVC-JOBID:15   encapsulation dot                     </pre>

## Supporting SONET to SONET Provisioning

From this release, Prime Provisioning extended SONET–SONET provision support for EVC TDM-CEM services which will allow users to select **SONET** as a controller at A-End and Z-End. Prior to this release users were able to select SONET as a controller only at Z-End. In accordance with this functionality for CEM Container Type, a new value **SONET** controller has been introduced in both Policy editor screen and Service Request editor screen to provision SONET to SONET connectivity.

Supported Attributes are, when Framing Type is SDH:

- tug-3 Number: (ranges: 1-3)
- tug-2 Number: (ranges: 1-7)
- e1-Number: (ranges: 1-3)
- Time Slots: (1, 10-20, 24), (ranges: 1-31)

When Framing Type is SONET:

- sts-Number: (ranges: 1-3)

- VGT Number: (ranges: 1-7)
- T1 line-Number: (ranges: 1-4)
- Time Slots: (1, 10-20, 24), (ranges: 1-24)

These attributes are available in SR Link attribute at SR level.

Below are the sample configlets.

**Example 1:** Service Options: **SATop\_UNFRAMED**, CEM Container Type: **SONET** and Framing Type: **SONET**

isc-asr903b (A Terminal)	isc-cl-test-l2-7600-6 (Z Terminal)
<pre>Configlet #4, Job ID 81 (Created: 2016-11-11 02:55:04)  controller SONET 0/2/1   sts-1 2     mode vt-15     vtg 7 t1 3 cem-group 201 unframed interface CEM0/2/1   cem 201     xconnect 192.168.5.49 453 encapsulation mpls</pre>	<pre>Configlet #3, Job ID 81 (Created: 2016-11-11 02:57:56)  controller SONET 3/0/0   sts-1 2     vtg 6 t1 3 cem-group 908 unframed interface CEM3/0/0   cem 908     xconnect 1.1.78.79 453 encapsulation mpls</pre>

**Example 2:** Service Options: **CESoPN\_TIMESLOT**, CEM Container Type: **SONET** and Framing Type: **SDH**

isc-asr903b _A Terminal	ems7606c _Z Terminal
<pre>Configlet #1, Job ID 35 (Created: 2016-11-09 04:53:26)  controller SONET 0/2/2   au-4 1 tug-3 1     tug-2 1 e1 1 cem-group 342 timeslots 10 interface CEM0/2/2   cem 342     xconnect 20.10.10.100 5667 encapsulation mpls</pre>	<pre>Configlet #1, Job ID 35 (Created: 2016-11-09 04:53:26)  controller SONET 3/3/0   au-4 1 tug-3 1     tug-2 1 e1 1 cem-group 1 timeslots 10 interface CEM3/3/0   cem 1     xconnect 1.1.78.79 5667 encapsulation mpls</pre>

## API New Features

All Application Programming Interface (API) features are explained in detail in the [Cisco Prime Provisioning API Programmer Guide 6.8](#) and the accompanying [Cisco Prime Provisioning API Programmer Reference 6.8](#).

New features added in Prime Provisioning are generally available via both the GUI and APIs. See the respective sections in this document for a description of new features under each service.

## Deprecated and Removed Features

- The Config Audit functionality has been deprecated as of Prime Provisioning 6.8 and will be removed in a subsequent release. If needed, it can be reactivated using DCPL properties.
- The Simple Network Management Protocol (SNMP) has been removed as of Prime Provisioning 6.8.

## Prime Provisioning 6.8.1 Resolved Bugs

Customer-found bugs that have been fixed in the Prime Provisioning 6.8.1 release are indicated in the following table.

Bug ID	Description
CSCUh57354	NBI: Following issues seen while working with IPV6
CSCur02539	No error msg if VLAN translate 2:2 selected and outer vlan id left blank
CSCUw02855	RT pool not updated properly when 2 providers belong to same AS
CSCUw19040	Unable to create /32 IPv4 Address Pool with Customer and Region
CSCUy55175	MPLS SR with EVC using XR hangs in Sybase DB
CSCUy74217	following Issues observed while creating Multicast address pool
CSCuz83619	Error while saving outer vlan resource pool
CSCva10498	No validation on rewrite type when EFP Trunk enabled
CSCva63445	Outer-Vlan pool is not updated for both de devices which are part of IAD
CSCva67356	PP throwing error when inner vlan id is removed (local/vpls/pw)
CSCva71876	PP allowing to add devices with wrong verify password.
CSCva81888	TEM SR goes to INVALID state
CSCva83402	SR goes to failed deploy when vlan rewrite type is modified
CSCva92865	Ipv6 autopick: SR edit/save wrongly updates resource pool
CSCva94050	Getting java error while creating vlan pool using oracle database
CSCva97508	Getting sql error while creating VCID pool using oracle db(evc-pw)
CSCva98061	Getting java error while creating outer vlan pool using oracle database
CSCva99776	Getting java error while creating inner vlan pool using oracle database
CSCvb03661	Match Inner&outer tags is getting disabled on enabling outervlan ranges
CSCvb09606	NBI:MPLS SR cretion with Ipv6 addr autopick, fails
CSCvb16068	Error in saving SR2 when same values of SR1 are given after decommission
CSCvb22415	SRedit:ipv6 addr not released to pool whn changed frm autopick to manual
CSCvb38040	SONET" option is not displayed in CEMContainerType drop down in SR page
CSCvb53180	PP doesn't do any validation for MTU size(evc-vpls)
CSCvb55110	PP restricts vpls SR creation when bridge domain name / bridge group name in other SR.

Bug ID	Description
CSCvb78498	EVC_TDM_SONET: Not able to save Link attributes of A and Z-terminals
CSCvb80104	Error while saving EVC link attributes with Translate Rewrite type
CSCvb80490	VLAN ID Error while saving HVPLS SR
CSCvb87761	Upgrade from 6.8.0.1 to 6.8.1 fails in oracle db
CSCvb89101	Error while saving link attributes in EVC SR
CSCvb91327	EVC_TDM Z-End Link attributes are not getting saved
CSCvb95129	"ENABLE TRUNK" coulumn is missing in 6.8 to 6.8.1 and 6.8.0.2 to 6.8.1 upgrade
CSCvb98867	Fretta Testing_Configlets are not generated in Preview for EVC SR's
CSCvc07811	EVC_TDM_SONET_Preview error when Autopick CEM group Id enabled
CSCvc08282	EVC_TDM_Negate configlets are not removing from device when interface modified
CSCvc10485	EVC_TDM with Container Type-SONET _not able to excute NBI
CSCvc12014	EVC_TDM_CEosPN_SONET_Z-End Link attributes are not getting saved
CSCvc12391	DHR: Parser output error in preview deploy when EFP Trunk is enabled in EVC SR
CSCvc16038	SQL Exception during 6.8.1-10 patch installation using oracle DB
CSCvc19394	NBI: Enable Trunk EFP attribute not configured under UPE attributes
CSCvc21642	Restore and Restore_from_Live_Backup is not working in 6.8.1
CSCvc25081	MPLS:Issue seen while creating SR with ipv6 address autopick
CSCvc28111	Java exception while modifying EVC_TDM_SONET Controller SR via NBI
CSCvc29859	EVC_TDM_CEosPN_SDH framintype_Z-End Link attributes are not getting saved
CSCvc30065	EVC_VPLS/HVPLS_outer vlan error while modifying interface and Bridge domain
CSCvc31213	Internal error while trying to collect config from task manager

## Prime Provisioning 6.8.1 Open Bugs

The following open bugs apply to Prime Provisioning 6.8.1:

Bug ID	Description
CSCva94029	Negate Neighbor cmds are not generated while rehomng HVPLS_Etree SR
CSCvb15780	NBI: Error while rehomng XR to IOS device
CSCvb25592	SR goes to failed deploy when modif Autopick BGN to Manual with same vpn
CSCvb89853	IOS:Collect-config task failing to retrieve interfaces line card details
CSCvb91294	EVC TDM SR goes to failed deploy due to CONTROLLERS issue
CSCvc03057	Modification issues with EFP trunk is enabled on UPE device both GUI and NBI.
CSCvc08328	Pw-class and CEM group issues in EVC_TDM with Sonet controllers_GUI and NBI
CSCvc10368	Bridge-domain cmd not generated globally for NPE devices
CSCvc10429	Error while modifying non -flex VPLS _DHR and SHR SR
CSCvc10484	UPE_asr920: SR goes to FD due to encapsulation dot1q add cmd

Bug ID	Description
CSCvc10782	SR goes to FD due to 'encapsulation dot1q remove' cmd during decommission of last Vlan value
CSCvc26074	EFP Trunk checkbox is not enabled after deployment via NBI
CSCvc26508	Wrong configlets are generated when IOS device is used in non flex EVC SR
CSCvc31188	Neighbor cmds not generated for EVC PW SR with DHR when EFP Trunk is enabled
CSCvc38555	Neighbor cmds are generated for UPE device when EFP trunk is enabled in EVC PW SR
CSCvc38812	NBI :Issues in Resource pool allocation and deallocation
CSCvc43553	Internal error page is displayed while creating NPC in oracle db
CSCvc44016	NBI _Multiple issues with CEM group id and pw-class when manual CEM group is used

## Finding Known Problems in Prime Provisioning 6.8.1

To find known problems in Prime Provisioning 6.8.1, use the following URL:

<https://tools.cisco.com/bugsearch/search>

You must log into Cisco.com.

You can search for specific bugs or search for a range by product name. This tool enables you to query for keywords, severity, range, or version.

Use the following search criteria to locate bugs for Prime Provisioning 6.8.1:

- Product category: **Cloud and Systems Management > Routing and Switching Management > Fulfillment Products.**
- Product: **Cisco Prime Provisioning (6.3 to 6.8.1).**

The results display bug ID and title, found-in version, fixed-in version, and status. The bug ID is a hyperlink to detailed information for the bug ID's product, component, severity, first found-in, and release notes. The results could be displayed in a feature matrix or spreadsheet.

## Related Documentation

See the [Cisco Prime Provisioning Documentation Overview 6.8](#) for a list of all Prime Provisioning guides.

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

### Other Cisco Prime Product Documentation

If you are deploying Prime Provisioning as part of the Prime Carrier Management April 2016 suite, then see also the documentation for the other suite components:

- [Cisco Prime Central 1.5.1](#)
- [Cisco Prime Network 4.3.0.0.1](#)
- [Cisco Prime Optical 10.0](#)



- [Cisco Prime Performance Manager 1.6](#)

## Accessibility Features in Prime Provisioning

For a list of accessibility features in Prime Provisioning, visit Cisco's [Voluntary Product Accessibility Template \(VPAT\)](#) website, or contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

- All product documents are accessible except for images, graphics and some charts. If you would like to receive the product documentation in audio format, braille, or large print, contact [accessibility@cisco.com](mailto:accessibility@cisco.com).

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.

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