



Cisco Prime Provisioning 6.6.1 Release Notes

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Cisco Prime Provisioning 6.6.1 maintenance release contains the following enhancements:

- Provisioning ME1200 devices on EVC and MPLS services.
- Introduction of new script for updating sybase password.
- Supporting 32 bit BGP AS number.
- Introduction of new attributes in EVC and MPLS services.
- Carrier Ethernet 2.0 enhancements.

This is the first maintenance release based on Prime Provisioning 6.6. You can install Cisco Prime Provisioning 6.6.1 on Cisco Prime Provisioning 6.6 based server. Schema upgrade is supported from 6.6/6.5.0.5 to 6.6.1.

See the New Features and Enhancements in Prime Provisioning 6.6.1 for a list of point patches whose enhancements and defect resolutions have been merged into 6.6.1.

All documentation, including this Cisco Prime Provisioning 6.6.1 Release Notes document and any or all parts of the Prime Provisioning 6.6 documentation set, might be upgraded over time. Therefore, we recommend that you access the Prime Provisioning documentation at:

<http://www.cisco.com/go/provisioning>

You can also navigate to this documentation set by clicking Help on the Home Page of the Prime Provisioning 6.6.1 product. The Related Documentation gives the URL for the most current version of each guide to be used with Cisco Prime Provisioning 6.6.1.

The information in this Cisco Prime Provisioning 6.6.1 Release Notes document gives you an overview of this release and helps you understand what has changed since Cisco Prime Provisioning 6.6. Please read this document prior to reading any other guides or documents for Cisco Prime Provisioning 6.6.1.

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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 2014 suite.

Cisco Prime Provisioning 6.6.1 has new functionality added and changed since Prime Provisioning 6.6 (see the "[New Features and Enhancements in Prime Provisioning 6.6.1](#)" section) and fixes (see the "[Prime Provisioning 6.6.1 Resolved Bugs, page 21](#)" section).

The system recommendations for Prime Provisioning 6.6.1 are based on those for Prime Provisioning 6.6 (with some restrictions, as noted). The new devices and platforms supported in addition to those supported in Prime Provisioning 6.6 are referenced in the "[System Recommendations](#)" section.

Steps for installing Prime Provisioning 6.6.1 are found in the "[Installation Notes](#)" section, and other important information is found in the "[Finding Known Problems in Prime Provisioning 6.6.1](#)" section. For problems that were found and might still exist in Prime Provisioning 6.6.1, see the URL in the [Prime Provisioning 6.6.1 Open Bugs, page 21](#).

URLs for base information about Prime Provisioning 6.6.1 and an overview and suggested reading order of these documents is given in the [Cisco Prime Provisioning 6.6 Documentation Overview](#).

The Prime Provisioning 6.6.1 documentation includes the Prime Provisioning 6.6 document set and the updated information for Prime Provisioning 6.6.1 found in this Cisco Prime Provisioning 6.6.1 Release Notes. The entire documentation set is listed in the "[Related Documentation, page 23](#)" section.

New and Changed Information

The following table describes information that has been added or changed since the initial release of the Cisco Prime Provisioning 6.6.1 Release Notes.

Date	Revision	Location
June 25, 2014	Added a new section - Sybase Database Backup and Restore.	Sybase Database Backup and Restore
June 25, 2014	Added a new bug CSCup20976 - PP upgrade is failing, when /etc/hosts file entries are not proper.	Prime Provisioning 6.6.1 Open Bugs
August 11, 2014	Added a new section - Supporting LDAP Authentication.	Supporting LDAP Authentication
August 11, 2014	Added a new bug - Support of Entire Directory for LDAP Authentication on AD not available.	Prime Provisioning 6.6.1 Resolved Bugs

System Recommendations

The system recommendations and requirements are listed in Chapter 1, System Recommendations, of the *Cisco Prime Provisioning Installation Guide 6.6*. For details on network devices and related software supported with Prime Provisioning 6.6.1, 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:

<http://software.cisco.com/download/type.html?mdfid=285038617&flowid=60322>

This section contains the following information:

- [Version Supported, page 3](#)
- [Prime Provisioning 6.6.1 Patch Installation, page 4](#)
- [Using the Upgrade Tool for Schema Upgrade, page 7](#)
- [Uninstall, page 7.](#)

Version Supported

You can install Prime Provisioning 6.6.1 on Prime Provisioning 6.6. Schema upgrade is supported from 6.5.0.5/6.6 to 6.6.1.

Prime Provisioning 6.6.1 is a maintenance release on the Prime Provisioning 6.6 release. Therefore, repository migration can only be performed from 6.6 or later versions. To migrate from earlier releases (prior to 6.6), you must first upgrade to Prime Provisioning 6.6 release. See [“Prime Provisioning 6.6.1](#)

[Patch Installation](#)” section on page 4.

The procedure for upgrading from earlier releases is documented in the *Cisco Prime Provisioning Installation Guide 6.6*.



Caution

In addition to the privileges mentioned in the Prime Oracle User Account section of *Cisco Prime Provisioning Installation Guide 6.6*, you need to grant one more privilege to Oracle DB user using the query below before executing the upgrade tool.

```
GRANT SELECT ON sys.dba_constraints TO <<PRIME PROVISIONING Oracle DB username>>
```

This is applicable only if you use Oracle Database and not Sybase repository with Prime Provisioning installation.



Note

Prior to installing Prime Provisioning 6.6.1, ensure that you take a back up of your repository, as explained in [Sybase Database Backup and Restore](#). 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.

Prime Provisioning 6.6.1 Patch Installation

The following sections describe the **common steps** for the scenarios included for Prime Provisioning 6.6.1 installation in standalone and suite mode:

- [6.5.0.5 to 6.6.1 Standalone or Suite Mode Installation](#)
- [6.6 to 6.6.1 Standalone or Suite Mode Installation](#)

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

- [6.6 to 6.6.1 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.

6.5.0.5 to 6.6.1 Standalone or Suite Mode Installation

To install Prime Provisioning 6.6.1 maintenance path in Standalone mode or Suite mode follow these steps:

- Step 1** Perform Prime Provisioning 6.6 GUI installation on 6.5.0.5. For more information, see the section “Installing Prime Provisioning Using the GUI Installer” in the *Cisco Prime Provisioning Installation Guide 6.6*.
- Step 2** During Prime Provisioning 6.6 installation, provide the same home directory (**<PRIMEF_HOME>**) as used in 6.5.0.5 installation and choose the **Keep Existing Repository** option.

- Step 3** Once Prime Provisioning 6.6 is complete, perform the steps mentioned in the procedure [6.6 to 6.6.1 Standalone or Suite Mode Installation](#).

6.6 to 6.6.1 Standalone or Suite Mode Installation

To install Prime Provisioning 6.6.1 maintenance path in Standalone mode or Suite mode follow these steps:



- Note** Prior to installing Prime Provisioning 6.6.1, 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 6.6.1, ensure that you take a back up of your repository, as explained in [Sybase Database Backup and Restore](#).

- Step 2** Retrieve the Prime Provisioning 6.6.1 software (**prime-provisioning-6_6_1-12.tar.gz**) from here:
<http://software.cisco.com/download/type.html?mdfid=285038617&flowid=60322>



- 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 > Fullfillment 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 6.6.1, 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 6.6.1 software is downloaded.

- Step 5** Untar (unzip) the software **prime-provisioning-6_6_1-12.tar.gz** using the command:
tar -xvf prime-provisioning-6_6_1-12.tar.gz

- Step 6** If Prime Provisioning 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
```



- 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_6_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 6.6.1 in suite mode, enter **no** and follow the steps mentioned in the procedure [6.6 to 6.6.1 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](#).

6.6 to 6.6.1 Suite Mode Installation

To continue installing the Prime Provisioning 6.6.1 maintenance patch in suite mode, follow these steps:

Step 1 During patch installation, if Prime Provisioning 6.6 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.

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 6.5.0.5/ 6.6 to Prime Provisioning 6.6.1, follow these steps:

-
- Step 1** Copy the upgrade tool from the image location to any preferred location. For example:
cp prime_provisioning_6_6_1-12_upgradeTool.tar.gz /opt/
- Step 2** Use the following command to untar or unzip **prime_provisioning_661_upgradeTool.tar.gz**:
tar -xvf prime_provisioning_6_6_1-12_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 6.6.1 maintenance release that was successfully installed, follow these steps:

-
- Step 1** Log in with the same user name as the owner of Prime Provisioning 6.6.1.
- Step 2** Navigate to the **<PRIMEF_HOME>** directory.
- Step 3** If Prime Provisioning 6.6.1 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_6_1-12**, where all the files replaced by the Prime Provisioning 6.6.1 maintenance release were stored.
- Step 5** Use the following command to run the patch script to uninstall:
\$. /primepatchrollback
- When you run this script, you are asked to ensure that you have followed the equivalent of **Step 1** and **Step 2**.
 - 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**.
 - You are asked if you would like to roll back the patch. Answer yes or no as prompted.
 - 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 6.6.1 upgrade. You cannot perform patch rollback once the database schema is updated with upgrade tool.

Sybase Database Backup and Restore

It is important to protect all Prime Provisioning-related data by a well-defined backup and recovery plan. Data loss could occur due to the following reasons. The objective of Prime Provisioning's backup and recovery plan is to greatly minimize the risk of data loss due to any of these reasons:

- Media failure
 - The disk drive holding database files and other data files becomes unusable.
 - The database files and other data files become corrupted due to hardware or software problems.
- System failure
 - A computer or operating system goes down while there are partially completed transactions.

The Sybase Backup and Restore tool provides a suite of scripts with several options to back up and restore your embedded Sybase database.

The backup script automatically detects whether a full backup is needed for this current backup week. If a full backup already exists for this current backup week, this script automatically takes an incremental backup. However, the user can force a full backup overriding this default behavior by changing the configuration setting.

Installing the Sybase Backup and Restore Tool

Step 1 Download [iscBRToolASA_LINUX_04_30_2014.tar.gz](#) file.

Step 2 Create a folder to place all the backup files.

```
mkdir -p <PRIMEF_HOME>/backup/Sybase
```



Note <PRIMEF_HOME> represents the location where the latest version of Cisco Prime Provisioning is installed.

Step 3 Copy the downloaded tar file to this new folder.

Step 4 Untar this file as follows:

```
gzip -d <iscBRToolASA_LINUX_04_30_2014.tar.gz | tar xf -
```

Step 5 Navigate to the <PRIMEF_HOME> directory. and run the following command.

```
./prime.sh shell
```

This command gathers and compiles all the environment variables.

Step 6 Navigate to the directory \$PRIMEF_HOME/backup/Sybase/iscBRToolASA_LINUX and run the install command.

```
./install -t "path"
```

For the **path** attribute, you need to mention the entire location of the <BACKUP_INSTALL_DIR> folder that you create. All the files related to backup and restore tool will be available in <BACKUP_INSTALL_DIR> folder after a successful installation. <BACKUP_INSTALL_DIR> must be NFS accessible by both the primary and secondary systems. For help in the install script, use -h(elp) as a command line argument.

Sample Install Prompts and User Responses

The following is a sample install session:

```

#./install -t /opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup

/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup not exists do you want to
create it and continue? [y/n] [y]
Please Enter "y" for yes or "n" for no: y

install directory is: /opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup
Give the Database Details to Generate and source the env file
Host name: pff-lnx-vm022
Enter Primary Cisco Prime Provisioning user/owner name[root]:
Enter Database Server Name [root_pff-lnx-vm022]:
Cisco Prime Provisioning Primary Main Database Location:
/opt/prime-provisioning-6_6/Repository
Primary SLA Database Location:/opt/prime-provisioning-6_6/Repository
Cisco Prime Provisioning Primary Main Database Transaction
Location:/opt/prime-provisioning-6_6/Repository
Primary SLA Database Transaction Location:/opt/prime-provisioning-6_6/Repository
Enter Database Restore Directory Name:/opt/prime-provisioning-6_6/Repository

```

Post Install Status

The installation creates an env.sh script under the `<BACKUP_INSTALL_DIR>/BackupRestore/config` directory.

Editing the env.sh script is NOT RECOMMENDED. This env.sh script sets the necessary environment variables needed to run Prime Provisioning backup and restore scripts.

Configuring the Sybase Backup and Restore Tool

A one-time configuration is needed before the first backup is carried out.

- Step 1** Invoke the `asa_configs.sh` script to configure the backup and restore process. Execute this script from the directory `<BACKUP_INSTALL_DIR>/BackupRestore/scripts` as follows:

```
# ./asa_configs.sh
```

A sample configuration session is as follows, with the configuration prompt on the LHS and sample user response on the RHS of the prompt.

```

Starting backup Configuration for Main Prime Provisioning database
DB server Name...yourname_yourname-u10

Cisco Prime Provisioning Backup script invoked with the following parameters:
-----
Backup directory:
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups
Number of weeks to keep: 2
Backups archived to tape (0=no, 1=yes): 0
Tape device: /dev/rmt/0
Fail backup if there is not enough space for a full backup (0=no, 1=yes): 1
Delete old backups if not archived to tape (0=no, 1=yes): 0
Run validation routines on backup files (0=no, 1=yes): 0
Force full backup (0=no, 1=yes): 0

```

```

-----
The Cisco Prime Provisioning backup configuration file is nonexistent... creating new file
Modifying Prime Provisioning backup configuration settings ...
Enter new Prime Provisioning backup directory path (a subdirectory Cisco
Prime Provisioning will be added automatically.)
[/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups] [?]
Enter the number of weeks to keep [2] [?] 2
Old backups archived to tape (0=no, 1=yes) [0] [?]
Enter tape device [/dev/rmt/0] [?]
Fail backup if there is not enough space for a full backup (0=no,1=yes) [1] [?]
Delete old backups if not archived to tape (0=no, 1=yes) [0] [?]
Delete old backups specified is "0".
Run validation routines on backup files (0=no, 1=yes) [0] [?] 1
Force full backup (0=no, 1=yes) [0] [?] 0
Confirm these values
[1]Cisco Prime Provisioning backup directory path =
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in
[2]number of weeks to keep = 2
[3]Old backups archived to tape = 0
[4]tapeDevice = /dev/rmt/0
[5]Fail backup if there is not enough space for a full backup= 1
[6>Delete old backups if not archived to tape = 0
[7]Run validation routines on backup files = 0
[8]Force full backup = 0
    Do you want to modify any values ? [n] [y,n,?]
Cisco Prime Provisioning Backup configuration settings have been modified ...
If you wish to verify the values or modify them again then re-run the script
asa_configs.sh again
The Prime Provisioning backup engine is now exiting without backing up the database.You
must run the asa_backup.sh script for the backup to take place.
Prime Provisioning Backup Configuration Successfully completed
Prime Provisioning Backup Configuration script ending.
Starting backup Configuration for SLA database
DB server Name...yourname_yourname-u10
SLA Backup script invoked with the following parameters:
-----
Backup directory:
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups
Number of weeks to keep: 2
Backups archived to tape (0=no, 1=yes): 0
Tape device: /dev/rmt/0
Fail backup if there is not enough space for a full backup (0=no, 1=yes): 1
Delete old backups if not archived to tape (0=no, 1=yes): 0
Run validation routines on backup files (0=no, 1=yes): 0
Force full backup (0=no, 1=yes): 0
-----
The SLA backup configuration file is nonexistent ... creating new file
Modifying SLA backup configuration settings ...
Enter new SLA backup directory path (a subdirectory SLA will be added
automatically)
[/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups] [?]
Enter the number of weeks to keep [2] [?] 3
Old backups archived to tape (0=no, 1=yes) [0] [?]
Archive to tape option specified is "0".
Enter tape device [/dev/rmt/0] [?]
Fail backup if there is not enough space for a full backup (0=no,1=yes) [1] [?]
Delete old backups if not archived to tape (0=no, 1=yes) [0] [?]
Run validation routines on backup files (0=no, 1=yes) [0] [?]
Force full backup (0=no, 1=yes) [0] [?]
Confirm these values
[1]SLA backup directory path =
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA

```

```

[2]number of weeks to keep = 2
[3]Old backups archived to tape = 0
[4]tapeDevice = /dev/rmt/0
[5]Fail backup if there is not enough space for a full backup= 1
[6>Delete old backups if not archived to tape = 0
[7]Run validation routines on backup files = 0
[8]Force full backup = 0
Do you want to modify any values ? [n] [y,n,?]
SLA Backup configuration settings have been modified ...
If you wish to verify the values or modify them again then re-run the script
asa_configs.sh again
The SLA backup engine is now exiting without backing up the database. You must run the
asa_backup.sh script for the backup to take place.
SLA Backup Configuration Successfully completed
SLA Backup Configuration script ending.

```

Post Configuration Status

The configuration creates backupISC.config and backupSLA.config files under
<BACKUP_INSTALL_DIR>/BackupRestore/config directory.

To modify the initial configuration settings, users can either re-run the asa_configs.sh script or simply modify the contents of these config files. For example, if the user wants to suppress the validation of the database after each backup, the config file setting validateDB property to 0 instead of 1. Similarly, if the user wants to force full backup, set the property fullBackup=1.

How to Use the Backup Script

The backup script is used as follows:

-
- Step 1** Run the <BACKUP_INSTALL_DIR>/BackupRestore/script/asa_backup.sh script to initiate the backup task.
- a. The backup should be made while the Prime Provisioning database server is running. There is no need to stop Prime Provisioning to back up the database.
 - b. The backup directory path specified during the configuration process *must* be on an NFS device. It is important to keep the backup copies on an external storage device to protect the backup copies if the main Prime Provisioning system crashes.
 - c. Install the Backup and Restore tool and implement the periodic backup tasks from the primary Prime Provisioning host machine. However, the backup task can be carried out from a secondary system, provided the following conditions are met:
 - The main Prime Provisioning and SLA repository files should be placed on an NFS device accessible from the primary Prime Provisioning host system and the secondary Prime Provisioning host system.
 - The hardware and software configuration of the secondary system should be the same as the Prime Provisioning primary host system.
 - The same version of Prime Provisioning should be installed on both the primary and secondary systems.
 - The Backup and Restore tool should be installed on the secondary Prime Provisioning system.

- Step 2** Rerun the config script to make changes to the initial configuration settings, if needed.
-

Behavior of the Backup Process

- Step 1** The backup scripts follow a weekly backup scheme; the backup week begins on Sunday.
- Step 2** A full backup (both .db and .log files) is taken the first time the backup script is run during the backup week. Only incremental (only .log file) backups are taken for the remainder of the current backup week.
- Step 3** You can force a full backup instead of an automatic incremental backup by setting the fullBackup property to 1 in the backupISC.config and backupSLA.config file, before running the asa_backup.sh script.
- Step 4** A new subdirectory (under the user-specified backup directory) is created for each backup week. This directory is named as MM-DD-YYYY, where MM is the month and DD is the date of the Sunday of this backup week and YYYY is the year.
- Step 5** A subdirectory is created for each full backup and all the associated incremental backups under the above weekly directory. Each time a forced full backup is made for the current backup week, there is a new subdirectory created to contain this full backup and its associated incremental backups. The full backup directory for the current backup week is named full_0n.dir, where n is 1,2...9.
-

How to Restore the Database from the Backup

The `asa_restore.sh` script supports the following types of database restore:

1. A restore of a previous Full or incremental backup.
2. A recovery from a media failure on the database file.



Note

The main Prime Provisioning repository consists of repository.db and repository.log files and the SLA consists of sla.db and sla.log files. Prime Provisioning does not support placing the .db and .log files in different locations. Thus, if there is a media failure on the .db file, then the associated .log file also becomes unusable and thus this option might not be useful.

- Step 1** Run `<BACKUP_INSTALL_DIR>/BackupRestore/script/asa_restore.sh` script to initiate the restore task after being sure to follow these pre-conditions:
- a. The database server of Prime Provisioning should not be running. Failing to stop the database server results in an inconsistent database after the restore.
 - b. Follow the instructions and prompts carefully while running the scripts.
 - c. Do not copy, move, or delete the repository files under `<REPOSITORY_HOME>`.

A sample configuration session is as follows, with the configuration prompt on the LHS and sample user response on the RHS of the prompt.

```
Starting restore of Main Cisco Prime Provisioning database
DB Server Name...root_pff-lnx-vm022
Restore Script
This script will restore the Sybase database from a previous backup
```

that is saved on the system. The database backup consists of two files; the primary database file and the transaction log file. The transaction log is a separate file from the database file. It stores all changes to the database. Inserts, updates, deletes, commits, rollbacks, and database schema changes are all logged. The transaction log is also called the forward log or the redo log. For an incremental backup the transaction log file is the only file saved. This script can restore a database from a previous backup as desired or if you had a media failure (database crash) on the database file located in /opt/prime-provisioning-6_6/Repository/repository.db.

This restore utility is not able to recover the database if you had a media failure on the transaction log file. You can perform a partial recovery by renaming the current transaction log file and starting the database with the -f switch.

```
(eg: /opt/prime-provisioning-6_6/thirdparty/sybase/bin/dbsrv11
/opt/prime-provisioning-6_6/Repository/repository.db -f)
```

If you are trying to recover from a media failure(database crash) on the database file then you need to select the *latest full backup* and the *latest incremental backup*. Then this script will first restore the database up to the point of latest incremental backup

and then will attempt to recover the transactions between the last (latest) incremental and the point of failure. Please answer "y" if are recovering from a media failure (Database crash) or "n" if you are restoring from a previous backup. Are you recovering from a Media failure (Default: n)?

```
asa_restoreEngine.sh[497]: =: not found [No such file or directory]
Restoring backup from
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in
Checking to see if the database is running . . .
The database is not running.
-----
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in
1) 06-15-2014
Please select the backup week you wish to restore? [1,2,...]?
1
Is this 06-15-2014 the week you wish to restore[yes or no]?
yes
The backup week of 06-15-2014/ has 1 full backups
1) Date: Jun 17 06:56 Backup DB File: full_01.dir/repository.db
Please select the full backup you wish to restore? [1,2,...]?
1
Is this 1 the backup you wish to restore[yes or no]?
yes
In addition to the full backup there is one or more incremental backups that can be
restored
1) Date: Jun 17 06:56 Incremental DB File: 14061701.log
Please select the incremental backup you wish to restore? [1,2,...]?
1
Is this 1 the backup you wish to restore [yes or no]?
yes
Restoring to incremental backup
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in//full_01.dir/14061701.log
Restoring database . . .
Copying
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in/06-15-2014//full_01.dir/repository.db to
/opt/prime-provisioning-6_6/Repository/repository.db
```

```

Restoring Incremental
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/ISCMa
in/06-15-2014//full_01.dir/14061701.log . . .
Copying
/opt/Backup/PP661Database_Backup/BackupRestore/Backups/ISCMaIn/06-15-2014//full_01.dir/140
61701.log /opt/prime-provisioning-6_6/Repository
/opt/prime-provisioning-6_6/thirdparty/sybase/bin/dbsrv11
/opt/prime-provisioning-6_6/Repository/repository.db -a
/opt/prime-provisioning-6_6/Repository/14061701.log -o /tmp/restoredbISC.065845
-----
SQL Anywhere Network Server Version 11.0.1.2044
OEM Authenticated Edition, licensed only for use with authenticated OEM applications.

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2 logical processor(s) on 1 physical processor(s) detected.
Networked Seat (per-seat) model. Access to the server is limited to 1 seat(s).
This server is licensed to:
    Eoan Kerr
    Cisco Systems Ltd
Running Linux 2.6.18-194.8.1.el5 #1 SMP Wed Jun 23 10:52:51 EDT 2010 on X86_64
Server built for X86_64 processor architecture
39384K of memory used for caching
Minimum cache size: 8192K, maximum cache size: 7354120K
Using a maximum page size of 8192 bytes
Starting database "repository" (/opt/prime-provisioning-6_6/Repository/repository.db) at
Tue Jun 17 2014 06:59
Database recovery in progress
    Last checkpoint at Tue Jun 17 2014 06:56
    Checkpoint log...
    Transaction log: /opt/prime-provisioning-6_6/Repository/14061701.log...
    Checkpointing...
Starting checkpoint of "repository" (repository.db) at Tue Jun 17 2014 06:59
Finished checkpoint of "repository" (repository.db) at Tue Jun 17 2014 06:59
Recovery complete
Database server shutdown automatically after log applied
Database server stopped at Tue Jun 17 2014 06:59
-----
Do you want this script to bring up the database and Cisco Prime Provisioning servers?
no
Successfully completed
Restore script ending.
Starting restore of SLA database
DB Server Name...iscadm_pff-rhel5-vm40
Restore Script
This script will restore the Sybase database from a previous backup
that is saved on the system. The database backup consists of two
files; the primary database file and the transaction log file. The
transaction log is a separate file from the database file. It
stores all changes to the database. Inserts, updates, deletes,
commits, rollbacks, and database schema changes are all logged. The
transaction log is also called the forward log or the redo log.
For a incremental backup the transaction log file is the only file saved.
This script can restore a database from a previous backup as desired or if you
had a media failure (database crash) on the database file located in
/opt/prime-provisioning-6_6/Repository/sla.db.

This restore utility is not able to recover the database if you had
a media failure on the transaction log file. You can perform a partial
recovery by renaming the current transaction log file and starting the
database with the -f switch.

```

```
(eg: /opt/prime-provisioning-6_6/thirdparty/sybase/bin/dbsrv11
/opt/prime-provisioning-6_6/Repository/sla.db -f )
```

If you are trying to recover from a media failure(database crash) on the database file then you need to select the *latest full backup* and the *latest incremental backup*. Then this script will first restore the database up to the point of latest incremental backup

and then will attempt to recover the transactions between the last (latest) incremental and the point of failure. Please answer "y" if are recovering from a media failure (Database crash) or "n" if you are restoring from a previous backup. Are you recovering from a Media failure (Default: n)?

```
asa_restoreEngine.sh[497]: :=: not found [No such file or directory]
Restoring backup from
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA
Checking to see if the database is running . . .
The database is not running.
-----
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA
1) 06-15-2014
Please select the backup week you wish to restore? [1,2,...]?
1
Is this 06-15-2014 the week you wish to restore[yes or no]?
yes
The backup week of 06-15-2014/ has 1 full backups
1) Date: Jun 17 06:56 Backup DB File: full_01.dir/sla.db
Please select the full backup you wish to restore? [1,2,...]?
1
Is this 1 the backup you wish to restore[yes or no]?
yes
In addition to the full backup there is one or more incremental backups that can be
restored
1) Date: Jun 17 06:56 Incremental DB File: 14061701.log
Please select the incremental backup you wish to restore? [1,2,...]?
1
Is this 1 the backup you wish to restore [yes or no]?
yes
Restoring to incremental backup
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA/0
6-15-2014//full_01.dir/14061701.log
Restoring database . . .
Copying
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA/0
6-15-2014//full_01.dir/sla.db to
/opt/prime-provisioning-6_6/backup/Sybase/Repository/sla.db
Restoring Incremental
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA/0
6-15-2014//full_01.dir/14061701.log . . .
Copying
/opt/prime-provisioning-6_6/backup/Sybase/PP661Database_Backup/BackupRestore/Backups/SLA/0
6-15-2014//full_01.dir/14061701.log /opt/prime-provisioning-6_6/Repository
/opt/prime-provisioning-6_6/thirdparty/sybase/bin/dbsrv11
/opt/prime-provisioning-6_6/Repository/sla.db -a
/opt/prime-provisioning-6_6/Repository/14061701.log -o /tmp/restoredbSLA.065925
-----
SQL Anywhere Network Server Version 11.0.1.2044
OEM Authenticated Edition, licensed only for use with authenticated OEM applications.

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http://www.sybase.com/softwarelicenses
```

2 logical processor(s) on 1 physical processor(s) detected.

```

Networked Seat (per-seat) model. Access to the server is limited to 1 seat(s).
This server is licensed to:
    Eoan Kerr
    Cisco Systems Ltd
Running Linux 2.6.18-194.8.1.el5 #1 SMP Wed Jun 23 10:52:51 EDT 2010 on X86_64
Server built for X86_64 processor architecture
8192K of memory used for caching
Minimum cache size: 8192K, maximum cache size: 7354116K
Using a maximum page size of 4096 bytes
Starting database "sla" (/opt/prime-provisioning-6_6/Repository/sla.db) at Tue Jun 17 2014
06:59
Database recovery in progress
    Last checkpoint at Tue Jun 17 2014 06:56
    Checkpoint log...
    Transaction log: /opt/prime-provisioning-6_6/Repository/14061701.log...
    Checkpointing...
Starting checkpoint of "sla" (sla.db) at Tue Jun 17 2014 06:59
Finished checkpoint of "sla" (sla.db) at Tue Jun 17 2014 06:59
Recovery complete
Database server shutdown automatically after log applied
Database server stopped at Tue Jun 17 2014 06:59
-----
Do you want this script to bring up the database and Cisco Prime Provisioning servers?
no
Successfully completed
Restore script ending.
    
```

New Features and Enhancements in Prime Provisioning 6.6.1

This section describes features and enhancements added or modified in Prime Provisioning 6.6.1.

Prime Provisioning 6.6.1 is based on Cisco Prime Provisioning 6.6. Prime Provisioning 6.6.1 includes problems fixed since Cisco Prime Provisioning 6.6. See [Prime Provisioning 6.6.1 Resolved Bugs](#), page 21.



Note

Cisco Prime Provisioning 6.6.1 is only compatible with Cisco Prime Central 1.3. Make sure you upgrade Cisco Prime Central to version 1.3 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 2014. 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 6.6.1 include the new and changed information as documented in the following sections:

- Features introduced in Prime Provisioning 6.6.1.
 - [General New Features, page 17](#)
 - [L2VPN/EVC/TDM-CEM/ATM New Features, page 19](#)
 - [MPLS New Features, page 20](#)

General New Features

All the new features introduced in this maintenance release are explained below.

Configuring Sybase Credentials

In Prime Provisioning 6.6.1 release, `changeDBPassword.sh` script has been introduced to update Sybase database password. This script is available in `<PRIMEF_HOME>/bin`. It allows only the installation owner to execute it with the initial credentials. It also validates if the database is running properly.

Adhere to the rules below, while updating the Sybase password:

- You should not enter a simple password or any of your old passwords.
- Password must contain at least: one uppercase letter, one lowercase letter, and one number.
- Password length should be in the range of 8 to 30 characters.
- Special characters and ASCII character set are not allowed.

Once the password is updated, you need to validate the backup and restore process, and upgrade Paths.

Use the following steps to execute the script:

-
- Step 1** Navigate to the directory where the latest version of Prime Provisioning software is installed.
 - Step 2** In `<PRIMEF_HOME>/bin`, execute the following script:
`./changeDBPassword.sh`
 - Step 3** Enter the valid username and password.
 - Step 4** After the validation, you will be prompted with the following message “Enter database new password:”.
 - Step 5** Enter a valid new password that adhere to the guidelines mentioned above.

Prime Provisioning gets restarted automatically once the new password is updated in the database and the properties file.

As a part of this feature, few scripts related to Backup and Restore tool installation has been modified.



Note From this release, you will be no longer prompted with the Sybase credentials during the installation of the Backup and restore tool.

Supporting 32 Bit BGP AS Number

Earlier while creating a provider, you were allowed to enter only 16 bit number within the range of 1 to 65535 as the BGP AS number. But from this release, Prime Provisioning accepts a 32 bit number with a value range from 1 to 4294967295 as the BGP AS number.

But this also has an impact on the RD and RT values associated with the BGP AS number.

ASNumber:VPN ID/index (hex or decimal format)

When BGP AS is a 16 bit number, you need to enter a 32 bit value as the VPN ID/index and vice versa. If these values are not entered correctly, the service request moves to failed deploy state.

Supporting LDAP Authentication

Prime Provisioning provides support with LDAP authentication for a more secured environment. You can use either **Oracle Directory Service Enterprise Edition 10g and 11g** or **Microsoft Active Directory** as your LDAP server.

To perform authentication using LDAP server, you need to set the following attributes in the DCPL properties section:

- **DistinguishedName**
- **HostName**
- **LdapAuthentication**
- **UserDefinedException**

From Prime Provisioning 6.5.0.5 release, Distinguished Name property supports two formats. If the property contains {0} then it is used as a DN template, otherwise it is used as a DN suffix with uid used as a prefix.

For identifying users within a group or subgroup:

```
Ldap.DistinguishedName=
OU=Employees,OU=Cisco Users,DC=cisco,DC=com
```

This format type is used in **Oracle LDAP**.

Sample result of this format: uid=donaldh,OU=Employees,OU=Cisco Users,DC=cisco,DC=com as the bind DN.

```
Ldap.DistinguishedName=
cn={0},OU=Employees,OU=Cisco Users,DC=cisco,DC=com
```

This format type is used in both Oracle and MS AD LDAP.

Sample result of this format: cn=donaldh,OU=Employees,OU=Cisco Users,DC=cisco,DC=com as the bind DN.

From Prime Provisioning 6.6.1.1, in MS AD LDAP along with the above format you can also mention the DN in two different formats.

For identifying users within a Domain:

```
Ldap.DistinguishedName=cisco\{0}
```

For identifying users from the entire Directory:

```
Ldap.DistinguishedName=Entire Directory
```

For successful authentication, the user must be created in both Prime Provisioning and LDAP server with same or different passwords. But when you login into Prime provisioning by enabling LdapAuthentication, you need to enter the password that was configured in LDAP server.

L2VPN/EVC/TDM-CEM/ATM New Features

This section summarizes features that were added to enhance EVC services in Prime Provisioning 6.6.1.

Provisioning ME1200 Devices on EVC Services

ME1200 devices when provisioned as UPE role based has access to EVC services such as E-Line, ELAN and E-Tree. Prime Provisioning supports these devices to be used either as single homed access circuit and single/double homed ring circuit. Additional interface configuration is provided for single and dual home ring circuit. The devices are supported with the following EVC features:

- DOT1Q - to - DOT1Q provisioning using bridge-domain.
- DEFAULT AND UNTAGGED encapsulation provisioning at UNI interface using bridge-domain
- Rewrite type (POP/PUSH/TRANSLATE) support at UNI interface.
- Outer VLAN Range are supported with the list of VLANs provided in a hyphenated form. Comma separated form is not supported in the device.



Note

While creating the ME1200 device, select the OS type as ME1200. These devices does not support different Encapsulation and rewrite type functionalities in a NON-UNI interface.

Creating EPL and EVPL policy

In this release, a new attribute UNI Multiplexing has been introduced as a check box in the EVC policy editor screen. This attribute helps in creating EPL and EVPL policy.

- To create an EVPL policy, check the UNI Multiplexing check box.
- To create an EPL policy, uncheck the UNI Multiplexing check box.



Note

By default, the check box is always checked

When you create an SR using EPL policy with an interface, then that interface is not available for further provisioning of any EPL or EVPL services. When you create an SR using EVPL policy with an interface, then that interface will be available for provisioning EVPL services but not for EPL services. This feature is supported through both GUI and NBI.

Generating Automatic CEM Group ID

In Prime Provisioning, a new attribute Auto-Pick CEM Group ID has been introduced in the EVC service request editor for TDM services. By default, this attribute is always checked as there is no corresponding attribute at the policy level. You can view the auto-generated CEM group ID after deploying the service request in the CEM group ID text box.

When the Auto-Pick CEM Group ID check box is checked the CEM group ID text box is disabled. To enter the value manually, you need uncheck the former and enter the value in the latter. This feature is supported by both GUI and NBI.



Note

While generating CEM group ID using this feature, Prime Provisioning does not consider the pre-existing services on the device.

Configuring Encapsulation

In Prime Provisioning, a new attribute Match has been introduced in Policy Editor for configuring flex encapsulation types. New encapsulation type PRIORITY TAGGED has been introduced to this Match attribute at the SR level along with the existing types.

The types of encapsulation available both at policy and SR level are: DOT1Q, DEFAULT, UNTAGGED, and PRIORITY TAGGED. This feature is supported through both GUI and NBI.

Setting Framing Type for TDM Services at Policy Level

In Prime Provisioning, Framing Type attribute has been introduced at the policy level for TDM services. Earlier this attribute existed only at the SR level. The Framing type options available are: SDH, SONET. This feature is supported through both GUI and NBI.



Note

By default, the framing type is always set to SDH.

MPLS New Features

This section summarizes the new MPLS features that were added in Prime Provisioning 6.6.1.

Provisioning ME1200 Devices on MPLS Services

ME1200 devices when provisioned as UPE role based have access to MPLS services. Prime Provisioning supports these devices to be used either as single homed access circuit and single/double homed ring circuit. Additional interface configuration is provided for single and dual home ring circuit. The devices are supported with the following MPLS features:

- DOT1Q - to - DOT1Q provisioning using bridge-domain.
- UNTAGGED encapsulation provisioning at UNI interface using bridge-domain
- Rewrite type (PUSH/TRANSLATE) support at UNI interface.



Note

While creating ME1200 device, select the OS type as ME1200. These devices do not support different Encapsulation and rewrite type functionalities in NON-UNI interface.

API New Features

All Application Programming Interface (API) features are explained in detail in the [Cisco Prime Provisioning API Programmer Guide 6.6](#) and the accompanying [Cisco Prime Provisioning API Programmer Reference 6.6](#).

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.

Prime Provisioning 6.6.1 Resolved Bugs

Customer-found bugs that have been fixed in the Prime Provisioning 6.6.1 release are indicated in the following table.

Bug ID	Description
CSCui65115	Invalid error message for UI IPV4 attribute.
CSCui65132	UI variable names with leading space are not recognized during verify.
CSCui71945	Controller selected in SR- getting reset on service creation - echo mode.
CSCum25201	SR Manager page is blank when logged into Prime Provisioning.
CSCun70723	Assigning CPE role to Cisco router with locator-id throws Error in NBI.
CSCuo53384	L2vpn SR move to invalid state on modifying E-Line name.
CSCup62889	Support of Entire Directory for LDAP Authentication on AD not available.

Prime Provisioning 6.6.1 Open Bugs

The following open bugs apply to Prime Provisioning 6.6.1:

Bug ID	Description
CSCuj09628	Exclude Node doesn't release add/sub bandwidth appropriately.
CSCuj16792	Fixing SR path is not proper when a link is broken in working path.
CSCul47134	Error on modifying the path constraint through NBI for invalid SR.
CSCul57981	Decomm removing the pw-class even if it is associated with other SR.
CSCul61960	SecondSR with same VPN, VLANID goes to Failed Deploy when Decommissioned.
CSCul86751	Unable to Modify a deployed SR due to presence of IP SLA.
CSCum81855	Back-up PW created in MS when 2 devices added, PW redundancy enabled.
CSCum92491	Reserved BW widget not required in Non MultiSegment SRs.
CSCun04823	EPN3.0: Manual config-collect required for newly-created non-phy. I/Fs
CSCun04884	EPN 3.0: Hard limit of 2 on Max. concurrent Sybase sessions.
CSCun06980	NBI: The SRs goes to Deploy state when wrong BW is updates or given.
CSCun12790	Cannot create "encapsulation dot1q" config using L2VPN PWether interface.
CSCun47359	EPN 3.0 : PW-Eth evc policy creates PW-Eth l2transport subif by default.
CSCun47937	Mod of SI page attributes when SI name is given manually throws error.
CSCun48143	No SR navigation to Invalid state.
CSCun76165	SVI validation missing when in NPE interface VLAN is removed in ring.
CSCun78220	Rehoming NPc-A fails to generate 'backup peer' cmd in PW Redundancy SR
CSCun78285	NBI Link attribute modification SR with PW Redundancy failed to deploy.

Bug ID	Description
CSCun80567	NBI Modification SR failed to deploy if we remove existing PW Class.
CSCun88645	Data not being written into USER_ORIGIN_HOST field in UAL_LOG db table.
CSCuo21302	Prov-There is no process for upgrading from Sol with 6.4 to RH with 6.6.
CSCuo51574	Configlet is improper when PW class removed in redundant EVC-PW via NBI.
CSCuo51729	Configlet is improper while modifying PW class in redundant EVC-PW SR.
CSCuo56744	Additional PW Class gets created for single link in EVC-HVPLS MS PW SR.
CSCuo65541	CLI is not generated for XR device with ATM interface in EVC-ATM Ethern.
CSCuo67840	Improper error message populating when we give invalid value in xml.
CSCuo75860	Device Rule drop down shows 'non-supported' devices.
CSCuo77791	No validation performed on combo list.
CSCuo89752	Auto pick CEM group id always starting with 0 though exists in interface.
CSCuo95710	Not able to save the modified CPE attribute in CPE Attribute page.
CSCup20976	PP upgrade is failing, when /etc/hosts file entries are not proper.

Finding Known Problems in Prime Provisioning 6.6.1

To find known problems in Prime Provisioning 6.6.1, 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 6.6.1:

- Product category: **Cloud and Systems Management > Routing and Switching Management > Fulfillment Products.**
- Product: **Cisco Prime Provisioning (6.3 to 6.6.1).**

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

The entire documentation set for Prime Provisioning, can be accessed at:

http://www.cisco.com/en/US/products/ps12199/tsd_products_support_series_home.html

An overview of the Cisco Prime Provisioning product is available at:

<http://www.cisco.com/go/provisioning>

The following documents comprise the Prime Provisioning 6.6.1 documentation set:

General Documentation (in suggested reading order)

- [Cisco Prime Provisioning 6.6 Documentation Overview](#)
- [Cisco Prime Provisioning Release Notes 6.6.1](#)
- [Cisco Prime Provisioning Installation Guide 6.6](#)
- [Cisco Prime Provisioning Supported Devices 6.6](#)
- [Cisco Prime Provisioning User Guide 6.6](#)
- [Cisco Prime Provisioning Administration Guide 6.6](#)
- [Cisco Prime Provisioning Open Source 6.6](#)

API Documentation

- [Cisco Prime Provisioning API Programmer Guide 6.6](#)
- [Cisco Prime Provisioning API Programmer Reference 6.6](#)

**Note**

All documentation *might* be upgraded over time. All upgraded documentation will be available at the same URL's specified in this document.

Other Cisco Prime Product Documentation

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

- [Cisco Prime Central](#)
- [Cisco Prime Network](#)
- [Cisco Prime Optical](#)
- [Cisco Prime Performance Manager](#)

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.

- 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.

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>

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