

Cisco Prime Network 3.9.0 VNE Device Package Installation Guide

Date: April 04, 2013

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1 Overview: Installing and Uninstalling Device Packages

This VNE Device Package Installation guide is a common guide to install any Cisco Device Package on Cisco Prime Network 3.9 server.

To install a Device Package (DP), follow these steps:

Step	Description	Described in:
1	Make sure your system meets the prerequisites.	Section 2
2	Copy the downloaded DP file to the proper location.	Section 4
3	Use the ivne script to install the DP.	Section 5
4	Install the DP	Section 6
5	Restart the VNEs to Apply the new Driver package	Section 8
6	List the contents of the DP installed	Section 7
7	Uninstall the DP	Section 9

2 Installation Prerequisites

Before installing the Device Package, make sure of the following:

1. Verify that Cisco Prime Network 3.9 is installed on the server.
2. Log into Cisco.com and navigate to [Cisco Prime Network > Prime Network VNE Drivers](#) to download the Prime Network Cisco VNE Device packages
3. If your configuration is using the HA/DR (gateway high availability) solution, in the VERITAS Cluster Manager Application, uncheck the critical flag from the Cisco ANA gateway resource.
4. If you are using the GEO HA solution, install the Device Package on the active server. It will be downloaded to the standby server and units.

3 Naming Convention of the Device package tar file

The Cisco VNE Device packages would have the following naming convention going forward

PrimeNetwork-3.8.xTo3.9.x-DPymm.tar

For example - PrimeNetwork-3.8.xTo3.9.x-DP1206.tar

PrimeNetwork – indicates the product on which the Device package is supported

3.8.xTo3.9.x – Indicates the device package is supported on Prime Network releases , for example , Prime Network 3.8 , 3.8.1 and 3.9

DPyymm – Indicate year and month in which the package is released. For example , the Device package released in June would carry , DP1206. Likewise , Device package released in July would carry – 1207

PrimeNetwork-3.8.xTo3.9.x-DP1206.tar – indicates the device package is released in June 2012 and is supported on Prime Network 3.8 , 3.8.1 and 3.9

4 Copying the DP File to a Central Location

Create a new directory for the DP and copy the DP file to that new directory:

1. Create a new directory outside of the \$PRIME_NETWORK_HOME directory. For example, the following creates a directory named VNEDP under /export/home/:

```
% cd /export/home
% mkdir VNEDP
```

2. Download the device package from `Cisco.com` to a central repository server. Using ftp, copy the DP file (for example, PrimeNetwork-3.8.xTo3.9.x-DP1206.tar) into the newly-created directory. In this example, the DP file would exist in the following location:

```
/export/home/VNEDP/PrimeNetwork-3.8.xTo3.9.x-DP1206.tar
```

3. Grant the directory *networkuser* permissions. (*networkuser* is the UNIX account for the Cisco Prime Network application.) In this example, *networkuser* is **network39**.

```
% chown -R network39:ana VNEDP; chmod -R 777 VNEDP
```

5 Using the ivne Script

This section provides some general information on the ivne script, which is used to install VNE Device packages. For more information on the ivne script, see the [Cisco Active Network Abstraction 3.9 Administrator Guide](#).)

#	Option	Description	Use this when...
1	Install VNE Device Package from a local directory	Installs device packages from the downloaded device package tar on the gateway server	<ul style="list-style-type: none"> You want to install the entire Device Package or individual jar files.
2	Install VNE Device Package from a Web Repository	Installs device packages from a remote host such as a web server that is providing central support to multiple Cisco Prime Network gateway servers.	<ul style="list-style-type: none"> In case , you have multiple gateway server to deploy the DP and use web server as central location

#	Option	Description	Use this when...
3	List the installed DP drivers and the driver jars files.	Lists the drivers that exist in the \$PRIME_NETWORK_HOME/Main/drivers directory on the gateway server.	<ul style="list-style-type: none"> You want to see the DP installed and the driver jars contained in the DP.
4	Uninstall a Device Package (DP)	Uninstalling the Device packages from g/w and unit servers	<ul style="list-style-type: none"> When you want to permanently remove the DP which are no longer in use
Q	Quit	Exits the ivne script.	You want to quit the script.

6 Installing the Cisco VNE Device Package

You can install the entire DP with all the jar files it contains . All jar files use the following naming convention:

Vendor-JarType-VNEJarVersion.jar

JarType can be Modules, Commons, or device-specific. For example:

Cisco-Commons-v2.1.0.0.jar
 Cisco-CPT-v2.1.0.0.jar
 Cisco-CRS-v2.1.0.0.jar
 Cisco-IOX-Commons-v2.1.0.0.jar
 Cisco-ISR19xx-v2.1.0.0.jar
 Cisco-ISR29xx-v2.1.0.0.jar
 Cisco-ISR39xx-v2.0.0.0.jar
 Cisco-ME36XX-ME38XX-v2.1.0.0.jar
 Cisco-Modules-v2.0.0.0.jar

To install a DP:

- Confirm the following:
 - Your system meets the prerequisites listed in Section 2.
 - You have copied the DP file to a central location; see Section 4.
- Log in to the Cisco ANA gateway server as *networkuser*
- Start the installation script:

```
% ivne
```

```
Cisco Prime Network VNE Device Package Installer
```

```

1 Install VNE Device Package from a local directory
2 Install VNE Device Package from a Web Repository
3 List installed Device Packages
4 Uninstall a Device Package (DP)
5 Quit

```

Make a selection and press Enter.

Choose option **1**(Install VNE Device Package from a local directory) and press Enter at the prompt. The installation script prompts the user to enter the the full path of the device package tar file. The installation script installs the DP to the Unit server.

4. Enter the full pathname to the downloaded DP file . The log file location is shown in the messages appearing in the console window

```
Please enter the full path of the device package tar file [Ctrl-C to go back to menu]:
/export/home/39DP/PrimeNetwork-3.8.xTo3.9.x-DP1206.tar

+ Logging to /export/home/ana39/Main/drivers/logs/ivne-install-log-061312-115635

+ Installing PrimeNetwork-3.8.xTo3.9.x-DP1305 Device Package.

+ Installing DP on remote units:

  1.Copying DP to unit [10.56.121.115]. Please wait...Done.

+ Registry is being Updated (Gateway & Units if available). Please wait.....Done.

+ Collecting images from drivers...Done.

Installation Completed.
```

7 Verifying the DP Installation

1. Log in to the Cisco ANA gateway server as *networkuser*.
2. Start the installation script:

```
% ivne
```

```

Cisco Prime Network VNE Device Package Installer

1 Install VNE Device Package from a local directory
2 Install VNE Device Package from a Web Repository
3 List installed Device Packages
4 Uninstall a Device Package (DP)
5 Quit

Make a selection and press Enter.
```

3. Choose option 3 (*List installed Device Packages*) and press Enter at the prompt. The installation script creates a log and lists the Device packages installed on the Prime Network 3.9 Gateway Server

Select Device Package (DP) to Display the included drivers.

```

1 CiscoPrimeNetwork-3.9-DP0
2 PrimeNetwork-3.8.xTo3.9.x-DP1206
3 PrimeNetwork-3.8.xTo3.9.x-DP1207-1
4 PrimeNetwork-3.8.xTo3.9.x-DP1209
5 PrimeNetwork-3.8.xTo3.9.x-DP1210
6 PrimeNetwork-3.8.xTo3.9.x-DP1211
7 PrimeNetwork-3.8.xTo3.9.x-DP1303
8 PrimeNetwork-3.8.xTo3.9.x-ThirdParty-DP1303
Back

```

Make a selection and press Enter.

User can choose the Device package installed (press the number against the DP) and press Enter to verify the VNE driver files installed on the server

```

Gathering information from /export/home/ana39/Main/drivers/PrimeNetwork-3.8.xTo3.9.x-DP1206
Name                               Driver File Name                               Version    Device Package
Cisco-100xx-PN3.9                  Cisco-100xx-v3.0.0.0.jar                      3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-12xxx-PN3.9                  Cisco-12xxx-v3.0.0.0.jar                      3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-3400ME-PN3.9                 Cisco-3400ME-v3.0.0.0.jar                    3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-3750ME-PN3.9                 Cisco-3750ME-v3.0.0.0.jar                    3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-45xx-PN3.9                   Cisco-45xx-v3.0.0.0.jar                      3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-49xx-PN3.9                   Cisco-49xx-v3.0.0.0.jar                      3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-70xx-PN3.9                   Cisco-70xx-v3.0.0.0.jar                      3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-76xx_65xxIOS-PN3.9           Cisco-76xx_65xxIOS-v3.0.0.0.jar              3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ACE4710-PN3.9                Cisco-ACE4710-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ASA5000-PN3.9                Cisco-asa55xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ASR10xx-PN3.9                Cisco-ASR10xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ASR5000-PN3.9                Cisco-ASR5000-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ASR903-PN3.9                 Cisco-ASR903-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ASR90xx-PN3.9                Cisco-ASR90xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-CPT-PN3.9                    Cisco-CPT-v3.0.0.0.jar                       3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-CRS-PN3.9                    Cisco-CRS-v3.0.0.0.jar                       3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Commons-PN3.9                Cisco-Commons-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-IOX-Commons-PN3.9            Cisco-IOX-Commons-v3.0.0.0.jar               3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ISR19xx-PN3.9                Cisco-ISR19xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ISR29xx-PN3.9                Cisco-ISR29xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ISR39xx-PN3.9                Cisco-ISR39xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-ME36XX-ME38XX-PN3.9          Cisco-ME36XX-ME38XX-v3.0.0.0.jar             3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-MWR29xx-PN3.9                Cisco-MWR29xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Modules-PN3.9                Cisco-Modules-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-NCCM_Core-PN3.9              Cisco-NCCM_Core-v3.0.0.0.jar                 3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-NCCM_IOX-PN3.9               Cisco-NCCM_IOX-v3.0.0.0.jar                  3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Nexus10xx-PN3.9              Cisco-Nexus10xx-v3.0.0.0.jar                 3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Nexus50xx-PN3.9              Cisco-Nexus50xx-v3.0.0.0.jar                 3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Nexus70xx-PN3.9              Cisco-Nexus70xx-v3.0.0.0.jar                 3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-Others-PN3.9                 Cisco-Others-v3.0.0.0.jar                    3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-UBR100xx-PN3.9               Cisco-UBR100xx-v3.0.0.0.jar                  3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-UBR72xx-PN3.9                Cisco-UBR72xx-v3.0.0.0.jar                   3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Cisco-UCS-PN3.9                     Cisco-UCS-v3.0.0.0.jar                       3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Generic-ICMP-PN3.9                 Generic-ICMP-v3.0.0.0.jar                    3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206
Mib2-PN3.9                          Mib2-v3.0.0.0.jar                           3.0.0.0    PrimeNetwork-3.8.xTo3.9.x-DP1206

```

- Verify that the correct drivers are listed by checking the “List of Latest Driver files” section in the DP Readme.

8 Restart the VNEs to Apply the New Driver Package

Click the All VNE tab to view the VNEs table. You can restart individual or groups of VNEs by right-clicking the VNEs and selecting **Actions > Stop**. When the status changes to Down, right-click the VNEs and select **Actions > Start**.

Note: Restarting the VNE's will pick up the latest DP installed only , if "latest " was chosen in the VNE properties screen while adding the VNE to the Unit.

9 Uninstalling the Cisco Prime Network 3.9.0 Device Package

In Prime Network 3.9, many device packages can be installed at any point of time. The user has the option to choose which device package instance be used for modeling a VNE . If "latest" was chosen while adding the VNE, the latest Device package installed on the server will be used. This would remove the device packages from Gateway as well as Units attached to the Gateway. If user tries to uninstall a device package which is used by a VNE , the install scripts throws an error , stating that Device package could not be uninstalled.

1. Log in to the Cisco ANA gateway server as *networkuser*.
2. Start the installation script:

```
/export/home/network39/ % ivne
```

```

Cisco Prime Network VNE Device Package Installer

1 Install VNE Device Package from a local directory
2 Install VNE Device Package from a Web Repository
3 List installed Device Packages
4 Uninstall a Device Package (DP)
5 Quit

```

Make a selection and press Enter.

Choose the Device package which you want to be Uninstalled

```

Select Device Package (DP) to uninstall.

1 PrimeNetwork-3.8.xTo3.9.x-DP1206
2 PrimeNetwork-3.8.xTo3.9.x-DP1207-1
3 PrimeNetwork-3.8.xTo3.9.x-DP1209
4 PrimeNetwork-3.8.xTo3.9.x-DP1210
5 PrimeNetwork-3.8.xTo3.9.x-DP1211
6 PrimeNetwork-3.8.xTo3.9.x-DP1303
7 PrimeNetwork-3.8.xTo3.9.x-ThirdParty-DP1303
Back

```

Make a selection and press Enter.

```

+ Logging to /export/home/ana39/Main/drivers/logs/ivne-install-log-061312-122707

+ Uninstalling PrimeNetwork-3.8.xTo3.9.x-DP1207-1 Device Package.

+ Removing Registry entries (Gateway & Units if available). Please wait...Done.

```

+ Removing from remote units:

1.Removing from 10.56.121.115

Uninstallation Completed.