



Installing the Prime Network Gateway and Units Using the Installation Wizard

This chapter describes how to install the gateway and units using the GUI installation wizard, which is an alternative (and preferred) installation method to the CLI installation.

The following topics are covered in this section:

- [Prerequisites for Using the Installation Wizard, page 5-1](#)
- [Launching the Installation Wizard, page 5-2](#)
- [Installing the Gateway with Embedded Database Using the Installation Wizard, page 5-3](#)
- [Installing the Gateway with External Database Using the Installation Wizard, page 5-7](#)
- [Installing a Unit Using the Installation Wizard, page 5-11](#)

The installation wizard does not include installation of Operations Reports and the Prime Network Integration Layer.

Prerequisites for Using the Installation Wizard

Before you begin, verify that the following prerequisites are met:

- An X client application, such as Xming, is installed on the local machine on which you plan to launch the wizard.
- A Telnet/SSH client, such as PuTTY, is installed on the local machine on which you plan to launch the wizard, and X11 forwarding is enabled.
- All preinstallation tasks for the gateway and unit are completed. See [Preparing for the Installation](#).
- The database files (`linuxamd64_12c_database_1of2.zip` and `linuxamd64_12c_database_2of2.zip`) are available in the Cisco Prime Network 5.0 disk 4. The files required for upgrading to Prime Network 4.0 are available in Prime Network 4.0 DVD.
- Use only Oracle 12.1.0.2. This is because all Prime Network 5.0 fresh installation will support only Oracle 12.1.0.2.

Launching the Installation Wizard

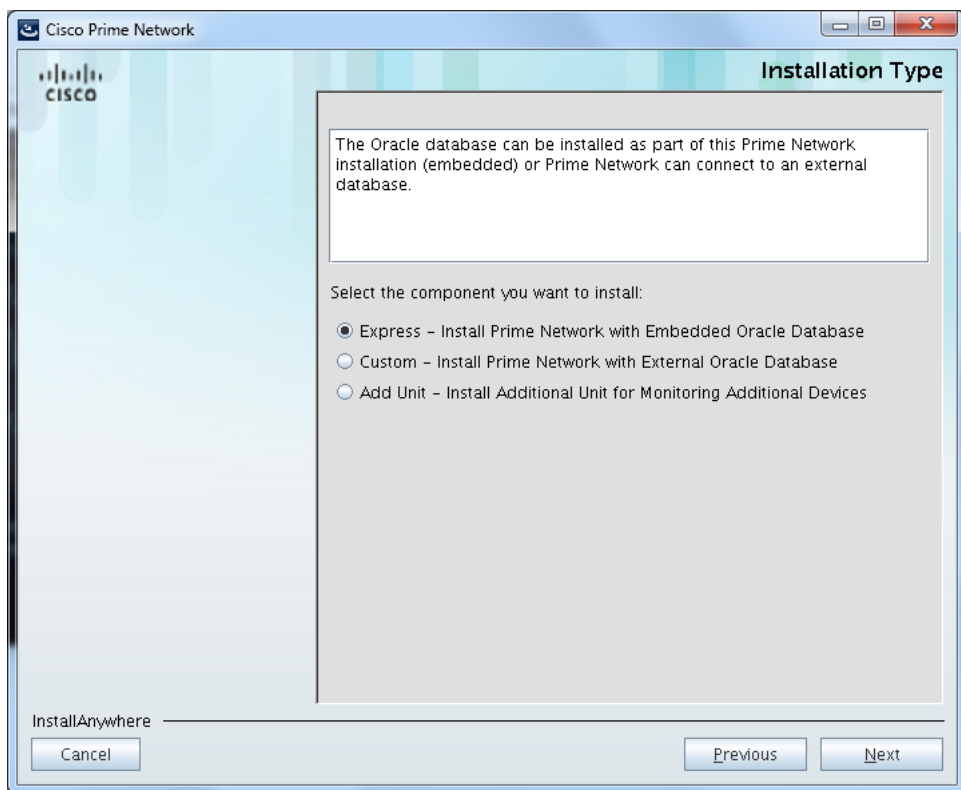
To launch the installation wizard:

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- Step 1** Launch the X client application (for example, Xming).
 - Step 2** As the root user, launch a terminal on the server where you want to install the Prime Network gateway.
 - Step 3** Insert **Disk 1: New Install** in the DVD drive. (See [Installation DVDs, page 1-2](#)).
 - Step 4** Mount the inserted DVD using the **mount** command, and move to the mount directory.
 - Step 5** In the mount directory, locate the install.bin file and run it:

```
./install.bin
```

This launches the installation wizard.

- Step 6** Read the introduction and click **Next**. In the Installation Type window, you can choose the relevant installation:
 - Prime Network gateway with an embedded database. See [Installing the Gateway with Embedded Database Using the Installation Wizard, page 5-3](#).
 - Prime Network gateway with an external database. See [Installing the Gateway with External Database Using the Installation Wizard, page 5-7](#).
 - Unit. See [Installing a Unit Using the Installation Wizard, page 5-11](#)



Installing the Gateway with Embedded Database Using the Installation Wizard

The following procedure describes how to install a Prime Network gateway and an embedded database using the GUI installation wizard.

- Step 1** Launch the installation wizard using the install.bin file on Disk 1: New Install. See [Launching the Installation Wizard, page 5-2](#).
- Step 2** Read the introduction and click **Next**.
- Step 3** In the Installation Type window, select **Express - Install Prime Network with Embedded Oracle Database** and click **Next**.
- Step 4** In the next four windows, provide the required user and installation folder information, as follows:

Field	Enter:	Notes
Operating System User Name Window		
New Operating System user	A username for the Prime Network operating system. This username will be used when connecting to the gateway using SSH and for other administrative purposes.	This username is used as the basis for the installation directory and the database schema names. We recommend you use pn50 . In the documentation, we use <i>pnuser</i> to represent the operating system user variable.
Password	A password for the Prime Network operating system user.	—
Prime Network User Window		
Password	A password for the Prime Network root user.	The root username and password are used to log into the Prime Network GUI applications. Enter a password that complies with the password requirements listed in the text box at the top of the screen.
Operating System "root" Password Window		
Password	A password for the operating system root user.	—
Installation Folder Window		
Please choose a folder	Select an installation folder or use the default folder.	The default installation directory is /export/home/OS-User. We recommend you use the default directory. In the documentation, we use <i>\$NETWORKHOME</i> to represent the installation directory.

- Step 5** Click **Next**.
- Step 6** Check the Prerequisites Summary window for items that are not marked [OK] and rectify them as needed (for example, add more disk space). Click **Next**.

Step 7 In the Gateway Installation Embedded Oracle Database window, enter the gateway IP address to be used for communication with the units, if it is different from the IP address that was automatically identified by the system.

Step 8 Select **Suite-Integrated** (if you are using Prime Network with Prime Central), or **Standalone**.



Note For suite-integrated systems, Prime Network Integration Layer must be installed. See [Chapter 9, “Installing the Prime Network Integration Layer”](#).

Step 9 Provide the following information in the Embedded Database windows.

Embedded Database Field	Enter:	Notes
Embedded Database Window (1)		
Database username	Username for the Oracle database user, if you do not want to use the default username.	Default is oracle .
Database Server IP Address	IP address of the database server (IPv4 or IPv6). The database server could be the gateway or a remote server.	Default is the IP address of the gateway.
Choose a database profile	Select the database profile that represents your setup.	See Creating an External Oracle Database, page 4-2 for guidelines (the information also applies to embedded databases). Prime Network calculates memory and storage requirements based on this entry.
Would you like to enable database auto-backup?	[yes no]	If you enter No , you can enable automatic backups later using the emdbctl command. See the Cisco Prime Network 5.0 Administrator Guide .
Embedded Database Window (2)		
Database Zip Files Path	Path to the directory in which the database zip files are located.	Default is / . These files must be copied from Disk 4 of the Prime Network 5.0 installation DVDs.
Database Home Directory	Path to the database home directory.	Default is /export/home/oracle . Must have a minimum of 6 GB of disk space for oracle binaries. Should not reside under the installation directory (\$NETWORKHOME).
Database Data Files Path	Path to the directory containing the datafiles (<i>oracle-datafiles-dir</i>)	Default is /export/home/oracle/oradata/anadb .
Redo Logs File Path	Path to the directory containing the redo files.	Should not reside on the same disk as <i>oracle-datafiles-dir</i> . Use ext3 partition mounted with the default mount options.

Embedded Database Field	Enter:	Notes
Archive Logs Files Path	Path to the directory containing the archive log files.	Should not reside on the same disk as <i>oracle-datafiles-dir</i> .
Backup Data Files Path	Path to the directory containing the backup data files.	Should not reside on the same disk as <i>oracle-datafiles-dir</i> .

Step 10 If you selected Suite-Integrated, you will be required to enter information enabling communication with Prime Central, including the Prime Central database server IP address, database port, database SID, database username and password. Click **Next**.

Step 11 In the Operations Reports Database (Infobright) windows, enter the information that will enable connection to the server on which the Infobright database is located and the folders for the Infobright data, then click **Next**.

Field	Enter:	Notes
Operations Reports Database (Infobright) Window		
Infobright Database Server IP Address		
Root user password for SSH connection		
Infobright database server port		
Archive history size		
Backup history size		
Would you like to enable backup files creation?		
Operations Reports Database (Infobright) Folders Window		
Path to folder for Infobright database data		
Path to folder for Infobright database cache data		
Path to folder for Infobright database backup data		
Path to folder for Infobright DLP staging area		

**Note**

Operations Reports are only available to customers with Operations Reports license prior to May 2018. For re-installation of Operations Reports contact a Cisco customer support representative.

Step 12 In the Installation Setup Summary window, review and verify the information.

Step 13 Click **Install**. The installation procedure will take between 20-50 minutes to complete.

Step 14 When the installation is complete, you will receive a message indicating this. If the installation fails, you will receive a message with details about the failure.

The following logs are available after the installation:

- Installation logs—/var/adm/cisco/prime-network/logs/.
- Embedded database configuration logs—\$NETWORKHOME/local/scripts/embedded_oracle.
- Prime Network configuration logs—\$NETWORKHOME/Main/logs.

**Note**

Before launching Prime Network in the Windows 2008 server from Prime central, ensure that the host file is updated with correct host IP address to resolve the hostname. If hostname is not configured properly, then the Prime Network installation fails.

Installing the Gateway with External Database Using the Installation Wizard

The following procedure describes how to use the GUI installation wizard to install a Prime Network gateway that is connected to an external database.

- Step 1** Launch the installation wizard using the `install.bin` file on Disk 1: New Install. See [Launching the Installation Wizard, page 5-2](#).
- Step 2** Read the introduction and click **Next**.
- Step 3** In the Installation Type window, select **Custom: Install Prime Network with External Oracle Database** and click **Next**.
- Step 4** Provide the required user and installation folder information.

Field	Enter:	Notes
Operating System Username Window		
New Operating System User	A username for the Prime Network operating system. This username will be used when connecting to the gateway using SSH and for other administrative purposes.	This username is used as the basis for the installation directory and the database schema names. We recommend you use pn50 . In the documentation, we use <i>pnuser</i> to represent the operating system user variable.
Password	A password for the Prime Network operating system user.	—
Prime Network User Window		
Password	A password for the Prime Network root user.	The root username and password are used to log into the Prime Network GUI applications. Enter a password that complies with the password requirements listed in the text box at the top of the screen.
Operating System "root" Password Window		
Password	A password for the operating system root user.	—
Installation Folder Window		
Please choose a folder	<i>pn-installation-dir</i>	The default installation directory is <code>/export/home/OS-User</code> . We recommend you use the default directory. This default home directory is referred to as <code>\$NETWORKHOME</code> .

- Step 5** Click **Next**.
- Step 6** Check the Prerequisites Summary window to see if any items do not say [OK] and rectify them as needed (for example, add more disk space). Once verified, click **Next**.

Step 7 In the Gateway Installation window, enter the gateway IP address to be used for communication with the units, if it is different from the IP address that was automatically identified by the system.

Step 8 Select **Suite-Integrated** (if you are using Prime Network with Prime Central), or **Standalone**.



Note For suite-integrated systems, Prime Network Integration Layer must be installed. See [Chapter 9, “Installing the Prime Network Integration Layer.”](#)

Step 9 Provide the following information in the External Database window.

External Database Field	Enter:	Notes
Database Server IP Address	IP address of the database server.	—
Database Port	<i>oracle-listener-port</i>	Default port is 1521.
SID	<i>oracle-SID</i>	—
Database Administrator User Name	<i>oracle-admin-user</i>	Database user who can perform administrative tasks.
Database Administrator Password	<i>oracle-admin-password</i>	—
Database Data Files Path	<i>oracle-datafiles-dir</i>	—
Does your database require an encrypted connection?	[yes no]	If you answer yes , you will be prompted for encryption method and algorithm after clicking Next .
Do you want Prime Network to create the users?	[yes no]	If you answer yes , Prime Network will create the database users with default usernames.

Step 10 If you specified that your database needs encryption, you are prompted for an encryption method and algorithm:

- Encryption Method—Accepted, Requested, or Required (default is Required).
- Encryption Algorithm—Choose from the drop-down list.

Step 11 If you specified that you did *not* want Prime Network to create the database users, the External Database User Configuration window opens.

External Database User Configuration Field	Enter	Notes
Database schema “main” Username	<i>name</i> , e.g., PN5.0	
Database schema “dwe” Username	<i>name_dwe</i>	For example, PN5.0_dwe
Database Administrator Username	<i>name_admin</i>	Name for admin database schema
Database Reports main username	<i>name_rep</i>	Name for reports database schema

External Database User Configuration Field	Enter	Notes
Database schemes passwords	<i>password</i>	Password used for all schemas except the Event Archive
Database EP schema username	<i>name_ep</i>	Name for Event Archive database schema
Database EP Reports username	<i>name_ep_rep</i>	Name for older reports database schema
Database EP Schema Password	<i>ep-password</i>	Password for Event Archive schema

Step 12 If you selected Suite-Integrated, you will be required to enter information enabling communication with Prime Central, including the Prime Central database server IP address, database port, database SID, database username and password.

Step 13 In the Operations Reports Database (Infobright) windows, enter the information that will enable connection to the server on which the Infobright database is located and the folders for the Infobright data, then click **Next**.

Field	Enter:	Notes
Operations Reports Database (Infobright) Window		
Infobright Database Server IP Address		
Root user password for SSH connection		
Infobright database server port		
Archive history size		
Backup history size		
Would you like to enable backup files creation?		
Estimate your database profile	Select the database profile that represents your setup.	See Creating an External Oracle Database, page 4-2 for guidelines.
Operations Reports Database (Infobright) Folders Window		
Path to folder for Infobright database data		
Path to folder for Infobright database cache data		
Path to folder for Infobright database backup data		
Path to folder for Infobright DLP staging area		

**Note**

Operations Reports are only available to customers with Operations Reports license prior to May 2018. For re-installation of Operations Reports contact a Cisco customer support representative.

Step 14 In the Installation Setup Summary window, review and verify the information.

Step 15 Click **Install**. The installation procedure will take between 20-50 minutes to complete. When the installation is complete, you will receive a message indicating this. If the installation fails, you will receive a message with details about the failure. The following logs are available:

- Installation logs—`/var/adm/cisco/prime-network/logs/`.
 - Configuration logs—`$NETWORKHOME/Main/logs`.
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Installing a Unit Using the Installation Wizard

The following procedure describes how to install an additional unit using the GUI installation wizard.


Note

Ensure that the OS version of unit and gateway is same while adding the unit to the gateway.


Note

Before starting the unit installation, ensure that the gateway to which the unit will be connected is up and running.

- Step 1** Launch the installation wizard using the install.bin file on Disk 1: New Install. See [Launching the Installation Wizard, page 5-2](#).
- Step 2** Read the introduction and click **Next**.
- Step 3** In the Installation Type window, select **Add Unit** and click **Next**.
- Step 4** Provide the required user and installation folder information.

Field	Enter:	Notes
Set OS User Window		
Operating System User Name	The same operating system username as is configured for the gateway.	—
Password	<i>OS-User-password</i>	—
PN Administrator User Window		
PN Administrator User Name	<i>admin-username</i>	User name of the administrator user for access to the various Prime Network applications.
Password	<i>admin-password</i>	This is the password for the Prime Network admin user, which is used to log into the Prime Network applications.
Installation Folder Window		
Please choose a folder	The path to the installation directory.	This should be the same installation folder as was specified for the gateway.

- Step 5** Check the Prerequisites Summary window to see if any items do not say [OK] and rectify them as needed (for example, add more disk space). Once verified, click **Next**.
- Step 6** In the Unit Installation window, enter the following:

Unit Installation Field	Enter:	Notes
Gateway IP Address	The gateway IP address to be used for communication with the units.	Make sure the gateway is up and running before proceeding.
Prime Network User OS Password on Gateway	<i>OS-User-password</i>	—
Unit IP Address	<i>unit-ip-address</i>	—

Unit Installation Field	Enter:	Notes
Mode	[Active Unit Standby Unit]	Active units are started after they are added; standby units start when a failover occurs.
Unit Protection	[Enable Disable]	Enable or disable unit high availability protection.
Unit Name	<i>unit-name</i>	—
Unit Protection Group	<i>unit-protection-group</i>	The protection group to which the unit belongs.
Main Schema Database IP Address (optional)	<i>FaultDatabase-ip-address</i>	Providing this information protects against incompatible gateway and database interface types.

Step 7 In the Pre-installation Summary window, verify the information.

Step 8 Click **Install** to start the Unit installation.

Step 9 When the installation is complete, click **Done**.

The following logs are available:

- Installation logs—`/var/adm/cisco/prime-network/logs/`.
- Configuration logs—`$NETWORKHOME/Main/logs`.