



# **Purview PV-A-300 Appliance Installation Guide**



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# About This Guide

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This document describes the installation and initial configuration of the Purview PV-A-300 hardware appliance.

## Who Should Use This Guide

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This document is intended for experienced network administrators who are responsible for implementing and maintaining communications networks.

## Related Documents

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- For complete regulatory compliance and safety information, refer to the document *Intel® Server Products Product Safety and Regulatory Compliance*, available at:  
[http://download.intel.com/support/motherboards/server/sb/g23122003\\_safetyregulatory.pdf](http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf)
- Enterasys NetSight Software Release Notes are available on the Network Management Suite (NMS) Documentation web page:

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After entering your email address (username) and password, follow this path to the document:

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<i>italic</i> type	User input value required.
<code>courier</code>	Used for command-level input or output.
purple type	Indicates a hypertext link. When reading this document online, click the text in purple to go to the referenced figure, table, or section.



**Note:** Calls the reader's attention to any item of information that may be of special importance.



**Caution:** Contains information essential to avoid damage to the equipment.

**Precaución:** Contiene información esencial para prevenir dañar el equipo.

**Achtung:** Verweist auf wichtige Informationen zum Schutz gegen Beschädigungen.



**Warning:** Warns against an action that could result in personal injury or death.

**Advertencia:** Advierte contra una acción que pudiera resultar en lesión corporal o la muerte.

**Warnhinweis:** Warnung vor Handlungen, die zu Verletzung von Personen oder gar Todesfällen führen können!



**Electrical Hazard:** Warns against an action that could result in personal injury or death.

**Riesgo Eléctrico:** Advierte contra una acción que pudiera resultar en lesión corporal o la muerte debido a un riesgo eléctrico.

**Elektrischer Gefahrenhinweis:** Warnung vor sämtlichen Handlungen, die zu Verletzung von Personen oder Todesfällen – hervorgerufen durch elektrische Spannung – führen können!

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- A description of your network environment (such as layout, cable type, other relevant environmental information)
- Network load and frame size at the time of trouble (if known)
- The device history (for example, if you have returned the device before, or if this is a recurring problem)
- Any previous Return Material Authorization (RMA) numbers

# 1 Appliance Overview and Setup

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This chapter lists the components shipped with the PV-A-300 appliance, describes the front and back panels, and provides information on appliance specifications.

For complete regulatory compliance and safety information, refer to the document *Intel® Server Products Product Safety and Regulatory Compliance*, available at the following links:

[http://download.intel.com/support/motherboards/server/sb/g23122003\\_safetyregulatory.pdf](http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf)

<http://extranet.enterasys.com/downloads/pages/NMS.aspx>

After entering your email address (username) and password, you will be on the NetSight, Network Management page. Follow this path to the document:

Documentation > Manuals & Release Notes > select a version of Purview > Purview Appliance.

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## Kit Contents

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The PV-A-300 appliance is shipped with the following components:

- Enterasys URL card
- Front bezel label
- A rack mounting kit
- Two AC power cables
- Two rack handles and appropriate screws
- AC power cord bracket and cable clamp kit
- One USB flash drive

## Specifications

The physical specifications for the appliance are listed in Table 1; the environmental requirements are listed in Table 2.

**Table 1 PV-A-300 Physical Specifications**

<b>Processor</b>	
Processor type	Dual Intel® Xeon® E5-2620 processors
Processor speed	2.0 GHz
Internal cache	15 MB per processor
System bus speed	7.20 GT/s (Gigatransfers per second)
System bus type	QPI (Quick Path Interconnect)
<b>Memory</b>	
Architecture	1333MHz Dual Ranked Registered (RDIMM) ECC DDR3
Memory module sockets	Twenty-four 240-pin
Memory module capacities	2 GB RDIMMs
Minimum RAM (included)	24 GB (six 4 GB RDIMMs)
Maximum RAM	48 GB (twenty-four 2 GB RDIMMs)
<b>Drives</b>	
Hard drives	Two 1 TB 7200 RPM hard drives configured at RAID 1
<b>Connectors</b>	
Back	
NIC	Four RJ-45
Serial	9-pin, DTE, 16550-compatible
USB	Three 4-pin, USB 2.0-compliant
Video	15-pin VGA
Front	
USB	Two 4-pin, USB 2.0-compliant
<b>Power</b>	
AC power supply (per power supply)	Redundant Power Supply
Wattage	750 watts
Input Voltage	<ul style="list-style-type: none"> <li>• 100 - 127 V at 50/60 Hz 8.2 A</li> <li>• 200 - 240 V at 50/60 Hz 4.4 A</li> </ul>
Output Voltage	<ul style="list-style-type: none"> <li>• 62.0A at 12 V</li> <li>• 2.1A at 12 VSB</li> </ul>

**Table 1 PV-A-300 Physical Specifications (continued)**

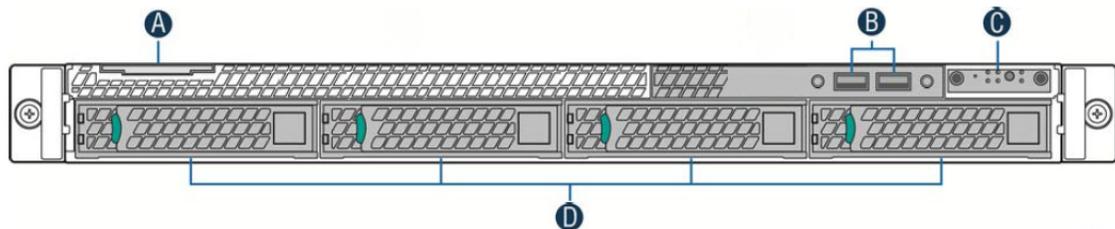
Physical	
Height	4.45 cm (1.75 in.)
Width	43.0 cm (16.93 in.)
Depth	70.99 cm (27.95 in.)
Weight (maximum configuration)	26.1 kg (57.54 lbs)

**Table 2 PV-A-300 Environmental Specifications**

Parameter	Limits
Operating Temperature	+10°C to +35°C with the maximum rate of change not to exceed 10°C per hour
Storage Temperature	-40°C to +70°C
Storage Humidity	90%, non-condensing at 35°C [Operating humidity not specified in the Intel docs]
Vibration, unpackaged	5 Hz to 500 Hz, 2.20 g RMS random
Shock, Operating	Half sine, 2 g peak, 11 milliseconds
Shock, Unpackaged	Trapezoidal, 25 g, velocity change 136 inches/second (40 lbs to < 80 lbs)
Shock, Packaged	Non-palletized free fall in height 24 inches (40 lbs to < 80 lbs)
ESD	+/-12 KV except I/O port +/- 8 KV per Intel® Environmental test specification
Estimated Thermal Dissipation	1550 BTU/Hr

## Front Panel Features

Figure 1 shows the PV-A-300 appliance front panel features. Figure 2 shows the front control panel.

**Figure 1 PV-A-300 Front Panel Features**

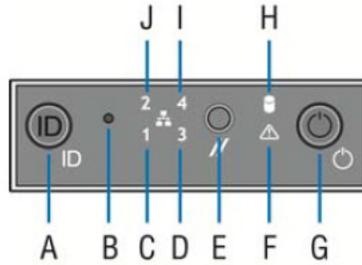
**A** System Label Pull-out

**B** USB 2.0 Ports

**C** Front Control Panel (see Figure 2)

**D** Hard Disk Drive Bays

**Figure 2 Front Control Panel**



- A** System ID Button w/Integrated LED
- B** NMI Button (recessed, tool required for use)
- C** Mgmt Port Activity LED
- D** Not used
- E** System Cold Reset Button
- F** System Status LED
- G** Power Button w/Integrated LED
- H** Hard Drive Activity LED
- I** Not used
- J** Not used

## Hard Drive LED Indicator Patterns

The hard drive has two LED indicators visible from the front of the system — one is a green LED for disk activity, and the other is amber and indicates hard drive status. The LEDs have the following states, as described in Table 3 and Table 4.

**Table 3 Hard Drive Activity LED Indicator Patterns**

Hard Drive Condition	Activity LED Patterns
Power on and drive spinning up or spinning down	Off
Power on with drive activity	Blinking green

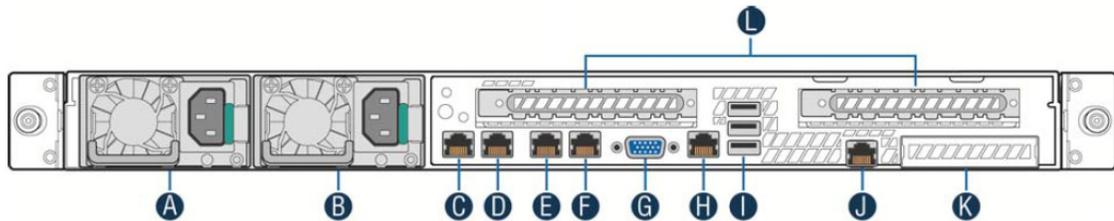
**Table 4 Hard Drive Status LED Indicator Patterns**

Hard Drive Condition	Status LED Patterns
No access or no fault	Off
Hard drive fault has occurred	Solid amber

## Back Panel Features

Figure 3 shows the PV-A-300 appliance back panel.

**Figure 3 PV-A-300 Back Panel**



<b>A</b> Power Supply Module #1	<b>G</b> Video Connector
<b>B</b> Power Supply Module #2	<b>H</b> Not used
<b>C</b> eth0, Mgmt Port, 1 GbE RJ45	<b>I</b> USB 2.0 Ports
<b>D</b> eth1	<b>J</b> Not used
<b>E</b> eth2	<b>K</b> Not used (Used if PV-A-300-10G-UG is installed)
<b>F</b> eth3	<b>L</b> Not used

Table 5 describes the LEDs for the RJ45 management port.

**Table 5 RJ45 Port LEDs (Management Port)**

LED Type	LED Pattern	Status Indication
Network Speed (Right)	Off	10 Mbps
	Amber	100 Mbps
	Green	1000 Mbps
Link Activity (Left)	Off	No link
	Solid Green	Active link
	Blinking Green	Data traffic activity

## Power Supply Status Indicator Patterns

The appliance has two power supplies, supplying hot-pluggable power redundancy. The system distributes the power load across both power supplies to maximize efficiency.

Each power supply has a single bi-color LED to indicate power supply status, as described in Table 6.

**Table 6 Power Supply Status LED Indicator Patterns**

Power Supply Condition	LED Pattern
Output on and OK	Green

**Table 6 Power Supply Status LED Indicator Patterns (continued)**

Power Supply Condition	LED Pattern
No AC power to all power supplies	Off
AC present / Only 12VSB on (PS off) or PS in cold redundant state	1Hz Blinking Green
AC power cord unplugged or AC power lost. With a 2nd PS in parallel still with AC input power	Amber
Power supply warning events where PS continues to operate — high temp, high power, high current, slow fan	1Hz Blinking Amber
Power supply critical event causing a shutdown, failure, OCP, OVP, fan fail	Amber
Power supply firmware updating	2Hz Blinking Green

## Removing and Installing the Front Bezel

The PV-A-300 appliance comes with an optional front panel bezel that can be attached to the front of the chassis by snapping the bezel onto the chassis handles. A key lock allows you to lock the bezel in place so that front panel controls cannot be used. System status indicators can still be monitored with the bezel in place.

### Removing the Front Bezel

To remove the front bezel:

1. Unlock the bezel if it is locked.
2. Remove the left end of front bezel from rack handle.
3. Rotate the front bezel counterclockwise to release the latches on the right end from the rack handle.

### Installing the Front Bezel



**Notes:** Before installing the bezel, you must install the rack handles. See “Installing the Appliance into a Rack” on page 1-7.

To install the front bezel:

1. Lock the right end of the front bezel to the rack handle.
2. Rotate the front bezel clockwise till the left end clicks into place.

Lock the bezel if needed.

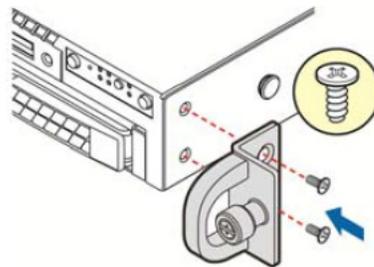
## Installing the Appliance into a Rack

A rack mounting kit and *Installation Guide* are included with the PV-A-300 appliance. The rack mounting kit allows you to install the appliance into a four-post rack cabinet. Refer to the *Installation Guide* for complete installation instructions.

If you are installing the appliance in a rack:

1. Install the rack handles by aligning a rack handle with the two holes on each the side of the appliance and attaching each handle to the appliance with two screws as shown in [Figure 4](#).

**Figure 4** Installing the Rack Handles



2. Read the *Installation Guide* included with the rack mounting kit.
3. Install the rails and mount the controller in the rack as instructed.

If you are table mounting the appliance, ensure at least 6 cm of clearance on all sides of the appliance for proper ventilation.

## Torque Values

The following table describes the recommended torque values to use when installing the appliance using standard threaded fastener machine screws and bolts.

**Table 7** Recommended Torque Values by Screw Size

Screw Size		Torque in Pounds			Bit Size
English	Metric	-%5	Nominal	+%5	
N/A	N/A	1.42	1.5	1.57	0
2 - 56	1.5	2.85	3.0	3.15	0
4 - 40	2.5	4.75	5.0	5.25	0/1
6 - 32	3.5	8.55	9.0	9.45	1
8 - 32	4.5	17.10	18.0	18.90	2
10 - 32	5	30.40	32.0	33.60	2
1/4 - 20	6.5	63.65	67.0	70.35	3



# 2 Configuration

Once the PV-A-300 appliance is physically installed into a rack, you need to connect a monitor and a USB keyboard, connect the power cord and network cable, and power it on (see Figure 1 on page 3 and Figure 3 on page 5).

After the appliance boots and the appliance installation is complete, you must go through the initial configuration process described in this chapter.

This chapter also includes information on how to change your appliance settings following your initial configuration, and how to upgrade the NetSight application software. For information on reinstalling the Purview appliance software, see Chapter 3.

For information about...	Refer to page...
Pre-Configuration Tasks	9
Configuring the Purview Appliance	9
Launching the Purview Application	17
Changing Purview Appliance Settings	19
Upgrading Purview Appliance Software	21

## Pre-Configuration Tasks

The following information is needed prior to executing the configuration steps in the next section:

- Appliance hostname, IP address, and netmask
- Default Gateway IP address
- Name Server IP address and domain name
- NIS (Network Information Services) Server IP address
- GRE tunnel source and destination IP addresses
- Network Time Protocol (NTP) server IP address

In addition, you will need to obtain the appropriate NetSight software license(s) prior to launching the NetSight applications. You will be prompted to enter a license for any unlicensed application that is launched. (When you purchased NetSight, you received a Licensed Product Entitlement ID. This Entitlement ID allows you to generate a product license. Refer to the instructions included with the Entitlement ID that was sent to you.)

## Configuring the Purview Appliance

To configure the virtual appliance to run the Purview application:

1. Login as root with no password, and then press Enter.

The following screen appears.

```

=====
Extreme Networks - Purview Appliance -
Welcome to the Purview Appliance Setup
=====

Please enter the information as it is requested to continue with
the configuration. Typically a default value is displayed in brackets.
Pressing the [enter] key without entering a new value will use the
bracketed value and proceed to the next item.
If a default value cannot be provided, the prompt will indicate that the item
is either (Required) or (Optional). The [enter] key may be pressed without
entering data for (Optional) items. A value must be entered for (Required) items.
At the end of the setup process, the existing settings will be displayed
and opportunity will be provided to correct any errors.
=====

Press [enter] to begin setup or CTRL-C to exit:

```

2. Press Enter to begin the setup. The Root Password Configuration screen appears:

```

=====
Root Password Configuration
=====

There is currently no password set in the system administrator
account (root). It is recommended that you set one that is
active the first time the machine is rebooted.
=====

Would you like to set a root password (y/n) [y]?

```



**Note:** You must set a new root password. This new root password will be used by the initial user when logging in to the Purview application.

3. Press Enter to set a new root password. The following text appears where you can enter the new password.

```

Enter new UNIX password:
Retype new UNIX password:

```

4. The Purview Appliance Deployment Modes screen appears. Select the deployment mode that matches your network environment.

The default deployment mode is 2.

```

=====
Purview Appliance Deployment Modes
=====

This appliance supports multiple deployment modes to suit different network
environments and connectivity characteristics. Please select a deployment mode
below that best fits your requirements.

1. Single Interface
   A single interface is used for both management and monitoring traffic.
   A GRE Tunnel will be configured for traffic monitoring.

2. Interface Mirrored
   Separate interfaces are configured for management and monitoring traffic.
   The monitoring interface will put into tap mode for traffic monitoring.

3. Interface Tunnel Mirrored

```

Separate interfaces are configured for management and monitoring traffic. The monitoring interface will get its own IP Address and GRE Tunnels will be configured for traffic monitoring.

4. Manual Mode

The interface and tunneling configurations will not be modified by this script, leaving them to be manually edited by the user instead.

Please select a deployment mode [2]:



**Note:** If you select deployment mode 4, refer to the *Purview Deployment Guide* for information on how to configure your deployment manually.

5. If you selected deployment mode 1, 2, or 3, the Purview Appliance Network Configuration for eth0 screen appears.

For each line, enter the requested configuration information and press Enter.

If you will be using DNS, the IP address of the name server should be provided. If you are using a name server then you must enter a domain name for the appliance. The NIS server is used to authenticate users logging into the appliance. If you are using an NIS server, make sure the NIS domain name is valid or users may not be able to log in to the NetSight applications.

```

=====
Purview Appliance Network Configuration for eth0
=====
Enter information below to configure eth0

Enter the hostname for the appliance (Required):

Enter the IP address for eth0 on 10.54.56.141 [10.54.56.141]:

Enter the IP netmask [255.255.255.0]:

Enter the gateway address [10.54.56.2]:

Enter the IP address of the name server (Optional):

Enter the domain name for 10.54.56.141 (Optional):

Enable NIS (y/n) [n]?
    
```

6. Continue as follows:
  - For deployment mode 1, go to step 9.
  - For deployment mode 2, go to step 7.
  - For deployment mode 3, go to step 8.

7. Specify one or more tap ports.

If you have an installed the optional PV-A-300-10G-UG I/O module, the ports are eth4 and eth5.

For each line, enter the requested configuration information and press Enter.

```
=====
Purview Appliance Network Configuration for Tap Mode
=====

Enter the interface name for Tap Mode [eth1]:  eth4

Would you like to add another interface for Tap Mode (y/n) [n]? y

Enter the interface name for Tap Mode [eth2]:  eth5

Would you like to add another interface for Tap Mode (y/n) [n]? n

Go to step 10.
```

8. Specify one or more GRE tunnel interfaces.

If you have an installed the optional PV-A-300-10G-UG I/O module, the ports are eth4 and eth5.

For each line, enter the requested configuration information and press Enter.

```
=====
Purview Appliance Network Configuration for Tunnel Interfaces
=====

Enter the interface name for Tunnel Configuration [eth1]:  eth4

Enter information below to configure eth4

Enter the IP address for eth4 on pv88 [10.54.211.116]:

Enter the IP netmask [255.255.255.0]:

Enter the gateway address [10.54.211.1]:

Would you like to add another interface for Tunnel Configuration (y/n) [n]? y

Enter the interface name for Tunnel Configuration [eth1]:  eth5

Enter information below to configure eth5

Enter the IP address for eth5 on pv88 [10.54.222.117]:

Enter the IP netmask [255.255.255.0]:

Enter the gateway address [10.54.222.1]:

Would you like to add another interface for Tunnel Configuration (y/n) [n]? n
```

9. Enter the IP addresses for one or more GRE tunnels.

For each line, enter the requested configuration information and press Enter.

```

=====
Purview Appliance GRE Configuration
=====
Remote mirroring can be configured in Coreflow Switches using GRE tunnels.
This requires a specific mirroring configuration enabled on the switches.

Enter the SRC IP address for the GRE Tunnel [10.54.211.116]:

Enter the DST IP address for the GRE Tunnel [192.168.1.1]: 10.54.1.116

Add another GRE Tunnel (y/n) [n]? y

Enter the SRC IP address for the GRE Tunnel [10.54.222.117]:

Enter the DST IP address for the GRE Tunnel [192.168.1.1]: 10.54.2.117

Add another GRE Tunnel (y/n) [n]? n

```

10. A screen appears asking you to confirm your network setting. Enter 0 to accept the settings.

The following example shows the Confirm Network Settings screen for deployment mode 2.

```

=====
Confirm Network Settings
=====
These are the settings you have entered. Enter 0 or any key other than a
valid selection to continue. If you need to make a change, enter the
appropriate number now or run the /usr/postinstall/dnetconfig script at a
later time.
=====

0. Accept settings and continue
1. Hostname:                               pv88
2. Deployment Mode:                         Dual Interface Mirrored
3. Management Interface Configuration (eth0):
   Address:                                 10.54.184.88
   Netmask:                                  255.255.255.0
   Gateway:                                  10.54.184.1
   Nameserver:                               10.54.188.120
   Domain name:                              nac2003.com
4. NIS Server/Domain:                       Not Configured
5. Monitor Interface Configuration:
   Tap Mode Interfaces:                      eth4, eth5

```

The following example shows the Confirm Network Settings screen for deployment mode 3.

```

=====
Confirm Network Settings
=====
These are the settings you have entered. Enter 0 or any key other than a
valid selection to continue. If you need to make a change, enter the
appropriate number now or run the /usr/postinstall/dnetconfig script at a
later time.
=====

0. Accept settings and continue
1. Hostname: pv88
2. Deployment Mode: Dual Interface Tunnel Mirrored
3. Management Interface Configuration (eth0):
   Address: 10.54.184.88
   Netmask: 255.255.255.0
   Gateway: 10.54.184.1
   Nameserver: 10.54.188.120
   Domain name: nac2003.com
4. NIS Server/Domain: Not Configured
5. Mirror Interface Configuration:
   Name: eth4
   Address: 10.54.211.116
   Netmask: 255.255.255.0
   Gateway: 10.54.211.1
   Name: eth5
   Address: 10.54.222.117
   Netmask: 255.255.255.0
   Gateway: 10.54.222.1
6. GRE tunnels: 10.54.211.116/10.54.1.116
                10.54.222.117/10.54.2.117

```

11. The SNMP Configuration screen appears. For each line, enter the requested information and press Enter.

```

=====
SNMP Configuration
=====
The following information will be used to configure SNMP management of this
device. The SNMP information entered here must be used to contact this device
with remote management applications such as NetSight Console.
=====
Please enter the SNMP user name [snmpuser]:
Please enter the SNMP authentication credential [snmpauthcred]:
Please enter the SNMP privacy credential [snmpprivcred]:

```

12. A summary screen appears asking you to accept your SNMP Configuration settings. Enter 0 to accept the settings.

```

=====
SNMP Configuration
=====
These are the current SNMP V3 settings. To accept them and complete
SNMP configuration, enter 0 or any key other than the selection choices.
If you need to make a change, enter the appropriate number now or
run the /usr/postinstall/snmpconfig script at a later time.

0. Accept the current settings
1. SNMP User: snmpuser
2. SNMP Authentication: snmpauthcred
3. SNMP Privacy: snmpprivcred
4. Modify all settings
=====
Enter selection [0]: 0
    
```

13. The Configure Date and Time Settings screen appears where you are asked if you want to use an external Network Time Protocol (NTP) server. Enter **y** to use NTP, and enter your NTP server IP address(es). Enter **n** to configure the date and time manually and proceed to [Step 15](#) on page 2-16.

```

=====
Configure Date And Time Settings
=====
The appliance date and time can be set manually or using an external
Network Time Protocol (NTP) server. It is strongly recommended that
NTP is used to configure the date and time to ensure accuracy of time
values for SNMP communications and logged events. Up to 5 server
IP addresses may be entered if NTP is used.
=====

Do you want to use NTP (y/n) [y]? y
Please enter a NTP Server IP Address (Required): 144.131.10.120
Would you like to add another server (y/n) [n]? y
    
```

14. The NTP validate selection screen displays. Enter 0 to accept the current settings and proceed to the Set Time Zone screen at [Step 17](#) on page 2-16.

```

=====
NTP Servers
=====
These are the currently specified NTP servers. Enter 0 or any key other
than a valid selection to complete NTP configuration and continue.
If you need to make a change, enter the appropriate number from the choices listed
below.
144.131.10.120

0. Accept the current settings
1. Restart NTP server selection
2. Set date and time manually
=====
Enter selection [0]: 0
    
```

15. If you answered no to using an NTP server to set date and time, the following manual set date and time screen appears.

```

=====
Set Date And Time
=====
The current system date and time is: Thu 14 Nov 2013 04:34:08 PM EST
Please enter the values for date and time as directed where input is expected in
the following format:

MM   - 2 digit month of year
DD   - 2 digit day of month
YYYY - 4 digit year
hh   - 2 digit hour of day using a 24 hour clock
mm   - 2 digit minute of hour
ss   - 2 digit seconds
=====

Please enter the month [11]:
Please enter the day of the month [14]:
Please enter the year [2013]:
Please enter the hour of day [04]:
Please enter the minutes [34]:
Please enter the seconds [08]:

```

16. The Use UTC screen appears.

```

=====
Use UTC
=====
The system clock can be set to use UTC. Specifying no for using UTC,
sets the hardware clock using localtime.
=====

Do you want to use UTC (y/n) [n]?

```

17. The Set Time Zone screen appears. Select the appropriate time zone and press Enter.

```

=====
Set Time Zone
=====
You will now be asked to enter the time zone information for this system.
Available time zones are stored in files in the /usr/share/zoneinfo directory
Please select from one of the following example time zones:

1. US Eastern
2. US Central
3. US Mountain
4. US Pacific
5. Other - Shows a graphical list
=====

Enter selection [1]:

```

- The Modify Settings screen appears. This screen summarizes the settings you have entered and provides an opportunity to modify the settings, if desired. Enter 0 to accept the settings.

```

=====
Modify Settings
=====
All of the information needed to complete the installation of the Purview
Appliance has been entered. Enter 0 or any key other than a valid selection to
continue. If you need to make a change, enter the appropriate number from the
choices listed below.
=====
0. Accept settings and continue
1. Set the root user password
2. Set the host and network settings
3. Set SNMP settings
4. Set the system time
5. Modify all settings

Enter selection [0]:

The Purview application software is automatically installed. This could take a few
minutes. When the installation is complete, you'll see the following screen.

=====
Extreme Networks - Purview Appliance - Setup Complete
=====
Setup of the Purview Appliance is now complete. The appliance is now operational
and ready to accept remote connections. Details of the installation are located
in the /var/log/install directory.
=====

```

## Launching the Purview Application

Now that you have configured the Purview appliance, you are ready to access the NetSight Launch Page and run Purview from a remote client machine.

- Open a browser window on the remote client machine and enter the NetSight Launch page URL in the following format:

http://<servername>:8080/

where <servername> is the NetSight server IP address or hostname, and 8080 is the required port number. For example,

http://10.20.30.40:8080/

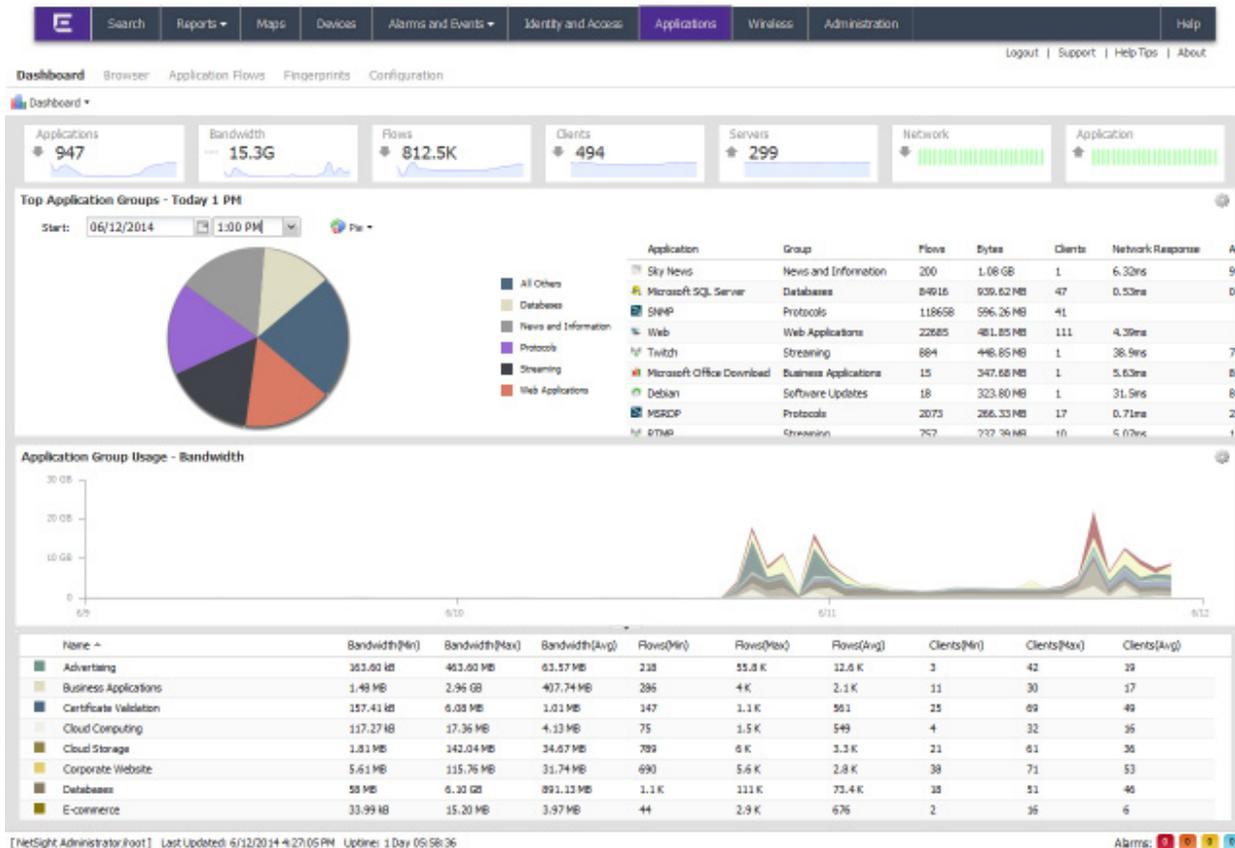
- On the NetSight Launch Page, click **OneView**.



**Note:** The first time you attempt to launch a NetSight application, you will be prompted for the license text you received when you generated your NetSight product license.

- A login window appears. Log in using your NetSight user name and password.
- On the OneView screen, click **Applications** at the top of the screen.

The Purview Dashboard view displays.

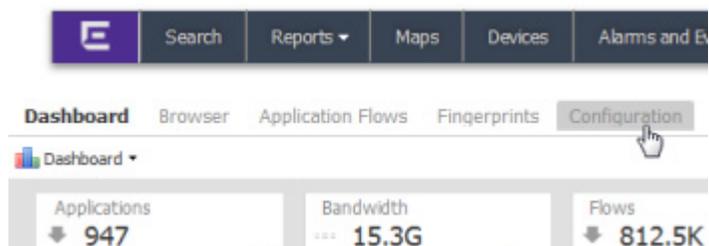


For more information on the NetSight Launch page, access the NetSight Online Help by clicking on Help in the left corner of the NetSight Launch Page banner. In the Online Help Table of Contents, select Installation Guide and then read the section titled Remote Client Launch.

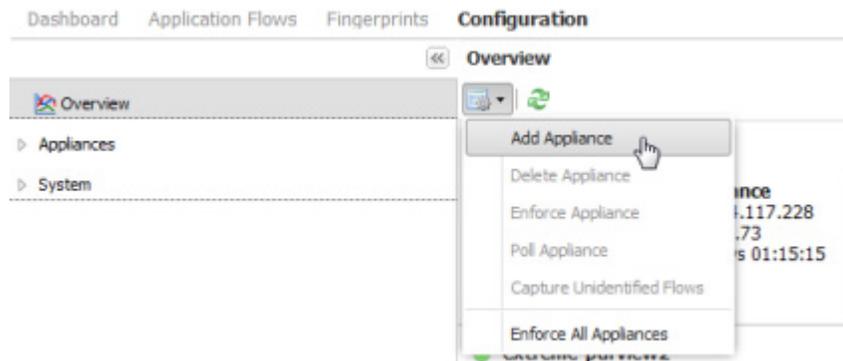
## Adding the Purview Appliance

To add the Purview appliance to Purview:

1. Select the Purview **Configuration** tab.



- Open the drop down menu below **Overview** and select **Add Appliance**.



The **Add Purview Appliance** window displays.

- Enter the following information:
  - IP address of the eth0 interface
  - Name of the Purview appliance
- From the Profile list, select the appropriate SNMP profile.
- Click **OK**.
- Open the drop down menu below **Overview** and select **Enforce Appliance**.

## Changing Purview Appliance Settings

Use these steps if you need to change your Purview appliance settings following your initial appliance configuration.

### Changing Basic Network Configuration

To change basic network configuration settings such as hostname and appliance IP address, enter the following command at the appliance CLI:

```
/usr/postinstall/dnetconfig
```

This will start the network configuration script and allow you to make the required changes. You must reboot the appliance for the new settings to take effect.

## Changing SNMP Configuration

To change SNMP configuration settings such as SNMP Trap Community String, SNMP User, SNMP Authentication, and SNMP Privacy credentials, enter the following command at the appliance CLI:

```
/usr/postinstall/snmpconfig
```

This will start the SNMP configuration script and allow you to make the required changes.

## Changing Date and Time Settings

To enable or disable using NTP to configure the appliance date and time, or to manually set the date and time on the appliance, enter the following command at the appliance CLI:

```
/usr/postinstall/dateconfig
```

This will start the date and time configuration script and allow you to change the settings.

## Changing the NetSight Server IP Address

To change the IP address of the NetSight server, enter the following command at the appliance CLI:

```
/opt/appid/configMgmtIP <IP address>
```

Then, start using the new NetSight server by typing:

```
appidctl restart
```

## Changing the Web Service Credentials

The Web Service credentials provide access to the Purview Appliance Administration web page and the web services interface for the Purview appliance. Appliances are shipped with a preconfigured default password.

If you have changed the credentials in OneView > Applications view and then install a new appliance that is using the default password, you will not be able to monitor or enforce to the new appliance until you change the password on the appliance using this command. The credentials you enter on the appliance must match the credentials specified in OneView > Applications > Configuration.

To change Web Service credentials:

1. Enter the following command at the login prompt in the Console tab:

```
/opt/appid/configWebCredentials <username> <password>
```

2. Restart the appliance:

```
appidctl restart
```

---

## Upgrading Purview Appliance Software

---

Upgrades to the Purview appliance software will be made available from the Network Management Suite (NMS) Download web page.

1. On a system with an internet connection, go to the Network Management Suite (NMS) Download web page: <http://extranet.enterasys.com/downloads>.
2. After entering your email address (username) and password, follow this path to the download page:  
Visibility & Control > Network Management Suite (NMS) > Software > select a version of NetSight.
3. Download the following Purview virtual appliance file from the NMS Downloads section:  
`purview_appliance_upgrade_to_<version>.bin`
4. Use FTP, SCP, or a shared mount point, to copy the files to the Purview appliance.
5. SSH to the appliance.
6. Cd to the directory where you downloaded the files.
7. Change the permissions on the upgrade file by entering the following command:  
`chmod 777 purview_appliance_upgrade_to_<version>.bin`
8. Run the install program by entering the following command:  
`./purview_appliance_upgrade_to_<version>.bin`  
The upgrade automatically begins. You are notified when the upgrade completes.



# 3 Reinstalling Appliance Software

---

This chapter describes the procedure to reinstall the appliance software, in the event a software reinstall becomes necessary. Be aware that a reinstall procedure reformats the hard drive, reinstalls all the appliance software, the operating system, and all related Linux packages. You will need to connect a monitor and a USB keyboard to the PV-A-300 appliance prior to performing these steps.

1. On a Windows platform system, go to the Network Management Suite (NMS) web page to download the Purview Appliance Image 64-bit file to your system:

<http://extranet.enterasys.com/downloads>

After entering your email address (username) and password, follow this path to the Software page: Visibility & Control > Network Management Suite (NMS) > Software > select a version of Purview.

2. Extract the file to a directory on your system.
3. Insert the USB flash drive that came with the PV-A-300 appliance into the USB port on your system and note the drive letter it is assigned.
4. Open a command prompt window and cd to the directory where you extracted the file.
5. Type **make\_disk.bat <drive letter>**: and press Enter. Since the reinstall procedure reformats the drive, be sure you have specified the correct drive letter.  
The files will be copied to the USB flash drive. When the copy is complete you will see the message "Successfully installed into <drive letter>: Press any key to continue."  
6. Remove the USB flash drive from your system.
7. Insert the USB flash drive into a USB port (see [Figure 1](#) on page 3) on the PV-A-300 appliance.
8. Boot the appliance from the USB drive using either of these two methods.
  - Method 1:
    - (1) Press the power button, and then press F6 to go to the Boot Menu.
    - (2) Select the USB drive on the menu.  
The appliance starts booting from the USB flash drive.  
When the boot is complete, the Appliance Installation screen appears and the installation begins.
  - Method 2:
    - (1) Press the power button, and then press F2 to go to the BIOS setup.
    - (2) Use the arrow keys to navigate to the Boot Options menu.
    - (3) Ensure that the USB flash drive is listed as Boot Option #1 at the top.
    - (4) Save changes and exit.  
The appliance starts booting from the USB flash drive.  
When the boot is complete, the Appliance Installation screen appears and the installation begins.

- 
9. After the installation completes, reboot the appliance and then remove the USB flash drive.
  10. Proceed to [Chapter 2, Configuration](#), and follow the instructions for configuring the PV-A-300 appliance.

# 4 Enabling End-System Distributed Identity Cache

To enable the end-system distributed identity cache for Purview, follow the procedure for your deployment:

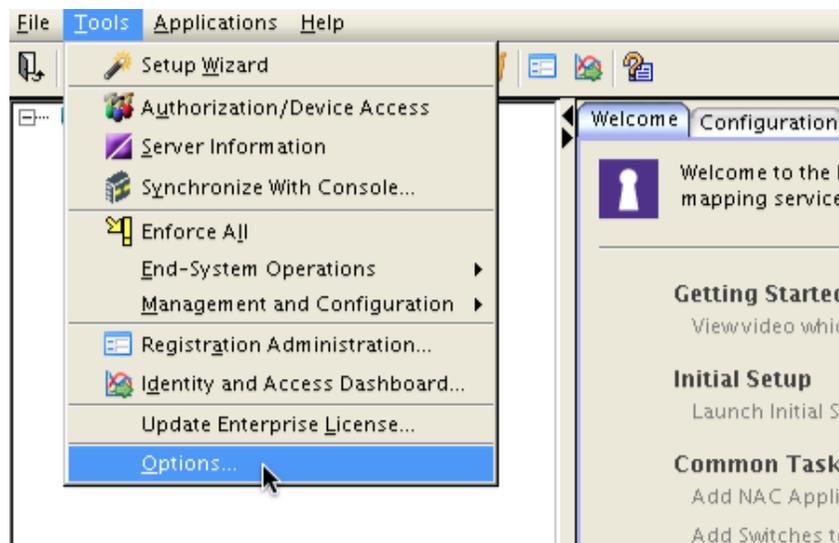
- Sharing End-System Distributed Cache From a Production NetSight Server with a Secondary NetSight Server
- Sharing End-System Distributed Cache Within a Single Production NetSight Server



**Note:** If you use communication channels between NAC gateways, do not enable the end-system distributed identity cache.

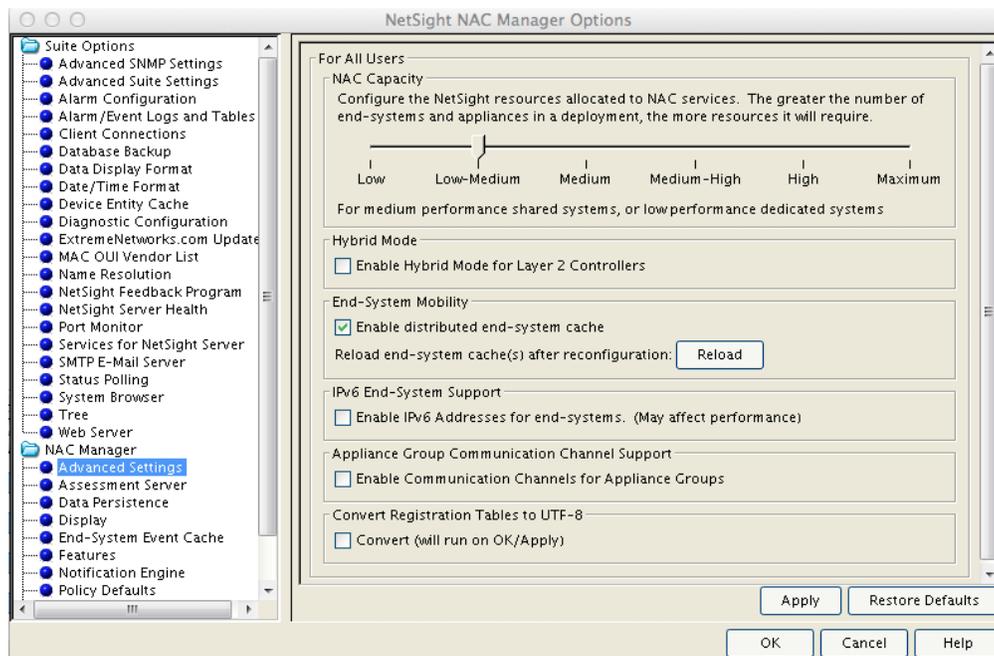
## Sharing End-System Distributed Cache From a Production NetSight Server with a Secondary NetSight Server

1. On the production NetSight server, launch NAC Manager.
2. Navigate to **Tools > Options**.



3. In the left-hand tree, select **NAC Manager > Advanced Settings**.

- Under End-System Mobility, check **Enable distributed end-system cache**.



- Click **Apply**.
- Click **Reload**.
- Click **OK**.
- Repeat the [step 1](#) through [step 7](#) on the Purview (secondary) NetSight server.



**Note:** You do not have to enable the distributed cache on the secondary server; however, doing so we will keep the settings for both NetSight servers consistent.

- Generate an encrypted JMS password. See [Generating an Encrypted JMS Password](#) on page 4-28 for more information. The encrypted password will be unique for each NetSight server installation.
- In OneView on the Purview (secondary) NetSight server, select **Applications** from the menu bar.
- Select the **Configuration** tab.
- Expand the Purview Appliance and select **Advanced Configuration**.
- In the configuration properties table, enter the following key-value pairs:
 

```
SecondNetSightTest_enabled=true
SecondNetSightTest_server=(PRODUCTION NETSIGHT SERVER IP)
SecondNetSightTest_encryptedjmsspwd=[JMS encrypted password]
options.FlowServerOptions.overrideDetailedLocationProvider=NAC
options.FlowServerOptions.overrideDeviceFamilyProvider=NAC
options.FlowServerOptions.overrideHostnameProvider=NAC
options.FlowServerOptions.overrideUserProvider=NAC
```
- Click **OK**.

15. Enforce the configuration.
16. Restart the Purview appliance services:
 

```
$ appidctl restart
```
17. Verify the second NetSight thread is spawned in the appidmgmtserver.log file.
18. Open a webpage to `http://<Purview appliance IP>:8080`.
19. Verify that the End System cache has elements and that there is a low amount of time between events.

The screenshot shows the configuration page for a Purview Appliance (10.120.85.78 - 6.0.0.56). The 'Status Details' section contains the following information:

Status Details	
NetSight Client Connection	ready, state is LOGGEDIN, since Thu Feb 13 14:00:11 EST 2014
Mediation Agent	running, connected, since Thu Feb 13 14:00:18 EST 2014
Location Group	Default
Flow Rate Last Hour	58.4 fps
Event Sender	ok, since Thu Feb 13 14:00:12 EST 2014, 0 in queue, 0 dropped
End-System Cache	ok, channel ALL, 1621 elements, 0 Days 00:00:02 since last event

The 'End-System Cache' row is circled in red in the original image.

## Sharing End-System Distributed Cache Within a Single Production NetSight Server

1. On the single NetSight server, launch NAC Manager.
2. Navigate to **Tools > Options**.
3. In the left-hand tree, select **NAC Manager > Advanced Settings**.
4. Under End-System Mobility, check **Enable distributed end-system cache**.
5. Click **Apply**.
6. Click **Reload**.
7. Click **OK**.
8. In OneView, select **Applications** from the menu bar.
9. Select the **Configuration** tab.

10. Expand the Purview Appliance and select **Advanced Configuration**.
11. In the configuration properties table, enter the following key-value pairs:

```
options.FlowServerOptions.enableNacIntegration=true
options.FlowServerOptions.overrideDetailedLocationProvider=NAC
options.FlowServerOptions.overrideDeviceFamilyProvider=NAC
options.FlowServerOptions.overrideHostnameProvider=NAC
options.FlowServerOptions.overrideUserProvider=NAC
```



**Note:** While only the enableNacIntegration value is mandatory, the additional FlowServerOptions provide critical value and should be included.

12. Click **OK**.
13. Enforce the Purview configuration.
14. Restart the Purview appliance services:

```
$ appidctl restart
```

## Generating an Encrypted JMS Password

1. Open the NetSight Console on the production NetSight server.
2. Navigate to **Tools -> Options**.
3. Select **Suite Options -> Client Connections**.
4. In the **For All Users** panel, check the **Show credentials** box.
5. Note the username and password for [step 7](#). The default username should be set to "NetSightMQUser" with a password of "EnterasysNetSight".
6. Uncheck the **Show Credentials** box and click **OK**.
7. SSH to the Purview appliance and add the following entry to the /opt/appid/server/conf/config.properties file:
 

```
SecondNetSightTest_jmsspwd=EnterasysNetSight
Note: Use the password isolated in step 4.
```
8. Observe the log at /var/log/appidmgmtserver.log with the tail command.
 

```
$ tail -f /var/log/appidmgmtserver.log
```
9. In a separate SSH session to the Purview appliance, restart the Purview application with the command:
 

```
$ appidctl restart
```
10. Monitor the tail command output after the restart of the Purview application. A log message will include the encrypted password.
11. Remove the entry from the /opt/appid/server/conf/config.properties file:
 

```
SecondNetSightTest_jmsspwd=EnterasysNetSight
```

# A Installing the PV-A-300-10G-UG I/O Module



**Electrical Hazard:** Only qualified personnel should perform installation procedures.

**Riesgo Electrico:** Solamente personal calificado debe realizar procedimientos de instalacion.

**Elektrischer Gefahrenhinweis:** Installationen sollten nur durch ausgebildetes und qualifiziertes Personal vorgenommen werden.

**Risques d'électrocution:** Seul un personnel qualifié doit effectuer les procédures d'installation.

This appendix describes how to install the optional PV-A-300-10G-UG I/O module, which has two 10G SFP+ interfaces, in a PV-A-300 Purview appliance.



**Note:** You must order the PV-A-300-10G-UG I/O module separately from the PV-A-300 Purview appliance.

For information about...	Refer to page...
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## Recommended Tools

You may need the following items to perform the procedures in this section:

- Key to the system keylock
- #1 and #2 Phillips screwdrivers
- Wrist grounding strap

## Precautions

For complete safety information, refer to the document *Intel® Server Products Product Safety and Regulatory Compliance* available at the following sites:

- [http://download.intel.com/support/motherboards/server/sb/g23122003\\_safetyregulatory.pdf](http://download.intel.com/support/motherboards/server/sb/g23122003_safetyregulatory.pdf)
- <http://extranet.enterasys.com/downloads/Pages/NMS.aspx>



**Caution:** Observe normal ESD (ElectroStatic Discharge) procedures to avoid possible damage to system components.

## Installation Procedure

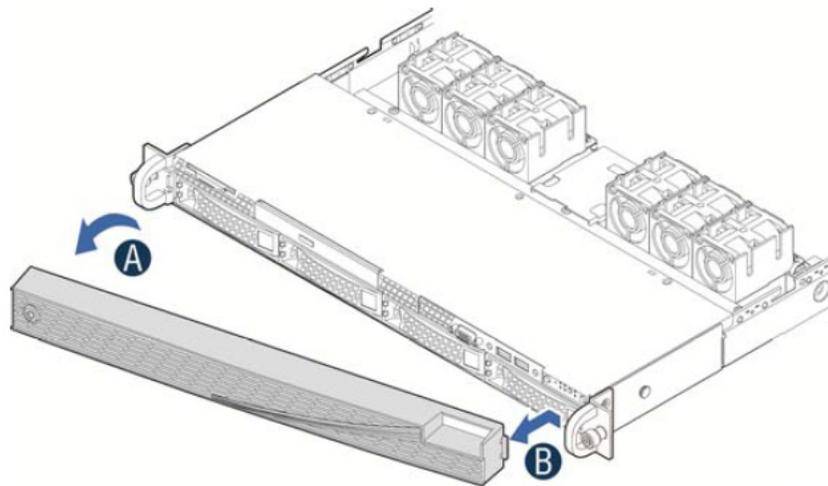


**Caution:** Observe normal ESD (ElectroStatic Discharge) procedures to avoid possible damage to system components.

To install the optional PV-A-300-10G-UG I/O module:

1. Remove the front bezel.
  - a. Unlock the bezel if it is locked.
  - b. Remove the left end of front bezel from rack handle (see letter "A" in Figure 1).

**Figure 1 Removing the Front Bezel from the PV-A-300**

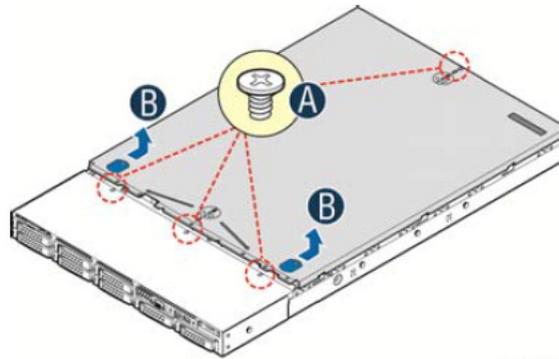


- c. Rotate the front bezel counterclockwise to release the latches on the right end from the rack handle (see letter "B").
2. Remove the system cover.

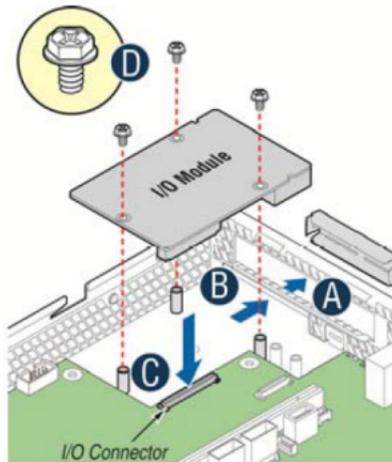


**Note:** A non-skid surface or a stop behind the appliance may be needed to prevent the appliance from sliding on your work surface.

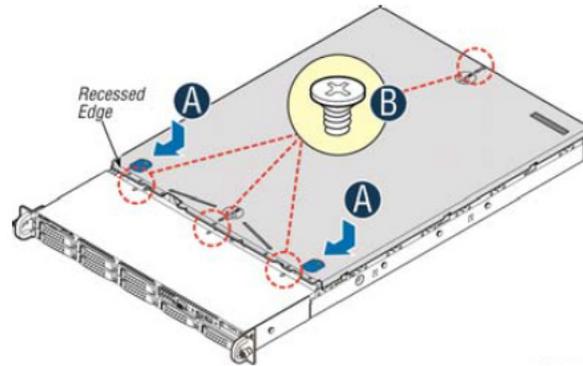
- a. Turn off all peripheral devices connected to the appliance.
  - b. Turn off the appliance.
  - c. Disconnect the power cord.
  - d. Remove the four screws (see letter "A" in Figure 2).

**Figure 2 Removing the Cover from the PV-A-300**

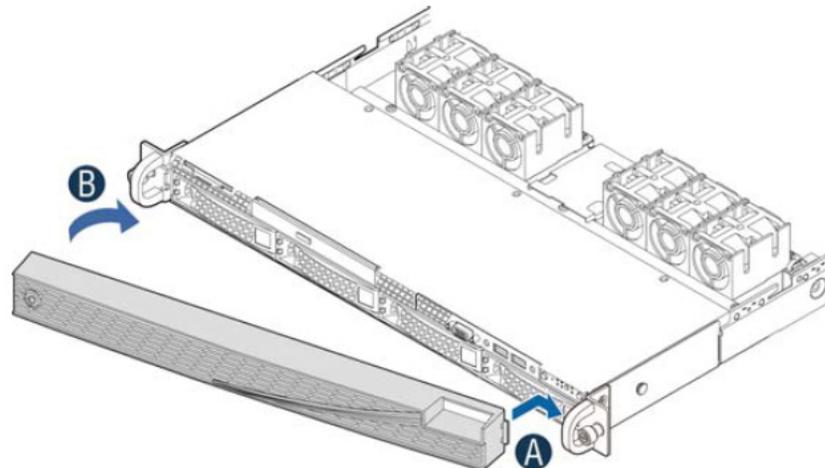
- e. Slide cover back and lift upward (see letter "B").
3. Place the PV-A-300-10G-UG I/O module in the appliance.
  - a. Squeeze the sides of the filler panel to disengage it from the server system back panel and remove it (see letter "A" in Figure 3).
  - b. Position the I/O module over the server board, fit the front of the I/O module into the back panel slot (see letter "B").
  - c. Attach the I/O module to the server board connector (see letter "C").
  - d. Secure the I/O module with the three screws as shown (see letter "D").

**Figure 3 Placing the I/O Module in the Appliance**

4. Install the system cover:
  - a. Place the system cover onto the appliance and slide the cover forward to engage the recessed edge at front of cover (see letter "A" in Figure 4).

**Figure 4 Installing the Cover on the PV-A-300**

- b. Tighten the four screws (see letter "B").
5. Install the front bezel:
  - a. Lock the right end of the front bezel to the rack handle (see letter "A" in Figure 5).

**Figure 5 Installing the Front Bezel on the PV-A-300**

- b. Rotate the front bezel clockwise till the left end clicks into place (see letter "B").
- c. Lock the bezel if needed.