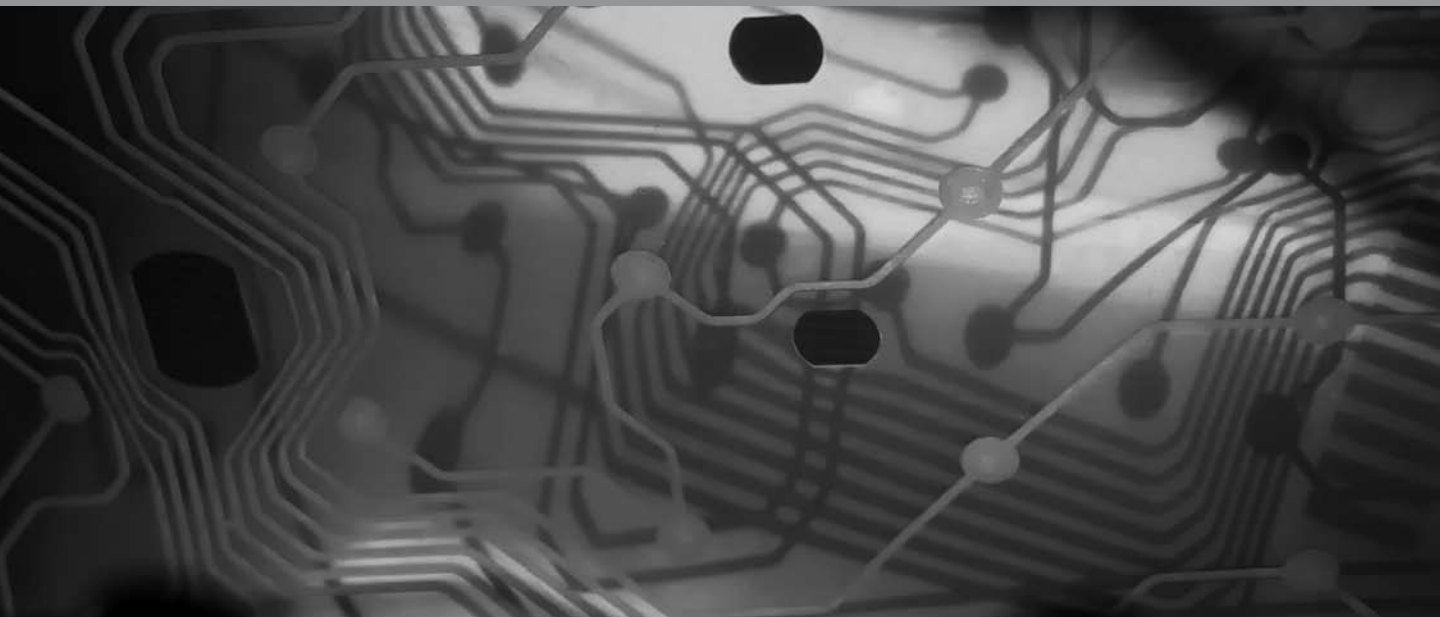
Avocent PM PDU

Technical Bulletin

DSView® 3 Software Plug-in



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DSView 3 Software Plug-In for Avocent PM PDUs

The Avocent Power Management (PM) Power Distribution Unit (PDU) plug-in for DSView 3 management software enables access, configuration and management of an Avocent PM PDU from within the DSView 3 software. The information provided here is supplemental to the DSView 3 help and the Avocent PM PDU Installer/User Guide. For detailed information on a particular functionality, please refer to the corresponding product manual.

NOTE: Because the Avocent PM PDU's On-Board Web Interface (OBWI) is nearly identical to managing the PM PDU from the DSView 3 software, this document will describe only the functions that differ from the PM PDU OBWI.

Before You Begin

The PM PDU plug-in may be pre-installed in your DSView 3 management software. If it is not, check with your Avocent representative to ensure your version of DSView 3 software is compatible with the plug-in. Also, make sure the plug-in is installed on every hub and spoke server in your network.

If your version of the DSView 3 software does not include the plug-in, see the DSView 3 help (keyword: plug-in).

NOTE: You must have DSView 3 software administrator access rights to add or manage plug-ins.

Overview

Most administration tasks on the PM PDU are done either locally or remotely with the OBWI to provide a real-time view of all connected devices. Using the web interface through the DSView 3 software, the administrator can configure the PM PDU. Other authorized users can access connected devices for the purposes of troubleshooting, performing maintenance, cycling power and rebooting connected devices.

Add Appliance Wizard

Once you have logged on successfully to the DSView 3 software, the Appliances All screen will display all of the added devices in the DSView 3 software. Click the *Add* button to open the Add

Appliance wizard. This wizard will guide you through the steps to add the Avocent PM PDU to the network.

Single or multiple appliances

On the second screen of the wizard, you will see the three buttons detailed in the following table.

Table 1: Add Appliance Wizard Buttons

Button	Description
Add a single appliance	Click this radio button to add a single PM PDU on the network.
Add multiple appliances	Click this radio button to add multiple PM PDUs on the network from an IP address list you provide.
Discover appliances on the network from an IPv4 address range or from an IPv6 subnet you provide	Click this radio button to use an IPv4 address range or IPv6 subnet you provide.

Click the *Next* button on each screen and follow the instructions in the Add Appliance Wizard to complete the Add Appliance process.

NOTE: When you have selected a single PM PDU to add, the DSView 3 software will ask for the product name of the PDU. The user will need to enter the correct model of the PDU.

Accessing the Appliance

After a PM PDU has been added to the DSView 3 software, it will be listed in the Units View - Appliances - All menu in the side navigation bar of the DSView 3 software. Click on the PM PDU to open its Overview page.

Table 2: Overview Information

Field	Description
Name	Lists the name of the PM PDU.
Type	Lists the type of the PM PDU.
Tools	Contains tools to configure the PM PDU.

Once you've opened the Overview page, a list of the PM PDU menus will appear in the side navigation bar.

Configuration Tools

The Avocent PM PDU plug-in is integrated with the DSView 3 management software tools to perform the tasks listed. You may access these tools from the appliance's Overview page.

Table 3: Configuration Tools

Appliance / Tools	Description
Reboot	Terminate all active sessions and reboot the PDU.
Upgrade Firmware	Upgrade the firmware through the DSView 3 server.
Resync	Synchronize the configuration information of the PDUs and outlets with the DSView 3 server database.
Save Configuration (Legacy)	Back up the PDU configuration data to the DSView 3 server database. The saved configuration includes the configuration not exposed in the Web Manager.
Restore Configuration (Legacy)	Restore a previously saved PDU configuration. The restored configuration includes the configuration not exposed in the Web Manager.
Save Configuration Template	Create a configuration template with a specific name. The saved configuration template includes the Web Manager pages listed in Table 5 beginning on page 4 and can later be used to replicate this PDU configuration to multiple PDUs, or to restore the configuration to a replacement PDU.
Apply Configuration Template	Restore a configuration saved while using the Save Configuration Template.
Save Last Known Good Configuration	Save a configuration template with a pre-defined name of Last Known Good Configuration.
Apply Last Known Good Configuration	Restore the configuration template saved as Last Known Good Configuration.
Save Current Configuration	Save a configuration template with a pre-defined name of Current Configuration.
Apply Current Configuration	Restore the configuration template saved as Current Configuration.
Appliance Replacement	Replace a faulty PDU with another one by applying the configuration template from the faulty one to the replacement PDU.
Appliance Session	Launch a viewer with an SSH connection using the DSView 3 software.
Restore to Factory Configuration	Restore to factory default values and reboot the PDU. Only the configuration of the running image will be restored to factory default. After reboot, the PDU will need to be deleted and then added again to the DSView 3 software if it was previously added in Secure more or if the PDU gets a different IP from DHCP.
Shutdown Appliance	Shut down the PM PDU.

In addition to the save and apply configuration tools described in the previous table, you can also perform the following tasks by selecting an appliance on the Unit Views page and selecting the *Operations* drop-down.

Table 4: Operations Available on Unit Views Screen

Operation	Description
Show Version	Display current PDU boot and firmware versions.
Push Names to Appliance	The DSView 3 software pushes names stored in the database to the PDU and all targets.
Pull Names from Appliance	The DSView 3 software pulls PDU and all target names and synchronizes the DSView 3 server database.
Properties	Customize the unit configuration in the DSView 3 server database.

Appliance Configuration Template Properties

Appliance configuration templates allow administrators to simultaneously configure multiple units from the DSView 3 software. An appliance configuration template may be used to configure new units or replace existing units. For more information about appliance configuration templates, see the DSView 3 help (keywords: configuration templates). These properties are applied to a PDU when the Appliance Replacement, Apply Configuration Template, Apply Last Know Good Configuration, or Apply Current Configuration operations are executed.

A new “Template” node was created under the Power Management node to create templates for Avocent and Cyclades® PDUs. When a PDU configuration template is applied, the settings saved under the Template node are applied to all PDUs in the chain.

The following table lists the Appliance Settings pages that are supported for the Avocent PM PDU configuration templates.

Table 5: Appliance Configuration Template Supported Pages

Appliance Settings Main Pages	Appliance Settings Subpages
Power Management	PDUs - Settings - Outlets*
	PDUs - Settings - PDUs*
	PDUs - Settings - Phases*
	PDUs - Settings - Banks*
	PDUs - Settings - Environment*
	Settings
	Template

Table 5: Appliance Configuration Template Supported Pages (Continued)

Appliance Settings Main Pages	Appliance Settings Subpages
System	Security - Security Profile
	Date and Time - Date & Time
	Date and Time - Timezone
	Language
Network	Settings*
	IPv4 Static Routes*
	IPv6 Static Routes*
	Hosts*
	Firewall - IPv4 Filter Table
	Firewall - IPv4 Filter Table - Rules
	Firewall - IPv6 Filter Table
	Firewall - IPv6 Filter Table - Rules
	IPSec (VPN)
	SNMP - System
	SNMP - v1, v2, v3
Authentication	Appliance Authentication
	Authentication Servers - RADIUS
	Authentication Servers -TACACS+
	Authentication Servers -Kerberos
	Authentication Servers -NIS
	Authentication Servers -DSView
Users	Local Accounts - User Names
	Local Accounts - Password Rules
	Groups - Members
	Groups - Log-in Profile
	Groups - Access Righs - Serial
	Groups - Access Rights - Power - PDU*

Table 5: Appliance Configuration Template Supported Pages (Continued)

Appliance Settings Main Pages	Appliance Settings Subpages
	Users - Groups - Access Rights - Power - Outlets*
	Users - Groups - Access Rights - Appliance
Events and Logs	Event List
	Event Destinations
	Data Buffering
	Appliance Session
	Sensors

*These pages are only applied when using the Appliance Replacement operation. The Appliance Replacement operation will restore the configuration of the master and chained PDUs, so make sure they shared the same configuration when the configuration template was saved.

For Technical Support:
www.avocent.com/support

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