Sun Rack II Product Notes

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Using This Documentation

- **Overview** – Provides late-breaking information on the Sun Rack II 1042, 1242, and PDUs.
- **Audience** – Technicians, system administrators, and authorized service providers
- **Required knowledge** – Advanced experience troubleshooting and replacing hardware

These topics describe how to access the documentation and leave feedback on it.

- "Product Documentation Library" on page 7
- "Feedback" on page 7

Product Documentation Library

Documentation and resources for this product and related products are available at https://www.oracle.com/goto/sunrackii/docs.

Feedback

Provide feedback about this documentation at http://www.oracle.com/goto/docfeedback.

Late-Breaking Information

This document contains important and late-breaking information about Oracle's Sun Rack II 1042 and Sun Rack II 1242 cabinets and PDUs.

- "Raise Leveling Feet Before Moving the Rack" on page 9
- "PDU Replacement Procedures" on page 9
- "Monitoring the Enhanced PDU (HTML Interface)" on page 10
- "Access a Metering Unit on the Network (Original PDU)" on page 10
- "Enhanced PDU" on page 10
- "Remove and Dispose of the Plastic Bumpers That Are Shipped With the Rack" on page 10
- "Use the Finger-Tighten Method on the Leveling Feet" on page 11
- "Known Issues" on page 12
- "Ordering Optional Components" on page 15
- "Latest PDU Firmware Downloads" on page 16
- "Sun Rack II PDU Patch Table" on page 16
- "Rack Web Site" on page 17

Raise Leveling Feet Before Moving the Rack

When unpacking at the installation site, or when repackaging and moving the rack to a new location, verify that the leveling feet are up before moving the rack.

PDU Replacement Procedures

Refer to the service manuals of the equipment installed in the rack for the proper PDU replacement procedures, if applicable.

Monitoring the Enhanced PDU (HTML Interface)

Using the metering unit's HTML interface, you can monitor how much power, energy, and current the equipment attached to the PDU uses, as well as the voltage level powering the equipment. The reported voltage for 3ph PDUs is L-N for HV PDUs and L-G for LV PDUs. The reported voltage for 1ph PDUs is L-N for HV PDUs and L-L for LV PDUs.

The Enhanced PDU supports both 10/100 Full Duplex and 10/100 Half Duplex as well as auto-negotiation as defined in IEEE802.3u. If the switch port supports auto-negotiation the Enhanced PDU will configure itself to the fastest speed supported by the switch. If a specific mode of operation is needed the switch port needs to be configured to the specific mode of operation.

Access a Metering Unit on the Network (Original PDU)

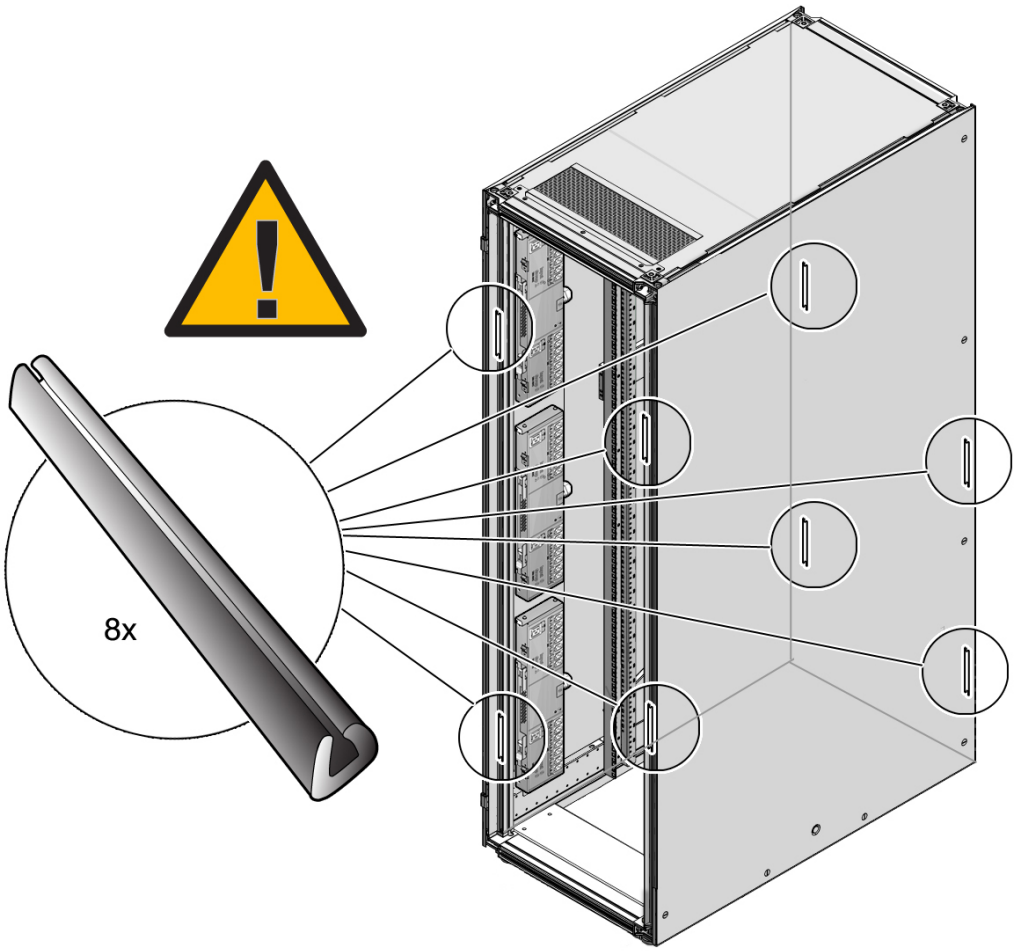
The Original PDU supports both, 10/100 Full Duplex and 10/100 Half Duplex but not auto-negotiation as defined in IEEE802.3u. The Original PDU uses "auto detection" which means it configures itself to match the switch port. If a specific mode of operation is needed the switch port need to be configured to the specific mode of operation.

Enhanced PDU

An enhanced standard PDU is now available for Oracle's Sun Rack II 1042 and Sun Rack II 1242 cabinets. This enhanced PDU, which ships with firmware version V2.04, allows you four ways to monitor how much power, energy, and current the equipment attached to the PDU uses, as well as the voltage level powering the equipment. These ways include the PDU's LCD screen, the Monitoring Overview page using the HTML interface, the RS-232 interface, and the SSH interface.

Remove and Dispose of the Plastic Bumpers That Are Shipped With the Rack

Racks are shipped with plastic bumpers installed on the rack doors. Remove and dispose of these bumpers when the rack is in its final location.



Use the Finger-Tighten Method on the Leveling Feet

When stabilizing the rack, lower the four leveling feet to the floor, using the finger-tighten method.

Known Issues

- "SSH Login With a Bad Password Locks the User out When Logging in to the BUI (18952597)" on page 12
- "LCD Display of IP, SUBM, GATW and DNS Does Not Match the CLI When DHCP Is On (19882719)" on page 13
- "With HTTPS SSH Using IPv6 Does Not Disconnect Until the SSH Connection Times Out (19916916)" on page 13
- "BUI of a PDU Cannot Be Connected When HTTPS Is Enabled and IPv6 Address Is Used (19916968)" on page 13
- "Telnet Over IPv6 Is Not Handled by PDU Firmware (19946327)" on page 13
- "CLI Accepts an Empty String as a Valid Password (19953830)" on page 14
- "Using CLI SNMPv3 Users Can Be Created With Improper Auth/Priv Passwords (20041214)" on page 14
- "Using SNMP a User Cannot Set SNMP Access Port and SNMP Traps Port (20056481)" on page 14
- "Enhanced PDU II Accepts Invalid Values for NTP Server IP Via BUI (20068586)" on page 14
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- "Sun Rack II 1042 Does Not Support Three-Phase PDUs" on page 15

SSH Login With a Bad Password Locks the User out When Logging in to the BUI (18952597)

If a person attempts to log in though SSH as either a `user` or `admin` with a bad password, the `admin logged in` message appears on the BUI at the first failed attempt, even though no one is actually logged in. If the login attempt is successful on the second or third attempt, the problem is corrected. After the third attempt, the SSH session is terminated and the `admin` is no longer able to log in through the BUI.

Workaround: Log in through SSH as either `user` or `admin` with a recognized password and then exit.

LCD Display of IP, SUBM, GATW and DNS Does Not Match the CLI When DHCP Is On (19882719)

The LCD display of the IP address does not match the CLI when DHCP is enabled.

Workaround: There is no workaround.

With HTTPS SSH Using IPv6 Does Not Disconnect Until the SSH Connection Times Out (19916916)

When connected to the CLI of a PDU using SSH with IPv6 and an HTTPS web server, the SSH connection does not terminate until the SSH connection times out.

Workaround: Wait for the timeout to happen. When connecting to the PDU through SSH and IPv6 configure the webserver for HTTP access.

Note - HTTP is a less secure access method than HTTPS.

BUI of a PDU Cannot Be Connected When HTTPS Is Enabled and IPv6 Address Is Used (19916968)

BUI of the PDU cannot be accessed when HTTPS is enabled and an IPv6 address is used in the following format: https://[2606:b400:418:2770:20b:38ff:febc:d727]/.

Workaround: When accessing the BUI with an IPv6 address in the defined format, configure the web server for HTTP access.

Note - HTTP is a less secure access method than HTTPS.

Telnet Over IPv6 Is Not Handled by PDU Firmware (19946327)

A Telnet connection to PDU is not supported. Attempting to connect using Telnet should be rejected. This occurs when using Telnet with IPv4. With Telnet over IPv6, the connection is not rejected and the connection is not disconnected until the connections times out.

Workaround: None. Do not attempt to connect to the PDU through Telnet.

CLI Accepts an Empty String as a Valid Password (19953830)

The command `set user_password` accepts an empty string passed as a valid password and returns an OK message. However, attempting to log in in this state fails.

Workaround: Create a password with a minimum of eight characters.

Using CLI SNMPv3 Users Can Be Created With Improper Auth/Priv Passwords (20041214)

When changing an SNMPv3 user from No Auth/No Priv to another combination of Auth and Priv, no request for passwords is generated. In this condition the user is not allowed to log in.

Workaround: Create an Auth and/or Priv password with a minimum of eight characters.

Using SNMP a User Cannot Set SNMP Access Port and SNMP Traps Port (20056481)

The Enhanced MIB file does not contain the object definition for the parameters `net_port_snmp` and `net_port_traps`. Hence we will not be able to set these parameters via SNMP. However, these parameters can be set using CLI and BUI.

Workaround: Set the `net_port_snmp` and `net_port_traps` parameters using the CLI or BUI.

Enhanced PDU II Accepts Invalid Values for NTP Server IP Via BUI (20068586)

The PDU allows incorrect IPv4 addresses to be configured and allows more than one correct IPv4 address to be configured.

Workaround: Configure the NTP server with only one correct IPv4 address.

Special Characters Suffixed With Number Fields Are Accepted in Net Configuration (20173108)

In BUI, under Net Configuration, the fields that takes numbers as input can be suffixed with any special character that is accepted. Whereas, a number suffixed with a special character is not accepted.

Workaround: Do not use special characters in number-only fields.

Unsupported Feature in Firmware V2.04, V2.03, and V2.02

VPN is not supported in firmware V2.04, V2.03, and V2.02.

Unsupported Features in Firmware V2.01 and V2.00

VPN, SNMPv3, and IPv6 are not supported in firmware V2.01 and V2.00.

Sun Rack II 1042 Does Not Support Three-Phase PDUs

The three-phase PDUs (both the high-voltage and low-voltage versions) are not supported in the Sun Rack II 1042. If your equipment requires a three-phase PDU, use the Sun Rack II 1242 instead.

Additionally, select the appropriately sized rack for the equipment you plan to install. You might need to select the deeper Sun Rack II 1242 if you plan to install large equipment or equipment that requires a large amount of cabling.

Ordering Optional Components

You can order additional optional hardware components for your rack at:

http://www.oracle.com/us/sun/index.htm

Refer to the *Sun Rack II User's Guide*, and your equipment's installation manual, for instructions on installing equipment purchased from the sales site. For instructions on installing PDUs, refer to the *Sun Rack II Power Distribution Units User's Guide*.

Note - If you ordered rack components, or equipment, from another company, refer to that company's documentation for installation and service instructions.

Latest PDU Firmware Downloads

You can download updates of the Sun Rack II PDU monitoring firmware at:

http://support.oracle.com

For the original PDU, if the download is not a single ZIP file, ensure that you download both the metering unit firmware (`MKAPP_V1.x.dl`) and the HTML interface files (`HTML_V1.x.x.dl`) from the web site.

For the enhanced PDU, if the download is not a single ZIP file, ensure that you download the metering unit firmware (`MKAPP_Vx.x.dl`) from the web site.

Refer to the *Sun Rack II Power Distribution Unit User's Guide*, and any text file included with the firmware, for instructions on how to update the firmware.

Sun Rack II PDU Patch Table

TABLE 1 Patch Table

Patch Number	Patch Version
12657935	Original PDU V1.01
12657995	Original PDU V1.03
12691964	Original PDU V1.02
12871297	Original PDU V1.04
16523441	Original PDU V1.06
18951381	Enhanced PDU V2.00
19057911	Enhanced PDU V2.01
20191742	Enhanced PDU V2.02

Patch Number	Patch Version
20917482	Enhanced PDU V2.03
21158114	Enhanced PDU V2.04

Rack Web Site

You can find additional information about Oracle's Sun Rack II at:

http://www.oracle.com/us/products/servers-storage/servers/rack-cabinets/