Swapping out a power supply

Swapping out a power supply involved disconnecting the target power supply (PSU) from the power source, unplugging the power cable, removing the old PSU and installing the replacement PSU, and then reconnecting it to the power source.

**About this task**

- The power supplies are redundant and hot-swappable.
- This procedure is written for replacing one power supply at a time.
  
  **Note:** It is a best practice to replace the power supply within two minutes of removing it from the chassis. The system continues to function, but ONTAP sends messages to the console about the degraded power supply until the power supply is replaced.

- The number of power supplies in the system depends on the model.
- Power supplies are auto-ranging.

**Steps**

1. If you are not already grounded, properly ground yourself.
2. Identify the power supply you want to replace, based on console error messages or through the LEDs on the power supplies.
3. Disconnect the power supply:
   
   a. Open the power cord retainer, and then unplug the power cord from the power supply.
   b. Unplug the power cord from the power source.
4. Remove the power supply:
   
   a. Rotate the cam handle on the power supply up as far as it will go.
   b. Press the blue locking tab on the power supply, and then slide the power supply out of the controller module.

  **Caution:** The power supply is short. Always use two hands to support it when removing it from the controller module so that it does not suddenly swing free from the controller module and injure you.
5. Using both hands, support and align the edges of the power supply with the opening in the controller module, and then gently push the power supply into the controller module until the locking tab clicks into place.

The power supplies are keyed and can only be installed one way.

Attention: Do not use excessive force when sliding the power supply into the system; you can damage the connector.

6. Close the cam handle by swinging it down as far as it will go.

7. Reconnect the power supply cabling:
   a. Reconnect the power cord to the power supply and the power source.
   b. Secure the power cord to the power supply using the power cord retainer.

Completing the replacement process

After you replace the part, you can return the failed part to NetApp, as described in the RMA instructions shipped with the kit. Contact technical support at NetApp Support, 888-463-8277 (North America), 00-800-44-638277 (Europe), or +800-800-80-800 (Asia/Pacific) if you need the RMA number or additional help with the replacement procedure.
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