ARX®-1500/2500 Power Supply FRU
Canadian Regulatory Compliance
This Class A digital apparatus complies with Canadian ICES-003.

Standards Compliance
This product conforms to the IEC, European Union, ANSI/UL and Canadian CSA standards applicable to Information Technology products at the time of manufacture.

Acknowledgments
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Revision History
June 2011 — First printing for Release 6.0.0.
September 2011 — Second printing for Release 6.1.0.
Replacing Power Supplies

This document describes how to remove and insert the ARX-1500 and ARX-2500 replaceable power supplies.

Before You Begin

When returning a disk drive, power supply, or the whole ARX, you must send along the serial number for the chassis. In some cases, you also need the base MAC address for the chassis.

Use the `show chassis` command to get the serial number. If you cannot reach the CLI, read the serial number on the front, right-hand side of the chassis (under the cooling holes).

See the following example output for the `show chassis` command:

canbyA# show chassis chassinfo

Identification:
Hostname                           UUID
----------------------------------- ------------------------------
canbyA                             64a6417e-cc3d-11df-80ca-a73fbeb72ef8

Chassis:
Chassis Type       Model Number        Serial Number
------------------ -------------------------- -------------------
ARX-1500           ARX1500LE-F5          XX-ABCD-0509

Chassis Environment:
Base MAC Address   Power   Fan(setting)   System Temp.   CPU Temp.
-------------------- ------- -------------- -------------- ------------
00:0a:49:75:5d:00  Online  Online (high)  Normal 30 C   51 C
Chapter 1
Replacing Power Supplies

Power Details:
Supply   State
--------  ------
A         Online
B         Online

The power supplies are accessible from the back of the chassis, as shown in Figure 1.1.

As a general rule, replace the power supplies on the backup switch.

◆ WARNING

Static electricity can damage switch components. Be sure to wear antistatic straps before handling hardware modules such as disk drives and power supplies.

Replacing the Power Supplies

The ARX-1500 and ARX-2500 accommodate two power supplies — both accessible from the back of the system. Figure 1.1 shows the location of the power supplies on an ARX-1500.

Figure 1.1 Back view showing location of power supplies

The power supplies are hot-swappable, meaning that if the system is powered up, then one of the two power cords can be disconnected and its power supply removed at any time. As long the other power cord remains connected to a functioning power supply, the system continues to run normally.

You must replace a power supply if it fails or if one of the fans integrated in a power supply fails.

If you receive an email notification of a power supply failure, examine the LED on the power supplies (each power supply has one LED) to determine which has failed. The LED on the failed power supply will be illuminated (amber). For more information on the power supply LEDs, consult the Power section in the ARX SNMP Reference.
DANGER

An ARX-1500 / ARX-2500 is configured with two power supplies and has two power cords. If you must completely remove AC power from the system, disconnect both power cords before servicing the system.

If an alarm sounds due to a power supply fault condition, push the red button to the right of the power supplies. The power supplies share this red button and pushing it silences the alarm.

If the CLI output shows a state of Failed, consult the ARX® CLI Reference (the show chassis chassinfo command) for information on how to proceed.

The following example output from the CLI command, show chassis chassinfo, shows that both power supplies are installed and online.

canbyA# show chassis chassinfo

Identification:
Hostname                    UUID
-----------------------------------
 canbyA                64a6417e-cc3d-11df-80ca-a73fbeb72ef8

Chassis:
Chassis Type  Model Number          Serial Number
-------------------                      -------------------
 ARX-1500       ARX1500LE-F5          XX-ABCD-0509

Chassis Environment:
Base MAC Address  Power     Fan(setting)  System Temp.  CPU Temp.
------------------ ---------- ------------------ ------------- -------------
00:0a:49:75:5d:00  Online     Online (high) Normal 30 C  51 C

Power Details:
Supply  State
-----  ------
 A    Online
 B    Online

canbyA#

To replace a power supply:

1. Locate the defective power supply by examining the power supply LEDs.

   An unlit status LED indicates the power module is defective.

WARNING

Removing the wrong power supply can cause the whole system to shut down.
2. Unlock the AC power cord by flipping up the retention wire.

   The power supplies are installed with power cord retention wires. The following figure shows a power supply installed with its power cord retention wire.

3. Pull the power cord out of the failed power supply and set it aside.

4. Depress the metal lever at the top of the power supply to the right while at the same time using the black handle to gently pull the power supply towards you.

   **WARNING**

   The power supply cover is used as a heat sink for cooling. The temperature is usually between 50-60 degrees Celsius under full load condition. Wear gloves to keep from burning yourself when removing the defective power module. Set the power supply in a safe area to cool down and keep others from touching it.

5. Insert the replacement power supply into the power supply cage and push it gently into place. You may need to exert some force to seat it fully.

6. Insert the power cord and verify that the power module status LED light is green.

   Note that the LEDs on the power supply will not light up — even with power present — until the ARX is powered on.