# How do I use a cabinet PDU to help manage equipment deployment?

**APPLICATION NOTE** PRO2-002 | March 2015

Learn how the HDOT™ Alt-Phase PRO2™ Switched CDU® provides for easy equipment deployment into your data center cabinet.

### Typical Application

As the manager of a large critical-operations data center, I am concerned with any logistical procedure that might result in downtime. In particular, addition of new equipment into the data center racks introduces many opportunities for faults. How can I use the cabinet PDU to add a level of control to these procedures and reduce the risks?

### Our Solution

The Server Technology HDOT Alt-phase PRO2 Switched CDU provides several features designed to reduce the risks associated with cabinet equipment deployments. Start by setting the new CDU outlets to OFF with a Wake Up State of LAST in order to keep outlets in the powered down state until deployment is scheduled. For even more peace of mind, set the outlets to Locked to prevent any switching commands that might accidentally be sent through any interface, including SNMP. To aid with the deployment of new equipment, the administrator can then determine which phases to load based on the billing-grade accurate measurements, name outlets per the equipment, and activate the switched outlet. To aid the installer in finding the correct cabinet and CDU, the administrator can set the CDU to Identify through flashing displays. Feel confident that the installer will be able to use a standard minimal length cable with the alternating-phase outlets. Add the Sentry Power Manager (SPM) to help manage assets by RU space through-out the data center.

**Outlets**

Configure global outlet options

| Sequence Delay (seconds): | 2 |
| Reboot Delay (seconds): | 15 |
| State Change Logging: | ☑ Enable |

List outlets in selected unit

Selected Unit: Master ▾

Configure unit outlet options

| ID | Outlet Name | Socket Type | Extra On Delay | Wake Up State | Locked / No Control | SNMP Trap Notifications | Email Notifications |
|----|-------------|-------------|----------------|---------------|---------------------|-------------------------|---------------------|
| AA1 | Master_Outlet_1 | C19 | 10 sec | On ▾ | ☐ | ☑ | ☑ |
| AA2 | Master_Outlet_2 | C13 | 0 sec | Off ▾ | ☑ | ☑ | ☑ |

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## Designed with high-availability data access in mind.

The PRO2 series hot-swappable network card is designed to provide measurement and alert data from the "Master" CDU and up to (3) "Link" CDUs even if power to the master fails. Additionally, as seen in the image below, the link units are wired in a star formation so that failure of any link does not affect communication to the others.



LINK CDU #1  MASTER CDU  LINK CDU #2  LINK CDU #3

### Key PRO2 Benefits:

> Hot-swappable, redundantly-powered network card (from link CDU)

> Star architecture multi-linking compared to competition's daisy chain design with single point of failure

> Branch current measurements and multi-level alerts

> Shallower enclosure compared to previous generation CDU

> More alarms and configuration options compared to previous generation CDU

### Key HDOT Alt-phase PDU Benefits:

> Industry standard C13 and C19 with minimized footprint

> Maximum possible outlet density in an intelligent PDU

> High native cord retention, reducing the need for additional locking devices

> Color-coded alternating-phase outputs for easy cabling and load balancing

> Operation to 65°C (149°F) ambient

> Thousands of variations available using our online Build-Your-Own PDU Tool

Interested in learning more about how PRO2 can help you manage and distribute power in your data center?
Visit us online at: www.servertech.com/products/

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