



CDU Configuration

Sentry® Smart or Switched CDU's

1.0 Executive Summary

In today's do more with less work environment, often there are no resources available for configuration of the Cabinet Power Distribution Units (CDU's) within your facility. This is especially true in a large build out or an installation where cabinets are preconfigured to ensure future availability. Out sourcing this task to a trained technician ensures that the CDU's are installed and tested properly providing reliable and secure operation.

2.0 Features and Benefits

<i>Features</i>	<i>Benefits</i>
Pre-site Discussion	A review of the installation with the customer providing information on the systems setup to ensure proper configuration.
System Settings	Ensures system security and other critical settings are implemented properly. Power in-feed and outlet names are critical when monitoring and managing devices and remote re-boots.
Access and Security	Configure or disable connections like Telnet and configure security settings like SSH and SSL, making sure that the configuration meets current security requirements and ensuring that there is not unauthorized access.
User Access	Proper configuration of internal access levels and rights provides users exposure or control to only the devices that they are responsible for.
Set Thresholds	Threshold configuration ensures your datacenter hotpoints do not get out of tolerance and threaten the condition of your valuable IT hardware assets.
SNMP and Email requirements	Critical information is provided with these alerts and setting trap destinations and email alert locations ensures proper notification of these conditions.
Testing	Provides verification that all operations are working correctly. Testing SNMP and email event notifications is critical to keep



	IT professionals immediately engaged when events occur.
Training	Only through proper training can you be assured that you are getting the maximum value from your Cabinet Power Distribution Units (CDU's).

3.0 Details of Service

The specific activities of this service are listed below. For each item, STI will perform the work described.

Service	
<i>Activities</i>	<i>Description</i>
Set Network Settings	Enable DHCP; Enter IP, subnet and gateway; Configure DNS server
System Settings	Set Display orientation; Set up strong password support; Set temperature scale; Enter area footprint; Set login banner; Set tower names; Enter in-feed names; Enter outlet names; Name environmental monitors; Enter sensor names;
Configure Telnet/SSH	Enable or disable Telnet and SSH; Set port number
Set up HTTP/SSL	Enable or disable http; Enter port number; Set basic or MD5 authentication; Enable or disable SSL; Set SSL as optional or required
UPS Configuration	Configure IP of the UPS; Select UPS brand; Enter UPS IP
Configure/Name Outlets	Set sequence interval, reboot delay; Set wake up state for each outlet; Enter the on-delay for each outlet
Set Shutdown Sequencing	Check on/off status of shutdown delay for each outlet; Set delay for each outlet; Script delay for each outlet to on/off and in minutes.
Set up Groups	Determine how many groups are required, how many outlets for each group and who the user is for each group.
User Names and Access Rights	Enter user names; Assign access level for each user as view only, on only, reboot only, power user or admin.; Assign access rights for outlets, groups and ports.
Assign and Script FTP	Assign FTP server, username, password and set directory for FTP server; Identify the file name; Set day and hour if auto updates are configured.
SNTP	Input the SNTP primary and secondary host; Enter the port number.
Syslog	Input the Syslog primary and secondary host; Enter the port number.



SNMP and Thresholds	Enable SNMP agent; Get community string; Set community string; Trap community string; Set error repeat time; Set trap destinations; Set IP restrictions; Enter sysname, syslocation, and syscontact; Set tower traps, infeed traps and outlet traps; Input the environmental monitor traps; Enter sensor traps; Input environmental thresholds values for recovery delta, high and low humidity.
Set LDAP Security	Set LDAP status; Input primary host; Input secondary host; Enter port numbers and use TLS/SSL; Identify bind type as simple or MD5 and search bind DN and password; Find user search base DN and user filter; Enter membership value type; Assign authentication as local and remote or remote only; Assign LDAP groups and set access level, rights, environmental and actions.
Set TACACS+ Security	Enable TACACS+; Enter primary and secondary host; Enter port ID; Set authentication order as remote-local or remote only; Enter encryption key; Set access levels and rights.
Set RADIUS Security	Enable RADIUS; Set authentication order as remote-local or remote only; Set primary server for shared secret, port number, timeouts and number of retries; Set secondary server for shared secret, port number, timeouts and number of retries;
Set email requirements	Enable email notifications; Set SMTP host and port number; Set "from" email address; Set primary and secondary "send to" email address; Input event message; Input event, authorization, power and configuration messages.
Testing	Verification of setup, FTP, LDAP, Syslog, security, TACACS, RADIUS, email and SNMP trap locations and settings.
Training	CDU's features and functions.

4.0 Scope of Responsibility

STI Responsibility

- Perform timely follow up to order execution which involves
 - Pre-site communication
 - Confirmation of scheduling
- Follow customer site requirements
- Ensure customer communication through integration process
- Document and review work performed



Customer Responsibility

- Provide network access during configuration
- Ensure network personnel are there to assist in customization efforts during integration on user access, SNMP and email alert locations, etc.
- Review installation and sign datasheet if work is accepted

5.0 Terms and Conditions

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