

Server Technology PRO CLI Commands V8.1c Rev. 3215

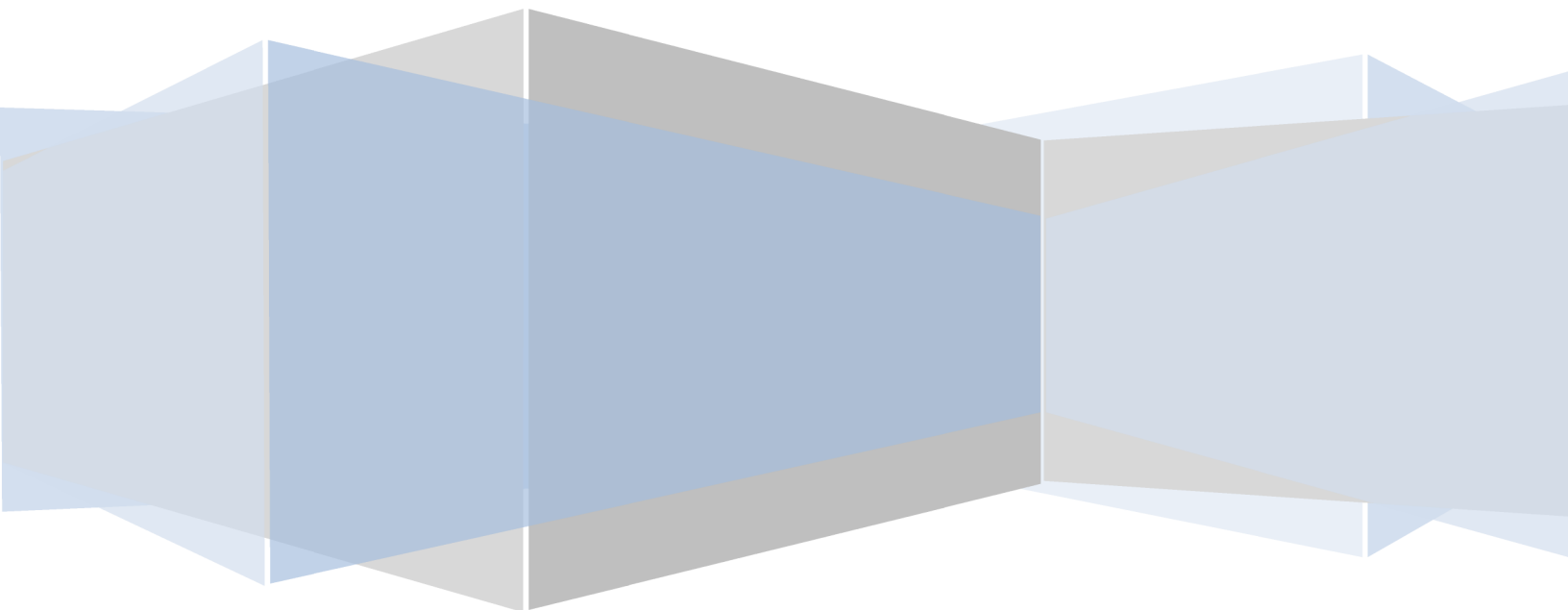


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UserLevels

Lowest to highest

View-Only	Access only to unauthenticated commands
On-Only	View-Only access plus "on" command *
Reboot-Only	View-Only access plus "reboot" command *
User	View-Only access plus "on", "off", and "reboot"
Power-User	User access plus "shutdown" command
Admin	No user level based restrictions
Admn	(see Admin) **

System Monitor access allows all "stat" commands

- * Switched only access
- ** Hidden

Command Syntax

argument	argument name that is not prompted for
<argument>	argument value that is prompted for unless [optional]
[argument]	optional argument that is not prompted for
{argument}	mandatory argument that cannot be specified on the command line but will be prompted for. This keeps sensitive data out of the command line history.
	multiple option separator

Add commands

add grouptoldap

Add outlet group control access to an LDAP group

Command syntax:

```
add grouptoldap <group_name>|all <ldap_group>
add gtl <group_name>|all <ldap_group> *
```

- * Hidden (short form)

Parameters:

all	all groups
group_name	outlet group name
ldap_group	LDAP group name

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Command Access

Admin level only

add grouptotacacs

Add outlet group control access to a TACACS+ privilege level

Command syntax

```
add grouptotacacs <group_name>|all <priv_level>
add gtt <group_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all groups
group_name	outlet group name
priv_level	TACACS+ privilege level

Command Access

Admin level only

add grouptouser

Add outlet group control access to a local user

Command syntax

```
add grouptouser <group_name>|all <local_user>
add gtu <group_name>|all <local_user> *
```

* Hidden (short form)

Parameters:

all	all groups
local_user	local username
group_name	outlet group name

Command Access

Admin level only

add outlettogroup

Add outlet control access to an outlet group

Command syntax:

```
add outlettogroup <outlet_id>|<outlet_name>|all <group_name>
add otg <outlet_id>|<outlet_name>|all <group_name> *
```

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* Hidden (short form)

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

add outlettoldap

Add outlet control access to an LDAP group

Command syntax

```
add outlettoldap <outlet_id>|<outlet_name>|all <ldap_group>
add otl <outlet_id>|<outlet_name>|all <ldap_group> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
ldap_group	LDAP group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

add outlettotacacs

Add outlet control access to a TACACS+ privilege level

Command syntax

```
add outlettotacacs <outlet_id>|<outlet_name>|all <priv_level>
add ott <outlet_id>|<outlet_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)
priv_level	TACACS+ privilege level

Command Access

Admin level only

add outlettouser

Add outlet control access to a local user

Command syntax

```
add outlettouser <outlet_id>|<outlet_name>|all <local_user>  
add otu <outlet_id>|<outlet_name>|all <local_user> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
local_user	local username
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

add porttoldap

Add pass-through serial port connection access to an LDAP group

Command syntax

```
add porttoldap <port_id>|<port_name>|all <ldap_group>  
add ptl <port_id>|<port_name>|all <ldap_group> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
ldap_group	LDAP group name
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)

Command Access:

Admin level only

add porttotacacs

Add pass-through serial port connection access to a TACACS+ privilege level

Command syntax

```
add porttotacacs <port_id>|<port_name>|all <priv_level>  
add ptt <port_id>|<port_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)
priv_level	TACACS+ privilege level

Command Access

Admin level only

add porttouser

Add pass-through serial port connection access to a local user

Command syntax:

```
add porttouser <port_id>|<port_name>|all <local_user>
add ptu <port_id>|<port_name>|all <local_user> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
local_user	local username
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)

Command Access

Admin level only

bstat

display latest status and metrics for all branches within the system

Command syntax

```
bstat
```

Command Access

System Monitor access

cd

change the active working path in the file system

Command syntax

```
cd [.|..|<path>] *
cd [<volume>:/<path>] *
```

* Hidden

Server Technology PRO CLI Commands

Parameters

.	displays current directory path (or no arguments)
..	changes to parent directory
path	changes directory to specified path
volume	changes directory to specified path on volume (FLASH0 RAM0)

Command Access

Admin level only

connect

Redirect current CLI session to a target port

Command syntax

connect <target_port>

Parameters

target_port target serial port for pass-through connection

Command Access

Any access level for command. For user level lower than admin,
User requires pass-through serial port access

Create commands

create group

Create a new outlet group

Command syntax

create_group <group_name>

Parameters

group_name outlet group name to create

Command Access

Admin level only

create ldapgroup

Create a new LDAP group

Command syntax

create ldapgroup <ldap_group>

Parameters

ldap_group LDAP group name to create

Command Access

Admin level only

create snmpuser

Create a new SNMPv3 user

Command syntax

```
create snmpuser <username>
```

Parameters

username SNMPv3 username to create

Command Access

Admin level only

create ups

Create a new Uninterruptable Power Supply

Command syntax

```
create ups <name> <type> <hostname>
```

Parameters

name the name of the UPS
type the type of UPS (sets several default UPS settings)
hostname the host name or IP address of the UPS

Command Access

Admin level only

create user

Create a new local user

Command syntax

```
create user <local_user> {password} {verify_pwd}
```

Parameters

local_user local user name to create
password prompted password (cannot be specified on command line)
verify_pwd prompted password verification (cannot be specified on command line)

Command Access

Admin level only

cstat

Display latest status and metrics for all cords within the system

Command syntax

cstat

Command Access

System Monitor access

date

Display ISO 8601 local date and time if SNTP is available. (see **time**)

Command syntax

date

Command Access

Any access level

Delete commands

delete groupfromldap

Delete outlet group control access from an LDAP group

Command syntax

```
delete groupfromldap <group_name>|all <ldap_group>  
delete gfl <group_name>|all <ldap_group> *
```

* Hidden (short form)

Parameters:

all	all installed groups
group_name	outlet group name
ldap_group	LDAP group name

Command Access

Admin level only

delete groupfromtacacs

Delete outlet group control access from a TACACS+ privilege level

Command syntax

```
delete groupfromtacacs <group_name>|all <priv_level>  
delete gft <group_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all installed groups
group_name	outlet group name
priv_level	TACACS+ privilege level

Command Access

Admin level only

delete groupfromuser

Delete outlet group control access from from a local user

Command syntax

```
delete groupfromuser <group_name>|all <local_user>
delete gfu <group_name>|all <local_user> *
```

* Hidden (short form)

Parameters:

all	all installed groups
group_name	outlet group name
local_user	local username

Command Access

Admin level only

delete outletfromgroup

Delete outlet control access from an outlet group

Command syntax

```
delete outletfromgroup <outlet_id>|<outlet_name>|all <group_name>
delete ofg <outlet_id>|<outlet_name>|all <group_name> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

delete outletfromldap

Delete outlet group control access from an LDAP group

Command syntax

```
delete outletfromldap <outlet_id>|<outlet_name>|all <ldap_group>
```

```
delete ofl <outlet_id>|<outlet_name>|all <ldap_group> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
ldap_group	LDAP group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

delete outletfromtacacs

Delete outlet group control access from a TACACS+ privilege level

Command syntax

```
delete outletfromtacacs <outlet_id>|<outlet_name>|all <priv_level>
```

```
delete oft <outlet_id>|<outlet_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all installed outlets
priv_level	TACACS+ privilege level
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

delete outletfromuser

Delete outlet group control access from a local user

Command syntax

```
delete outletfromuser <outlet_id>|<outlet_name>|all <local_user>
```

```
delete ofu <outlet_id>|<outlet_name>|all <local user name> *
```

* Hidden (short form)

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Parameters:

all	all installed outlets
local_user	local username
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Admin level only

delete portfromldap

Delete pass-through serial port connection access from an LDAP group

Command syntax

```
delete portfromldap <port_id>|<port_name>|all <ldap_group>
delete pfl <port_id>|<port_name>|all <ldap_group> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
ldap_group	LDAP group name
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)

Command Access

Admin level only

delete portfromtacacs

Delete pass-through serial port connection access from a TACACS+ privilege level

Command syntax

```
delete portfromtacacs <port_id>|<port_name>|all <priv_level>
delete pft <port_id>|<port_name>|all <priv_level> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
priv_level	TACACS+ privilege level
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)

Command Access

Admin level only

delete portfromuser

Delete pass-through serial port connection access from a local user

Command syntax

```
delete portfromuser <port_id>|<port_name>|all <local_user>
```

```
delete pfu <port_id>|<port_name>|all <local_user> *
```

* Hidden (short form)

Parameters:

all	all installed serial ports
local_user	local username
port_id	serial port ID (e.g. COMx)
port_name	serial port name (e.g. Console)

Command Access

Admin level only

dir

Display directory contents (see ls)

Command syntax

```
dir [ .|<path>|<volume>:./<path> ] *
```

* Hidden

Parameters

.	displays directory contents of the current path (default with no arguments)
volume	displays directory contents of specific volume (FLASH0 or RAM0)
path	displays directory contents of specific path

Command Access

Admin level only

exit

This hidden command has the same functionality as **logout**

List commands

list group

Display all outlets contained in an outlet group

Command syntax

```
list group <group name>
```

Parameters:

group_name outlet group name

Command Access

Any access level

list groups

display all outlet groups

Command syntax

list groups

Command Access

Any access level

list ldapgroup

Display all accessible outlet groups, outlets, and ports for a LDAP group

Command syntax

list ldapgroup <ldap_group>

Parameters:

ldap_group LDAP group name

Command Access

Admin level only

list ldapgroups

Display all LDAP groups

Command syntax

list ldapgroups

Command Access

Admin level only

list outlets

Display all outlets

Command syntax

list outlets

Command Access

Any access level

list ports

Displays all serial ports

Command syntax

list ports

Command Access

Any access level

list snmpuser

Display all accessible outlet groups, outlets, and ports for a SNMPv3 user

Command syntax

list snmpuser <username>

Parameters:

username SNMPv3 user name

Command Access

Admin level only

list snmpusers

Display all SNMPv3 users

Command syntax

list snmpusers

Command Access

Admin level only

list tacpriv

Display all accessible outlet groups, outlets, and ports for a TACACS+ privilege level

Command syntax

list tacpriv <priv_level>

Parameters:

priv_level TACACS+ privilege level

Command Access

Admin level only

list tacprivs

Display all TACACS+ privilege levels

Command syntax

list tacprivs

Command Access

Admin level only

list ups

Display configuration and status for an Uninterruptible Power Supply

Command syntax

list ups <ups_name>|all

Parameters:

all	all installed Uninterruptible Power Supplies
ups_name	UPS name

Command Access

Admin level only

list upss

Display status for all Uninterruptible Power Supplies

Command syntax

list upss

Command Access

Admin level only

list user

Display all accessible outlet groups, outlets, and ports for a local user

Command syntax

list user <local_user>

Parameters:

local_user	local user name
------------	-----------------

Command Access

Admin level only

list users

Display all local users

Command syntax

list users

Command Access

Admin level only

login

Perform system login and access verification

Command syntax

login

Command Access

Any access level

logmon

Perform real time monitoring of the system log. This runs until ESC or RETURN is pressed

Command syntax

logmon [filter]

Parameters

filter Optional log keyword filter

Command Access

Admin level only

logout

Exit current CLI session, (see **quit** and **exit**)

Command syntax

logout

Command Access

Any access level

ls

This hidden command has the same functionality as **dir**

lstat

Display latest status and metrics for all lines in the system

Command syntax

lstat

Command Access

System Monitor access

ocpstat

Display status and metrics for all over-current protectors in the system

Command syntax

ocpstat

Command Access

System Monitor access

off

Turn off specified outlet or outlet group

Command syntax

off <group_name>|<outlet_id>|<outlet_name>|all *

* Switched Products Only

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

User level and above

on

Turn on specified outlet or outlet group

Command syntax

on <group_name>|<outlet_id>|<outlet_name>|all *

* Switched Products Only

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

On-Only users or User level and above

ostat

Display status and metrics for all outlets in the system

Command syntax

```
ostat <group_name>|<outlet_id>|<outlet_name>|all
```

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

System Monitor access

password

Change password for the current local user

Command syntax

```
password {new_pwd} {verify_pwd}
```

Parameters:

new_pwd	prompted new password (cannot be specified on command line)
verify_pwd	prompted new password verification (cannot be specified on command line)

Command Access

Any access level

passwd

This hidden command has the same functionality as **password**

ping

Test host reach-ability on the IP network

Command syntax

```
ping <hostname>
```

Parameters

hostname	specifies the host to ping (0..63 characters)
----------	---

Command Access

Any access level

pstat

Display status and metrics for all phases in the system

Command syntax

pstat

Command Access

System Monitor access

quit

This hidden command has the same functionality as **logout**

reboot

Turn off specified outlet or outlet group, delay then turn it back on

Command syntax

reboot <group_name>|<outlet_id>|<outlet_name>|all *

* Switched Products Only

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Reboot-Only users or User level and above

Remove commands**remove group**

Remove an outlet group from the system

Command syntax

remove_group <group_name>

Parameters

group_name outlet group name to create

Command Access

Admin level only

remove ldapgroup

Remove an LDAP group from the system

Command syntax

remove ldapgroup <ldap_group>

Parameters

ldap_group LDAP group name to create

Command Access

Admin level only

remove snmpuser

Remove a SNMPv3 user

Command syntax

remove snmpuser <username>

Parameters

username SNMPv3 user name

Command Access

Admin level only

remove ups

Remove an Uninterruptible Power Supply (UPS) from the system

Command syntax

remove group <ups_name>

Parameters

ups_name Uninterruptible Power Supply name

Command Access

Admin level only

remove user

Remove a local user from the system

Command syntax

remove user <local_user>

Parameters

ups_name local user name

Command Access

Admin level only

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restart

Restart the system

Command syntax

```
restart factkeepnet|ftpload|newx509cert|newsshkeys|normal  
restart factory [sanitize*]
```

* Hidden

Parameters

factkeepnet	removes all system configurations except network configuration
factory	removes all system configurations and restores factory defaults
factory sanitize	destroys all user and system configuration data as per NIST SP 800-88 Rev. 1, Section 2.5. Only sterile boot loader will remain. *
ftpload	performs a system update through an FTP load
newx509cert	creates a new self-signed SSL X509 certificate
newsshkeys	create a new set of public and private SSH keys
normal	perform normal system restart (default) **

* Hidden

** No parameter performs a normal system restart

Command Access

Admin level only, No access in Demo mode

rm

Delete a file

Command syntax

```
rm [volume:/>[<path>/]<filename> *
```

* Hidden

Parameters

filename	name of the file to delete
path	optional working file path
volume	optional working volume (FLASH0 or RAM0)

Command Access

Admin level only

senstat

Display status and metrics for all sensors within the system

Command syntax

Server Technology PRO CLI Commands

senstat

Command Access

System Monitor access

Set commands

set access

Set user access configuration

Command syntax

```
set access button|startupstick disabled|enabled
set access clitimeout|webloglen|webtimeout <value>
set access downgrade disabled|enabled|once
set access localadmin|strongpw optional|required
set access logorder newest|oldest
set access method localonly|ldaponly|ldaplocal|radiusonly|radiuslocal|tacacsonly|tacacslocal
set access prompt <prompt string>
```

Parameters

button	sets if the configuration reset button can reset the system configuration. setting disabled forces localadmin to be required.
clitimeout	sets the CLI session idle time before automatic logout (1 to 1440 min)
downgrade	sets the ability to downgrade a pdu
localadmin	sets if all local administrator account can be removed. setting optional forces configuration reset button to be enabled.
logorder	sets the default order of the system log when displayed
method	sets the allowed access methods for users
prompt	sets the system CLI prompt, blank uses system default (0 to 32 characters)
startupstick	sets permission for a startup stick to set system configurations
strongpw	sets if strong passwords are required for local users
webloglen	sets the number of log entries per page when viewing the log on the WEB (10 to 250)
webtimeout	sets the WEB session idle time before automatic logout (1 to 1440 min)

Sub-Parameters

localonly	local authentication only
ldaponly	authenticate using the configured LDAP servers only
ldaplocal	authenticate using the configured LDAP servers, if no LDAP match then authenticate locally.
radiusonly	authenticate using the configured Radius servers only
radiuslocal	authenticate using the configured Radius servers, if no Radius match then authenticate locally.
tacacsonly	authentication using the configured TACACS servers only

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tacacslocal authentication using the configured TACACS+ servers, if no TACACS+ match then authenticate locally.

Command Access

Admin level only

set banner

Set the system banner displayed during user authentication in a CLI session. The banner accepts printable ASCII characters plus CRLF. Use CTL-Z to complete banner input

Command syntax

set banner <banner text>

Parameters

banner text for system banner (0..2070 characters)

Command Access

Admin level only, No access in Demo mode

set bluetooth (removed)

This legacy command is no longer available, removed in 8.0v.

set branch

Set branch configuration

Command syntax

```
set branch email|snmpt disabled|enabled <branch_id>|<branch_name>|all
set branch load alarmhi|alarmlo|warnhi|warnlo <branch_id>|<branch_name>|all <value>
set branch load hyst <value>
```

Parameters

email	email notifications for branch events
hyst	load hysteresis in between event state and recovery
load	branch current thresholds (shown if metric available)
snmpt	SNMP trap notifications for branch events

Sub-Parameters

all	all branches
alarmhi	set load high alarm value in Amps
alarmlo	set load low alarm value in Amps
branch_id	branch ID (e.g. AA1)
branch_name	branch name (e.g. AA:BR1)
value	threshold or hysteresis value
warnhi	set load high warning value in Amps
warnlo	set load low warning value in Amps

Server Technology PRO CLI Commands

Limits

load load alarm/warning values between 0A and max current (see **show branches**)
load balance hysteresis value is between 0 and 10A (def 1 A)

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show branches**)

Command Access

Admin level only

set cord

Set cord configuration

Command syntax

```
set cord email|snmpt disabled|enabled <cord_id>|<cord_name>|all
set cord loadmax <cord_id>|<cord_name>|all <value>
set cord name <cord_id>|<cord_name> <new_cord_name>
set cord nompf|nomvolts <cord_id>|<cord_name>|all <value> ***
set cord outofbal**|pf*|va|watts hyst <value>
set cord outofbal alarmhi|warnhi <cord_id>|<cord_name>|all <value> **
set cord pf alarmlo|warnlo <cord_id>|<cord_name>|all <value> *
set cord va|watts alarmhi|alarmlo|warnhi|warnlo <cord_id>|<cord_name>|all <value>
```

Parameters

email	email notifications for cord events
hyst	hysteresis between event state and recovery
loadmax	maximum current load for a cord (0 to max factory current, see show cords)
name	the name for a cord (0 to 32 characters)
nompf	the nominal power factor for a cord (0.00 to 1.00) ***
nomvolts	the nominal voltage for a cord (0 to max factory voltage, see show cords) ***
outofbal	out-of-balance, percent power different between phases of a cord **
pf	power factor thresholds (shown if metric available) *
snmpt	SNMP trap notifications for cord events
va	Apparent power thresholds (shown if metric available)
watts	Active power thresholds (shown if metric available)

Sub-Parameters

all	all cords
alarmhi	set load high alarm value
alarmlo	set load low alarm value
cord_id	cord ID (e.g. AA1)
cord_name	cord name (0 to 32 characters, e.g. Primary_Cord_A)
value	load, threshold or hysteresis value
warnhi	set load high warning value
warnlo	set load low warning value

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Limits

outofbal	out of balance high alarm/warning values between 0% to 200% ** out of balance hysteresis value is between 0% and 10% (def 2%) **
pf	power factor low alarm/warning values between 0.00 and 1.00 * power factor hysteresis value is between 0.00 and 0.10 (def 0.02) *
va	apparent power alarm/warning values between 0VA and max power (see cstat) apparent power hysteresis value is between 0 VA and 1000 VA (def 100 VA)
watt	apparent power alarm/warning values between 0W and max power (see cstat) apparent power hysteresis value is between 0 W and 1000 W (def 100 W)

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show cords**)

- * AC products only
- ** 3-phase products only
- *** Legacy TRMS products only

Command Access

Admin level only

set dhcp

Set DHCP configuration

Command syntax

```
set bootdelay|dhcp|fqdn|staticfallback disabled|enabled
set dhcp fqdn name <name>
```

Parameters

dhcp	set network to use DHCP (enabled) or static address (disabled)
fqdn	fully qualified domain name
staticfallback	set to fall back to static IP address if DHCP fails
bootdelay	set to delay system boot by 100 seconds

Sub-Parameters

name FQDN name (0 to 63 characters)

Command Access

Admin level only, No access in Demo mode

set dns

Set DNS (Domain Name System) server configuration

Command syntax

```
set dns primary|secondary <ipv4_addr>/<ipv6_addr>
```

Parameters

primary sets the primary DNS server

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secondary sets the secondary DNS server

Sub-Parameters

ipv4_addr IPv4 DNS server address (0 to 15 characters)
ipv6_addr IPv6 DNS server address (0 to 46 characters)

Command Access

Admin level only, No access in Demo mode

set dns1

set dns2

These hidden legacy commands have the same functionality as **set dns primary** and **set dns secondary**

set email

Set email configuration

Command syntax

```
set email disabled|enabled|test|usesubjloc|usesubjdef
set email auth|config|event|trendfiles disabled|enabled
set email fromaddr <email_addr>
set email power disabled|enabled *
set email smtp authtype any|crammd5|digestmd5|login|plain|none
set email smtp host <host_name>
set email smtp password <pass_word>
set email smtp port <port>
set email smtp usefromaddr|useusername
set email smtp username <user_name>
set email toaddr1|toaddr2 <email_addr>
```

Parameters

auth	sets to use email authentication
config	sets if configuration change log messages are relayed by email
event	sets if event log messages are relayed by email
fromaddr	sets the email address the messages are relayed from
power	set if power log messages are relayed by email *
authtype	sets the type of authentication to use when logging into the relay SMTP server
host	sets the host where the relays smtp server is located
password	sets the password for logging into the relay smtp server
port	sets the port number for the relay smtp server
toaddr1	sets the first address to send email messages to
toaddr2	sets the second address to send email messages to
trendfiles	sets the preference to have new trending report files sent out daily to both toaddr addresses at midnight.
usefromaddr	sets to log in to the relay smtp server using the from address
username	sets the username for logging into the relay smtp server

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test	tests the email settings for logging into the relay smtp server, and sends a test email if successful.
usesubloc	use the location string as the subject of the relayed emails
usesubjdef	use the default subject as the subject of the relayed emails (sentry@<macoui>)

Sub-Parameters

email_addr	email address in the form of name@registered.domain (0-48 characters)
host	email host name (0 to 63 characters)
port	email port (1 to 65535, def. 25)
pass_word	email login password (0 to 32 characters)
user_name	email user name (0 to 32 characters)

Authentication Methods

any	use any of the below authentication methods
crammd5	only use cram md5 for authentication
digestmd5	only use digest md5 for authentication
login	only use login authentication
plain	only use plain authentication
none	only use no authentication

* Switched products only

Command Access

Admin level only, No access in Demo mode

set energywise (removed)

This legacy command is no longer available, removed in 8.0v.

set feature

Unlock system feature key

Command syntax

set feature <feature key>

Parameters

feature key key to unlock system features [XXXX-XXXX-XXXX-XXXX] (X = [0..9] or [A..Z])

Command Access

Admin level only

set ftp

Set FTP configuration

Command syntax

set ftp autoupdate disabled|enabled

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```
set ftp autoupdate day [sunday..saturday | everyday]
set ftp autoupdate hour [1am..12am | 1pm..12pm]
set ftp directory <path_name>
set ftp filename <file_name>
set ftp host <host_name>
set ftp password <pass_word>
set ftp server disabled|enabled
set ftp test [full]
set ftp username <user_name>
```

Parameters

autoupdate	sets to use automatic system firmware updates
directory	sets the directory for the remote FTP update server
filename	sets the file name for the remote FTP update server
host	sets the host name of the remote FTP update server
password	sets the password for logging into the remote FTP update server
server	enables or disables system FTP server for FTP client updates
test	tests current FTP settings
username	sets the user name for logging into the remote FTP update server

Sub-Parameters

day	sets the day of the week to automatically update system firmware (sunday to saturday, or everyday)
file_name	FTP file name (0 to 32 characters)
full	performs a full firmware image test in addition to a ftp settings test
hour	sets the hour of the day to automatically update system firmware (1am to 12am, 1pm to 12p)
path_name	FTP directory name (0 to 64 characters)
host_name	FTP host name (0 to 63 characters)
pass_word	FTP login password (0 to 32 characters)
user_name	FTP user name (0 to 32 characters)

Command Access

Admin level only, No access in Demo mode

set gateway

This hidden legacy command is the same as **set ipv4 gateway**

set http

Set HTTP configuration

Command syntax

```
set http disabled|enabled
set http port <port>
```

Parameters

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port sets the port for http connections (1 to 65535, def. 80)

Command Access

Admin level only, No access in Demo mode

set https

Set HTTPS/SSL configuration

Command syntax

```
set https disabled|enabled
set https port <port>
set https cacert|svrcert disabled|enabled|remove
set https svrpass <passphrase>
set https usercert disabled|enabled|remove *
set https userpass <passphrase> *
```

Parameters

cacert	set to use the uploaded CA certificate or not
port	sets the port for https connections (1 to 65535, def. 443)
svrcert,	
usercert *	sets the uploaded server certificates in favor of the self-signed identity certificate.
svrpass,	
userpass *	sets the pass phrase for the uploaded server certificate keys

Sub-Parameters

disabled	disable uploaded CA certificate or server cert/ key (use default identity)
enabled	enable uploaded CA certificate or server cert/ key
remove	remove uploaded CA certificate or server cert/ key
passphrase	sets the pass phrase an uploaded certificate key (0 to 63 characters)

* Hidden (legacy)

Command Access

Admin level only, No access in Demo mode

set ipaddress

This hidden legacy command is the same as **set ipv4 address**

set ipv4

Set IPv4 configuration

Command syntax

```
set ipv4 address <ipv4 address>
set ipv4 gateway <ipv4 address>
```

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```
set ipv4 subnet <ipv4 address>
```

Parameters

ipv4 address IPv4 address in decimal (XXX.XXX.XXX.XXX where XXX is 0 to 255)

Command Access

Admin level only, No access in Demo mode

set ipv6

Set IPv6 configuration

Command syntax

```
set ipv6 address <ipv6 address>
set ipv6 gateway <ipv6 address>
set ipv6 prefix <ipv6 prefix>
```

Parameters

ipv6 address IPv6 address in hex (XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX:XXXX where XXXX is 0000 to hex FFFF)
ipv6 prefix IPv6 CIDR prefix in slash decimal format (/XX where XX is 0 to 64)

Command Access

Admin level only, No access in Demo mode

set ldap

Set LDAP configuration

Command syntax

```
set ldap bind simple|tls|md5
set ldap binddn <bind_dn>
set ldap bindpw <bind_pwd>
set ldap groupattr <grp_attr>
set ldap groupsearch basedn <base_dn>
set ldap groupsearch disabled|enabled
set ldap groupsearch useattr <user_attr>
set ldap port <port>
set ldap primary <host_name>
set ldap secondary <host_name>
set ldap userbasedn <base_dn>
set ldap userfilter <filter>
```

Parameters

bind sets the bind request password type
binddn sets the user account fully-qualified distinguished name (DN) for binds
bindpw sets the user account password for binds
groupattr sets the user class distinguished name (DN) or group names a user is a

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	member of.
groupsearch	sets the group membership attribute name, group search base distinguished name (DN) and group user-membership attributes for searching user names in its list of group memberships
port	sets the port number for the LDAP server (1 to 65535, def. 389)
primary	the first LDAP server
secondary	the second LDAP server
userbasedn	sets the base distinguished name (DN) for the username search at login
userfilter	set the filter used for the username search at login

Sub-Parameters

base_dn	user or group search base distinguished name (0 to 100 characters)
bind_dn	user account bind fully-qualified distinguished name (0-124 characters)
bind_pwd	user account bind password (0-32 characters)
filter	user search filter (0 to 100 characters)
grp_attr	group membership attribute name (0-30 characters)
host_name	LDAP server host name (0 to 63 characters)
port	LDAP server connection port (1 to 65535, def. 389)
user_attr	group user-membership attribute (0 to 61 characters)

Bind Types

md5	use md5 bind
simple	use simple bind
tls	use bind with tls

Command Access

Admin level only, No access in Demo mode

set ldapgroup

Set LDAP group access configuration

Command syntax

```
set ldapgroup access [admin | admn | ononly | poweruser | rebootonly | user | viewonly]
                    <groupname>
set ldapgroup sysmon [disabled | enabled] <groupname>
```

Parameters

access	sets the access type of an LDAP group (ononly, rebootonly, and viewonly are available on Switched Products Only)
sysmon	sets system monitor access for an LDAP group

Sub-Parameters

groupname	the name of the LDAP group to change access rights for (0..32 characters)
-----------	---

Command Access

Admin level only

set line

Set line configuration

Command syntax

```
set line email|snmpt disabled|enabled <line_id>|<line_name>|all
set line load alarmhi|alarmlo|warnhi|warnlo] <line_id>|<line_name>|all <value>
set line load hyst <value>
```

Parameters

email	Email notifications for line events
hyst	hysteresis between event state and recovery
load	line current thresholds (shown if metric available)
snmpt	SNMP trap notifications for line events

Sub-Parameters

all	all lines
alarmhi	set load high alarm value in Amps
alarmlo	set load low alarm value in Amps
line_id	line ID (e.g. AA1)
line_name	line name (e.g. AA:L)
value	threshold or hysteresis load value in Amps
warnhi	set load high warning value in Amps
warnlo	set load low warning value in Amps

Limits

load	load alarm/warning values between 0A and max current (see show lines) load balance hysteresis value is between 0 and 10A (def 1 A)
------	---

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show lines**)

Command Access

Admin level only

set lldp

Set Link Layer Discovery Protocol (LLDP) configuration

Command syntax

```
set lldp enabled|disabled
set lldp txinterval <tx interval>
```

Parameters

tx interval	sets the LLDP transmit interval in seconds [5 to 32768, default 30]
-------------	---

Command Access

Server Technology PRO CLI Commands

Admin level only

set loadshed

Set load shedding configuration

Command syntax

```
set loadshed branch|line|sensor|ups disabled|enabled
set loadshed sensor contact|humid|temp|water recoveryoff|recoveryon
    <sensor_id>|<sensor_name>|all
set loadshed ups all|any <line_id>|<line_name>|all
set loadshed ups recoveryoff|recoveryon
set loadshed ups recoverdelay|sheddelay <delay>
```

Parameters

branch	sets branch shedding events
line	sets line shedding events
sensor	sets sensor shedding events
ups	sets ups shedding events

Sub-Parameters

all	sheds outlets only when all ups devices on an upstream line go to “on battery”
any	sheds outlets when any ups device on an upstream line goes to “on battery”
contact	contact sensor shedding events
delay	ups shed/recovery delay (0 to 10 min)
humid	relative humidity sensor shedding events
line_id	line ID (e.g. AA1)
line_name	line name (e.g. AA:L, AA:L2)
recoverdelay	delay that a ups device needs to be “on utility” before recovering outlets
recoveryoff	do not recover shed outlets when event conditions are cleared
recoveryon	automatically recover shed outlets when event conditions are cleared
sensor_id	sensor ID (e.g. A1)
sensor_name	sensor name (e.g. Temp_Sensor_A1, Humid_Sensor_A1)
sheddelay	delay that a ups device needs to be “on battery” before shedding outlets
temp	temperature sensor shedding events
water	water sensor shedding events

Command Access

Admin level only, Loadshed Feature Enabled

set location

Set the system location string

Command syntax

```
set location <location_str>
```

Parameters

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location_str text for system location (0 to 63 characters)

Command Access

Admin level only

set net

Set network mode configuration

Command syntax

```
set net disabled|ipv4only|ipv6ipv4|ipv6only
```

Parameters

disabled	disables network access to system
ipv4only	system only allows IPv4 functionality
ipv6ipv4	system allows IPv6 and IPv4 functionality
ipv6only	system only allows IPv6 functionality

Command Access

Admin level only, No access in Demo mode

set ocp

Set Over-Current Protector (OCP) configuration

Command syntax

```
set ocp email|snmpt disabled|enabled <ocp_id>|<ocp_name>|all  
set ocp loadmax <ocp_id>|<ocp_name>|all <value>
```

Parameters

email	email notifications for ocp events
loadmax	maximum current for an ocp (0 to max factory current in Amps, see show ocps)
snmpt	SNMP trap notifications for ocp events

Sub-Parameters

all	all over-current protectors
ocp_id	over-current protector ID (e.g. AA1)
ocp_name	over-current protector name (e.g. AA:BR1)
value	max load in Amps

Command Access

Admin level only

set outlet

Set outlet configuration

Command syntax

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```
set outlet branchevent|lineevent|upsevent disabled|enabled <outlet_id>|<outlet_name>|all **
set outlet chglogging disabled|enabled *
set outlet contactevent|humidevent|tempevent|waterevent disabled|enabled
    <outlet_id>|<outlet_name>|all <sensor_id>|<sensor_name> *
set outlet control disabled|enabled ****
set outlet email|snmpt disabled|enabled <outlet_id>|<outlet_name>|all
set outlet extondelay|rebootdelay|seqdelay****|seqinterval <outlet_id>|<outlet_name>|all
    <delay> *
set outlet load|watts alarmhi|alarmlo|warnhi|warnlo <outlet_id>|<outlet_name>|all <value>
set outlet load|pf***|watts hyst <value>
set outlet lock disabled|enabled <outlet_id>|<outlet_name>|all *
set outlet name <outlet_id>|<outlet_name> <new outlet_name>
set outlet pf alarmlo|warnlo <outlet_id>|<outlet_name>|all <value> ***
set outlet shutdown delay <outlet_id>|<outlet_name>|all <delay> *
set outlet sensoraction off|on **
set outlet socketadapt none|c13|c19 <outlet_id>|<outlet_name>|all *
set outlet wakeup on|off|last <outlet_id>|<outlet_name>|all *
```

Parameters

branchevent	set branch high current alarm shedding events for an outlet **
chglogging	set logging for system outlet state changes *
contactevent	set contact sensor alarm shedding events for an outlet **
control	set if outlet control (on/off switching) is enabled *
email	set email notifications for outlet events
extondelay	set an extra on delay when turning an outlet on (0 to 900 seconds) *
humidevent	set humidity sensor high alarm shedding events for an outlet **
hyst	hysteresis between event state and recovery
load	set current thresholds (shown if metric available)
lineevent	set line high current alarm shedding events for an outlet **
lock	set if control actions are disabled for an outlet after wakeup state is applied *
pf	set power factor thresholds and hysteresis (shown if metric available) ***
rebootdelay	set an extra on delay when rebooting an outlet (5 to 600 seconds) *
sensoraction	set outlet control action for sensor shedding events **
seqdelay	see seqinterval ****
seqinterval	set the delay between turning on outlets (0 to 15 seconds) *
shutdown	set pending outlet off notification to outlet host before changing state (1 to 15 seconds delay) *
socketadapt	set outlet socket adapter type (none, c13 or c19)
snmpt	set SNMP trap notifications for outlet events
tempevent	set temperature sensor high alarm shedding events for an outlet **
upsevent	set if load shedding due to ups on battery events are allowed for an outlet **
wakeup	set default outlet control state after system power up *
waterevent	set water sensor alarm shedding events for an outlet **
watts	set active power thresholds (shown if metric available)

Sub-Parameters

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all	all outlets
alarmhi	set high alarm value
alarmlo	set low alarm value
delay	seqinterval rebootdelay extondelay delay *
on	set outlet to sequence on after system boot *
off	set outlet to remain off after system boot *
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (0 to 32 characters, e.g. Primary_Cord_A)
last	set outlet to match its last state prior to system boot after system boot *
sensor_id	sensor ID (e.g. A1) **
sensor_name	sensor name (e.g. Temp_Sensor_A1, Humid_Sensor_A2) **
value	threshold or hysteresis value
warnhi	set high warning value
warnlo	set low warning value

Limits

load	current alarm/warning values between 0 A and max current (see show outlets) current hysteresis value is between 0 A and 10 A (def 1 A)
pf	power factor low alarm/warning values between 0.00 and 1.00 *** power factor hysteresis value is between 0.00 and 0.10 (def 0.02) ***
watts	apparent power alarm/warning values between 0W and max capacity (see ostat) apparent power hysteresis value is between 0 W and 1000 W (def. 10 W)

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show outlets**)

- * Switched products only
- ** Loadshed feature unlocked
- *** AC Products Only
- **** Hidden command

Command Access

Admin level only

set phase

Sets phase configuration

Command syntax

```
set phase email|snmpt disabled|enabled phase_id|phase_name|all
set phase pf alarmlo|warnlo phase_id|phase_name|all <value>
set phase pf*|volts hyst <value>
set phase volts alarmhi|alarmlo|warnhi|warnlo phase_id|phase_name|all <value>
```

Parameters

email	set email notifications for cord events
hyst	set hysteresis between event state and recovery
pf	set power factor thresholds (shown if metric available) *

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snmpt set SNMP trap notifications for cord events
volts set voltage thresholds (shown if metric available)

Sub-Parameters

all all phases
alarmhi set high alarm value
alarmlo set low alarm value
phase_id phase ID (e.g. AA1)
phase_name phase name (e.g. AA:L-L/N)
value threshold or hysteresis value
warnhi set high warning value
warnlo set low warning value

Limits

pf power factor low alarm/warning values between 0.00 and 1.00 *
power factor hysteresis value is between 0.00 and 0.10 (def 0.02)
volts voltage alarm/warning values (varies). Min/max range is shown using the
set cord nomvolts all command (press **ESC** to abort).
Voltage hysteresis value is between 0.0 V and 20.0 V (def 2.0 V)

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show phases**)

* AC products only

Command Access

Admin level only

set port

Set serial port configuration

Command syntax

```
set port baud|speed 1200|2400|4800|9600|19200|38400|57600|115200  
    <port_id>|port_name>  
set port dsrcheck disabled|enabled <port_id>|port_name>  
set port rftag disabled|enabled  
set port timeout <port_id>|port_name> <timeout>
```

Parameters

baud|speed set the number of symbols per second of the serial port
dsrcheck set to use DSR before making a serial connection
rftag enables or disables RFTag

Sub-Parameters

port_id serial port ID (e.g. COM1)
port_name serial port name (e.g. Console)
timeout set the connection idle timeout for pass through connections to this port

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(0 to 60 minutes, def. 5 minutes)

Command Access

Admin level only

set radius

Set Radius configuration

Command syntax

```
set radius primary|secondary port <port>
set radius primary|secondary msgauth optional|required
set radius primary|secondary retries <retries>
set radius primary|secondary host <host_name>
set radius primary|secondary secret <shared_secret>
set radius primary|secondary timeout <timeout>
```

Parameters

primary	first Radius server (0-63 characters)
secondary	second Radius server (0-63 characters)

Sub-Parameters

port	set Radius server connection port (1 to 65535, def. 1812)
msgauth	set Radius server message authentication security (optional or required)
retries	set Radius server maximum retry count (0 to 10, def. 2)
host	set Radius server host_name (0 to 63 characters)
secret	set Radius server shared_secret value (0 to 48 characters)
timeout	set Radius server connection timeout (1 to 30 seconds, def. 5 seconds)

Command Access

Admin level only, No access in Demo mode

set sensor

Set sensor configuration

Command syntax

```
set sensor adc|fan|humid|temp hyst <value>
set sensor adc|fan|humid|temp alarmhi|alarmlo|warnhi|warnlo
    <sensor_id>|<sensor_name>|all <value>
set sensor adc|contact|fan|humid|temp|water email|snmpt disabled|enabled
    <sensor_id>|<sensor_name>|all
set sensor adc|contact|fan|humid|temp|water name
    <sensor_id>|<sensor_name> <new sensor_name>
```

Parameters

adc	set analog to digital converter sensor configuration and thresholds
-----	---

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contact	set contact closure sensor configuration
fan	set fan tachometer sensor configuration and thresholds
humid	set humidity sensor configuration and thresholds
temp	set temperature sensor configuration and thresholds
water	set water sensor configuration

Sub-Parameters

all	all sensors
alarmhi	set high alarm value
alarmlo	set alarm value
email	set email notifications for sensor events
hyst	set hysteresis between event state and recovery
name	set sensor name
sensor_id	sensor ID (e.g. A1)
sensor_name	sensor name (e.g. Temp_Sensor_A1)
snmpt	set SNMP trap notifications for sensor events
value	sensor threshold or hysteresis value
warnhi	set high warning value
warnlo	set low warning value

Limits

adc	analog to digital converter alarm/warning values between 0 and 255 analog to digital converter hysteresis value is between 0 and 20 (def 1)
humid	relative humidity sensor alarm/warning values between 0 %RH and 100 %RH relative humidity sensor hysteresis value is between 0 %RH and 20 %RH (def 2 %RH)
temp	temperature sensor alarm/warning values between -40 °C and 123 °C for Celsius. This ranges between -40 °F and 253 °F for Fahrenheit temperature sensor hysteresis value is between 0 °C and 30 °C for Celsius (def. 10 °C) . This ranges between 0 °F and 54 °F for Fahrenheit (def. 20 °F)

min <= alarmlo <= warnlo <= warnhi <= alarmhi <= max (see **show sensors**)

Command Access

Admin level only

set snmp

Set SNMP configuration

Command syntax

```
set snmp iprestrict none|trapdests
set snmp syscontact <syscontact>
set snmp syslocation <syslocation>
set snmp sysname <sysname>
set snmp trap dest1|dest2 <hostname>
set snmp trap format v1|v2c|v3
```

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```
set snmp trap repeat <repeat time>
set snmp v2|v3 disabled|enabled
set snmp v2 getcomm|setcomm|trapcomm <community>
set snmp v3 roauth|rwauth none|md5|md5des|md5aes|sha|shades|shaaes *
set snmp v3 roauthpass|rwauthpass|roprivpass|rwprivpass {password} {verify password} *
set snmp v3 rousername|rwusername|trapusername <username> *
```

* Hidden command

Parameters

iprestrict	set to only allow to trap destinations to have SNMP access
syscontact	set system contact string (0..63 characters)
syslocation	set system location string (0..80 characters)
sysname	set system name string (0..63 characters)
trap	set trap notification options
v2	set SNMPv2 options
v3	set SNMPv3 options

Sub-Parameters

dest1 / dest2	set first / second SNMP trap destinations (0 to 63 characters)
format	set SNMP protocol version format
getcomm	set SNMP read only community string (0 to 24 characters)
repeat	sets SNMP trap repeat time for object in an event condition (1 to 65535 seconds)
roauth	set SNMPV3 read only user authentication and privacy *
rwauth	set SNMPV3 read/write user authentication and privacy *
roauthpass	set SNMPv3 read only user authentication password (0 to 39 characters) *
rwauthpass	set SNMPv3 read/write user authentication password (0 to 39 characters) *
roprivpass	set SNMPv3 read only privacy password (0 to 31 characters) *
rwprivpass	set SNMPv3 read/write privacy password (0 to 31 characters) *
rousername	set SNMPv3 read only username (0 to 31 characters) *
rwusername	set SNMPv3 read/write username (0 to 31 characters) *
setcomm	set SNMP read/write community string (0 to 24 characters)
trapcomm	set SNMPv2 trap community string (0 to 32 characters)
trapusername	set SNMPv3 trap username (0 to 31 characters)

* Hidden Command

SNMPv3 authentication sub parameters

none	no authentication and no privacy (authpass and privpass unused)
md5	MD5 authentication and no privacy (privpass unused)
md5des	MD5 authentication and DES privacy
md5aes	MD5 authentication and AES privacy
sha	SHA authentication and no privacy (privpass unused)
shades	SHA authentication and DES privacy
shaaes	SHA authentication and AES privacy

Command Access

Admin level only, No access in Demo mode

set snmpuser

Set SNMPv3 user configuration

Command syntax

```
set snmpuser access <username> disabled|readonly|writeonly|readwrite
set snmpuser authmode <username> none|md5|md5des|md5des|sha|shades|shaaes
set snmpuser authpass|privpass <username> {password} {verify password}
```

Parameters

access	set access mode for an SNMPv3 user
authmode	set authentication type for an SNMPv3 user
authpass	set authentication password for an SNMPv3 user (0 to 39 characters)
privpass	set privacy password for an SNMPv3 user (0 to 31 characters)

Sub-Parameters

disabled	set no SNMPv3 user access
readonly	set read only SNMPv3 user access
readwrite	set read/write SNMPv3 user access
writeonly	set write only SNMPv3 user access
none	set no authentication and no privacy (authpass and privpass unused)
md5	set MD5 authentication and no privacy (privpass unused)
md5des	set MD5 authentication and DES privacy
md5aes	set MD5 authentication and AES privacy
sha	set SHA authentication and no privacy (privpass unused)
shades	set SHA authentication and DES privacy
shaaes	set SHA authentication and AES privacy
password	SNMPv3 user password
username	SNMPv3 user name

Command Access

Admin level only, No access in Demo mode

set smtp

This hidden legacy command is the same as **set email**

set sntp

This command sets SNTP configurations

Command syntax

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```
set sntp dst disabled|enabled
set sntp dst end|start <tz string>
set sntp gmtoffset <offset>
set sntp primary|secondary <hostname>
set sntp refresh
```

Parameters

dst	sets to automatically adjust for daylight saving time
gmtoffset	sets the adjustment from Coordinated Universal Time (UTC)
primary	sets the first SNTP server (0 to 63 characters)
refresh	manually re-sync time using the current SNTP server settings
secondary	sets the second SNTP server (0 to 63 characters)

Sub-Parameters

end	date to end Daylight Saving Time (DST date/time format, see notes)
offset	GMT offset amount in format hours:minutes (-12 to 14 hours, 0 to 59 minutes):
start	date to start Daylight Saving Time (DST date/time format, see notes)

Notes: DST date/time format (time zone string) is M.w.d/h:m:s where
M = month from January to December (1 to 12)
w = week number (1 to 4) or the last week (5)
d = day of week from Sunday to Saturday (0 to 6)
h = hour (0 to 23)
m = minute (0 to 59)
s = second (0 to 59)

Command Access

Admin level only, No access in Demo mode

set spm (removed)

This legacy command is no longer available, removed in 8.0v.

set ssh

Set SSH configuration

Command syntax

```
set ssh disabled|enabled
set ssh port <port>
set ssh authmethod all|kbint|password
```

Parameters

port	sets port for SSH connections (1 to 65535, def. 22)
authmethod	sets authentication method for SSH connections

Sub-Parameters

all	allow any authentication method
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kbint	allow only keyboard-interactive authentication
password	allow only password authentication

Command Access

Admin level only, No access in Demo Mode

set ssl

This hidden legacy command is the same as **set https**

set subnet

This hidden legacy command is the same as **set ipv4 subnet**

set syslog

Set syslog configuration

Command syntax

```
set syslog debugmsg disabled|enabled
set syslog host1|host2 <hostname>
set syslog hostsrc sysname|fqdn
set syslog port <port>
set syslog protocol rfc3164|rfc5424
```

Parameters

debugmsg	include debug log messages in addition to system log messages
host1	set first syslog server (0 to 63 characters)
host2	set second syslog server (0 to 63 characters)
hostsrc	set syslog response hostname source (system name or FQDN)
port	set syslog server port (1 to 65535, def. 514)
protocol	set syslog message format (rfc3164 or rfc5424)

Command Access

Admin level only, No access in Demo Mode

set tacacs

Set TACACS+ configuration

Command syntax

```
set tacacs key {key}
set tacacs port <port>
set tacacs primary|secondary <hostname>
```

Parameters

key	set authentication key for the TACACS+ servers
port	set port for the TACACS+ servers (1 to 65535, def. 49)
primary	set primary TACACS+ server (0 to 63 characters)

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secondary set secondary TACACS+ server (0 to 63 characters)

Command Access

Admin level only, No access in Demo Mode

set tacpriv

Set TACACS+ privilege level access and configuration

Command syntax

```
set tacpriv access admin|adm|ononly|poweruser|rebootonly|user|viewonly <priv level>
set tacpriv sysmon disabled|enabled <priv level>
```

Parameters

access sets the access type of a level (ononly, rebootonly, and viewonly are available on switched products only)

sysmon sets system monitor access for a level

Sub-Parameters

priv level the id of the TACACS+ privilege level to change access rights for [0..15]

Command Access

Admin level only

set telnet

Set telnet configuration

Command syntax

```
set telnet disabled|enabled
set telnet port <port>
```

Parameters

port sets port for telnet connections (1 to 65535, def. 23)

Command Access

Admin level only, No access in Demo Mode

set trend

Sets data trending configuration

Command syntax

```
set trend disabled|enabled
```

Command Access

Admin level only, No access in Demo Mode, PIPS Products Only

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set unit

Set unit configuration

Command syntax

```
set unit assettag <asset tag>
set unit clear energy <unit_id>|<unit_name>|all
set unit display auto|inverted|normal <unit_id>|<unit_name>|all
set unit disptest|email|identify|snmpt disabled|enabled <unit_id>|<unit_name>|all
set unit golden disabled|enabled **
set unit mfrdate <date> <unit_id>|<unit_name>|all **
set unit name <unit_id>|<unit_name> <new unit_name>
set unit odisporder|osequence normal|reversed <unit_id>|<unit_name>|all
set unit prodsn <unit_id>|<unit_name> <prod sn> **
set unit purge <unit_id>|<unit_name>|all ***
```

Parameters

assettag	sets a custom asset tag for a specific unit (0 to 32 characters)
clear	reset non-volatile storage
display	sets the display orientation for a unit ****
disptest	test all display segments on a particular unit. This mode lasts up to 1 hour. ****
email	email notifications for unit events
golden	sets to have the system not retain unit information **
identify	display unit ID on a specific PDU for physical identification (UA,Ub,UC,UD). This mode lasts up to 1 hour. ****
mfrdate	the manufacturing date of the unit **
name	the name of a unit (0 to 32 characters)
osequence	sets the outlet sequence order for a unit *
odisporder	sets the outlet display order for a unit (1 to N normal, N to 1 reversed)
prodsn	sets the product serial number for a unit (0 to 32 characters) **
purge	removes all stored information for a unit
snmpt	SNMP trap notifications for unit events

Sub-Parameters

auto	set automatic display orientation using internal orientation sensor
date	date in the format of YYYY-MM-DD
energy	clear accumulated energy on all inlets and outlets
inverted	set display to be upside-down ****
normal	set display to be upright **** or
reversed	set outlet sequence/display order to be 1 to N
unit_id	unit ID (e.g. A1)
unit_name	unit name (0 to 32 characters, e.g. Primary)

* Switched products only

** Factory unlocked only

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- *** Confirmation required
- **** Products with displays only

Command Access

Admin level only

set ups

Set Uninterruptible Power Supply (UPS) device configuration

Command syntax

```
set ups addline|delline <ups_name> <line_id>|<line_name>
set ups commstr <ups_name> <getcomm>
set ups host <ups_name> <hostname>
set ups oidspoll <ups_name> <oid>
set ups onbattery|onutility <ups_name> <value>
set ups port <ups_name> <port>
set ups type <ups_name> <type>
```

Parameters

addline	add UPS protected line
commstr	set UPS polled SNMP get community string
delline	remove UPS protected line
host	set UPS SNMP polled hostname (0..63 characters)
oidspoll	set the OID for obtaining the “on battery”/”on utility” value when polling this UPS by SNMP
onbattery	set UPS “on battery” OID state value (1 to 65535)
onutility	set UPS “on utility” OID state value (1 to 65535)
port	set UPS SNMP polled port number (1 to 65535, def. 161)
type	set UPS type (1 to 11). This also sets the default get community string, oidspoll, onbattery, onutility and port settings based on the UPS type.

Sub-Parameters

getcomm	SNMP get community string (0..32 characters)
line_id	line ID (e.g. AA1)
line_name	line name (e.g. AA:L)
oid	OID string in the format X.X[.X] when X is 1 to 65535
ups_name	UPS name (0 to 32 characters)

Command Access

Admin level only

set user

Set local user access rights configuration

Command syntax

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```
set user access admin|adm|ononly|poweruser|rebootonly|user|viewonly <username>
set user password <username> {password} {verify password}
set user sysmon disabled|enabled <username>
```

Parameters

access	sets the access type of a local user
password	sets the password for a local user
sysmon	sets system monitor access for a local user

Sub-Parameters

username	name of the local user (0..32 characters)
----------	---

Command Access

Admin level only

set web

Sets web configuration

Command syntax

```
set web http (see set http)
set web https (see set https)
set web svcapi enabled|disabled
set web spm (removed in 8.0v)
set web ssl (see set ssl) *
```

* Hidden command

Parameters

svcapi	enable JSON API Web Service (JAWS)
--------	------------------------------------

Command Access

Admin level only, No access in Demo Mode

set wlan (removed)

This command is no longer available, removed in 8.0w.

set ztp

Set Zero Touch Provisioning configuration.

Command syntax

```
set ztp autoupdate disabled|enabled
set ztp autoupdate day <day>
set ztp autoupdate hour <hour>
set ztp disabled|enabled|provnw|resetprov
set ztp test https|tftp
```

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set ztp testurl <url>

Parameters

autoupdate	set automatic system configuration options
provnw	manually re-provision system configuration
resetprov	clears the provisioning status for the system
test	test provisioning
testurl	set test URL used for provisioning (0 to 319 characters)

Sub-Parameters

https	test HTTPS provisioning using the current test URL
tftp	test TFTP provisioning using the current test URL
day	sets the day of the week to automatically update system configuration (sunday, monday, tuesday, wednesday, thursday, friday, saturday, everyday)
hour	sets the hour of the day to automatically update system configuration (1am to 12am and 1pm to 12pm)

Command Access

Admin level only

Show commands

show access

Displays user access configuration information

Command syntax

show access

Command Access

Admin level only

show bluetooth (removed)

This command is no longer available, removed in 8.0v.

show branches

Display branch configuration information

Command syntax

show branches

Command Access

Admin level only

show cords

Display cord configuration information

Command syntax

show cords

Command Access

Admin level only

show email

Display email configuration information

Command syntax

show email

Command Access

Admin level only

show energywise (removed)

This command is no longer available, removed in 8.0v.

show features

Display unlocked system feature information

Command syntax

show features

Command Access

Admin level only

show ftp

Display FTP configuration information

Command syntax

show ftp

Command Access

Admin level only

show ldap

Display LDAP configuration information

Command syntax

show ldap

Command Access

Admin level only

show lldp

Display Link Layer Discovery Protocol (LLDP) configuration information

Command syntax

show lldp

Command Access

Admin level only

show lines

Display line configuration information

Command syntax

show lines

Command Access

Admin level only

show loadshed

Display load shedding configuration information

Command syntax

show loadshed

Command Access

Admin level only

show log

Display the system log

Command syntax

show log *[filter]*

Parameters

filter keyword filter for log entries

Command Access

Admin level only

show network

Display network status, configuration information and services

Command syntax

show network

Command Access

Admin level only

show ocps

Display over-current protector configuration information

Command syntax

show ocps

Command Access

Admin level only

show outlets

Display outlet configuration information

Command syntax

show outlets

Command Access

Admin level only

show phases

Display phase configuration information

Command syntax

show phases

Command Access

Admin level only

show ports

Display serial port configuration information

Command syntax

show ports

Command Access

Admin level only

show radius

Display Radius authentication configuration information

Command syntax

show radius

Command Access

Admin level only

show sensors

Display sensor configuration information

Command syntax

show sensors

Command Access

Admin level only

show shutdown (redirected)

This command is hidden and redirected to "show outlets", changed in v8.1c.

show snmp

Display SNMP configuration information

Command syntax

show snmp

Command Access

Admin level only

show sntp

Display Sntp configuration information

Command syntax

show sntp

Command Access

Admin level only

show smtp

This hidden legacy command has the same functionality as **show email**

show syslog

Display the Syslog configurations

Command syntax

show syslog

Command Access

Admin level only

show system

Display system up-time, firmware version, build information, boot version, hardware revision, total active users, and location information

Command syntax

show system

Command Access

Admin level only

show tacacs

Display TACACS+ authentication configuration information

Command syntax

show tacacs

Command Access

Admin level only

show trend

Display data trending configuration information

Command syntax

show trend

Command Access

Admin level only, PIPS Products Only

show units

Display unit configuration information

Command syntax

show units

Command Access

Admin level only

show ups

Display ups configuration information

Command syntax

show ups *

* Hidden

Command Access

Admin level only

show waps (removed)

This command is no longer available, removed in 8.0w.

show wlan (removed)

This command is no longer available, removed in 8.0w

show ztp

Display zero touch provisioning configuration information

Command syntax

show ztp

Command Access

Admin level only

shutdown (removed)

This command is no longer available, removed in 8.1c.

status

Display the latest status and control state for a specified outlet or outlet group

Command syntax

status <group_name>|<outlet_id>|<outlet_name>|all *

* Switched Products Only

Parameters:

all	all installed outlets
group_name	outlet group name
outlet_id	outlet ID (e.g. AA1)
outlet_name	outlet name (e.g. Primary_Outlet_1)

Command Access

Any access level

sysstat

Display all latest system objects, status count and worse case event condition status by type.

Command syntax

sysstat

Command Access

System Monitor access

upsstat

Display the latest status and metrics for all ups devices within the system

Command syntax

upsstat

Command Access

System Monitor access

time

This hidden command is the same as **date**

uptime

Display elapsed time since the system restarted

Command syntax

uptime

Command Access

Any access level

ustat

Display the latest status and metrics for all units within the system

Command syntax

ustat

Command Access

System Monitor access

version

Display the current system firmware version

Command syntax

version

Command Access

Any access level

Document Revision Notes

- Rev 3215 -Added **date** and **time** (hidden) commands
- Rev 3213 -Removed **set outlet host** and **set outlet script** commands
-Redirected **show shutdown** (now hidden) to **show outlets**
- Rev 3060 -V8.1 PRO CLI command document review, overhaul and format changes
-Added **set ztp provnow**
-Added **set ztp testurl <url>**
-Added **set ztp test [https | tftp]**
- Rev 3015 -Limited SNMP get/set community strings to 24
- Rev 2995 -Added **set radius [primary|secondary] msgauth [optional|required]**
- Rev 2954 -Added **set unit disptest [disable | enabled]**
-Added **set unit identify [disable | enabled]**
- Rev 2919 -Added **set access downgrade [disable | enabled | once]**
- Rev 2782 -Added **restart factory sanitize**
- Rev 2780 -Removed **set wlan, show wlan, show waps**
- Rev 2707 -Removed **set spm**
- Rev 3691 -Added 'shown if metric available' comment to threshold settings
- Rev 2689 -Removed **set energywise** and **show energywise**
- Rev 2688 -Removed **set bluetooth** and **show bluetooth**
- Rev 2654 -Added **set https cacert/svrcert/usercert remove**
- Rev 2650 -Added **set sntp refresh**
- Rev 2641 -Added **set https cacert/svrcert [enable | disable]**
-Added **set https svrpass**
-Hid **set https usercert/userpass** for legacy script compatibility
- Rev 2616 -Increased **set snmp syslocation** prompted string length from 63 to 80 characters
- Rev 2613 -Added **set net ipv6only**
- Rev 2595 -Added **set snmp v3 roauth/rwauth [md5des|sha|shade|shaaes]** options
-Added **set snmpuser authmode <username> [md5des|sha|shade|shaaes]** options
- Rev 2558 -Added **set syslog hostsrc**
- Rev 2481 -Added **set lldp** and **show lldp**
- Rev 2375 -Added **uptime**
- Rev 2355 -Added **set unit clear energy**
- Rev 2031 -Added **set outlet socketadapt**
- Rev 1994 -Hid **set snmp v3 roauth/roauthpass/roprivpass/rousername/rwauth/rwauthpass/
rwprivpass/rwusername** commands
- Rev 1993 -Added **set snmpuser, create snmpuser, remove snmpuser, list snmpuser, list snmpusers**
- Rev 1960 -Added **set ztp autoupdate** and **show ztp**
- Rev 1943 -Added **set sensor fan**
- Rev 1933 -Added **set web**
- Rev 1874 -Added **set unit odisporder**
- Rev 1868 -Added **set outlet control**
-Added parameter/subparameter descriptions in **set wlan**

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- Rev 1794 - Added **set ztp resetprov**
- Rev 1791 - Added **set port rftag**
- Rev 1788 - Added **set ztp**
- Rev 1706 -Added **set unit mfrdate**
- Rev 1621 -Updated **create ups**, **remove ups**, added **list ups** and **list upss**,
-Changed set ups UPS# to **set ups <name>**, changed **show ups** to be hidden.
- Rev 1619 -Added **set access localadmin**
- Rev 1564 -Added switched products only restriction to **set outlet chglogging**
- Rev 1557 -Made **dir/ls** commands hidden
- Rev 1535 -Added no access in demo mode condition to **set wlan**
-Added PIPS products only to **set trend** and **show trend**
- Rev 1476 -Added **set cord nompf**
- Rev 1472 -Added condition to allowing **set unit display** and **set unit identify**
- Rev 1388 -Added **set outlet seqinterval**, made **set outlet seqdelay** hidden
- Rev 1335 -Added **set loadshed sensor humid** and **set outlet humidevent**
- Rev 1261 -Added **set wlan fwipaddress** and **set wlan fwsubnet**
- Rev 1249 -Added **show waps**, **show wlan**, **set access startupstick**, set wlan
- Rev 1227 -Removed **ALL** option from **set port**
- Rev 1164 -Removed **set access webdblog**, as debug logging is now always available on the web
- Rev 1111 -Added minutes to GMT offset and extended range of possible hours
-Fixed typo in **set ssh**
-Added missing **set gateway** in table of contents
-Added **set ssl** and **set subnet**
- Rev 1007 -Added **set ftp test full**
- Rev 1006 -Added settrend and how trend
- Rev 998 -Changed **host1/host2** to **primary/secondary** for LDAP and TACACS
- Rev 976 -Added **set email trendfiles**
- Rev 954 -Changed the following command access to add no access in demo mode set network