

Multi-Port Loading Utility for PSA/PSL-3000

Purpose

`psa_port_loader` is a single PowerShell PSA command to connect up to 192 2-Pair (802.3at) PSE ports to a user-specified PDs where PD class signature and PD power load are defined. The command supports PD Classes 0-4 and up to 34W per PSE port loading. 802.3at LLDP is not supported by this application so PSE's required LLDP to get Type-2 power can only be tested to Type-1 power draw limits.

Usage

1. Connect all PSE ports to PSA / PSL test ports that will be utilized
2. Open **PowerShell** **Wish**
3. Assure that all PSA / PSL test ports are in a **2-pair** (4-pair 'disabled') configuration
4. Execute the following command:

```
psa_port_loader IP_Addr_1 <allports | slots m-n | ports m,n m,n...>  
    <IP_Addr_2 <allports | slots m-n | ports m,n m,n...>> ...  
    <<c pdClass> <p pdPowerLoad> | shutoff> -precfg
```

Example – Load Up 80 PSE Ports to 24 Watts Each:

4 PSA/PSL chassis' to be utilized to load 80 PSE ports to 24 watts (*using PD Class 4*) each where the PSA/PSL chassis' are connected as follows:

PSA/PSL IP Address	Connected Test Ports
192.168.221.105	24 (<i>all slots</i>)
192.168.221.106	24 (<i>all slots</i>)
192.168.221.107	24 (<i>all slots</i>)
192.168.221.108	8 (<i>slots 1-4</i>)

Command is:

```
psa_port_loader 192.168.221.105 allports 192.168.221.106 allports  
192.168.221.107 allports 192.168.221.108 slots 1-4 c 4 p 24
```

(Enter this as one continuous line with no line feeds!)

To Remove Power Load from all 80 ports:

```
psa_port_loader 192.168.221.105 allports 192.168.221.106 allports  
192.168.221.107 allports 192.168.221.108 slots 1-4 shutoff
```

Example – Load Up 24 PSE Ports to 15.4 Watts Each:

Command is:

```
psa_port_loader 192.168.221.105 allports c 3 p 15.4
```

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Command Help

psa_port_loader -?

```
=====
psa_port_loader: IP_Addr_1 <allports | slots m-n | ports m,n m,n...>
                  <IP_Addr_2 <allports | slots m-n | ports m,n m,n...>> ...
                  <<c pdClass> <p pdPowerLoad> | shutoff> -precfg
NOTE! Command does not support Type-2 LLDP power-ups!

IP_Addr_1 ..... First PSA/PSL Chassis IP Address.
IP_Addr_2 ..... 2nd PSA/PSL Chassis IP Address.
                  Up to 8 PSA/PSL Chassis' may be specified.
allports ..... Power and load every test port in IP_Addr_n.
slots m-n ..... Power and load all ports in Slot m
                  to Slot n of IP_Addr_n.
  ports ..... Power selected list of test ports in IP_Addr_n.
    m,n ..... Test port formatted as SLOT,PORT.
                  Default is ALL PORTS in current connected PSA chassis.

pdClass ..... PD Class to emulate on all ports.
                  Range is 1, 2, 3, 4. Default is 3. Class 0 excluded.
pdPowerLoad ..... Power to draw from each PSE port in watts.
                  Range is 1 to 34W. Default is 14.3W.
                  PSA/PSL-1200's are restricted to maximum 25W.

shutoff ..... Remove power from all specified ports.

-precfg ..... Bypass Auto-Discover of PSE Alt, Polarity.
```
