

# Dell Datacenter Capacity Planner (DCCP) Version 2.0

## New Features

- **Query Component Characteristics**  
Double-left-click the individual components (rather than having to drag an entity into the rack) to query its characteristics – see Figure 1. This feature is especially useful for looking at components that are not normally rack mounted, or are mounted in the rear of the rack. For example, double click on a PDU and the DCCP will display its plug count and amperage capacity.



Figure 1 – Component Characteristics

- **Map from PDU to Systems**  
Assign plugs to sockets, and the DCCP keeps track of the amperage and plug count used. Warnings pop up if any limit has been exceeded. In Figure 2, a PowerEdge™ 1955 has been installed and is accompanied by two 24 amp PDUs.

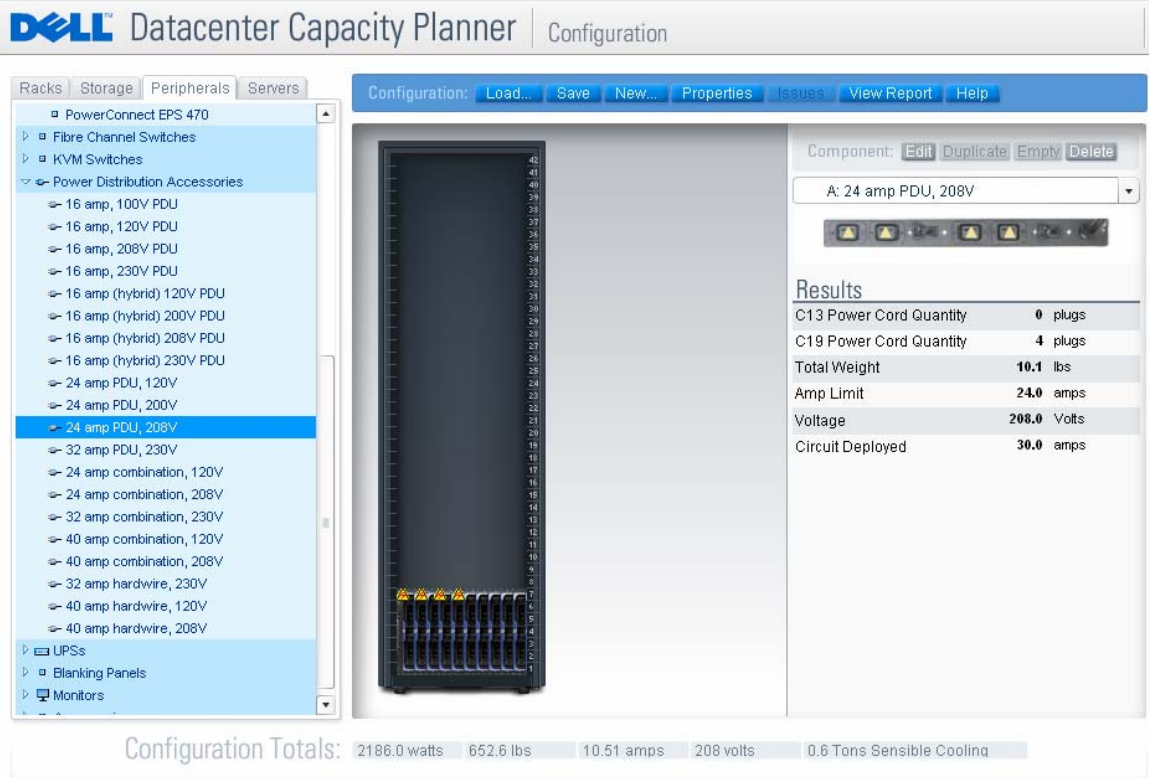


Figure 2 – PDU Installed with PowerEdge 1955

- o Clicking on the drop down menu highlighted in red (shown in Figure 3) enables one of the PDUs to be chosen as the live item for editing.
- o Clicking on the edit menu will bring up the edit box to allow servers to be assigned to each of the plugs. In Figure 4, two of the system’s plugs are assigned to one PDU, and that PDU is renamed.
- o Once you click on OK and the changes are made (see Figure 5), two plugs have disappeared from the system (the triangles), and two plugs on the PDU have been highlighted (used). This particular PDU was renamed to “Left-1” to indicate a positional nomenclature of the user’s choice. Likewise, the other PDU could be set up to accept the remaining two plugs of this server.

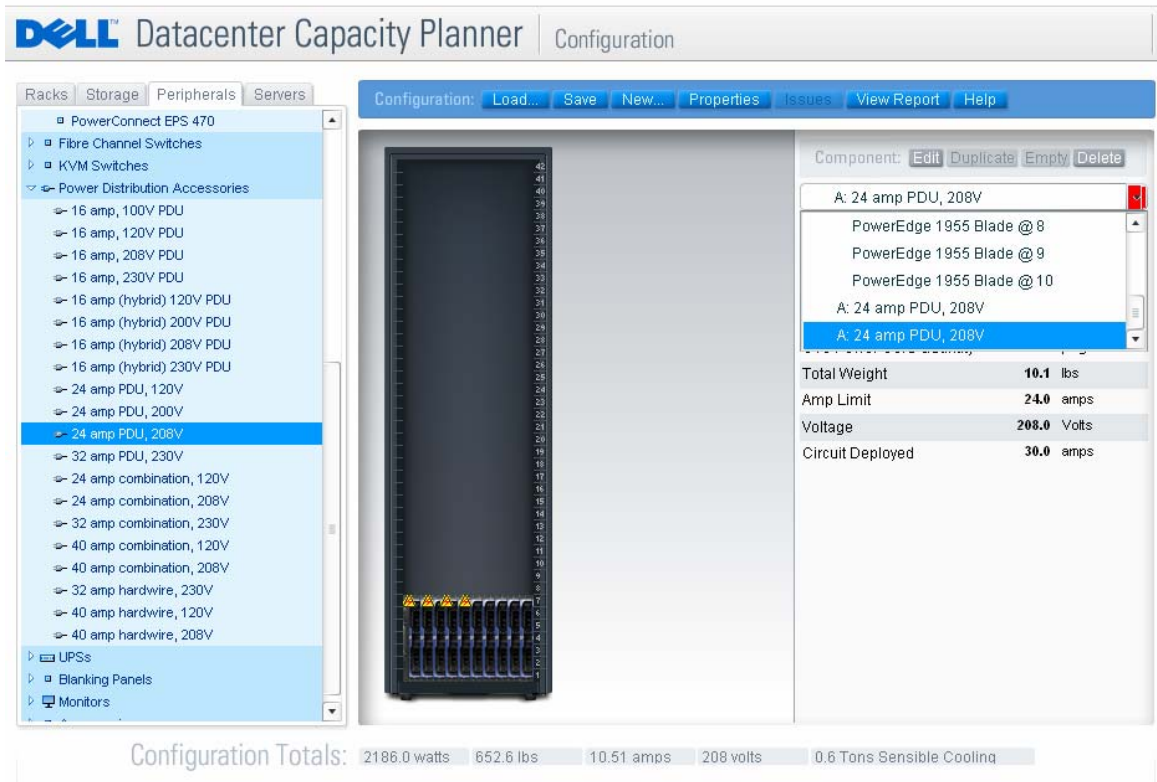


Figure 3 – Red Highlighted Drop-Down Menu

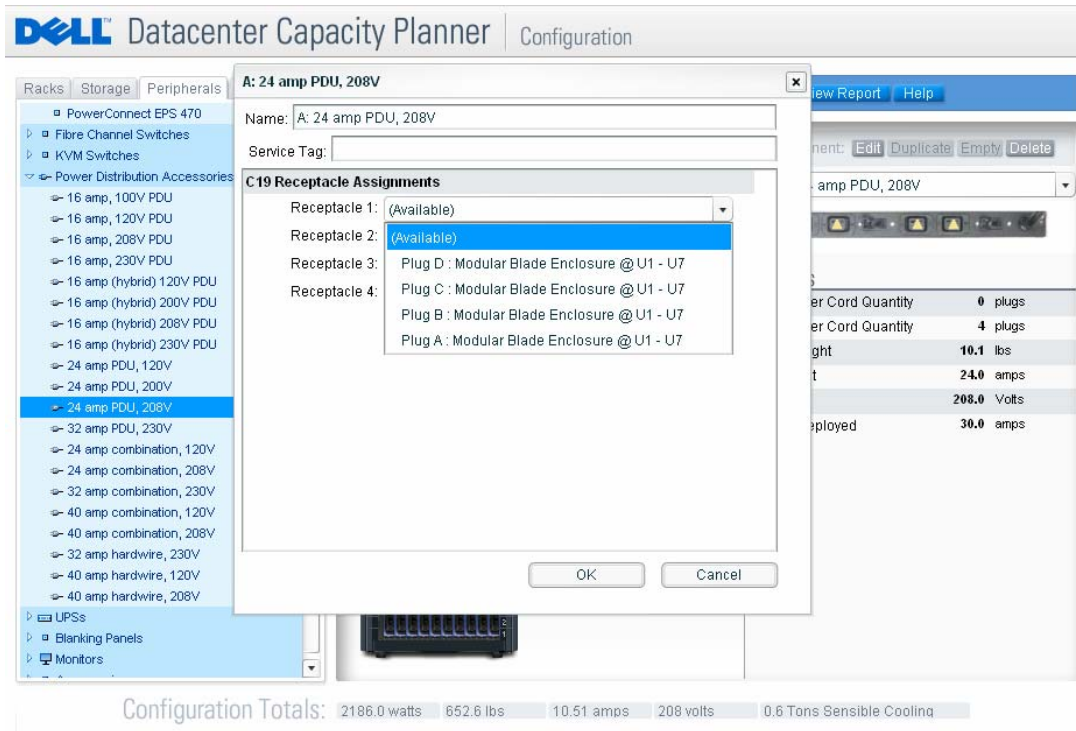


Figure 4 – Plugs Assigned to PDU

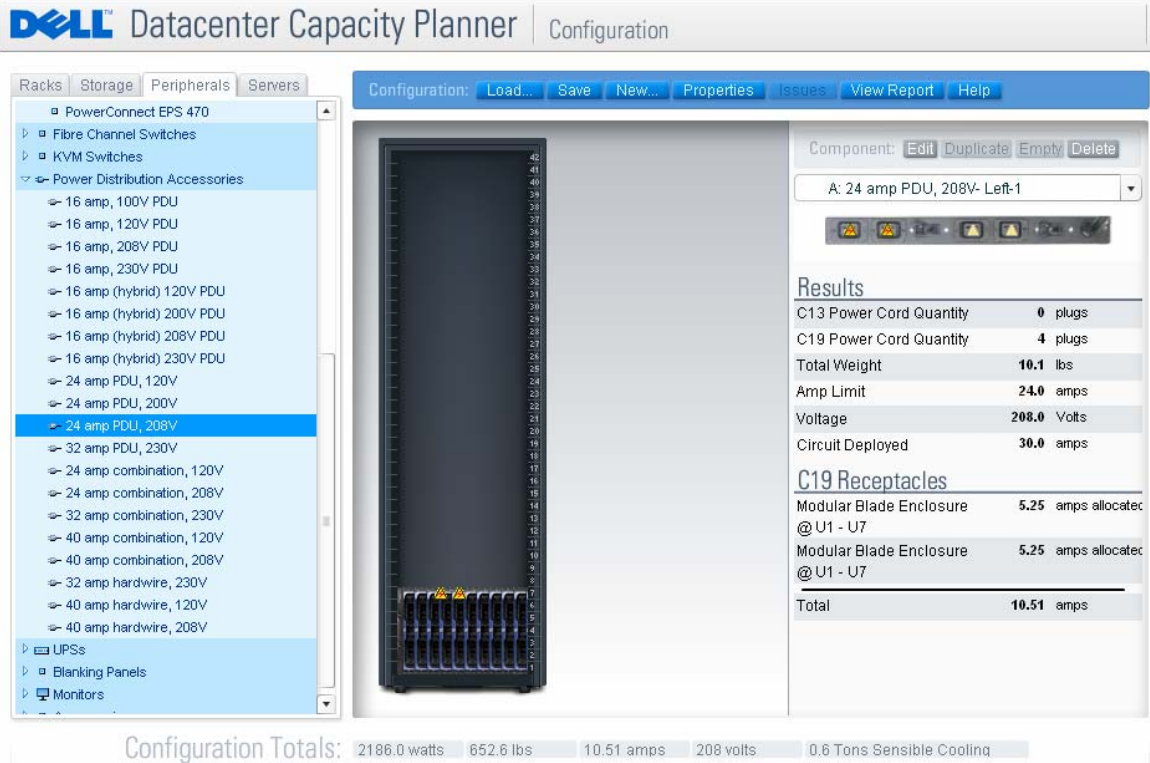


Figure 5 – Configuration with PDU Assigned to Systems

- **View Report**

The PDU information is included in the rack reports through the report entitled “Servers by PDU.” This report gives a tabular explanation of current connectivity; for the example above it shows that plugs A and B are plugged into a PDU named “Left 1.” Each socket is drawing 2.63 amps during normal operation and 5.25 during the failure of one AC feed. The other two plugs are connected to the second PDU that wasn’t renamed in this example. If two higher power blade chassis were connected to a single PDU, the PDU capacity would be surpassed giving a warning like that shown in Figure 5.

Dell Datacenter Capacity Planner - Microsoft Internet Explorer

**DELL** Datacenter Capacity Planner Configuration

Racks Storage Peripherals Servers

Configuration: Load... Save New... Properties Issues View Report Help

Component: Edit Duplicate Empty Delete

A: 24 amp PDU, 208V

Results

C13 Power Cord Quantity	0	plugs
C19 Power Cord Quantity	4	plugs
Total Weight	10.1	lbs
Unit	24.0	amps
	208.0	Volts
Deployed	30.0	amps

**PDU C19 Max Amperage Limit Exceeded for A: 24 amp PDU, 208V**

Max Amperage exceeded on C19 receptacles.

OK

Modular Blade Enclosure @ U1 - U7	7.54	amps allocated
Modular Blade Enclosure @ U1 - U7	7.54	amps allocated
Modular Blade Enclosure @ U8 - U14	7.54	amps allocated
Modular Blade Enclosure @ U8 - U14	7.54	amps allocated
<b>Total</b>	<b>30.16</b>	<b>amps</b>

Configuration Totals: 6274.2 watts 988.6 lbs 30.16 amps 208 volts 1.7 Tons Sensible Cooling