

OPEN

Compute Summit

Engineering Workshop

October 30-31, 2014

Paris





Open Rack Project Session

Steve Mills

Facebook

Open Rack Project Co-lead



Open Rack Project

Schedule

- Session1: 11:00 – 12:00

- Overview of Facebook Open Rack V2
 - Power Architecture
 - Mechanical Architecture

Pierluigi Sarti
Steve Mills

- Session2: 2:00 – 3:30

- Rittal Open Rack V2 Update
- Updates to Open Rack Standard V1.2

Andy Gill
Steve Mills





Overview of Facebook Open Rack V2

Steve Mills

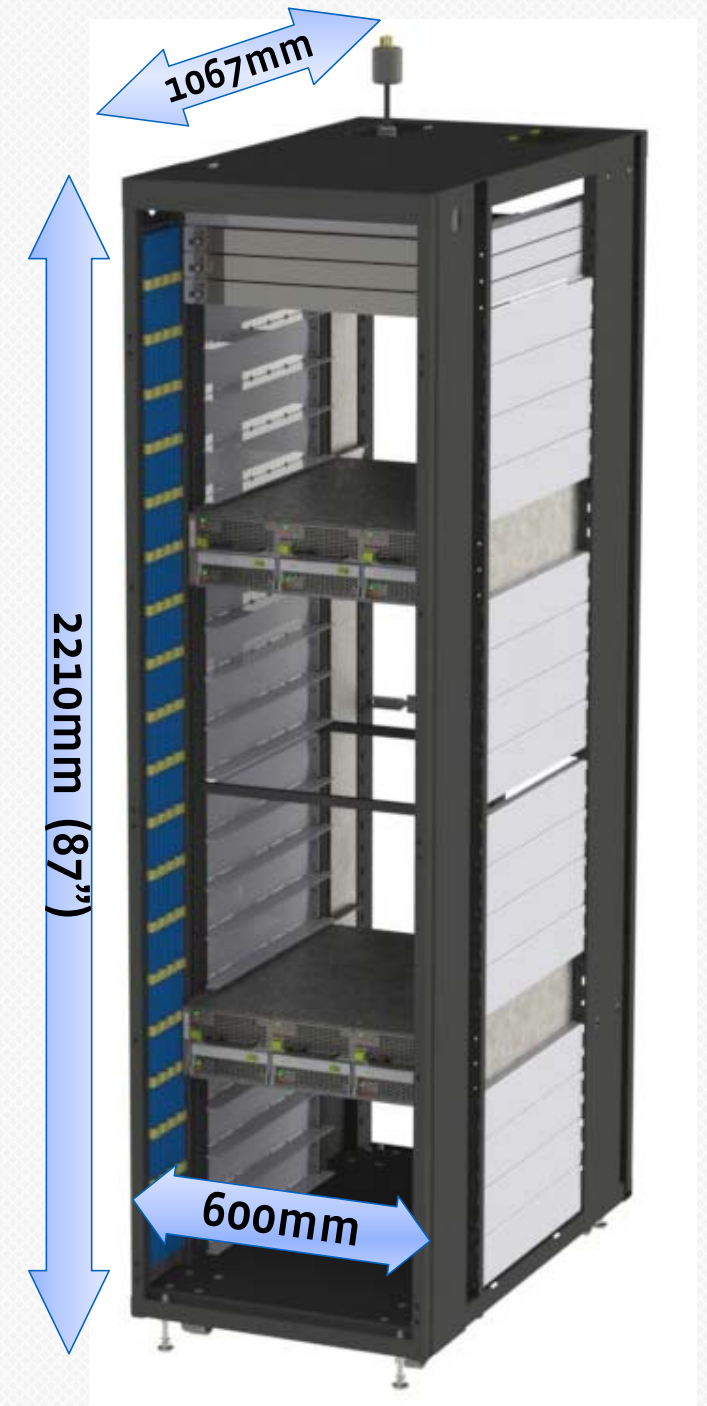
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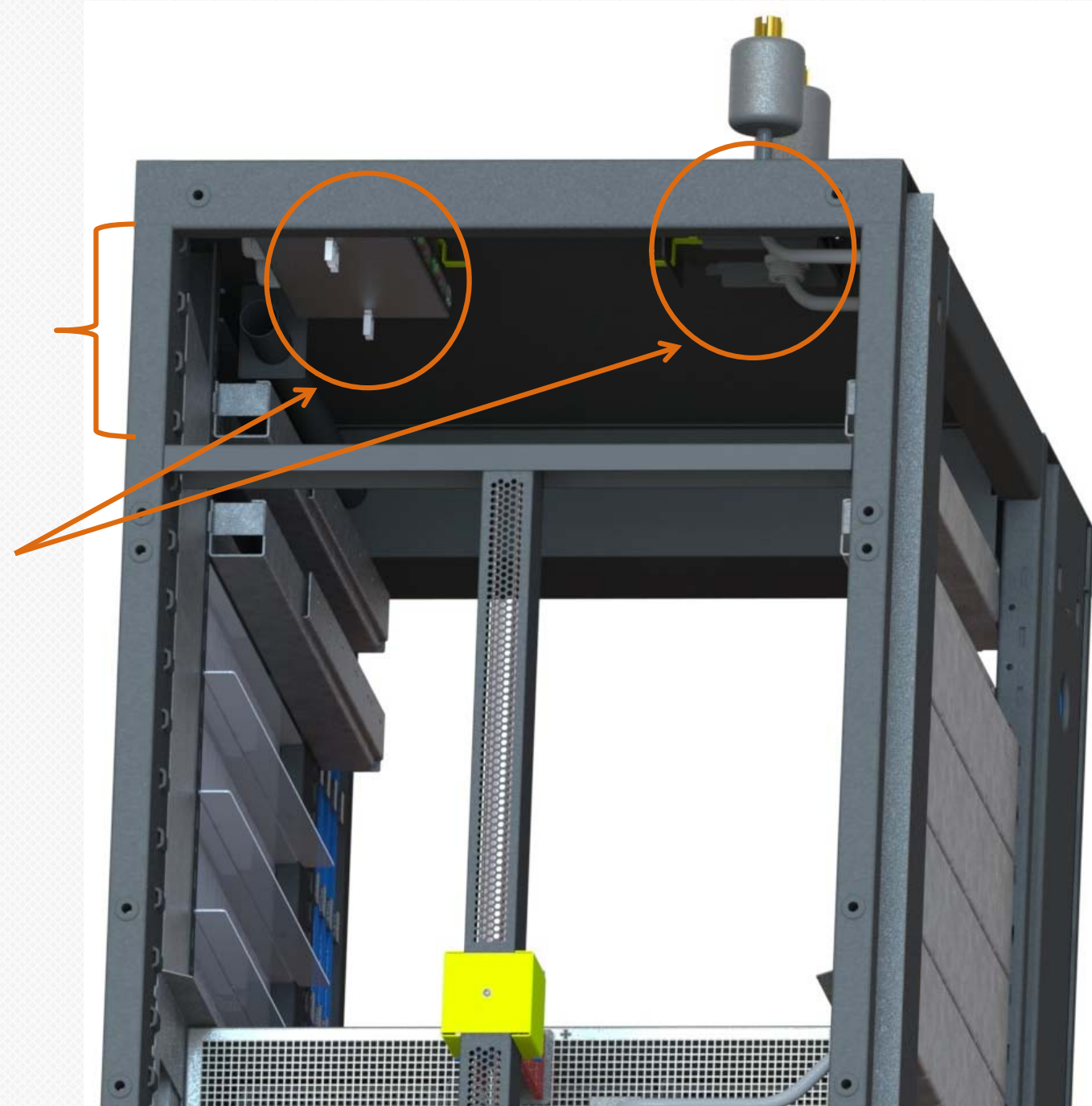
Facebook Open Rack V2

- Complies with Open Rack Standard V1.1
- Backwards compatible with all Open Rack V1 IT Gear
- Increased Max IT Gear mass from 950kg → 1400kg)
- Increased height from 2100 (82.6") to 2210mm (87")



Rear View

- Switch Service area is larger and now supports 3 switches
- PDUs are located in the back under the canopy
- Capable of supporting 3 busbars but FB plans to populate only 1 at production

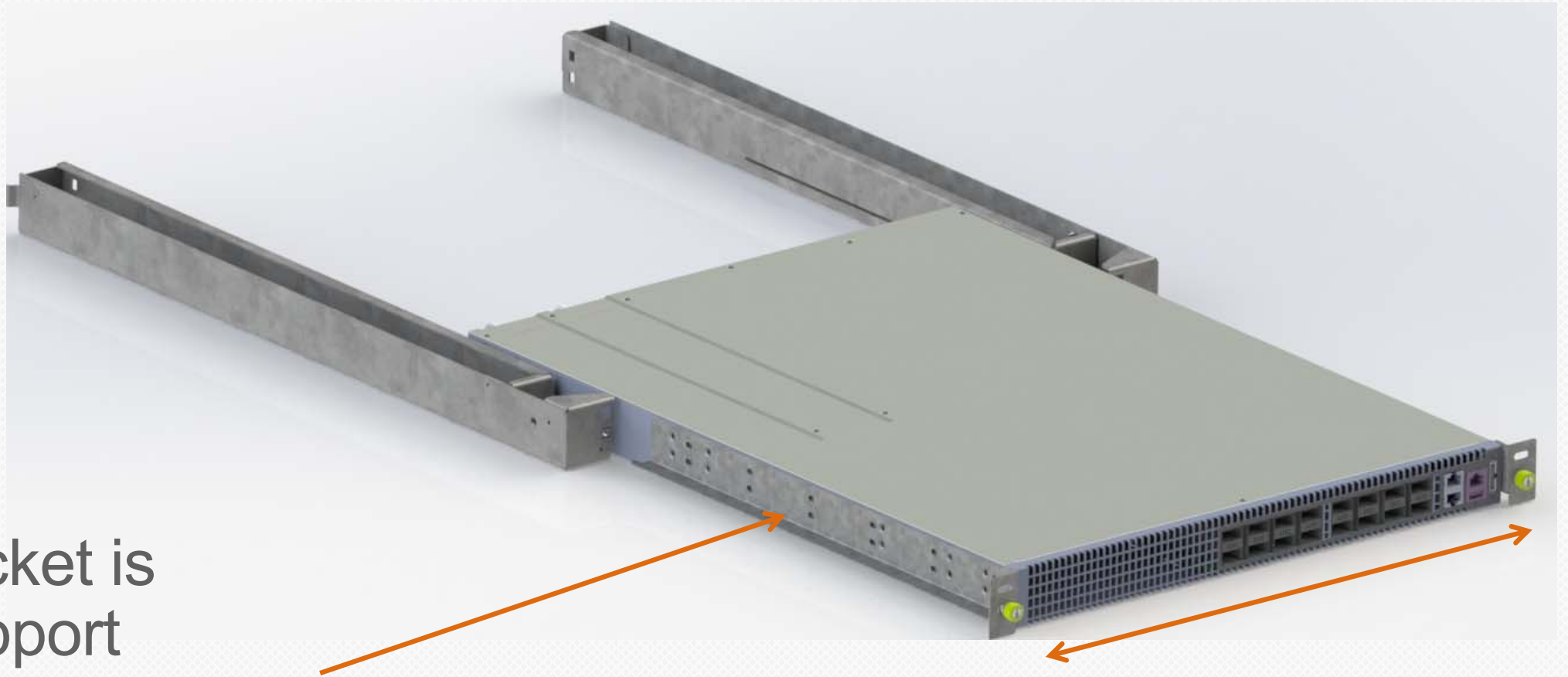


Rack Monitor Appliance

- Rack monitoring server moved from top of cabinet to area under canopy in front



Adapter for 19" EIA switches

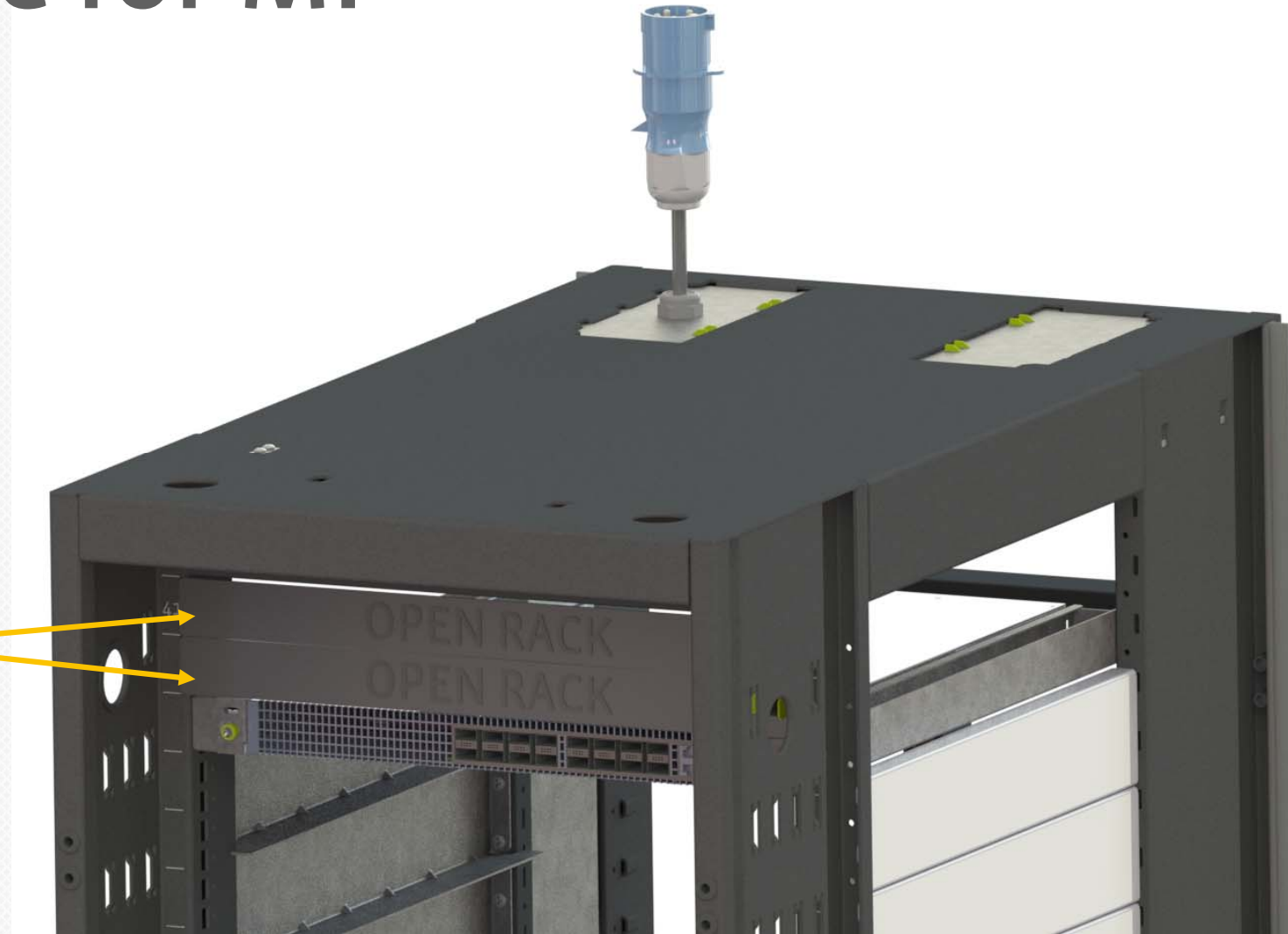


- Adapter bracket is longer to support switches with greater depth and weight.

Brackets adjusts horizontally ± 2 mm for different chassis widths.



10U blank available for MP





Facebook Cubby Rack Sub-chassis

Steve Mills

Open Rack Project Co-lead

Facebook



FB Cubby Project

1 Power Zone

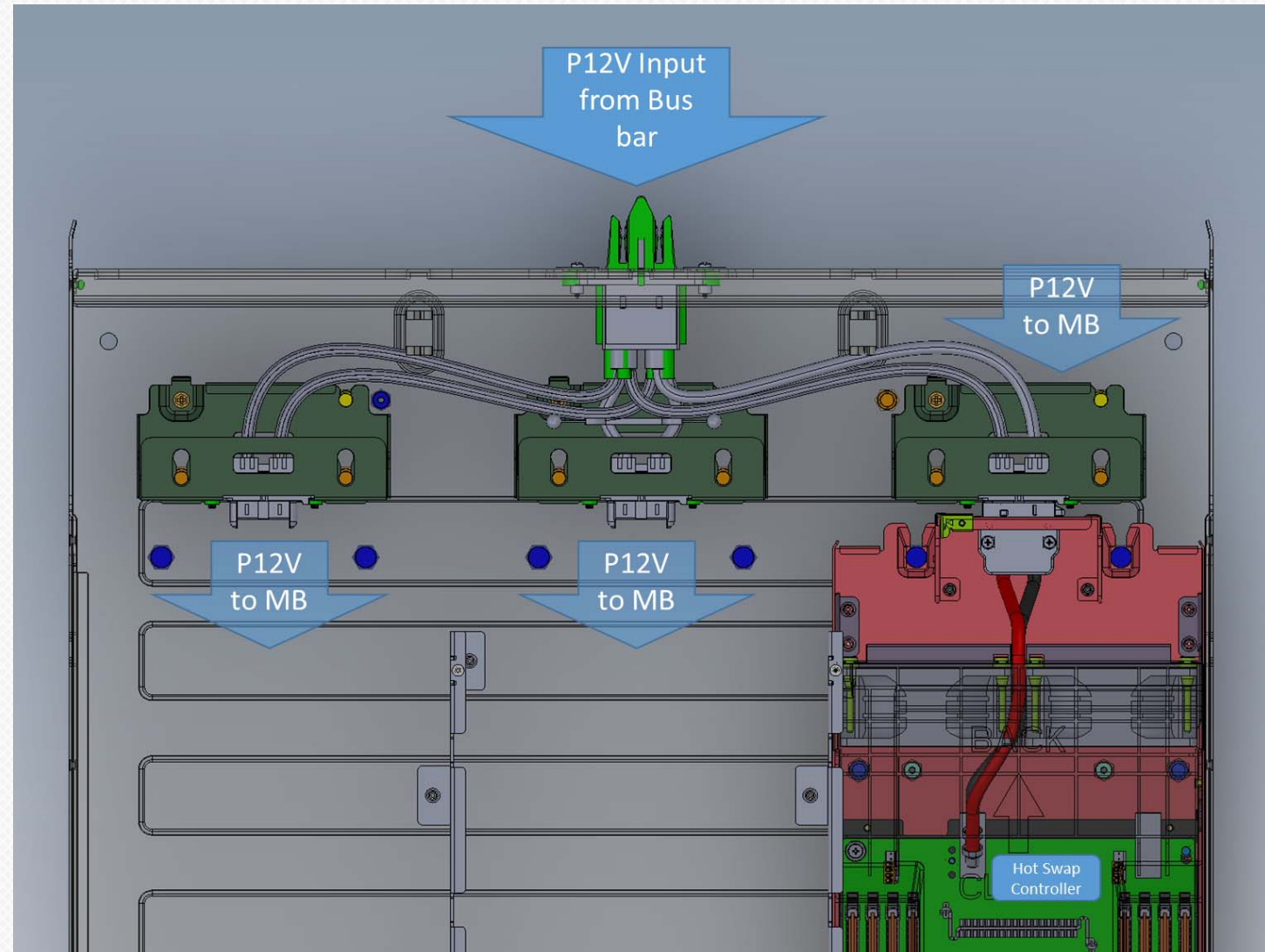
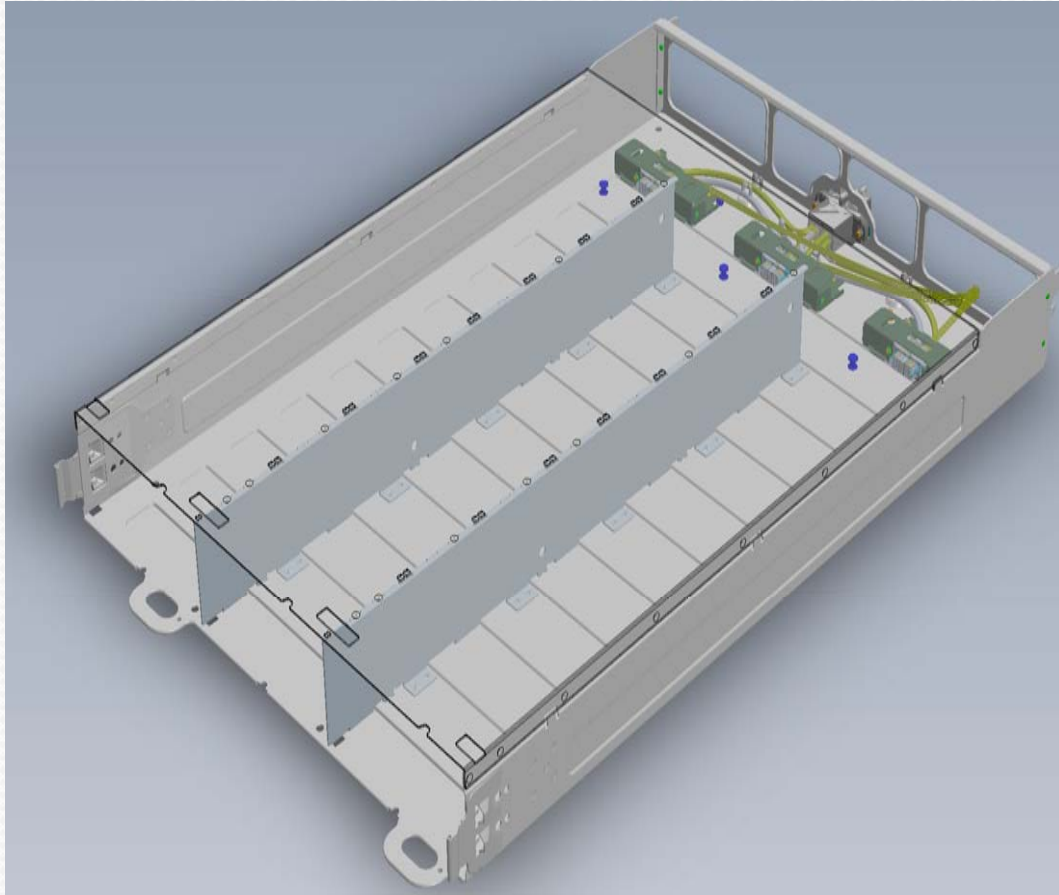
- Splits each power zone into 24 slots for IT gear
- Each IT slot is 20U tall x 17.5cm x 68cm and can support 25kg of gear

12 IT Slots

12 IT Slots



Splits Power from 12VDC to each Slot



Cubby with 1 slot populated

- Specification will be included in Open Rack V2 specification submission on OCP website.

