



Slow-Control Hardware @ KEK



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21st DEPFET Workshop

Ringberg

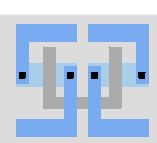
30.05.2017

I'm Sorry...

... I couldn't make it to Ringberg.

I'm also not available for the eZuce session.

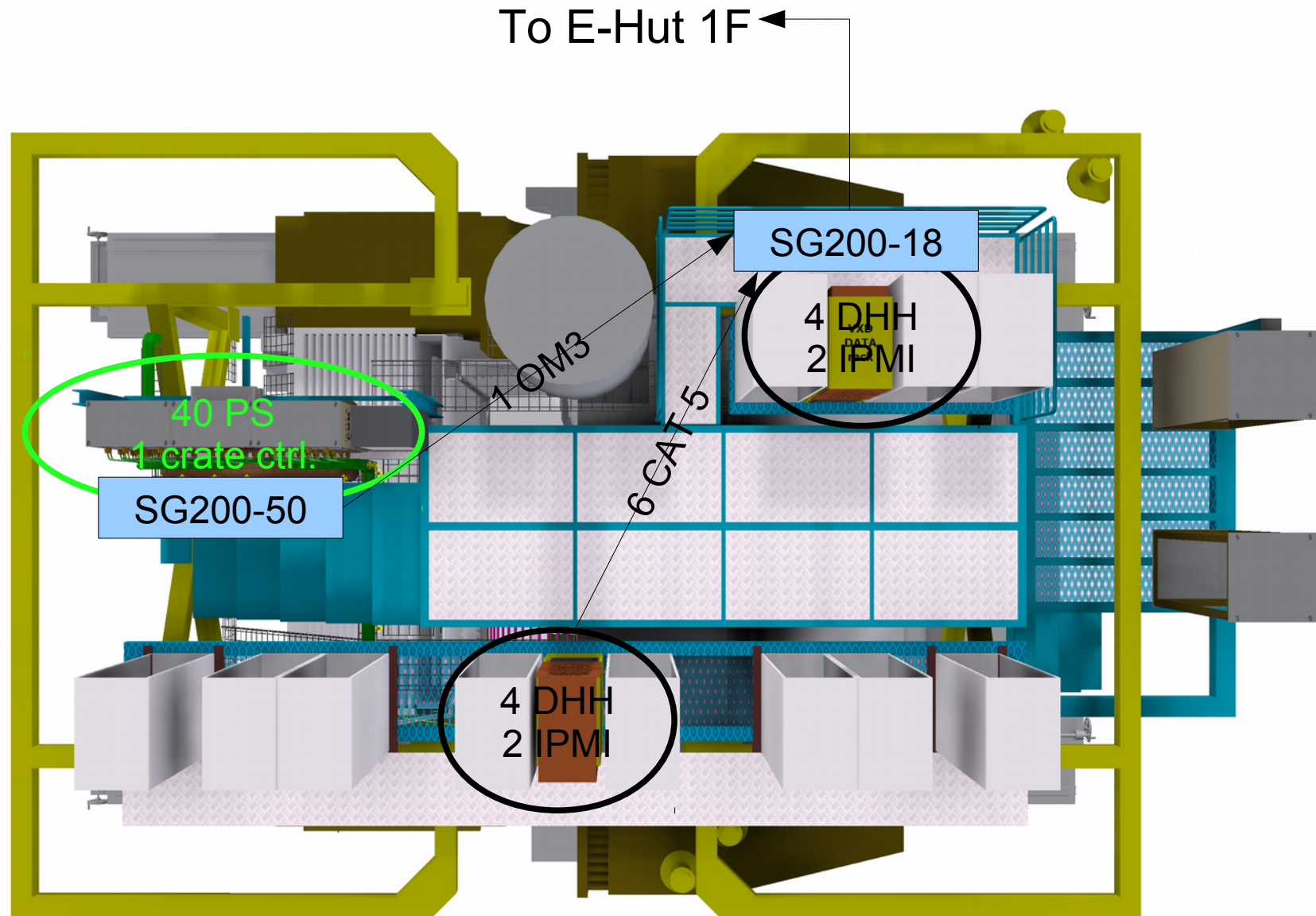
If you care about having network ports to plug your devices into, please go through these slides and **send me comments!**



- We need to buy the hardware **now**.
- This is the plan.
If there are no objections, this is what will be available.
- **Bottom line:** There will be
 - 3 50-port switches
 - 1 18-port switchall of them with port-based VLAN capabilities and SNMP.
- **Cisco SG200 series.**
Not too fancy, but supports what we need. 19".
 - Available: 8, 18, 26, 50-port. (Hopefully also in Japan...)
 - All variants: $n-2$ ports Copper GE + 2 ports mini-GBIC (for optical GE)
 - One switch (for ONSSEN) could be cheaper, but let's stick with one series for simplicity.

- E-Hut 1F (worst case):
 - 1 uplink to top of the detector
 - 1 uplink b2epics net
 - 4 SC servers (+BonnDAQ?¹) (+DQM?)
 - 20 DATCON
 - 1 IBBelle
 - 1 SVD (or via b2epics net)
 - 51 ONSSEN
 - ⇒ 1 full 48-port switch ONSSEN boards, IPMI to the other switch
 - **total 79** (+BonnDAQ?) (+DQM?)
 - ⇒ **2 50-port switches**
 - Top of the detector (see next slide):
 - 41 PS
 - 12 DHH
 - 1 uplink to E-Hut 1F
- ¹ Since many connections to DHH are required, will the server(s) be in the DHH racks?

Phase III SC Networking on Top of Belle II



background image by Tscharlle

Using only hardware that will also be required in Phase III.

Setting up early September.

- @ E-Hut 1F: 50-port switch
- @ top of the detector: 18-port switch.
 - Is this sufficient?
- @ B4: 2× 50-port switch

- Are all the places that I show in the overview suitable for a 19" switch?
I.e. are DHH and PS racks standard 19" with two units free and 120–230 V AC supply available? Which plug?
- Can it get **really** hot on top of Belle II?
The switches are only rated up to **40°C**.
(And 90% RH.)
- Who provides the cables?
- I still need to verify the availability of the connections
E-Hut \leftrightarrow top of the detector that we requested.
To be done during the upcoming B2GM.

- We will not have funding for the big archiver server in time for Phase II.
 - ⇒ There will only be the IOC servers with less RAM and HD.
 - ⇒ Archiving capabilities will be provided but there may be restrictions on the number of PVs (or sampling rate).

Thank you!