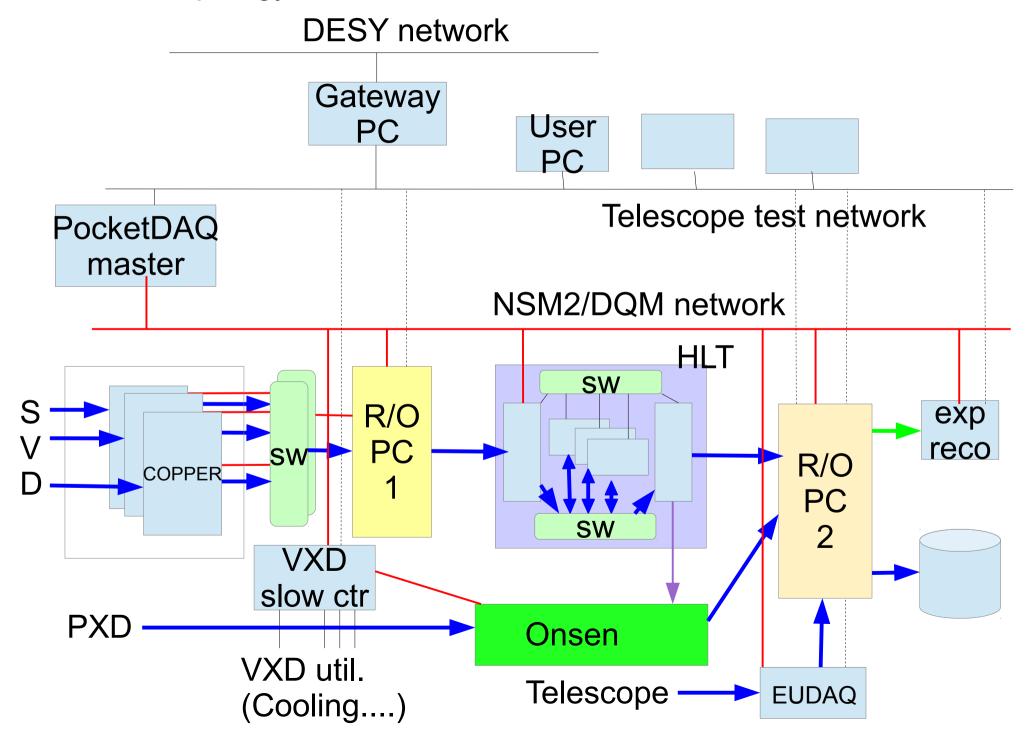
Issues to be discussed on DAQ for telescope test (recompiled from list assigned to me by Higuchi-san)

R.Itoh, KEK

- 1. Gereral layout of VXD-DAQ for telescope test
 - * How to migrate EUDAQ (for Mimosa) in Pocket DAQ?
 - Data flow from Mimosa (and other beamline detectors)
 - Slow control
 - * Network topology
- 2. Prospect for Pocket DAQ
- 3. DQM implementation
 - * DQM for SVD (PocketDAQ)
 - * DQM for Onsen
 - * DQM at mini-express reco
- 4 HIT
- 5. Procurement of PC equipments for test
- 6. Dry-run test bench
 - * At DESY
 - * At KEK

Network Topology



5. Procurement of PC equipments for Telescope test

- Possibilities:
 - 1: Purchase by DESY: Alan <- discussed at Tokyo meeting
 - 2: Offer by Markus: Vienna can provide a set of blade servers
 - 3: By KEK: KEK purchased a set of PC servers to have a local test bench system at KEK (for KEK dry run)
- Shipping KEK's system to DESY is a little bit difficult. (many formalities, needs long time to ship....)
- Duplicating the system developed using KEK test bench to DESY (built by possibility 1 or 2) is realistic.
- List of equipments : no change from those discussed at Tokyo meeting

- Pocket DAQ master (Desktop PC)
 - * Quad core@>3GHz, 4xGbE NIC, 4GB mem
- Gateway PC
 - * Quad core@>3GHz 4xGbE NIC, 4GB mem
- Readout PC 1
 - * Quad core@>3GHz, 4xGbE NIC, 4GB mem.
- HLT servers

Event server PC

* Quad core@>3GHz, 4xGbE NIC, 4GB mem.

Worker node PC >=3

* >=8 core@>3GHz, 2xGbE NIC, 2GB/core

Output server PC

- * Quad core@>3GHz, 4xGbE NIC, 4GB mem.
- Readout PC 2
 - * Quad core@>3GHz, 8xGbE NIC, 4GB mem., Storage I/F
- Mini express reco
 - * Quad core@>3GHz, 4xGbE NIC, 8GB mem.
- 24port GbE switch
 - * HLT (2), Slow control (1), DAQ net (1)
- Storage disk
 - * Portable USB3 disk? Rigid RAID? ~10TB?
- File server (PC + a few TB RAID?)

Summarizing....

- 2 Desktop PCs : DAQ control and DESY gateway (Quad core@>3GHz, 4xGbE NIC, 4GB mem)
- 3 rack mount PCs (1U): Readout PC 1, HLT input/output (Quad core@>3GHz, 4xGbE NIC, 4GB mem)
- 3 rack mount PC (1U): HLT worker nodes (>=8 cores@>3GHz, 2xGbE NIC, >2GB/core)
- 1 rack mount PC (2U): Readout PC 2 (Quad core@>3GHz, 8xGbE NIC, 4GB mem, Storage I/F)
- 1 rack mount PC (1U): mini express reco PC (Quad core@>3GHz, 2xGbE NIC, 8GB mem)
 - -> mini express reco
- 1 Storage disk (USB3 portable? Rigid RAID?)
- 1 File server PC with a few TB RAID

+

- 4 x 24port GbE switch, Wireless AP(?)
- 1 Rack
- NICs for EUDET PCs
- Network cables (optical, metal)