# Helge Rottmann 19.12.2007

#### Attendants:

Metsähovi	Ari Mujunen, Jouko Ritakari
MPIfR	Walter Alef, Helge Rottmann
JIVE	Charles Yun

## Status of data acquisition prototype

Ari and Jouko gave a report about the current status of the data acquisition prototype. The base hardware has been received by Metsähovi including 10Gbit switches and 3 iBOBs. First tests of the iBOB boards and work on the iBOB firmware have commenced.

Regarding the final hardware design of the prototype the iBOB/BEE2 option has been discarded. Currently the capabilities of a modified "FrankeniBOB" scenario with a Power-PC core directly connected to the iBOB board is under investigation.

Jouko reported about new style disk packs that might be interesting for fast local data storage.

Ari has explained that the data acquisition prototype will probably have one setup only which will be prebuild into the firmware.

#### Data acquisition control

Discussion amongst all attendants produced the following set of preliminary requirements for the data control system:

- The control system should follow the VSI-S standard, similar to the field system's Mark5 command set implemented by Haystack.
- The initial command set for the hardware prototype will provide functionality for system start and stop and possibly for dynamic IP-configuration of the output data streams (depending on the requirements from the Grid-correlation groups).

### Other issues

It was agreed that producing auxiliary monitoring data like Cal, Tsys and sampler statistics should best be done directly by the iBOB boards. Discussion on implementation details for these auxiliary data has been postponed until a later stage of the project when more information on the capabilities of the iBOB boards will be available. Likely the aux data will be delivered in the form of separate low-bit data streams.

Issues concerning data acquisition performance monitoring were discussed. A real-time, online display of hardware performance (Tsys, sampler stats, net throughput) could be valuable for the stations.

# Action items:

- Hold regular telecons. Next telecon will take place in January 2008.
- Contact Grid-correlation groups at JIVE to discuss their requirements on the data acquisition hardand software.