Technical Meeting COMPASS DCS / EN-ICE

Date: 16th February 2011 from 14:00 to 15:00
Place: Building 864, 1-B12
This meeting was attended by:
Brice Copy (EN ICE) (BC)
Christophe Pires (COMPASS DCS) (CP)
Excused : Ana Sofia Nunes (COMPASS DCS) (ASN)

Note: Some items from the previous meeting have been integrated *in italics*.

Content:

General news:

- Monitoring of Polarized Target system will be added in the COMPASS DCS – this may enable a simpler control of the whole experiment.
  - PLC monitoring test with a PLC S7-300 has been successfully performed with the help of Marco Boccioli (ENS-2544).
  - NMR and dilution cryostat are controlled with LabView:
    - COMPASS wonders whether to collect the information from LabView OPC server or through the databases (Oracle and MySQL);
  - Information about the superconducting magnets of Saclay will be collected via ModBus.
- The Polarized Target group is considering the adoption of a UNICOS PVSS system instead of the current system in the future.

Action BC: Find out whether integrating a UNICOS project with JCOP-only PVSS project is possible and easy.

PVSS / General:

- COMPASS is currently testing PVSS 3.8 SP2. The problem of blocking trends is solved.
- JCOP release 4.2.0 is being tested by COMPASS (ELMB, Iseg and Core tested without any problems).
- PVSS slow Oracle query performance (ENS-2086):
  - Dawid Wojcik reported that COMPASS DCS is using a very large single schema for PVSS
    - The COMPASS DCS group will do a test with two schemas and is presently

studying how the current datapoint elements and the historical data should be separated.

- CP indicated that he was informed by COMPASS Technical Coordinator that CMS is having trend issues too.

Action BC: Further discussions on ENS-2086@jira Plan a meeting with Dawid Wojcik, Macjin, Piotr Golonka and Ana Sofia (by teleconference?), to discuss use cases of the RDB manager and what are the plan for the medium term future.

CAEN:

- Pixel MicroMegas from Saclay would like to integrate in the COMPASS DCS a new SY2527 crate. They wish to monitor the crate in polling mode and request all channels data every second throught OPC.
- NA62 will not use old CAEN crates, they have chosen to use Iseg crates. COMPASS will be, again, the only experiment using CAENet and SLiC.

Action BC: Check if a SY2527 can be polled on all channels every second, while still leaving space to send commands.

Wiener:

- COMPASS DCS performed tests with updated firmware and new OPC server (ENS-2362). Several problems were observed and reported:
  - wrong readings of negative voltages;
  - unavailability of temperature items;
  - blockage of the crate when sending commands.
- COMPASS will stay with the old OPC server, and the old JCOP component (which is unsupported for PVSS 3.8, but still works).

Iseg:

- At the beginning of 2010, the COMPASS DCS group started to test the new OPC server
  - Invalid and fake readings were identified and reported (ENS-2436).
- In December 2010, COMPASS DCS did more tests with even more recent OPC server versions and found the same problems. Similar problems have been reported by other experiments.
- Since January 2011, more test have been done and the problems still occur.

Action BC: Ask Ben whether ISEG problems can be turned into an OPC test script reproducing

the problem to help ISEG investigate.

Schneider OFS server:

- The COMPASS DCS group will test the latest OFS server (ENS-1443), in coordination with the CERN expert, Geraldine Thomas.

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