

Technical Meeting Compass DCS / IT-CO

Date: 30th of April 2008 from 11:00am to 1:00pm

Place: IT-CO Scada Lab

This meeting was attended by:

Mathias Dutour (IT-CO)

Ana Sofia Nunes (COMPASS DCS)

Christophe Menezes Pires (COMPASS DCS)

Catarina Quintans (COMPASS DCS)

Content:

General news:

CQ has reported she will be at CERN from May 20th for the beginning of the COMPASS 2008 Run.

Status of open issues:

Wiener equipment communication problems: CQ reported that, during the tests with the Wiener VME equipment of COMPASS, a loss of communication was observed with one isolated Wiener VME 5021 after restarting the server (Krakow). On the server logs, one can see a "timeout" for the channel items.

With respect to the PL508 power supplies that were subject to a firmware upgrade by Wiener, it was seen that they are incompatible with the power bin UEV 6021 that had worked correctly with PL500 power supplies. The "VoltageValue" item showed values different from the values read with a voltmeter in the channels. After test with one the compatible of power bin, provided by MD, the PL508 worked as expected. The GetIncompatible item was seen to always have the value "false" from the OPC server, even if the power supply and power bin were incompatible.

MD informed that a new JCOP-Framework Wiener package is being developed to account for the different namespace of the new Wiener OPC server.

Action MD: send link to the most recent version of the Wiener OPC server.

Action ASN/CMP: test all the models of Wiener equipment at COMPASS with the new Wiener OPC server.

Action MD: MD proposed to look at the UEP6021 with which it is not possible to communicate.

CAEN equipment: MD reported that at CAEN the problem identified at COMPASS and at IT-CO was not reproduced, using the code he has written and the CAEN SY403 crate he provided to CAEN. CQ reminded that the long known problem of loss of communication with CAEN SY527 crates isn't solved yet; an interference between the CAN interface and the RS232 interface was observed and is a possible cause of the problem. This cannot be solved by a EEPROM reset.

MD reported that, for the two SY1527 crates and one SY2527 crate of COMPASS, an upgrade of the flash memory card is needed. This would cost 50 euros per flash card and should be coordinated with PH-ESE. CQ informed that COMPASS will soon have another spare crate SY1527 with 1932 modules, designed for COMPASS; it could be used for tests with the new CAEN server, with “event mode” setup. MD informed that in CMS the new OPC server, with event mode setup is now used in the production stage, reading about 50 000 items.

Action MD: Check wheather a firmware downgrade would be needed if after the test one would choose not to have the “event mode” setup.

Oracle archiving: ASN reported the problem detected with the conversion of historical data from PVSS to Oracle, namely that the status bits weren't being converted. She also reported that the RDB manager was seen to block when reading “NaN” from temperatures readings coming from ELMBs. MD suggested to ask for the production database prior to having solved the problem with the conversion of historical data.

Action ASN: Ask for the Oracle production database as soon as possible.

Configuration DB: CMP reported that there was a problem with the procedure of saving recipes that was still being studied.

Misc: CQ informed that there was a request to have a switch in the main panel of the project for different modes of the experiment, which mean different mapping of hardware to logical names, different settings and different panels being shown. MD suggested that the best way to achieve this functionality would be to use FSM. CQ pointed out that the groups doesn't have enough manpower to have this ready for this year's Run.

CQ also reported on the request for a PLC integration. This could be read directly in PVSS via the existing Siemens driver.

Finally, CQ reported on the request to read data from 3000 channels from a file provided to the COMPASS DCS system. MD recommended to have more details about the exact format of the file being sent and also about how the information should be displayed in the PVSS panels.

END OF DOCUMENT