Technical Meeting Compass DCS / IT-CO

Date: 19 October 2006 from 14:00pm to 15:30pm
Place: IT –CO 14-4-002

This meeting was attended by:

Catarina Quintas (COMPASS DCS)
Francisco Mota (COMPASS DCS)
Mathias Dutour (IT -CO)
Manuel Gonzalez Berges (IT -CO)

Content:

Review of actions in progress.

CT370299: Precision problem in PVSS
This case is fixed. A new SLiC version was provided to COMPASS in order to fix this issue. It has been deployed in COMPASS and the first results are good.
Action CQ (we 42): Finish tests and provide feedback to IT –CO over the new SLiC application.

CT370298: PVSS unit values
This case is fixed. However, a CAEN standalone program provides unit details of the measured channel parameters, while this information is not mentioned in the crate CAENET API documentation.
Action MD (we 46): Re –open. Investigate to determine where the unit information for the crate channels comes from in this program.

CT370306: PVSS:pmon question
A solution was provided which have not been yet tried by Compass because of low priority. The case had been closed.

CT362923: bug in PVSS 3.1? (PVSS00ctrl)
This case is on hold. PVSS shows some problems in restarting manager while the manager`s configuration explicitly requests to do so. This issue is under investigation and the PVSS log related to this issue was requested to Compass DCS.
Action CQ/FM (we 42-43): Reproduce the problem and forward the related PVSS log to IT –CO to continue investigation.

CT370304: Iseg PVSS framework/OPC problem
The original case is fixed. However during the investigation a second issue was discovered which involves the Iseg OPC server.

Action MD (we 42): Clarify with the responsible of this call the status of this second problem.
Note: This will probably trigger the creation of a distinct call for this specific problem.

New actions.

Suspicious OverCurrent status on CAEN channel
On a channel of a CAEN SY403 crate the OverCurrent status is received in PVSS (But this was also observed in the DIM browser) while the current measured provided in the same time is below the OverCurrent threshold. MD and MGB provided some hints to track the origin of this behavior (switch to spare channel to eliminate hw problem, reduce to minimum Trip time to get a channel trip that would indicate a normal behavior…). At this time, it is not clear whether it is normal behavior or not.
Action CQ/FM: Investigate whether this behavior is normal from detector perspective or not. If not, provide IT –CO with details to run an investigation.

Unclear PVSS/OPC Wiener items
FM reported unclear items both in the PVSS Wiener Framework component and the Wiener OPC server itself.
Action FM: Open a call to provide IT –CO with the lists of the unclear items in OPC and the Framework.

Wiener equipment communication problems
CQ and FM reported severe communication issues with Wiener Low Voltage power supplies and crates. After a couple of days, the OPC server stop responding correctly and the situation is so unstable that the crates have to be power -cycled to get back in operation. Some informations about this problems have been discussed between ATLAS (Zbyszek Hajduk) and COMPASS but not followed.
Action CQ/FM: Open a call providing complete details of the problem and related history.

Other ongoing business.

CAEN A1932AN Framework integration
CQ reported the CAEN A1932AN boards used at COMPASS are required as long as the experiment takes data. It is likely that hardware modifications are requested to CAEN on this board (addition of hardware voltage limit). These modification might impact the related Framework component. MGB reported that the A1932AN is ready in the Framework and only the final tests with hardware are required. CQ explained that the detector using the boards doesn't want to integrate with the rest of the experiment because of the risks that somebody sets a high voltage and so they don't need yet the Framework version with the A1932AN.. COMPASS will provide the board required for testing once this year's run finishes (~December 2006). It is agreed that the test completion is not mandatory before January 2007.

FSM integration in COMPASS DCS application

COMPASS expressed the need to integrate the FSM (Finite State Machine) in their DCS application. This global action will take place during the beam break from 19 November 2006 until String 2007. Expertise from the IT –CO group is required to advise this development realized by COMPASS. It is agreed that a meeting shall take place in January 2007 to discuss the overall architecture and accelerate development.

Action COMPASS (Minimum 3 weeks prior the meeting): Provide the big picture of the architecture and behavior of this control layer, as well as the expectations regarding the FSM. This shall be formalized in a document provided 3 weeks to IT –CO prior the meeting date to maximize efficiency.

Misc.

MD will not be available weeks 43, 44 and 45.

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