Minutes of the EN-ICE/COMPASS-DCS Technical Meeting

Date: 22/03/2012, 15:00-16:00
Place: 892-2-009
Attendees:

Christophe Menezes Pires (CP), COMPASS
Goncalo De Almeida Terca (GT), COMPASS
Brice Copy (BC), EN-ICE

General News:

Goncalo Terca joined the COMPASS DCS team and he attended the Joint PVSS-JCOP Framework course at the beginning of the Month. Sofia will return to CERN end of April and stay for a month.

The preparation for the run is ongoing. In 2012, COMPASS will have 2 runs:
- Hadron run, from 7th of May to 27th of August;
- DVCS run, from 8th of October to 3rd of December.

Databases:

Meeting about DB optimization was postponed due to Piotr Golonka's unavailability (family reasons).

Since the reorganization of the data in the database, the performance of the trending plots is quite satisfactory - the bottleneck is not anymore in the database but it seems to be on the PVSS rendering side (a temporary crash of PVSS UI was observed when zooming in on a trending plot - after ~30 mins the PVSS UI recovered).

While the Index Organized Tables (IOT) procedure is not implemented and tested, the reordering of the most recent data will be done after every PVSS table switch.

PVSS:

Strange error with the PVSS Event Manager "Unexpected Error" - the project restarted for no obvious reason in the middle of the night - ENS-4504@jira - OPC managers did not restart automatically, classified as an isolated incident.

PVSS and some JCOP Components were upgraded to the latest patch levels. Exception of the JCOP components for ISEG and WIENER. JCOP Configuration Database component was upgraded to version 3.3.65 (recommended - conservative - release, suitable for productions systems). JCOP Configuration Database versions up to 3.5.2 were tested in the development project, they include major changes and impose an irreversible upgrade of the database schema.

CAEN:

GT will handle the tests and integration of the CAEN SY2527 with 1 Hz reading rate.

CP reported that a new firmware version for SY1527 and SY2527 is available as of February on CAEN webpage, release notes indicate that it solves the problem of sending large number of commands at the same time, which used to freeze the crate previously.
CAEN will visit CERN next week.

Wiener:

From last meeting:
> "The COMPASS-DCS group has received a request to integrate in the DCS the control of a very old type of Wiener power supplies. Attempts to communicate with the power supplies failed, even with debugging low-level tools used in collaboration with Benjamin Farnham (EN-ICE) (ENS-4372@jira).
> **EDIT:** Wiener was contacted and informed that some of the power supplies under discussion were delivered without CAN interface and others are indeed very old. The group using the power supplies should consider buying the communication interfaces, or else find an alternative. The Electronics Pool was contacted and a request was made for it to provide a spare power supply and to allow to use one of the power supplies that is being rented to the Pool for a first attempt of firmware upgrade. Catherine Moine (Epool) is expected to give an answer by the end of March 2012."

Integration of the very old Wiener power supplies is still going on.

If communication problems are solved, it may be just before the beginning of the run. If the problems are not solved, the runs will take place without the control and monitoring of the power supplies, hoping that noise problems will not appear - last run, the power supplies had to be reseted locally.
EDIT: Catherine Moine (Epool) contacted COMPASS to get more information on what should be done. It seems there was some misunderstanding and nothing was done since 02/03/2012 (until 22/03/2012).

DIP:

CEDARs detectors will be reintegrated and monitored via DIP as it was in 2009 - initial tests are conclusive.

ISEG:

ISEG is visiting CERN this week, but no visit of COMPASS scheduled as they have visited in 2010 / 2011 already. Also, the Alive flag problem affects COMPASS, ATLAS PIXELS and ALICE-PHOS. ENS-2436@jira OPCISEG-1@jira

COMPASS will continue to use version 4.11 of the ISEG OPC Server, which is known to work properly. It may become an issue when moving to a more recent operating system (e.g. Windows 7) which does not support the old OPC server.

OPC-UA:

Updates about SSL certificates and the proposal EN-ICE made to IT about rolling out a Certification Authority.

CP reported that he has some experience with setting up CAs.

MySQL Service at CERN:

A MySQL service is to be rolled out at CERN later this year - this may be of interest to COMPASS who currently run multiple MySQL Servers.