

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

**Date:** 18/06/2014, 11:00-12:00

**Place:** 891-1D-002

**Attendees:**

Brice Copy (BC), EN-ICE

Christophe Menezes Pires (CP), COMPASS

### **General News:**

CP reported that COMPASS DCS production project was successfully migrated to WinCC OA 3.11 SP1.

Regarding the integration in the DCS of a HAMEG HMP4040 low voltage unit, CP informed that the detector experts chose the DIM server/client solution.

CP reported a request from COMPASS DAQ to integrate in the DCS IPMI equipment. Although there are some doubts on the full IPMI compliance of the equipment, tests with the [FMC agent](#) will be performed. If it doesn't work, implementing a DIM server may be an alternative solution.

### **WinCC OA:**

CP reported that COMPASS DCS production project was migrated to WinCC OA 3.11 SP1 release from 16/04/2014, PVSS RDB schema version 8.7 and RDB API version 3.0.1.

Relates to: [ENS-11172@jira](#)

Alarm filtering issues solved. Relates to: [ENS-8284@jira](#) and [ENS-11093@jira](#)

CP reported that error messages appear when stopping scripts that use CtrlRDBAccess to connect to MySQL databases. These error messages don't seem to have any impact on the script operation/execution.

Relates to: [ENS-10974@jira](#)

### **JCOP Framework:**

CP reported that, while testing fwConfigurationDB 5.0.3, he noticed that configuration descriptions are not saved to the database when new configurations are created.

Relates to: [ENS-11456@jira](#)

CP also reported that a problem with UI idle connections to fwConfigurationDB was solved by disabling "IDLE\_TIMEOUT" option on the profile of the database account.

Relates to: [ENS-11528@jira](#)

### **Schneider OFS:**

CP noticed that Schneider OFS package v3.50 is available on DFS.

**Action BC:** Check if this version can be used in production or if it is still under test.

**Update:** Benjamin Farnham informed that Schneider OFS package v3.50 has not yet been tested and that a test can be scheduled if there is user interest.

**Update:** CP tested Schneider OFS package v3.50 (Modbus serial only) and no problems were found.

### **CANOpen OPC:**

BC asked about a possible migration from OPC-DA to [OPC-UA](#), CP replied that OPC-DA will be kept for the entire Run and testing of [OPC-UA](#) may be done after the end of the Run. CP indicated that COMPASS DCS is using other OPC-DA servers/clients and that a full migration from OPC-DA to OPC-UA would allow COMPASS DCS to only use Linux. CP also indicated that COMPASS DCS is still using Wiener Krakow OPC Server (unsupported).

**Action BC:** Check the OPC-UA status of other OPC servers.

**Update:** “We’re currently discussing how best to work with Wiener, ISEG and CAEN to ensure lessons learnt working with the OPC-DA implementations will be carried on (and improved upon) into the work for the OPC-UA implementations. No code has been written yet but the plan is to make OPC-UA beta versions available towards the end of the next run period for early adopter testing.” - Benjamin Farnham.

### **CAEN:**

CP reported that there have been no updates on [OPCCAEN-84@jira](#).

**Action BC:** Check if there are news.

**Update:** Benjamin Farnham reported that CAEN informed this issue should be solved with CAEN HV OPC Server v5.45.

**Update:** CP performed a one week test with CAEN HV OPC Server v5.45, CAEN HV OPC Server Configurator 5.32 and a CAEN HV SY2527 and no major problems were found. CAEN HV OPC Server Configurator 5.32 crashed a few times while closing the UI.

CP asked if there is an updated manual of CAEN HV OPC Server available.

**Action BC:** Check if there is an updated manual of CAEN HV OPC Server.

**Update:** Benjamin indicated that the most recent version of the manual is [CAEN OPC Server 5.x Rev. 14](#) and it is available from the CAEN site.

**Update:** CP noticed that VME8x00 Crates section is not as detailed as the SYX527 sections.

CP informed that a request from the Rich Wall group to integrate a new CAEN crate was received.

**Update:** CAEN VME 8100.

Relates to: [ENS-11840@jira](#)

### **DIP:**

CP informed that CEDAR detectors may be reconnected soon and that a test with real DIP publications will be performed at that time ([CMW support](#) will be contacted to restart DIP publications).

### **COMPASS DCS integrations for 2014:**

Expected COMPASS DCS integrations for 2014:

- Polarized target
- Dilution refrigerator, Microwave → DIM, in progress

- Magnet, He pumps → DIP
- Dilution Refrigerator, Microwave, Pump room → Siemens PLC, WinCC OA 3.11 SP1 driver
- Drell-Yan Vertex detector
  - CAEN HV SY1527 → CAEN HV OPC
  - HAMEG HMP4040 low voltage unit → DIM
- DC5
  - CAEN HV → CAEN HV OPC
  - Temperature monitoring → ELMB, CANOpen OPC
- RWall
  - CAEN VME 8100 → CAEN HV OPC
- DAQ
  - IPMI equipment → [FMC agent](#) or DIM

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