Presentation on ”Smart Interface. A modular monitoring station” by Daniel Pierrin

- A question rises regarding the software design architecture about why to do all the tasks inside the PLC (work memory and load memory) with up to five days limitation. The reason is that it was a requirement of the users. Besides in this way the station operates independently of any communication network. Another possibility is the use of an industrial PC.
- Another question referred to who imposed the requirements and if these requirements were imposed by local authorities. The answer was that no in general, the requirements were imposed by users and only the five days' limitation was imposed by authorities and the rest by CERN (as main user)
- A general comment was made about the restriction imposed by authorities of no “holes” in the data are possible and that no networking problems can affect the storage of the data in the SCADA system. Another comment was that the system is modular up to the maximum (most complete) configuration
- A question about the maximum battery life duration was raised. The answer was two hours. This limitation is accepted due to statistically it is not needed a longer time.
- Regarding the amount of systems installed, there are currently running three at CERN and four more are expected for this year
- Another question about if any problem has happened with the memory card. The answer was no, but a counter on the number of write operations on the memory card was programmed rising an alarm in case of too many.

- Presentation on “Tia portal openness” by Nick Levchenko
  - In the case of safety PLC, is it possible to automatically generate code? The answer was yes but with many limitations like for example no possibility of importing safety blocks. Anyway, the presenter is not pretty sure and need to be asked to Siemens
  - Another question about the possibility of using JAVA for automatic code generation was raised. The answer was yes, as a tool to create your own applications using the Siemens API. Anyway has to be checked.
  - Another question was raised about the possibility of automatic generation of hardware configuration. The answer was that not now, but will come. Another question was about the use of XML for the same purpose. The answer was that not now but will come.
  - Another question was raised about the uniqueness of the database for all the controls equipment at ESS. The answer was that currently it is used one database for static and unique information for EPICS IOCs, and possibly it is foreseen another similar one for PLCs. Anyway it is under study. A question rises about possible on line modifications of the PLC database as a typical requirement from users and propagation of the changes to the corresponding databases. As an answer, by the moment this point has not been studied but it is interesting to work on it in the next future.