

Protocol 20. Meeting Di, 23.11.11 14.00 – 15.00

Participants: Ludwig Hechler, Udo Krause, Solveigh Matthies, Harald Bräuning, Alexander Schwinn(Protokoll)

1 Error-Codes

- Question from Harald: From where to get the Error code numbers (and strings) for a specific class?
- CCT already talked about this issue. Idea was: Do it similar to old system:
 - Each device-class(FESA-class) gets a predefined number of error's it can throw
 - Error could be structured like that:
 - FixErrorNumber + SeverrityNumber + FixErrorString + DynamicErrorString
 - Facillity Number differs per device-class(FESA-class)
- CCT will decide who will do this job
- FESA will use these services (Error definition libraries and textfiles) as soon as they are defined & available

2 error_collection field

- Outcome of discussion:
 - Thw FESA error_collection field should only store errors, no states! (States are saved in the detailedStatus field)
 - A class developer has to decide if he wants to produce an error (logging-system+error_collection) or an alarm(alarm system+detailedStatus+toBeDefined)
 - The error_collection field will be a ring-buffer. Old errors will be overwritten.
 - In order to keep middleware-traffic low, the error_collection Ring-buffer will have a adjustable size. The minimum size will be 16.
 - For the FESA class-developer there will be a method, e.g. "reportError" to produce an error (add entry in error_collection + do logging)
 - Possibly e.g. "reportAlarm" and "lowerAlarm" could be used for alarms later
 - Each error should have a timestamp and a multiplexingContext (Virt.Acc.). (Later the format of the Logging-System Message could be used)

3 Next beta-release

- Wait until CERN-Project re-structurization is finished. (According to CERN: before 2012)
 - Re-structurization was necessary in order to allow Maven-support
- After that, we will re-structure GSI-sources accordingly & get everything to run again.
- After that, a new beta will be released.
- New Guideline as well will be released
 - Guideline itself should only consist of why we did what we did.
 - All documental stuff should be stored in the FESA-browser html-file.

4 Timing Workshop 6.th Dec.

- Majorly to finish timing-system specifications
- If necessary, FESA timing-requirements from last specification will be used

5 Maven

- As soon as FESA- Maven-support works at CERN and new GSI-beta is released, we will try to get Maven-support as well at GSI (Infrastructure-Team)

6 Testing

- FESA currently has:
 - ca. 26 so called "Integration-Test" classes, which do not follow any testing framework.
 - ca. 40 Unit-Test-Cases, which use the googletest C++ testing Framework
- Hopefully the tests will be automatically triggered by Maven in the future. How testing will be handled in the future will be a question to be answered by the new FESA-Project-Leader