

Protocol 23. Meeting Di, 15.03.12 14.00 – 15.00

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1 State Machines in RT-Action

- The idea is, to check the current class-state, before doing a RT-operation (e.g. dont start a new ramp, if the state is "powering down")
- Matthias already implemented a State-Machine, which could be merged into fesa-core-gsi, and used by the class developer.
- Wiki Documentation, and a comment in the FESA-GSI-Guideline should be added after implementation.

2 Overrun Detection and Handling

- Is there a possibility to see if the start of a RT-Action was delayed? And if yes, how long it was delayed?
- To be checked what we currently have + ask CERN if they as well need this functionality.

3 Value Conversion Guidelines

The following needs to be added to the FESA-GSI-Guideline:

- Value conversions and calculations should be made in server-action, whenever possible
- To make rounding problems in calculations visible, a device should always provide the original input value, and the calculated result.

4 Error Handling in RT-Actions

- The class-developer has the following possibilities:
 - Exceptions
 - Logging Messages
 - Alarm-System States
- For Logging and Alarming, a method in fesa-core.gsi will be provided in order to have a common interface over all classes.
- A comment about the current state will be added in the FESA-GSI-Guideline

5 Class Documentation

- There is already a common way to generate FESA-class-documentation. To be tested for GSI. To be added into FESA-GSI-Guideline

6 Device-Specific error code management

- The idea is, that the developer gets a predefined number of error-codes, and can manage the according error-strings at a central location.
- It is not yet clear, if the implementation will be:
 - a header file, which each class has to include
 - or
 - a text file, which each class automatically loads on startup