

Meeting Minutes - Fr, 15.02.2013, 9:00-11:00

Participants: Ludwig Hechler, Matthias Wiebel, Udo Krause, Harald Bräuning, Ralf Huhmann, Raphael Müller, Barbara Grasmueck, Jutta Fitzek, Günther Fröhlich, Alexander Schwinn (Protokoll)

1. Logical Problem in FESA-Development-Guideline (Part II)

Last week we agreed on using "_set" as suffix in order to describe the set-value which was used by the hardware during a measurement (acquisition-data). However Stephane Deghaye pointed out that it will be no good idea to use the underscore-notation, since then the value will directly interpreted as meta-data by JAPC.

After re-discussion about a proper suffix-Name, we agreed on using the suffix "Set". Alexander Schwinn will change the Guidelines accordingly.

2. GSI-Error – Timestamp – current DataType

Current format of the structure:

```
struct GSI_ERROR
{
    char error_string[MAX_ERROR_MESSAGE_LENGTH];
    int32_t error_code;
    char error_timestamp[MAX_TIMESTAMP_LENGTH];
    char error_cycle_name[MAX_CYCLE_NAME_LENGTH];
};
```

- We agreed on changing the type, used for the timestamp from char-array to int64_t (same format like all other timestamps in FESA)

3. Error/Exception -Messages and -Codes

We discussed about a central management of error-codes and the possibility to use multi-language messages. Result from the discussion:

- In order to support multi-language-messages, it is required to send the parameters of the message separated from the message itself.
- In order to not have error-number-clashes between different software-packages, it is needed to as well transfer information about the error-facility (E.g. Does the error originally come from the FESA-fwk, or from a FESA-class, or from RDA ? Or from JAPC?)
- It would be good to as well send the error-text in english. If the error-code cannot be found in the DB, the GUI could at least display the english text.
- We need some central table/file/db in order to store error-messages, error-facilities and error-codes. And we need tools in order to ease the usage of this central service.

After discussion we agreed that the following information need to be transfered in an error/exception-message:

- **error-facility**: The origin-software-package which produced the error.
- **error-code**: Some code to identify the right error-message
- **error-parameters**: Information which needs to be filled into the error-message. (E.g. a filepath, port-numbers, ...)
- **error-message**: A default error-message in english. (Can be used as fallback)
- **(error-severity)**: Is it a critical error or a regular one?

Since some software-packages do not provide the possibility to transfere each of these items in a separate data-container, it probably will be necesarry to agree on some string-standard in order to transfere all/most of the information in a string.

Alexander Schwinn will ask Stephan Deghaye what is his opinion on this proposal, and if we possibly can share the same implementation.

The CCT will figure out who will be in charge of providing the necessary infrastructure, in order to establish a central, multi-language error-message-"database" and all tool which are necesarry to access it.

4. Naming-conventions for properties

Ralf Huhmann proposed to further restrict the naming-conventions which are currently used for properties at GSI.

After some discussion, Jutta Fitzek proposed to re-use the already existing property-attribute "@visibility" to give information about the level of detail.

Currently @visibility can have the states "operational", "expert" and "deprecated". Do we need more possibilities? Which ones?

Ralf Huhmann will check the needs for the application-team and recap the requirements.

5. Detailed-status-item & mode-item

Currently a scalar of the type "bit-enum-32bit" is used to represent class-specific status-details. Since 32 bit are not sufficient for some classes (See recent cosylab-developments), we probably have to replace this scalar by an array.

(Small note: The current name of the value-item is "detailed_status" probably that is as well evil for JAPC. Same for the value-items of the version-property)

Since anyhow changes at the property "Status" are necesarry (E.g. the item "interlock" has to be moved out of the "DEVICE_MODE" enum), we will decide on a concrete re-design of the property "Status" on the next FE-Int meeting.