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Other pages:

Task

Task Leader: Bernardo Carvalho

MARTeframework integration in CODAC Core System
–MARTeframework will be integrated in CODAC SVN repository and deployed as a RPM package. Sampleswill demonstrate the interface with EPICS and CSS tools.
–MARTeframework will allow the production of "processed" signals and related EPICS PVs. It will be possible to setup EPICS thresholds on processed and physical signals.
•Alarm monitors will be invoked if the alarm status or severity has changed – for analogue value, alarm status is changed when the hysteresis condition (EPICS field HYST) - dead band around the alarm limits, is met. Archive and value change monitors will be invoked if EPICS field ADEL – archive dead band, and EPICS field MDEL – monitoring dead band, conditions are met.
•Smoothing filter to reduce noise on the input signal (EPICS field SMOO). This field will also apply to a processed signal by MARTe.

Sub-Tasks:
3.1. MARTe adaptation to CODAC
3.1.1. IEEE-1588-2008 High Level Driver
3.1.2. EPICS integration
3.1.3. Testing

3.2. Integration with CSS tools
3.2.1. Translation to MARTe configurations
3.2.2. Testing

3.3. Integration into CODAC

3.4. Deployment RPM package

3.5. Test Package
3.5.1. Design
3.5.2. Development
3.5.3. Test

3.6. Samples and Demonstration
3.6.1. Design
3.6.2. Development
3.6.3. Test

3.7. Documentation
3.7.1. Instalation and User Manuals

3.8 . Support