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OPC-UA communication

The OPC-UA server will run on the ELMBs CCPC (TBC). In the ComLab, the pclhcb33 machine is emulating this CCPC. The OPC-UA client is running on this machine (change the options to be -num 9 -event lbrichecs01:11612 -data lbrichecs01:11611). Moreover, you need to change the URL under System Management -> Driver OPC -> OPC UA client of the R2DCS1 project to point to pclhcb33.

Voltage devices

Humidity and pressure sensors are declared under the corresponding ELMB node as Direct ADC Voltage devices. The converted values are obtained by declaring the devices under the AnalogDigital node in the D&N, and by setting the corresponding DP function config.

Alarm settings

Following the LHCb ECS guidelines, not acknowledgeable alarms will be used (`_fwFatalNack` (ERROR), `_fwErrorNack` (Too Low), `_fwWarningNack` (WARNING)).

Temperatures (value) limits: 5, 30, 40

Humidity limits: 5, 50, 70

Archives settings

LV (MeasurementSenseVoltage, MeasurementCurrent): Deadband AND time: 30 minutes, 0.5 absolute value.

Temperatures (value): Deadband AND time: 30 minutes, 0.5 degrees.

Raw voltages (value): Deadband AND time: 30 minutes, 1 mV.

Converted values (AI: humidities, pressures...): Deadband AND time: 30 minutes, 0.5 absolute value.

-- GiovanniCavallero - 2019-09-05

This topic: LHCb > RichUpDCS

Topic revision: r5 - 2019-11-01 - GiovanniCavallero



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