

TECH NOTE : Very slow sample rates in catman

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Abstract

The TechNote describes how to handle very slow sample rates in catman (<1Hz). This is necessary e.g. in monitoring applications.

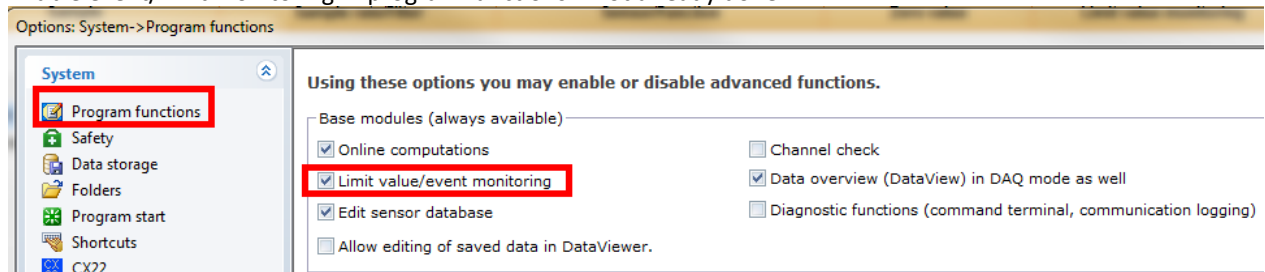
Step by Step description

This example is done with a QuantumX module.

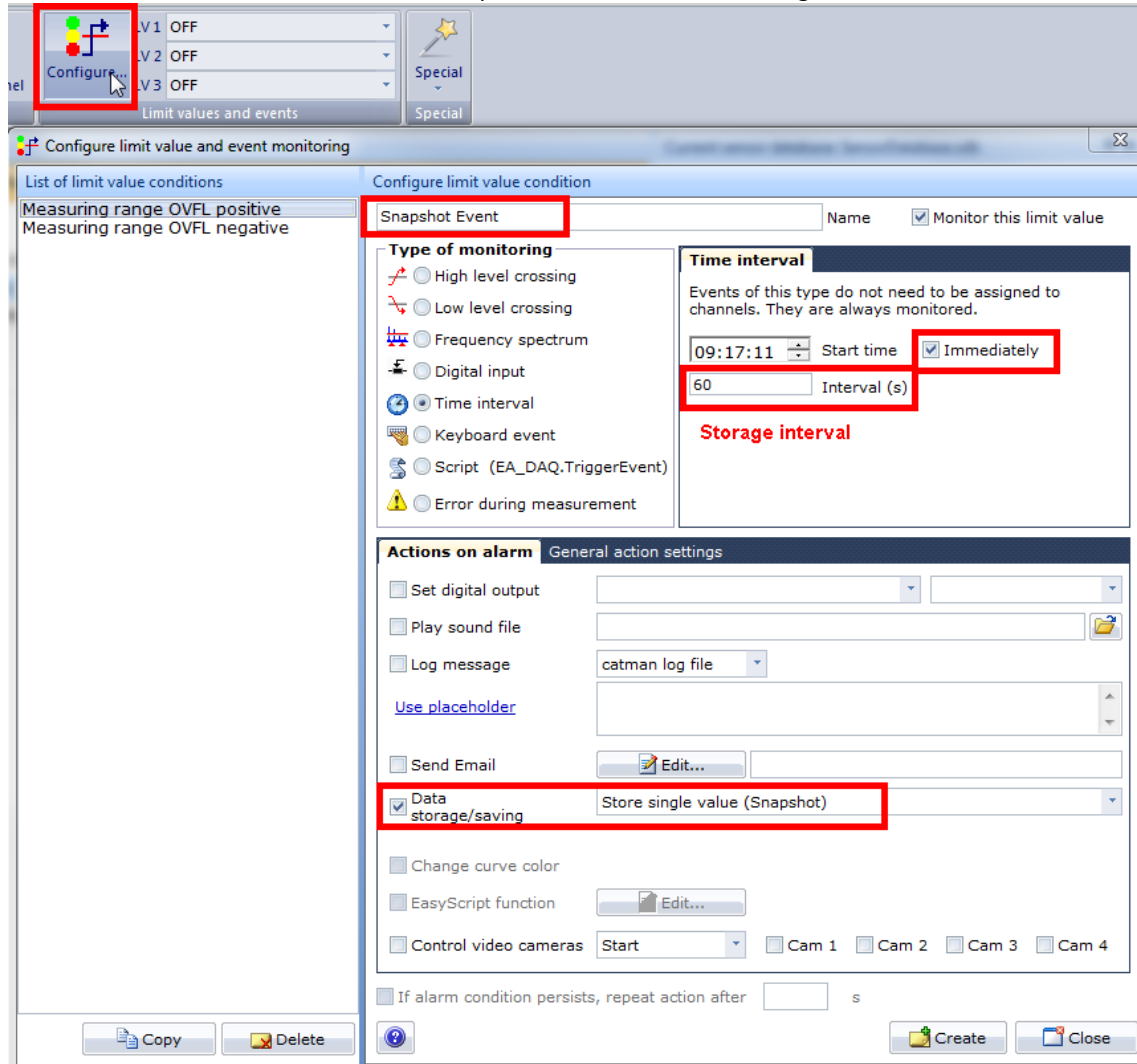
1. Choose a sample rate of 10Hz for all channels in default sample rate group

-	Channel name	Sample	Sample rate/Filter	Sensor/Function
MX840A TM	Time 1 - default sample rate			Time from sample rate
U9B 200N	4,061 N		10 Hz / BE 2 Hz (Auto)	U9B (SG full bridge)
WI +/-5mm	-2,462 mm		10 Hz / BE 2 Hz (Auto)	WI (Inductive half bridge)

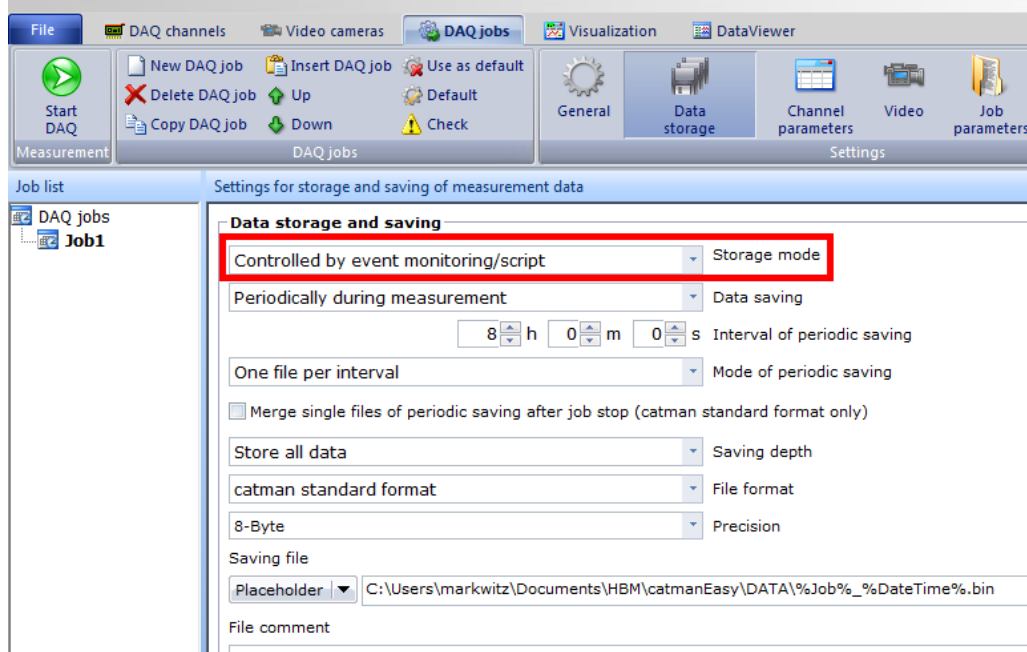
2. Enable event/limit monitoring in program functions if not already done



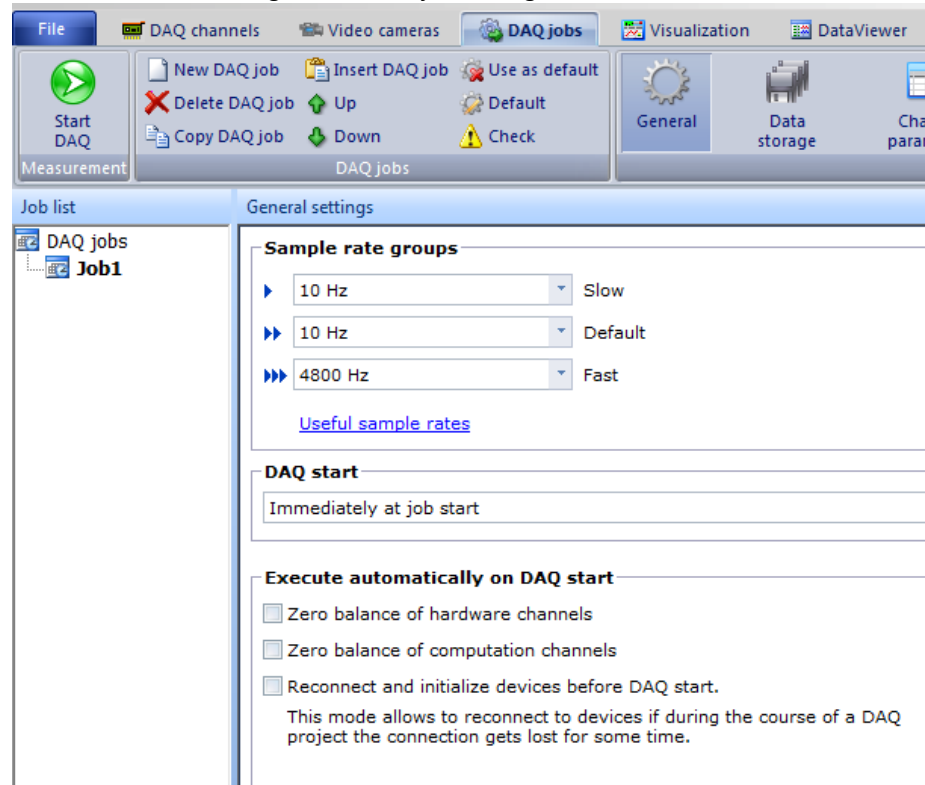
3. Create a new time interval event with a snapshot action and define storage interval



4. In the data storage settings please choose storage mode “Controlled by event monitoring/script”. For long term measurements it is useful to also select “Data saving – Periodically during measurement”



- Leave the default settings in the DAQ job settings



- Start DAQ
- After DAQ stop, switch to Analysis mode and visualize the data in a post process graph. For a correct display of the x-axis you have to drag and drop the default sample rate on to the x axis.

