BNCS Alarm System

Atos IT Services

Alarm System

Configuration File Description

BNCS input Module

alm_acq_nnnn.cfg

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1 Introduction

This document describes the BNCS alarm acquisition configuration files.

The intended audience for the document is system developers and system maintainers.

The various files store the configuration settings for the alarm system's modules for input from the BNCS network.

Note that this file should only be edited using the configuration tools.

2 Location

The input configuration files are located at:

`%CC_ROOT%\%CC_SYSTEM%\config\alarms\x\inputs\al_aq_nnnn.cfg`

where "x" is the alarm system name and "nnnn" is the unique input module number.

3 File Contents

The file is in the standard Windows ini file format, with a ".cfg" extension.

For details of the "System" section see the generic IO file documentation and the example.

For each input there is a section called "Input_nnnn" where nnnn is a unique number. For example "[Input_0001]"

Within each section the following may be specified.

Name	Required	Details
Name	Yes	Name of the input. If the input is specified using New Input from Instances the default for this name will be the instance and parameter concatenated.
SourceInstance	Must both be present, or Source	Instance name is used with parameter name to generate device and slot number.
SourceParameter		
Source	Either Source, or both SourceInstance and SourceParameter must be present.	Explicit driver type, device number and slot number.

Name	Required	Details
SourceType	Yes	Specifies how the incoming divertive data is interpreted. The value must be one of the following: Discrete Analogue AlarmInput
OK	Either OK or Alarm must be present.	Specifies the set of values, or range, to be used to signal either an alarm or ok condition.
Alarm		
Holdoff	Required only if hold-off is configured	Floating-point number giving hold-off time, in seconds.
ChatterPeriod	Both are required if chatter filtering is required.	Floating-point number giving period over which chatter will be counted. In seconds. 0.1 second resolution.
ChatterThreshold		Integer giving number of transitions required within chatter period to signal fault or OK condition.
PulseStretchPeriod	Both are required if pulse-stretch (hold-on) filtering is required.	Floating-point number giving stretch time. In seconds. 0.1 second resolution.
PulseStretchTrigger		Indicates which edge of the incoming signal triggers the start of the stretched pulse. Negative Positive
;		comment

3.1 Example File Contents

Sample contents for alarm system BNCS input configuration file.

```
[System]
Module=alm_bncs_acq
Name=Axon_Inputs
```

```
ConfigTool=Home/Alarms/Inputs/cBNCS acquisition
[Input_0003]
Name=AXON_10_PSU_Bottom
SourceInstance=AXON_10
SourceParameter=PSU_Bottom
SourceType=Discrete
OK=1
[Input_0004]
Name=AXON_10_PSU_Top
SourceInstance=AXON_10
SourceParameter=PSU_Top
SourceType=Discrete
OK=1
```

4 Version History

Version numbers shown here may not be seen within the software itself. The implementation date is a more reliable way of determining whether a particular issue is present in any particular instance of the software.

Version	Date	State / Changes	Author
0.1	09/11/2006	Initial document created	Mark Baldry
	29/01/2015	Document revised to current conventions and template.	Richard Kerry

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