BNCS Alarm System

Atos IT Services

BNCS

Alarm System

Configuration File Description

Database Output Module

al_out_nnnn.cfg

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1 Introduction

This document describes the database alarm output configuration files.

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

These files store the configuration settings for the alarm system's modules for output logging to an SQL database.

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

2 Location

This configuration module writes files named in the format al_out_<nnnn>.cfg, where <nnnn> is the output module number.

The files are located at:

```
%CC_ROOT%\%CC_SYSTEM%\config\alarms\x\outputs\al_out_nnnn.cfg
```

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

3 File Contents

The file is in the standard Windows ini file format, but has the extension ".cfg".

3.1 [System] Section

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

In addition to the generic items in the "System" section the following are required:

Item Name	Example	Description
dbHost	192.168.0.14	Address of the primary database server
dbDatabase	bncs_alm	Name of the primary database
dbUser	bncs	User name for primary database
dbPassword	psion	Password for primary database
dbDriver	QMYSQL3	Database driver for primary database Either QMYSQL3 or QODBC
dbHost2	192.168.0.15	Address of the secondary database server
dbDatabase2	bncs_alm2	Name of the secondary database
dbUser2	bncs	User name for secondary database

dbPassword2	psion	Password for secondary database
dbDriver2	QMYSQL3	Database driver for secondary database Either QMYSQL3 or QODBC
Bncs_log_driver		The BNCS driver number that the driver appears as on the network.

If any of dbHost2, dbDatabase2, dbUser2, dbPassword2, dbDriver2 are present the secondary database will be configured.

Within the generic System section certain values must be present, with specific values, for the system to work.

Item Name	Example	
Module	alm_db_output (must be this value)	Alarm plug-in module name to be used when this configuration file is found in an alarm system. This must have this value to ensure that the correct module is used.
ConfigTool	Home/Alarms/Output/database (must be this value)	Config editor plugin to be used, not required to run the application. This must have this value to ensure that the correct editor plug-in is used.

Note: In development usage alm_db_outputdb may be found as the Module setting. This requires a debug version of the module which is not present in delivered systems. If this setting is found it is an accident and should be changed to alm_db_output.

3.2   Process Sections (eg [Proc_0001])

There is one section for each process from the process list which has any database output required.   The section name matches the process name.

Within each section the following may be specified.

Name	Required	Example or Default	Details
OK	No	GPI 1 OK	Text to log for the OK or Forced OK states
Fail	No	GPI 1 Fail	Text to log for the Fail or Forced Fail states
Ack	No	GPI 1 Ack	Text to log for the Acknowledged state
Ignore	No	GPI 1 Ignored	Text to log for the Ignored state
Unknown	No	GPI 1 ???	Text to log for the Unknown state
Latched	No		Text to log for the Latched state

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Name	Required	Example or Default	Details
Device	No	Sat1	The name of the device
UserGroup	No		A user field that can be used as required.
Level	Yes	3	Alarm level: 1=information 2=minor warning 3=major warning 4=minor alarm 5=major alarm

3.3 Example of File Contents

Sample contents for an alarm system database output configuration file.

```
[System]
dbHost=10.160.9.36
dbDatabase=colledia_alarms
dbUser=colledia
dbPassword=colledia
dbDriver=QMYSQL3
bncs_log_driver=280
ConfigTool=Alarms/Outputs/Database
AlmSystem=misc
Module=alm_db_output
Name=database
[MDU_12A12-A_GPI1]
OK=SPG 12A12.44 Fan  OK
Fail=SPG 12A12.44 Fan  fail
Ack=SPG 12A12.44 Fan  ack.
Device=MDU_12A12-A
UserGroup=MDU 12A12-A
Level=3
```

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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	16/11/2006	Initial document	Mark Baldry
	02/02/2015	Document revised to current conventions and template.	Richard Kerry

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