The AlmSet Driver

The AlmSet driver receives North-format alarms and then signals this event by setting an object value within a device. Available for Commander and ObSys.

This document relates to AlmSet driver version 1.0 to 1.1

Please read the *Commander Manual* or *ObSys Manual* alongside this document, available from *www.northbt.com*

Contents

Purpose of AlmSet Driver

The AlmSet driver receives North-format alarms and then signals the specific alarm by setting an object value within a device.

Configure each alarm signal with an alarm text to compare with the received alarm, and an object reference and value to set if it matches. Up to 1000 alarm signals are supported.

The AlmSet driver could be used to trigger an ObView page when a particular user signs-in; or adjust a set point when a specific alarm message is received.

Detailed Operation

Configure the alarm delivery module to deliver North-format alarms to the AlmSet's alarm object (ALARM).

North-format alarms contain six text fields: system, point, condition, priority, and date & time. On receiving an alarm, AlmSet compares the system, point, and condition fields with its list of alarm signals.

Each alarm signal contains an alarm text to compare with the received alarm, and an object reference and value to set if it matches.

The AlmSet Settings object includes options to set how many alarm signals are available (maximum 1000), select case-sensitive alarm text matching, and disable operation of the driver.

Examples

Consider an AlmSet configured with the following alarm signals:

	Alarm Text to Receive	Object to Set	Value to Set
Signal 1	Password Authentication|A Turing|User signed in	S100.RV	AlanHome
Signal 2	Password Authentication|A Lovelace|User signed in	S100.RV	AdaHome
Signal 3	Zip System|Entrance|Door Forced	S2.C6.PP	16

When AlmSet receives an alarm, it matches the first three fields with the list of signals.

Example 1:

Password Authentication|A Turing|User signed in|4|19/05/14|13:36:27

This alarm matches Signal 1, so AlmSet sets object S100.RV with the value 'AlanHome' – changing the ObView application's page.

Example 2:

Zip System|Entrance|Door Forced|2|19/05/14|14:13:01

This alarm matches Signal 3, so AlmSet sets object S2.C6.PP with the value '16' – changing CCTV camera 6 to preset position 16.

Using the Driver

On ObSys and Commander, the AlmSet driver is pre-installed. Once started, you will need to set up the driver before it can receive alarms and set object values.

Starting the Interface

💻 To start an interface using the AlmSet driver, follow these steps:

- → **Start Engineering** your North device using ObSys
- → Navigate to **Configuration, Interfaces,** and set an unused **Interface** to 'AlmSet' to start the particular interface
- → Navigate to the top-level of your North device and re-scan it

The driver setup object (Mc), labelled **AlmSet Settings**, should now be available. If this object is not available, check an interface licence is available and the driver is installed.

Setting up the Driver

💻 To set up the driver, follow these steps:

- → Navigate to the **Alarm Set** object (S*c*). For example, if you started interface 1 with the driver earlier, then the object reference will be 'S1'
- → Set at least one **Alarm Signal** object with the **Alarm Text to Receive** (A), **Object to Set** (O), and **Value to Set** (V)
- → Set the North Device's **Alarm Delivery** (AR) to deliver alarms to AlmSet's **New Alarm** object (S*c*.ALARM)

Checking Communications

Trigger an alarm event on the system. Check that it has been delivered to Alarm Set by reading the **Last Alarm Received** object (LA), and that a signal was set by reading the **Last Signal Set** object (LS).

You can check that an Alarm Signal is able to set its value by reading the **Fail Count** object (F).

Object Specifications

Once an interface is started, one or more extra objects become available within the top-level object of the device. As with all North objects, each of these extra objects may contain sub-objects, (and each of these may contain sub-objects, and so on) - the whole object structure being a multi-layer hierarchy. It is possible to navigate around the objects using the ObSys Engineering Software.

Each object is specified below, along with its sub-objects.

Device Top-Level Objects

When an interface is started using the AlmSet driver, the objects below become available within the top-level object of the device. For example, if interface 1 is started, then the object reference 'M1' becomes available.

Description	Reference	Type
AlmSet Settings Set up the AlmSet driver, started on interface *c* (*c* is the interface number)	M*c*	Fixed Container: On the Commander platform this will be *[CDM v20\AlmSet v11]* On the ObSys platform this will be *[OSM v20\AlmSet v11]*
Alarm Set Configure alarm signals in interface *c* (*c* is the interface number)	S*c*	One of the following, depending on Maximum Signals set in driver. Fixed Container: *[AlmSet v11\100]* *[AlmSet v11\500]* *[AlmSet v11\1000]*

AlmSet Settings

Object Type: *[CDM v20\AlmSet v11]*
Object Type: *[OSM v20\AlmSet v11]*
Object Type: *[CDM v20\AlmSet v10]*
Object Type: *[OSM v20\AlmSet v10]*

The AlmSet Settings contains the following objects for configuring the driver:

Description	Reference	Type
System Label Label displayed when scanning the system	DL	Obj\Text: 20 chars; Adjustable
Ignore Case Determines if an alarm signal is case sensitive when matching text. Available in driver version 1.1 or later	IC	Obj\NoYes; Adjustable
Enable Alarm Signals Enables driver to receive alarms and set object values. Available in driver version 1.1 or later	E	Obj\NoYes; Adjustable
Maximum Signals Set number of alarm signals available. Available in driver version 1.1 or later	MS	Obj\Num: 100, 500, or 1000; Adjustable

Alarm Set

Object Type: *[AlmSet v11\100]*
Object Type: *[AlmSet v11\500]*
Object Type: *[AlmSet v11\1000]*
Object Type: *[AlmSet v10]*

Alarm Set contains the following objects:

Description	Reference	Type
New Alarm Deliver new alarm or text messages to this object for processing	ALARM	Obj\Alarm; Adjustable
Last Alarm Received Last alarm value received by the ALARM object	LA	Obj\Alarm
Last Signal Set Last alarm signal set. Available in driver version 1.1 or later	LS	Obj\Num: 0…1000
Alarm Signal *x* The signal number, x, is a number in the range 1…100, 500, or 1000 (depending on the driver object Maximum Signals)	S*x*	Fixed Container: *[AlmSet v11\Signal]*

Alarm Signal

Object Type: *[AlmSet v11\Signal]*
Object Type: *[AlmSet v10\Signal]*

An Alarm Signal contains an alarm text, and what value to set when the driver receives it.

Description	Reference	Type
Alarm Text to Receive Alarm to signal. This text must match the beginning text of the alarm value set in ALARM object. Matching is case sensitive, unless Ignore Case object is set in driver	A	Obj\Text: 83 chars; Adjustable
Object to Set Object reference to set when alarm text matches	O	Obj\Obj; Adjustable
Value to Set Value to set the object reference	V	Obj\Text: 10 chars; Adjustable
Fail Count Count of how many times the object value has failed to set. A successful action will reset the counter. Available in driver version 1.1 or later	F	Obj\Num: 0…15

Driver Versions

Version	Build Date	Details
1.0	23/05/2013	Driver released
1.1	15/04/2014	Moved Enable object to driver setup. Added Maximum Signals, Ignore Case, and Fail Count objects

Next Steps…

If you require help, contact support on 01273 694422 or visit *www.northbt.com/support*

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