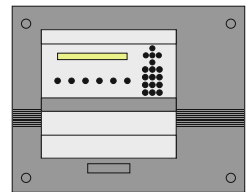


The Notifier Driver



The Notifier driver connects to Notifier ID3000 or compatible fire detection system. Available for Commander and ObSys.

This document relates to Notifier driver version 2.0

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

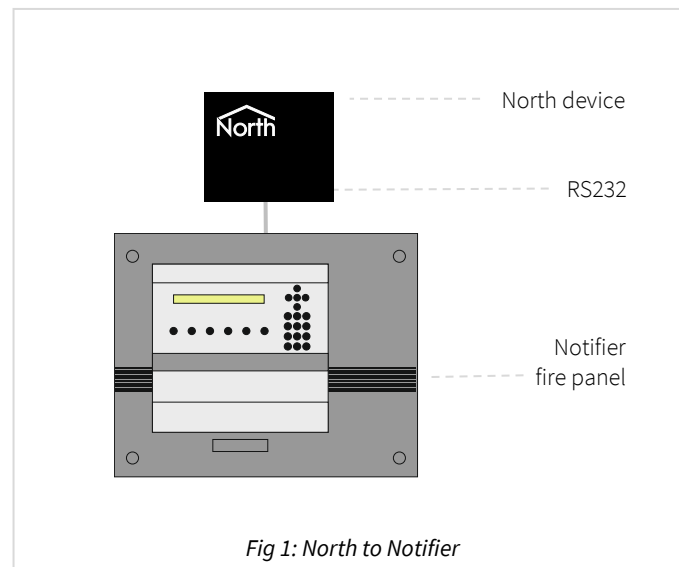
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Compatibility with the Notifier System

The Notifier driver allows North to interface with a Notifier ID3000 or compatible fire detection system.

The driver connects, via RS232, to a compatible Notifier fire alarm control panel (Fig. 1) and can communicate with a network of panels.



Equipment

Notifier fire alarm control panels compatible with the driver include:

- Notifier Inspire series
- Notifier ID3000 series
- Notifier ID50 series
- Honeywell XLS80
- Morley DXc

Values

The driver can typically access the following values:

- | | | |
|---------------------|----------------|----------------------------|
| • Panel information | • System state | • Loop sensor/module state |
| • Reset panel | • Panel state | • Zone state |
| • Sounders | • Loop state | |
| • Evacuate | | |

States for fire, pre-alarm, fault, and disablement conditions are available.

Fire alarm control panels can send alarms to the Notifier driver.

Prerequisites

The driver supports the Notifier Third-Party RS232 Protocol (TPP) with an ID²net peer-to-peer network or stand-alone panel. Configure the connected panel for protocol version 11 (for ID3000) or 12 (for Morley DXc), and half-duplex mode.

To use silence, reset, evacuate commands from the driver, select the Enable Controls option in the panel.

To monitor the North device connection from the panel, select Monitor Faults option in the panel.

Driver Operation

Events from the panel

The driver connects to a Notifier TPP compatible fire alarm control panel, and listens for change-of-state events. These events are processed by the driver to maintain a database of active alarm states in the fire alarm system.

On starting the interface, the driver synchronises its database with the Notifier system by requesting the current active alarms. You can also force a re-synchronisation at any time by using the Resync Interface object (RST).

The driver monitors communication to the panel. If communications are lost, then the fault is reported. Once regained, the driver re-synchronises its database with the panel and operation resumes.

Alarms

When an event is received from the Notifier panel, the driver sends this as a North-format alarm to the device's alarm processing.

Reading from the Notifier System

On reading an object from the Notifier System, the driver typically responds with the state from its database.

When a zone is disabled, the panel does not send individual disablement events for loop devices within the zone. So, when reading a loop device object that includes the disablement state, the driver may request its disablement state from the panel. To reduce the response time for these loop device objects when you do not require disablements reporting, enable the driver's Filter Events (FE) object to 'Ignore Disablements'.

Some loop device objects require the driver to send a request to the panel, including device label (L1), zone label (L2), analogue value (A), device type (TY), and zone number (ZN) . Be mindful of reading these objects too frequently.

Commands to the Notifier System

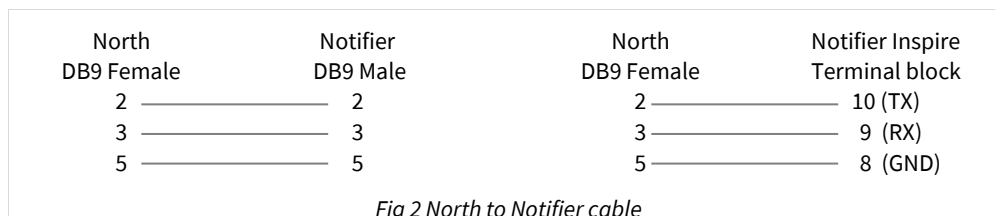
Commands can be sent to a Notifier system. These can be to silence or reset active events on the system, or disable a zone or loop device.

Using the Driver

On ObSys and Commander, the Notifier driver is pre-installed. On all of these North devices, you can use the driver to create an interface to Notifier. Once started, you will need to set up the driver before it can communicate with the Notifier system.

Making the Cable

Using the RS232 cable specification (Fig. 2), connect the North device COM port to the Notifier Panel or serial communication interface module's RS232 port. Connector types at each end of the cable are shown.



The maximum RS232 cable length is 15m and should be as short as possible.

Cables are available from North, order code CABLE/NOTIFIER.

Starting the Interface

- 🖥️ To start an interface using the Notifier driver, follow these steps:
 - **Start Engineering** your North device using ObSys
 - Navigate to **Configuration, Interfaces**, and set a unused **Interface** to 'Notifier' to start the particular interface
 - Navigate to the top-level of your North device, then rescan it

The driver setup object (Mc), labelled **Notifier Setup**, 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 **Notifier Setup** object (Mc). For example, if you started interface 1 with the driver earlier, then the object reference will be 'M1'
 - Set the **RS232 Com Port** (RS.COM) to select which serial port on the North device is connected to the Notifier device
 - Set **Baud Rate** (RS.BR) to match the connected Notifier panel, the default rate is 9600.

Checking Communications

You can check that the interface is communicating by reading the **Comms Online** object (DS). A value of 'Yes' indicates the driver has received a valid message from the Notifier panel.

Alarms

When the Notifier system reports an event to the driver, the driver sends a North-format alarm to the device's alarm processing.

Format

North-format alarms contain six text fields. The Notifier driver places the following information into these fields:

System – copied from System Label object (DL) within driver setup

Point – see Point Field section below

Condition – see Condition and Priority Field section below

Priority – see Condition and Priority Field section below

Date & Time – see Date & Time Field section below.

Examples

System	Point	Condition	Priority	Date	Time
Notifier System	Panel 4 Loop 1 Mod 1 Zone 100 MCP	Fire	1	01/03/24	14:29:48
Notifier System	System	Alarms Silenced	3	01/03/24	14:30:15
Notifier System	System	Reset	1	01/03/24	14:34:52
Notifier System	Panel 4 Loop 1 Mod 1 Zone 100 MCP	Fire Cleared	1	01/03/24	14:34:52
Notifier System	Zone 100	Disabled	2	03/03/24	08:35:26
Notifier System	Zone 100	Enabled	2	03/03/24	09:15:03
Notifier System	Panel 4 Loop 1 Dev 2 Zone 100	Device Missing	3	03/03/24	09:16:23
Notifier System	System	Reset	1	03/03/24	06:54:31

Point Field

Selected by the **Alarm Point Field** object (AT) within driver setup.

If 'PLD reference' option is selected, Point field can be:

System
Panel *a* Loop *b*
Panel *a* Loop *b* Dev *c*
Panel *a* Loop *b* Mod *c*
Panel *a* Zone *z*
Zone *z*

In addition, if the module is a manual call point, then 'MCP' will be appended to the point field.

If 'Detector label' option is selected, Point field contains:

Panel *a* + *device location* from the panel

Date & Time Field

The Date field is provided by the North device.

The Time field is selected by the **Alarm Date & Time Field** object (A.TS) within driver setup. If 'Panel' option is selected, the time is provided by the panel. If 'North device' option is selected, the time is provided by North device.

Condition and Priority Field

The following alarm conditions can be sent by the driver:

Condition	Priority
Evacuate	1
Fire	1
Fire Cleared	1
Reset	1
Disabled	2
Enabled	2
Fire (First)	2
Pre-Alarm	2
Technical Alarm	2
Alarms Re-Sounding	3
Alarms Silenced	3
Battery Fail	3
Battery Voltage Low	3
Booster Fault	3
Buzzer Silenced	3
Charger Fault	3
Command Error	3
Communications Lost	3
Communications Regained	3
Corrupt Data	3
Device Missing	3
Device Missing Cleared	3

Condition	Priority
Duplicate Address	3
Earth Fault	3
Fault	3
Fault Cleared	3
Input Open Circuit	3
Input Short Circuit	3
Loop Fault	3
Network Comms Fault	3
Output Open Circuit	3
Output Short Circuit	3
PSU Fault	3
PSU Fault Cleared	3
Service Required	3
Short Circuit	3
Supply Fault	3
Wrong Device Type	3
Outputs Disabled	4
Outputs Enabled	4
Sounder Disabled	4
Sounder Enabled	4
System Initialising	4

Notes

The priority field is typically used as follows:

- 1 – fire and evacuate events
- 2 – pre-alarm, security, isolation, and technical events
- 3 – fault events
- 4 – status events

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.

Example Object Reference

An example of a reference to an object in the same device: The Notifier (S1) contains Panel 4 (P4), which contains a Condition (C). Therefore, the complete object reference is 'S1.P4.C'.

An example of a reference to an object in a different device: the IP network object (IP) contains Default Commander object (CDIP), which contains the object above (S1.P4.C) – therefore the complete object reference is 'IP.CDIP.S1.P4.C'

Device Top-Level Objects

When an interface is started using the Notifier driver, the objects below become available within the top-level object of the device. For example, if interface 1 is started, then the object references 'M1' and 'S1' become available.

Description	Reference	Type
Notifier Setup Set up the Notifier driver, started on interface c (c is the interface number)	Mc	Fixed Container: On the Commander platform this will be <i>[CDM v20\Notifier v20]</i> On the ObSys platform this will be <i>[OSM v20\Notifier v20]</i>
Notifier System Access Notifier system connected to interface c (c is the interface number)	Sc	Fixed Container: <i>[Notifier v20]</i>

Notifier Driver Setup

Object Type: *[OSM v20\Notifier v20]*

Object Type: *[CDM v20\Notifier v20]*

The Notifier driver contains the following objects:

Description	Reference	Type
RS232 COM Port	RS.COM	Obj\Num:1...8; Adjustable
Baud Rate	RS.BR	Obj\Num: 2400 to 38400; Adjustable
System Label Label displayed when scanning the system and within alarms	DL	Obj\Text: 20 chars; Adjustable
Standalone Panel Indicates only a single panel is connected	SA	Obj\NoYes; Adjustable
Connected Panel Address In networked mode, address of connected panel	PA	Obj\Num; Adjustable
Comms Online Indicates whether communication is established with the panel	DS	Obj\NoYes
Alarm Point Field Selects source of the alarm message point field	AT	Obj\Enum; Adjustable Values: 0=PLD reference, 1=Detector label
Event Storage Available Each event from the system must be remembered by the driver. If no storage is available for a new event, the driver will not be able to remember it.	SC	Obj\Num: 0...1500
Resync Interface Clears the internal database and re-establishes communication with the Notifier system	RST	Obj\NoYes; Adjustable
Filter Events Stop the driver listening for particular event types or panels. This provides more event storage for other event types.	FE	Fixed Container: On the Commander platform <i>[CDM v20\Notifier v20\Filter]</i> On the ObSys platform <i>[OSM v20\Notifier v20\Filter]</i>
Advanced Settings	A	Fixed Container: On the Commander platform <i>[CDM v20\Notifier v20\Advanced]</i> On the ObSys platform <i>[OSM v20\Notifier v20\Advanced]</i>

Notifier Driver Advanced Settings

Object Type: [OSM v20\Notifier v20\Advanced]

Object Type: [CDM v20\Notifier v20\Advanced]

The driver advanced settings contains the following objects:

Description	Reference	Type
Alarm Date & Time Source Selects source of alarm message time field. The date field is always provided by the North device	TS	Obj\Enum; Adjustable Values: 0=North device, 1=Panel
Allow Date & Time Updates Allow updating of Commander's date and time from the panel. Only available on Commander platform	TA	Obj\NoYes; Adjustable
Network Smart Scan Smart Scan will perform comms with panel to detect it's presence	NS	Obj\OffOn; Adjustable

Notifier Driver Filter Events

Object Type: [OSM v20\Notifier v20\Filter]

Object Type: [CDM v20\Notifier v20\Filter]

Each event from the Notifier system must be remembered by the driver. On a large Notifier fire alarm system with a significant number of active events at any one time, use this object to select which event types are ignored by the driver – disablement, fault, pre-alarm events, etc.

If more event storage is required, use multiple interface connections to the system, with each Notifier driver configured to store events for a particular range of panels.

Description	Reference	Type
Ignore Disablement events Enable to ignore disablement events from the system	I.C1	Obj\NoYes; Adjustable
Ignore Fault events Enable to ignore fault events from the system	I.C2	Obj\NoYes; Adjustable
Ignore Pre-Alarm events Enable to ignore pre-alarm events from the system	I.C3	Obj\NoYes; Adjustable
Ignore Fire events Enable to ignore fire events from the system. This provides more event storage for other event conditions	I.C4	Obj\NoYes; Adjustable
Store events from panel (start) Lowest address of network interface panel to store events from	PS	Obj\Num: 0...125; Adjustable
Store events from panel (end) Highest address of network interface panel to store events from	PE	Obj\Num: 0...125; Adjustable

Notifier System

Object Type: *[Notifier v20]*

The Notifier system is a network of fire alarm control panels. It contains objects to view the status of the whole system (P), and access information from each connected panel (Px).

Description	Reference	Type
Zone & System Summary	P	Fixed Container: <i>[Notifier v20\System]</i>
Panel x Panel number, x, can be in the range 1...125	Px	Fixed Container: <i>[Notifier v20\Panel]</i>

Zone and Summary Information

Object Type: *[Notifier v20\System]*

The Zone and System Summary object contains zone, and network-wide status for the Notifier system. Objects are also available to perform network-wide commands – reset, silence, etc.

Description	Reference	Type
System Information	I	Fixed container: <i>[Notifier v20\System\Info]</i>
Commands Contains objects for resetting latched events, silencing sounders and muting buzzer for all panels on network	A	Fixed container: <i>[Notifier v20\Actions]</i>
System Alarm State	C	Obj\Enum: 0...4; Where: 0=Ok, 1=Disablement, 2=Fault, 3=Pre-Alarm, 4=Fire
System OK	C0	Obj\NoYes
Disablement	C1	Obj\NoYes
Fault	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Zone x The network zone number, x, is in the range 1...8192	Zx	Fixed container: <i>[Notifier v20\Zone]</i>

System Information

Object Type: *[Notifier v20\System\Info]*

The System Information contains the following objects.

Description	Reference	Type
Networked Zones Indicates unique network-wide zone numbers are in use, and not panel-based zones	NZ	Obj\NoYes
Panel Software Version	SW	Obj\Float
Protocol Version This driver supports version 11 and 12	NP	Obj\Num
Panel Language	PL	Obj\Text
Connected Panel Address	PA	Obj\Num
Test in Progress	S5	Obj\NoYes

Actions

Object Type: [Notifier v20\Actions]

Use Actions to perform an action on a Notifier fire alarm control panel. Actions include reset, silence sounders, re-sound sounders, mute buzzer, and evacuate.

Description	Reference	Type
Reset	R	Obj\NoYes; Adjustable-only
Sounders Silence or re-sound sounder outputs	S	Obj\OffOn; Adjustable-only
Evacuate Trigger evacuate	E	Obj\NoYes; Adjustable
Buzzer Mute buzzer	B	Obj\OffOn; Adjustable

Zone

Object Type: [Notifier v20\Zone]

A Zone contains the following objects:

Description	Reference	Type
Zone Alarm State	C	Obj\Enum: 0...4; Adjustable Where: 0=OK, 1=Disablement, 2=Fault, 3=Pre-Alarm, 4=Fire. Adjust: 0=Enable, 1=Disable
Zone OK	C0	Obj\NoYes
Zone Device Disablement Indicates whether the zone is fully disabled or any devices in the zone are disabled (partial). Adjust to disable or enable the full zone.	C1	Obj\NoYes; Adjustable
Zone Device Fault	C2	Obj\NoYes
Zone Device Pre-Alarm	C3	Obj\NoYes
Zone Device Fire	C4	Obj\NoYes

Panel

Object Type: *[Notifier v20\Panel]*

A Notifier Panel contains the following objects.

Description	Reference	Type
Panel Alarm State Alarm state of the panel and its attached devices.	C	Obj\Enum: 0...4; Where: 0=OK, 1=Disablement, 2=Fault, 3=Pre-Alarm, 4=Fire
Panel OK	C0	Obj\NoYes
Disablement	C1	Obj\NoYes
Fault	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Loop x The Loop number, x, is dependent on the panel, but can be in the range 1...8.	Lx	Fixed Container: <i>[Notifier v20\Loop]</i>
Zone The panel-local Zone number, y, is in the range 1...255. Object available when not in Networked Zone mode.	Zy	Fixed Container: <i>[Notifier v20\Zone]</i>

Loop

Object Type: *[Notifier v20\Loop]*

A Loop contains the following objects:

Description	Reference	Type
Loop Alarm State	C	Obj\Enum; 0...4; Where: 0=OK 1=Disablement, 2=Fault, 3=Pre-Alarm, 4=Fire
Loop OK	C0	Obj\NoYes
Device Disablement Indicates one or more devices within the loop are disabled, excludes zone disablements	C1	Obj\NoYes
Faults	C2	Obj\NoYes
Pre-Alarm	C3	Obj\NoYes
Fire	C4	Obj\NoYes
Sensor x A sensing input device, such as a heat, ionization or optical sensor. The sensor number, x, is in the range 1...156	Dx	Fixed Container: <i>[Notifier v20\Sensor]</i>
Module y An I/O type device such as an MCP, control output, interface, etc. The module number, y, is in the range 1...99	My	Fixed Container: <i>[Notifier v20\Module]</i>

Device

Object Type: [Notifier v20\Sensor]

Object Type: [Notifier v20\Module]

A Sensor or Module loop device contains the following objects.

On reading an object from the Notifier System, the driver typically responds with the state from its database.

When a zone is disabled, the panel does not send individual disablement events for loop devices within the zone. So, when reading a loop device object that includes the disablement state, the driver may request its disablement state from the panel. To reduce the response time for these loop device objects when you do not require disablements reporting, enable the driver's Filter Events (FE) object to 'Ignore Disablements'.

Be mindful of reading the following objects too frequently, as they send a request to the panel. Device label (L1), zone label (L2), analogue value (A), device type (TY), and zone number (ZN) .

Description	Reference	Type
Device Alarm State	C	Obj\Enum: 0...4; Adjustable Where: 0=OK, 1=Disablement, 2=Fault, 3=Pre-Alarm, 4=Fire Adjust: 0=Enable, 1=Disable
Device OK	C0	Obj\NoYes
Device Disabled	C1	Obj\NoYes; Adjustable
Device in Fault	C2	Obj\NoYes
Device in Pre-Alarm	C3	Obj\NoYes
Device in Fire	C4	Obj\NoYes
Device Label	L1	Obj\Text
Device Type	TY	Obj\Num: 0...36 0=None
Analogue Value Percentage of the default alarm threshold for the device type	A	Obj\Num: 0...100
Zone Number	ZN	Obj\Num: 0, 1...8192
Zone Label	L2	Obj\Text

Driver Versions

Version	Build Date	Details
1.0	28/02/2003	Driver released
1.0	30/01/2006	Optimisations
1.0	20/06/2008	Support for different event message layout
1.1	16/12/2008	Add module objects PT, AT, RA, RD Add C objects Add isolate Add new commands for reset, etc Add panel status object Add support for panel/system events (e.g. zone events)
1.1	07/06/2022	Fix: corruption of device label when isolating modules or sensors
1.1	30/06/2022	Mod: Action objects (adjustable-only) changed to read “ instead of ‘0’. Resolving an issue when adjusting via Essential Data.
2.0	01/07/2025	Complete re-work of the driver incorporating latest Third-Party Protocol, including change or operation to use contemporary options: ID ² net, half-duplex. Removed master-slave, and full-duplex support. No longer support discontinued ID1000 and ID2000 protocols. Any existing driver (v1.1 or earlier) configuration will wipe on update. Various object reference changes related to updated protocol and operation. Add Connected Panel Address driver object (PA), as panel does not always provide this information.
2.0	10/06/2026	Fix: Resolved an issue with database maintenance. If the last database entry was cleared, then this may clear all entries. Fix: Resolved an issue setting Alarm Point Field (SC) driver object.

Next Steps...

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



North Building Technologies Ltd
+44 (0) 1273 694422
support@northbt.com
www.northbt.com

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Author: JF
Checked by: NB

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