

# DNAFusion

## Alarm Panel Integration

## Installation

&

## Setup

### ***In This Guide***

- ✓ Installation
- ✓ Configuration
- ✓ Managing Panels



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# Installation

# 1

## *In This Chapter*

- ✓ Installing the DNA Alarm Panel Service
- ✓ Configuring the Service

The DNA Fusion DMP Integration is the ideal choice for organizations that require centralized control, monitoring and alarm management of a building's security systems. Alarms and transactions from the DMP panels are blended seamlessly into the DNA Fusion, becoming part of the standard Fusion alarm monitoring and reporting system. The result is an access control system that is ideally suited to meet the needs of any organization.

An operator can arm or disarm areas, force arm areas, mask/unmask zones and handle alarms. Automated operation is achieved using triggers and macros. For example, an area can be armed or disarmed automatically at specified times, or in response to an access-control transaction from a specified card holder, making the process of arming the system and locking doors as easy as swiping a card.

DNA Fusion currently integrates with the following intrusion detection panels:

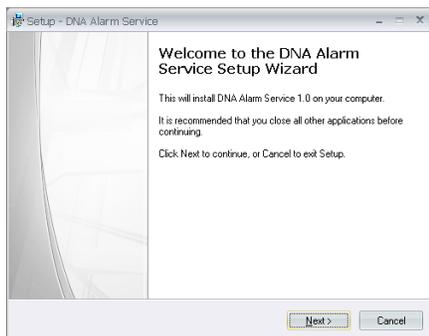
- Bosch
- DMP XR500N

## Installation

The DMP Integration installation process is very straightforward and can be performed without any knowledge of the software.

1. **Obtain** the DMP Integration application from Open Options Technical Support.
2. **Double click** the Intercept Setup.exe icon.

The Welcome Screen appears.



2. **Click** Next to continue the installation.

The Location screen appears.

3. **Click** Next to accept the default location.

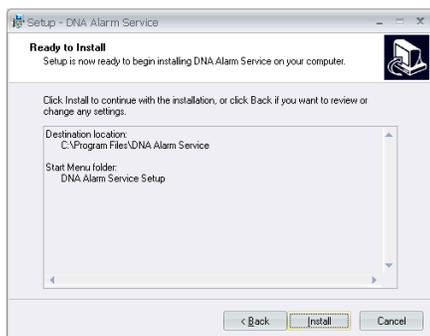
C:\Program Files\DNA Alarm Service

4. **Click** Next to accept the default Start Menu location or **click** the Browse button to select a different folder.



The Ready to Install screen appears.

5. **Click** the Install button to start the installation process.



Installation will begin.

6. When prompted, **click** the Finish button.

The DNA Alarm Service installation is complete.

# Configuring the Panel 2

## ***In This Chapter***

- ✓ DMP Configuration
- ✓ Bosch Configuration

The Fusion software is able to upload details of the panels, zones, areas and outputs configured on selected intrusion systems. The current status of devices is conveniently displayed in the Hardware browser.

## **Alarm Service Configuration**

1. **Select** Start / All Programs / DNA Alarm Service Setup / DNA Alarm Panel Setup.

The DNA Alarm Panel Setup dialog will open.

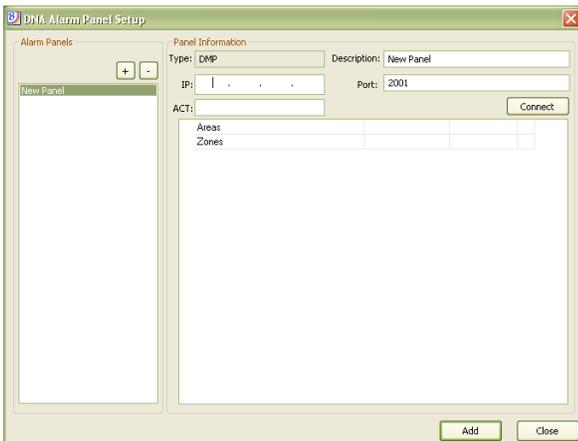
2. **Click** the Add Panel  button.

The Select Panel dialog opens.



3. **Select** the correct panel from the drop down list and **click** OK.

The Panel is added to the DNA Alarm Panel Setup dialog.



4. **Follow** the instructions for the different panel types.

- DMP Panel - See page 2-3
- Bosch - See page 2-4

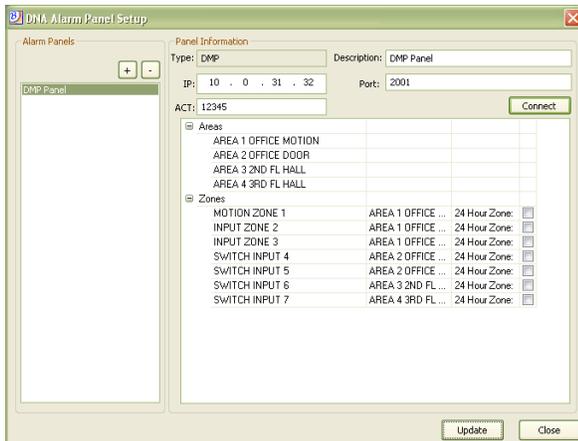
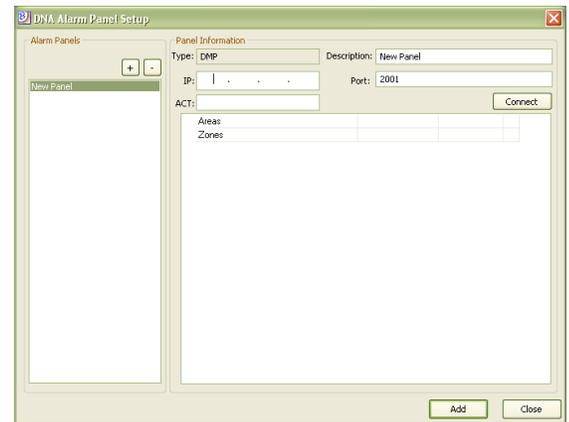
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## DMP Panel Configuration

After the panel has been added, follow the steps below to complete the DMP panel configuration.

1. **Enter** a Description and the panel's IP Address.
2. **Enter** the Account Number in the ACT field.
3. With the DMP panel selected, **click** the Connect button.

Once the connection has been established, all predefined Areas and Zones will automatically be pulled into the Alarm Service dialog.



An Area is a group of points; while a Zone is an input.

4. **Select** the Area drop down in the Zones section and **select** the desired Area for the Zones.

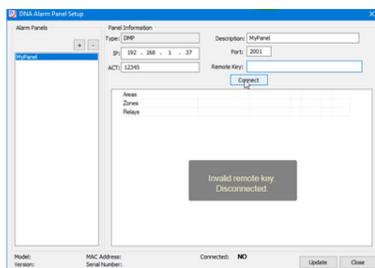


5. If needed, **select** the 24 Hour Zone checkbox.

A 24 Hour Zone is not turned on or off by arming or disarming the system. A 24 Hour Zone is always armed. Some examples of 24 Hour Zones are: fire loops, panic loops, and temperature control loops.

6. **Click** the Update button.
7. **Restart** DNAFusion to add the panel to the system.

If you are receiving an Invalid Remote Key Disconnected Message as show below, you will need to perform the following steps:



1. You will need to remove Remote Key from the panel by initially **Connecting** or **Shorting** the contacts of the *Reset Jumper* to cause the Panel to go into *Programming Mode*.
2. **Enter** the Code 6653 and **Press** the *CMD* key on the Keypad
  - a. The Keypad should Display "PROGRAMMER"
3. **Press** and **Release** the *CMD* key until you see "REMOTE OPTIONS"
4. **Press** the *Upper Left* key, otherwise known as the *Left Upper Corner Key*, Twice to clear the existing Remote Key.
5. **Press** and **Release** the *CMD* key until you see "STOP"
6. **Press** the *Upper Left* key (*Left Upper Corner Key*)
  - a. The Keypad will now display "Please Wait" if done Correctly
7. **Press** the *Upper Left* key to **Stop** any Alarms

If you press the wrong key at any point you will need to start the process over. For help in performing this process, please contact technical support.

## Bosch Panel Configuration

Once the panel is added, follow the steps below to complete the Bosch panel configuration.

1. **Enter** a Description and the panel's IP Address.

If the panel does not connect, verify that the IP address is correct.

2. **Click** the Add button to save the panels information.

The panel is added to the dialog.

3. **Click** the Add Areas button.

The Add Areas dialog opens. An area is made up of points that can be armed or disarmed together.

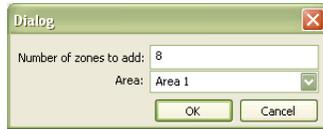


4. **Enter** the number of Areas and **click** OK.

The Areas will appear in the DNA Alarm Panel Setup window. To change the area name, **select** the Area and **enter** the new name.

5. **Click** the Add Zones button.

The Zones dialog opens. A Zone is an input point.



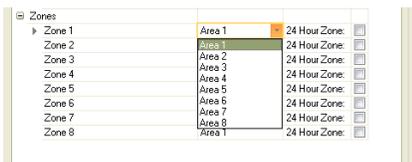
6. **Enter** the number of Zones and **select** the desired the Area from the drop down list.

The Zones will appear in the DNA Alarm Panel Setup window. To change the zone name, **select** the Zone and **enter** the new name.

7. **Click** OK.

The Zones will appear in the DNA Alarm Panel Setup window.

8. **Select** the Area drop down in the Zones section and **select** the desired Area for the Zones.

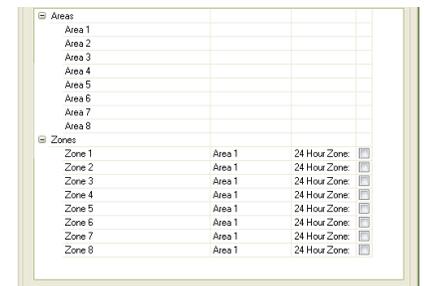
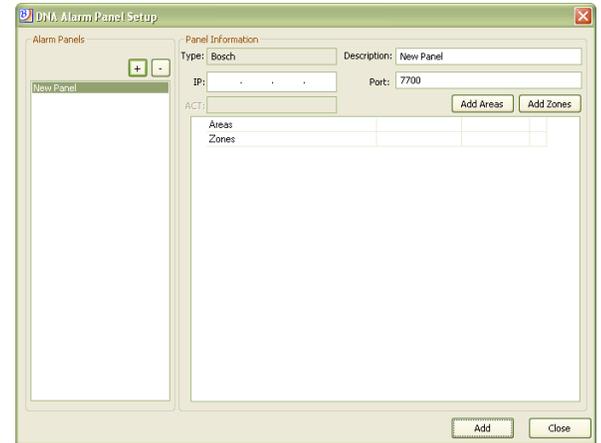


9. If needed, **select** the 24 Hour Zone checkbox.

A 24 Hour Zone is not turned on or off by arming or disarming the system. A 24 Hour Zone is always armed. Some examples of 24 Hour Zones are: fire loops, panic loops, and temperature control loops.

10. **Click** the Update button.

11. **Restart DNAFusion** to add the panel to the system.





## Configuring the DX4020 to DNAFusion

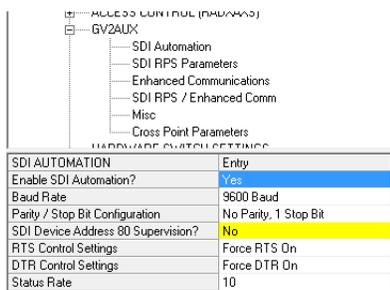
After configuring the DX4020 to talk to the Bosch RPS System, the DX4020 will need to be setup to communicate to the DNA Alarm service.

1. **Set** the dipswitches for 1, 2 and 3 to ON and the rest to OFF (Address 88).
2. **Connect** to Port 9999 using Telnet.
3. **Configure** Channel 1 settings as follows.
  - Baud Rate: 9600
  - I/F Mode: 4C
  - Flow: 00
  - Port No: 7700
  - ConnectMode: CC
  - Datagram Type: 02
4. **Log in** to RPS with the following default login information:
  - User Name: admin
  - Password: 1111
5. **Add** a new panel and **select** D7412GV2 from the list.
6. **Select** the Network tab and **enter** the DX4020's IP Address.



*The initial IP Address is set via arp commands. See page 40 in the DX4020 manual.*

7. **Click** OK.
8. **Double click** the newly added panel to open the Panel View.



9. **Click** the Connect  button in the Panel View to send the setting to the panel. The Panel Communication dialog will open.

10. **Click** the Connect button.

A prompt will appear to send the changes to the panel.

11. **Set** the dipswitches for 1, 2, 3 and 4 to ON and the rest to OFF (Address 80).

12. **Connect** to Port 9999 using Telnet.

13. **Configure** Channel 1 settings as follows.

- Baud Rate: 9600
- I/F Mode: 4C
- Flow: 00
- Port No: 7700
- ConnectMode: C0
- Send '+++' in Modem Mode: N
- Auto increment source port: N
- Remote IP Address: 000.000.000.000
- Remote Port: 0
- DisConnMode: 02
- Flush Mode: 00
- DisConnTime: 00:00

# Managing the Panels 3

## *In This Chapter*

- ✓ Controlling the Zones & Areas
- ✓ Handling Alarms from the Panels

The DNAFusion Alarm Panel integration allows the operator to view alarms and control intrusion panels from within Fusion. Depending on the selected panel, the control options will be different.

## Controlling the Zones & Areas

A zone is an intrusion input; while an area is a group of points that have been joined together to form an area.

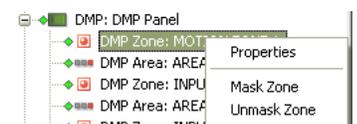
### ***DMP Panel Control***

To properly arm the system, all points (doors, windows, etc.) in the system must be in the normal condition.

#### **Zone Control**

A zone is an input point that is usually used for the purpose identifying alarms or trouble in a system. Multiple zones are typically assigned to an area so that all of their protection devices combined provide for the complete protection of the premises.

1. **Right click** on the desired Zone in the DNA Fusion Hardware Browser.
2. **Select** the command from the list.

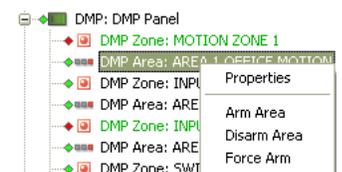


- Mask Zone - Zones that are masked will not send alarms to DNA Fusion. A zone remains masked until it is unmasked.
- Unmask Zone - When a Zone is unmasked, a change in its normal state causes the panel to activate an alarm.

#### **Area Control**

An Area is part of a protected premise that is programmed to operate separately from other areas.

1. **Right click** on the desired Area in the DNA Fusion Hardware Browser.
2. **Select** the command from the list.



- Arm Area - Turns on the alarm protection for the area. Alarms will be sent to DNA Fusion. During arming, the system verifies that all doors, windows, and other protection devices to be armed are in normal condition. If everything is okay, the system arms. If there is a problem on any point the Area will have to be Force Armed.

- Disarm Area - Turns off alarm protection for the area. No alarms will be received by DNA Fusion.
- Force Arm - Turns on the system and overrides any points that are open or faulted. Alarms will be sent to DNA Fusion. These points remain bypassed until the system is disarmed or they are reset. If the problem can be corrected by simply closing a door or window, do not Force Arm the area. Instead, correct the problem and Arm the area as normal.



*The remote disarm option is located under the Program/Remote Options in the DMP Remote Link software. Select the checkbox under the Miscellaneous Options.*

## Bosch Panel Control

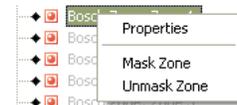
To properly arm the system, all points (doors, windows, etc.) in the system must be in the normal condition.

### Zone Control

A zone is a separate circuit or branch of a security system usually for the purpose of isolating and/or identifying alarms or trouble in a system. Multiple zones are typically assigned to an area so that all of their protection devices combined provide for the complete protection of the premises.

When a zone is unmasked, a change in its normal state causes the panel to activate an alarm. Fire, panic, and other 24-hour zones are considered always armed.

1. **Right click** on the desired Zone in the DNA Fusion Hardware Browser.
2. **Select** the command from the list.

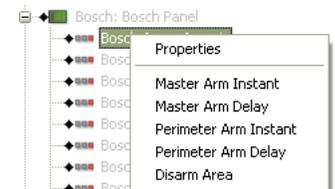


- Mask Zone - Zones that are masked will not send alarms to DNA Fusion. A zone remains masked until it is unmasked.
- Unmask Zone - When a zone is unmasked, a change in its normal state causes the panel to activate an alarm.

### Area Control

An Area is part of a protected premise that is programmed to operate separately from the other areas. Areas can have their own keypads, zones, account numbers, and arming and disarming schedules.

1. **Right click** on the desired Zone in the DNA Fusion Hardware Browser.
2. **Select** the command from the list.



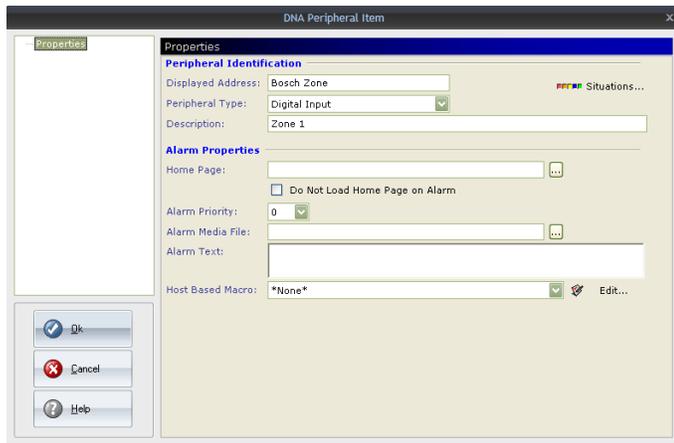
- Master Arm Instant - Immediately turns on alarm protection for the entire system. With the Instant command, no entry or exit delay is provided and an alarm will occur should an entry door be opened. When an area is armed and is tripped, an alarm will be generated in DNA.
- Master Arm Delay - Turns on alarm protection for the entire system. With the Delay command, entry and exit delays are provided. When an area is armed and is tripped, an alarm will be generated in DNA. The delay period is specified at the intrusion system.
- Perimeter Arm Instant - Immediately turns on alarm protection for the perimeter points and leaves the interior points turned off. No entry or exit delay is provided and an alarm will occur in DNA should an entry door be opened. Perimeter arming allows for free movement inside without setting off any interior alarms.
- Perimeter Arm Delay - Immediately turns on alarm protection for the perimeter points and leaves the interior points turned off while providing an entry and exit delay. When an area is armed and is tripped, an alarm will be generated in DNA. Perimeter arming allows for free movement inside without setting off any interior alarms. The delay period is specified at the intrusion system.
- Disarm Area - Turns off alarm protection for the area. No alarms will be received by DNA Fusion.

## Changing Area & Zone Names

The names of the Areas and Zones can be changed within DNA.

1. **Select** the Area or Zone in the Hardware Browser.
2. **Right click** on the object and **select** Properties.

The Properties dialog will open.



3. **Enter** the new name and **click** the OK button.

### ***Properties***

#### ***Peripheral Identification***

- Displayed Address - User defined name for the area or zone. Appears before the Description.
- Peripheral Type - Auto populates to the correct type. If the object is a zone, the type will defaulted to Digital Input. If the object is an area, the type will default to Other Point.
- Description - User defined description for the area or zone.

#### ***Alarm Properties***

- Home Page - Home page associated with the area or zone.
- Do Not Load Home Page on Alarm - If associated point goes into alarm, the Home Page will not load.
- Alarm Priority - Priority alarm setting that is different from the default alarm priority based on the event, i.e. Zone Open.
- Alarm Media File - Input specific alarm file to be displayed when an alarm occurs.
- Alarm Text - Point specific alarm text to be displayed when an alarm occurs in addition to the alarm reason.
- Host Based Macro - Select a host based macro to associate with this area or zone.

## Configuring and Viewing Alarms

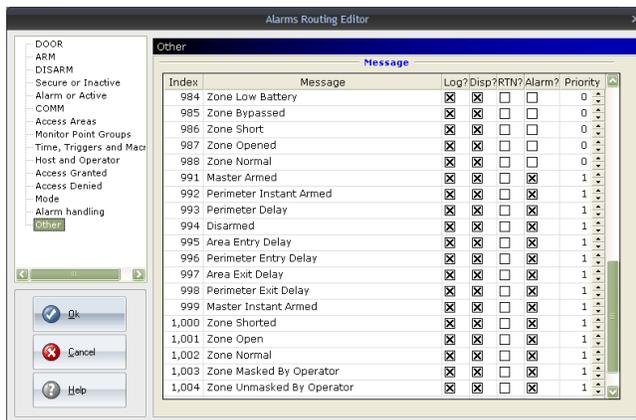
Alarms are configured and displayed in the same manner as all other DNA alarms. See page 14-9 in the DNA Fusion User Manual for more information on alarms.

### Logging

The system administrator will need configure which alarms will be reported to the Alarm grid. By default, no conditions are marked as alarms however, the Return to Normal (RTN) conditions have been selected.

1. **Select** DNA / Administrative / Alarms & Events / Logging from the Main Menu.

The Alarms Routing Editor dialog box will open.



2. **Select** the Other item from the menu.
3. **Select** the parameters for each event for the selected object.
  - Log? - Log this event to the database.
  - Display? - Display this event in the Event Grid.
  - RTN? - Check if the event is a return to normal (RTN) from an alarm condition.
  - Alarm? - Display the event as an alarm in the Alarm Grid.

NOTE: If an alarm event is identified, a RTN condition must be selected in order for alarms to be cleared, i.e., Area in Alarm is identified as an alarm (ALARM) condition then Area Normal would be the Return to Normal (RTN) condition.

- Priority - Priority for the event.
4. **Repeat** steps 2 through 3 until all objects have been configured.
  5. **Click** OK to save the configuration.

## Viewing Alarms

The alarm grid is a data window comprised of a “matrix” or spreadsheet record of alarm events. There are several ways to display the alarm grid. The basic alarm grid can be viewed by a number of different methods:

- Selecting the Alarm button at the top of the screen in the Standard Toolbar.
- Double click the Alarms status icon on the Status Bar.

Selecting the Alarm Grid (using any of the methods described) will bring it to the front of the operator interface and display any alarms that have not been acknowledged and cleared or dismissed.



The screenshot shows a window titled "Alarms" with a "Field Chooser" and "Group By" box. The "Alarm Information" tab is active, displaying a table with the following columns: Priority, Date Time, Address, Address Description, Alarm Description, Hardware State, Count, and Alarm Status. Two rows of data are visible:

Priority	Date Time	Address	Address Description	Alarm Description	Hardware State	Count	Alarm Status
1	3/10/2011 11:30 AM	1.1.2.D11	Zone 1	Zone Normal	Off-line	1	NORMAL
1	3/10/2011 11:30 AM	1.2.2.D11	Zone 2	Zone Normal	Off-line	1	NORMAL

See page 14-17 in the DNA Fusion User Manual for information on handling alarms.

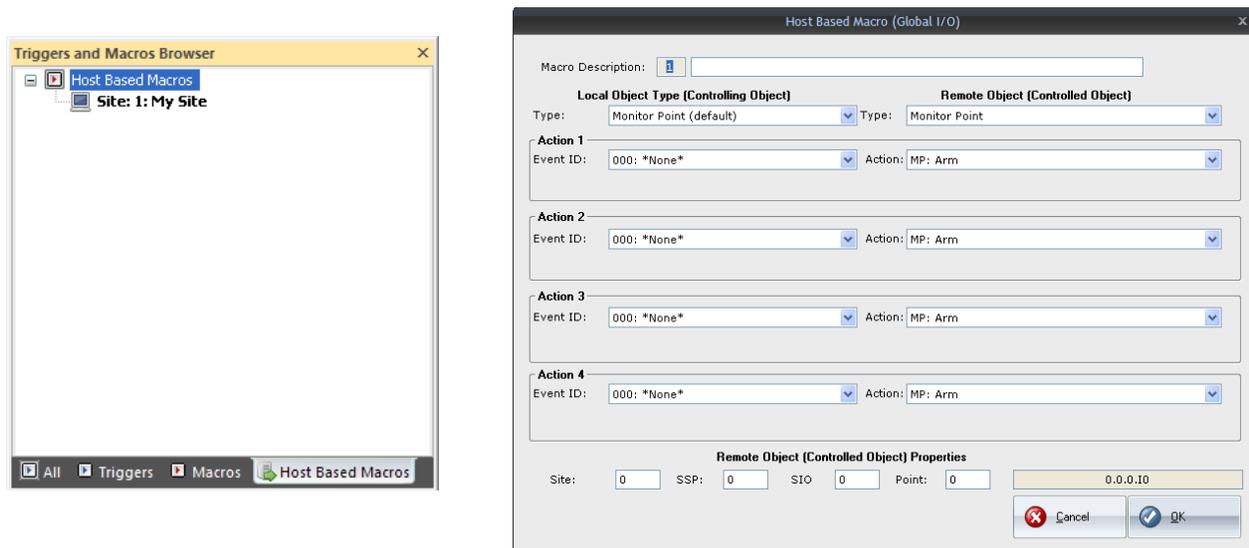
## Host Based Macros

Automated operation is achieved using host based macros. For example, an area can be armed or disarmed automatically at specified times, or in response to an access-control transaction from a specified card holder, making the process of arming the system and locking doors as easy as swiping a card.

Host Based Macros allows for cause and effect relationships between points controlled by different controllers that wouldn't be possible with conventional trigger-macro configurations. For more information on Host Based Macros, see page 10-13 in the DNA Users Manual.

1. With the Triggers & Macros Browser open, **select** the Host Macros tab at the bottom of the browser.
2. **Right-click** on the Host Based Macros object in the browser and **select** Add Host Macro.

The Host Based Macros dialog will appear.



3. **Enter** a Description for the macro.

This description will appear in a drop-down menu later when the controlling object is configured.

4. **Select** a Object Type from the Local Object Type (Controlling Object) drop-down menu.

This is the controlling object type that will cause the macro to execute. The selection of this object determines the choices available in the Action Event ID drop-down menus.

5. **Select** an Action(s) from the desired Action Event ID drop-down menu(s).

Up to four separate actions can be configured.

6. **Select** Control Peripheral Object from the Remote Object Type (Controlled Object) drop-down menu.

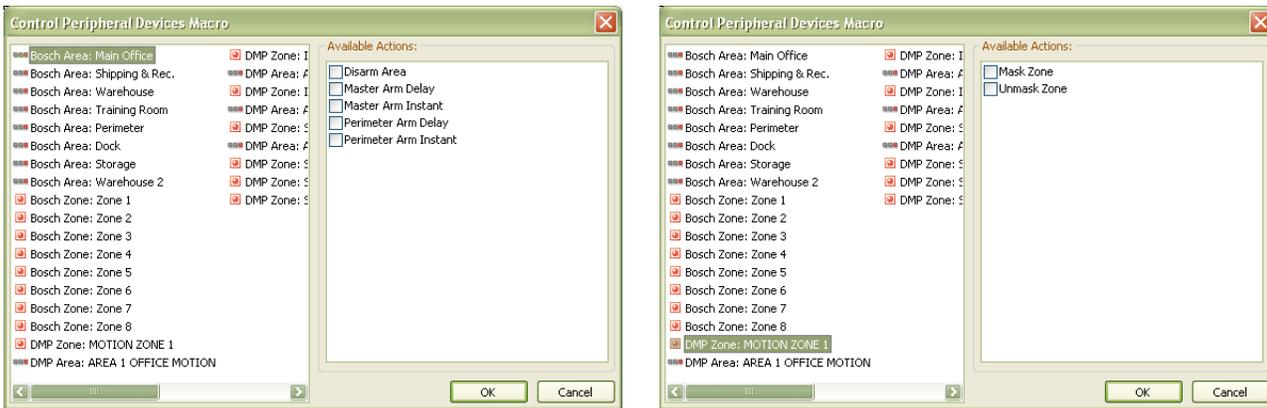
This is the controlled object that will receive the action as a result of the event being triggered.

7. **Select** Activate from the Action drop-down menu(s) corresponding to the selected Event ID(s).

Up to four separate actions can be configured to match the Controlling Objects Actions.

8. **Click** the Build button to configure the Remote Object Type's (Controlled Object) actions.

The Control Peripheral Devices Macro dialog opens. Depending on the panel and the type of object, different Actions may be displayed.



9. **Select** the Zone and/or Area from the list.
10. **Select** the desired action from the list of Available Actions.
11. **Click** OK to close the Control Peripheral Devices Macro dialog.
12. **Click** OK to save the Host Based Macro.
13. **Add** the Host Based Macro to the appropriate Zone or Area.

See page 3-4 for more information or see the Triggers & Macros chapter in the DNA Users Manual.



*Host Based Macros are stored locally in the host application instead of at the controller as in the case of regular triggers and macros. In order for Host Based Macros to execute, the application must be running.*