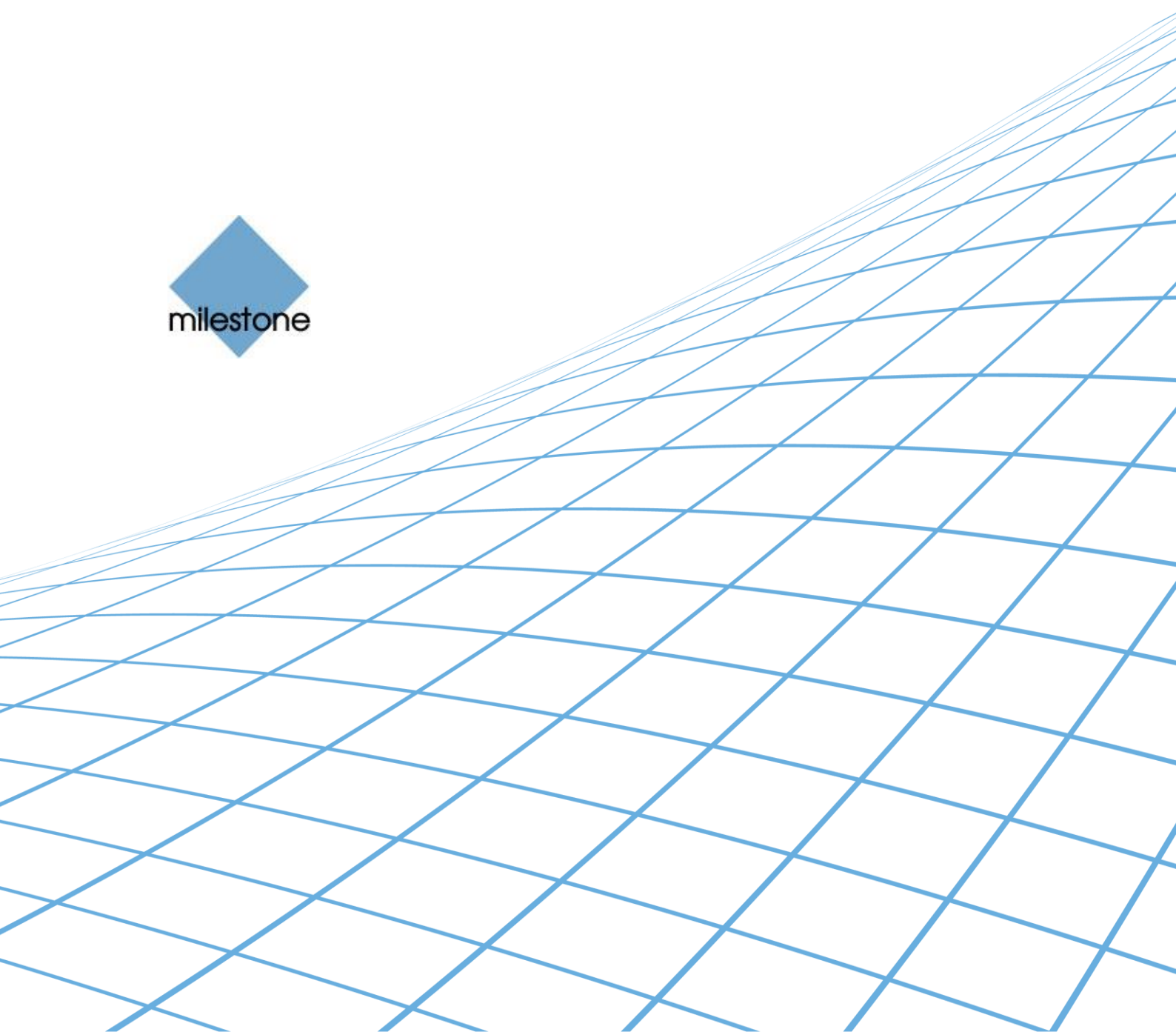# Event Link for Honeywell Galaxy 1.3 User Manual

milestone

Target Audience for this Document

This document is aimed at system users and describes the integration between Honeywell Galaxy Dimension and Milestone.

Basic knowledge of the Milestone XProtect surveillance software is required.

High knowledge of the Honeywell Galaxy Dimension Panel usage is required.

Contents

TROUBLESHOOTING GUIDE 24

KNOWN ISSUES 25

ADVANCED CONFIGURATION 26

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General description

Introduction

This document describes the Event Link integration between Milestone XProtect and the Honeywell Galaxy Dimension 48, 96, 264 and 520 panels.

This integration supports groups, zones and outputs on the Honeywell Galaxy box and on any connected RIO modules. It provides the ability to listen to alarms on these and has the ability to enable and disable them.

In the same way it is possible to enable and disable the entire Galaxy panel. If the panel is disabled the behavior on the Honeywell Galaxy system remains intact, but control, status monitoring and alarms are disabled in the Milestone VMS.

Enabling and disabling can be done through Milestone MAP icons for each of the types (panel, groups, zones and outputs). The icons will also indicate any unhandled alarms waiting for acknowledgement and will show the current status of the icon (disabled/enabled).

Please note that if an alarm is acknowledged in the Milestone VMS the alarm will still remain open on the Honeywell Galaxy system.

Solution overview

The depth of the layout in the XProtect Management Client/Application is minimized to 3:

Honeywell Galaxy Dimension
  |- Panel X
    |- Groups
    |- Zones
    |- Outputs

The delivery is a plug-in that will run in the XProtect Event Server and also have a configuration part that runs in the XProtect Management Client/Application.

All communication between the XProtect system and the Honeywell Galaxy panel will go through the Event Server.

Prerequisites

- The Honeywell Galaxy Dimension panel must be equipped with an Ethernet interface. Serial cable connections are not supported.
- The Honeywell Galaxy Dimension panel must be setup to use English.

Installation

The installation package consists of two files:

EventLinkForHoneywellGalaxyInstaller_x86_en-US.msi (32 bit installer for 32 bit operating systems)

EventLinkForHoneywellGalaxyInstaller_x64_en-US.msi (64 bit installer for 64 bit operating systems)

Run the appropriate installer based on the operating system. The plug-in must be installed on the computer where the XProtect Event Server is running, and on all computers running the XProtect Management Client. After the installation has completed restart the XProtect Event Server and any open XProtect Management Client.

License

These licenses are obtained by updating the XProtect VMS SLC, with MIP components: *EventLinkForHoneywellGalaxy-BaseLicense* and *EventLinkForHoneywellGalaxy-PanelLicense*. When the update is acquired the XProtect VMS must be reactivated, online or offline.

Event Link for Honeywell Galaxy requires two license components:

- EventLinkForHoneywellGalaxy Base License, a base license for using the plug-in. Initially a trial period of 30 days is granted.
- EventLinkForHoneywellGalaxy License, a license specifying the number of panels to work with. Two additional panels may be used for a period of 30 days.

NB! When activating or loading a license with XProtect Enterprise VMS, *Save and Apply configuration* must be selected in order to notify the entire system of the updated license. This is selected from either the File menu or the toolbar, alternatively when closing the Management Application set *Save and Apply configuration* as exit action.

MIP Plug-in	Version	Developed by	License Name	License Mode	Information
Analytics Events	3.0.1177.0	Milestone Systems A/S			
Alarm Definition	3.0.2863.2	Milestone Systems A/S			
Generic Events	1.0.0.12	Milestone Systems A/S			
Event Link for Honeywell Galaxy	1.2.0.0	Milestone Systems A/S	EventLinkForHoneywellGalaxy Base License	Licensed	Used 1 - licensed 1
Event Link for Honeywell Galaxy	1.2.0.0	Milestone Systems A/S	EventLinkForHoneywellGalaxy License	Licensed	Used 2 - licensed 5
ServiceHelper	1.0.0.0	Milestone Systems A/S			

Figur 1 A plug-in supporting 5 panels

Configuration

Honeywell Configuration

Configure the Panel using the Key Pad

In order to use the plug-in a number of settings must be configured on the Honeywell Galaxy Dimension Panel. The configuration can be done either using the Honeywell Galaxy Key Pad or the Remote Service Suite (RSS).

- Log in the Panel by entering the user pin code (default: 12345) on the Key Pad.
- Press <Enter> a number of times until the key pad display shows the option menu.
- Select the option menu 48.1.1 and press **1** <Enter> to enable the engineer access.
- Press <Esc> until the option menu "10=setting" reappears again.
- Log in to the Panel using the Engineer pin code (default: "112233").
- Press <Enter> a number of times until the option menu is shown.
- Configure the *Ethernet remote Access mode* to 3 - **Instant** (47.4.1), and the *Control Upload* to 1 - **Eng Prog** (47.4.5)
- Configure the *Remote Maintenance* to enable **Code and Notice** (47.4.6.2.2.1).
- Configure the *Restart language* to **English** (51.17.3.1).
- Configure the *IP address* for the Honeywell Galaxy Dimension Panel (56.4.01.1). The Panel should be given a fixed IP address. This IP address must match the *IP address* in the Panel Information in the Milestone XProtect Manage Client / Manage Application (see Figure 2: Field for entering the IP address for the Honeywell Galaxy Panel).
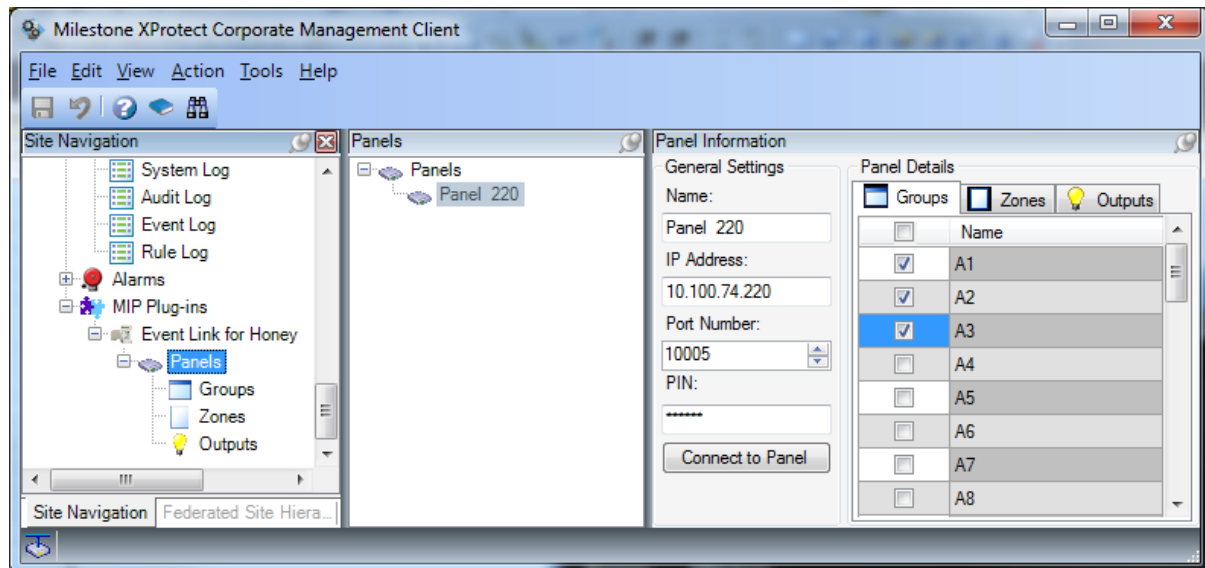

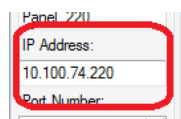Figur 2 The Honeywell Galaxy Plugin configuration in the XProtect Management Client

Figure 2: Field for entering the IP address for the Honeywell Galaxy Panel

- Configure the Gateway IP address (56.4.01.3) and the *subnet mask* (56.4.01.4).
- Configure the *Ethernet reporting format* to **SIA**, *level* **4** (highest level possible) (56.4.02.1)
- Set all the triggers on that are needed to be received as events in the Milestone Alarm Manager (56.4.02.1.1)

- Configure the Alarm reporting *Primary IP address* (56.4.02.2.1), so the IP address matches the IP address of the computer running the Milestone XProtect Event Server.
- Configure the *Primary Port Number* (56.4.02.2.2). The port must be set to 10002. If use of another port is required – please consult the Advanced configuration.

  NB! The firewall must allow TCP communication to the specified Port (10002).

- Create an *account number* (necessary for the panel to send alarms) (56.4.02.4)
- Configure the *receiver* to 1 - **Single** (56.4.02.5)
- Configure the *protocol* to 1 - **TCP** (56.4.02.8).
- Configure the *remote access time* to 4 - **Any time** (56.4.03.1), and the *mode* to 1 - **Direct Access** (56.4.03.2).
- Configure the *SIA Control IP Address* (56.4.08), so the IP address matches the IP address of the computer running the Milestone XProtect Event Server.
- Disable all encryption on the panel (56.4.09.1.0) to (56.4.09.4.0).
- Leave the Engineer mode by pressing <Esc> a number of times until the keypad displays the galaxy version.

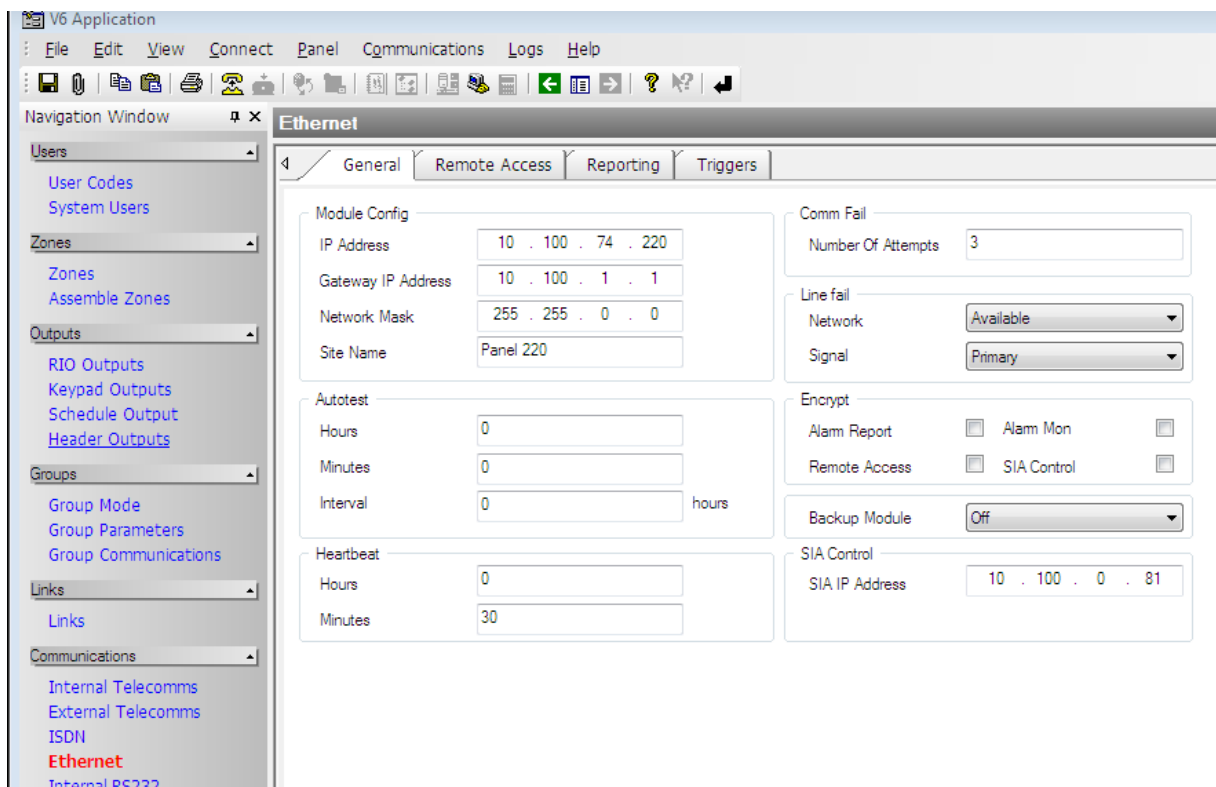# Configure the Panel using the RSS application

General tab

Figure 3: The General Tab in the Honeywell RSS V6 application

In the General Tab configure the following:

Module Config block :

- IP Address - must matches the IP address of the computer running the Milestone XProtect Event Server.
- Gateway IP address
- Network mask
- Site Name

Sia Control block:

- SIA IP address - must match *IP address* of the Milestone XProtect Event Server hosting the Event Link for Honeywell Galaxy plug-in..
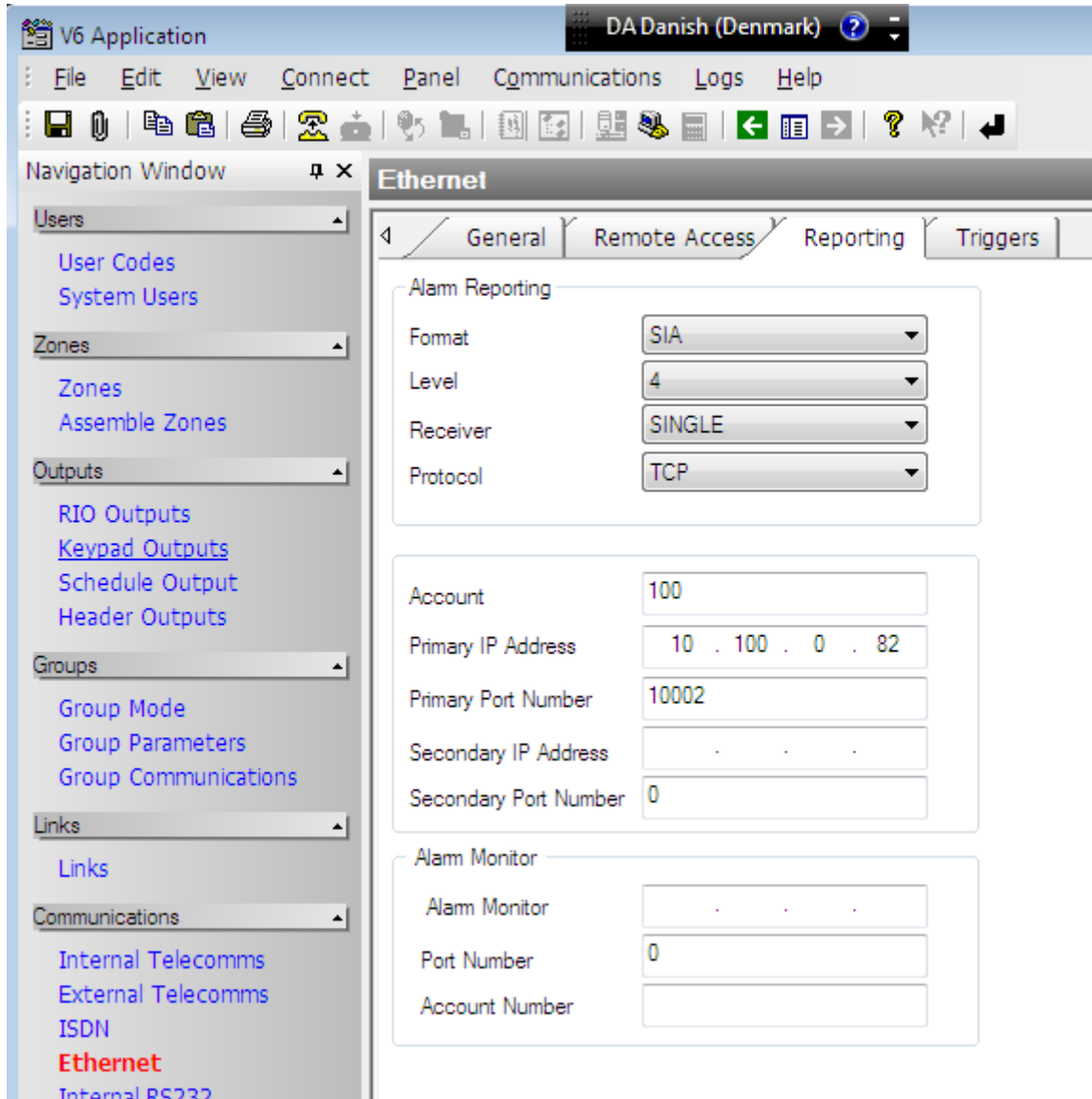
Ethernet Reporting tab

Figure 4: The Ethernet Reporting tab in the Honeywell RS v6 application

In order to receive event notification for the Honeywell Galaxy Dimension Panel, the Reporting settings must be configured as the following.

- Format: SIA, Level: **4**
- Receiver: **Single**
- Protocol: **TCP**
- Account: e.g. 0
- Primary IP Address: e.g. 10.100.0.82. The IP address must match the IP address of the computer running the Milestone XProtect Event Server.
- Primary Port: 10002. (see Advanced configuration for how to select an other port on the Milestone XProtect Event Server) - NB! The firewall must allow TCP communication to the specified Port.
- The Alarm Monitor section should be empty.

Ethernet Triggers tab

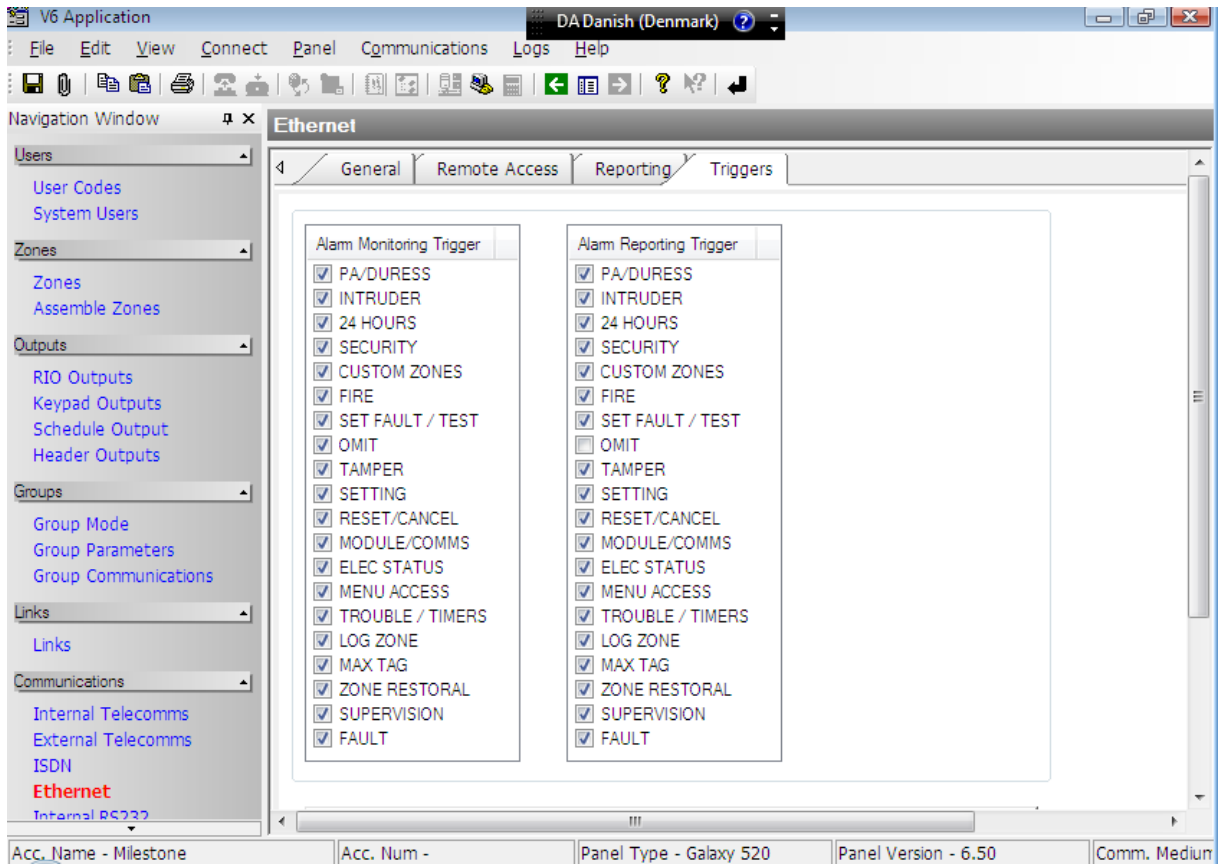Check all the events triggers that should be processed by the Milestone Honeywell Galaxy Plug-in.

Figure 5: The Ethernet Triggers tab in the Honeywell RSS v6 application

Milestone VMS

In order to use the plug-in some settings must be configured using the XProtect Management Client.

Use Site Navigation and browse to MIP Plug-ins → Honeywell Galaxy Plug-in → Panels and add a new panel as shown here:
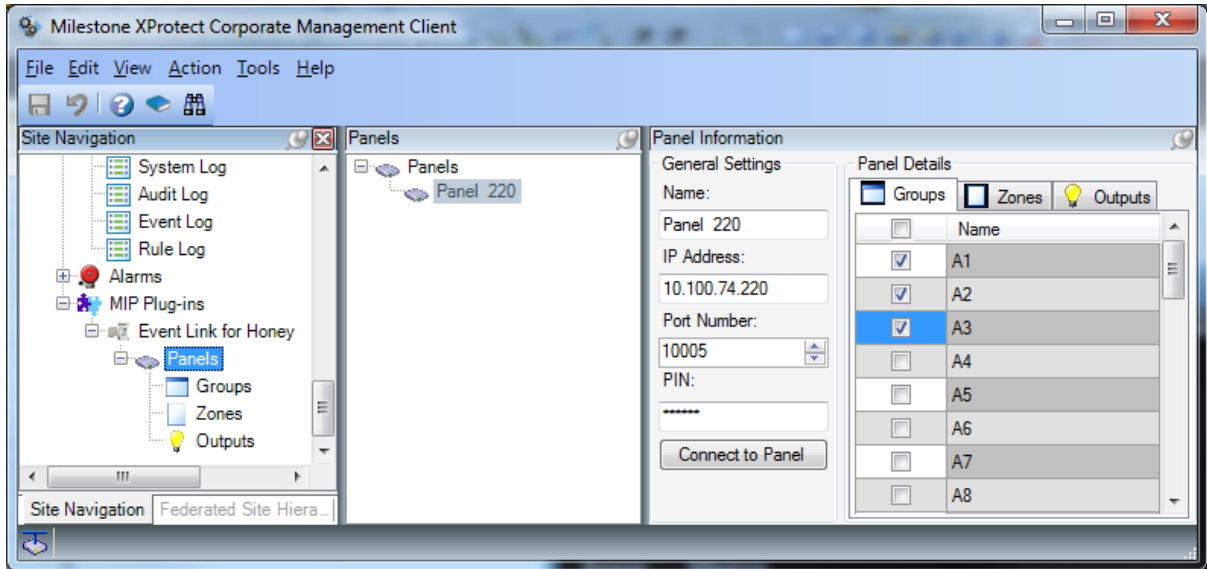
Figur 6 The Honeywell Galaxy Plugin configuration in the XProtect Management Client

Panel Information

The following settings are required in order to establish connection to the Honeywell Galaxy system:

- **Name:** A unqiue identifier for the panel which is only used in the Milestone VMS
- **IP Address:** The IP address of the remote Honeywell Galaxy system
- **Port Number:** The port number used for communication with the Honeywell Galaxy system
- **Pin:** The PIN code used for logging on to the Honeywell Galaxy system

The *IP address* must match the panels IP address (KeyPad option: 56.4.1.1).

After the configuration press 'Connect to Panel' and the plug-in will retrieve the available zones, groups and outputs from the Honeywell Galaxy system. Note that the number of shown groups, zones and outputs might exceed the number physically available on the Honeywell Galaxy system.

Please note that each panel must be given an unique **IP Address.**
Furthermore encryption on the Honeywell Galaxy Dimension system is not supported.

Panel Details

In the Groups, Zones and Outputs tabs enable the groups, zones and outputs that should be subscribed, allowing the plug-in to control a group, zone or output. Only subscribed Groups, Zones and Outputs will be available for Milestone MAP functionalities.
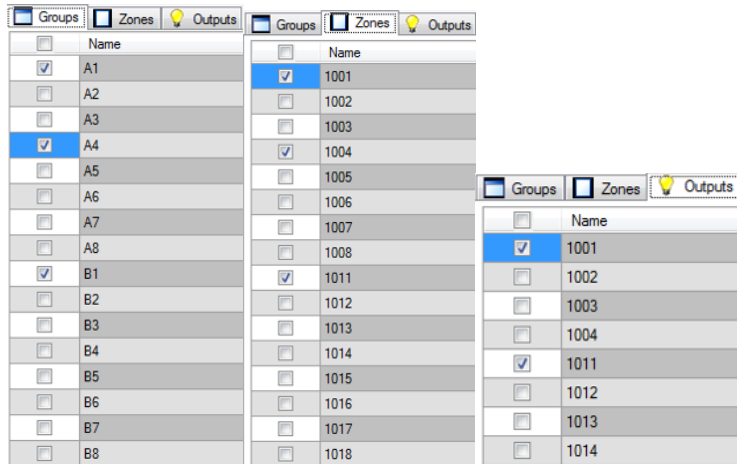

Figure 7: Dialog for configure subscription of individuel groups/zones/outputs. Group A1,A4 and B1, Zone 1001, 1004 and 1011, Output 1001 and 1011 are subscripted and can be shown on the MAP

After the configuration of 'General Settings' and 'Panel Details' is complete, remember to save.

MIP security

Users that are part of the administrators group will always have access to the panels, groups, zones and output in Milestone MAP. Other users must be given access using MIP security.

Milestone MIP security is configured using the XProtect Management Client.

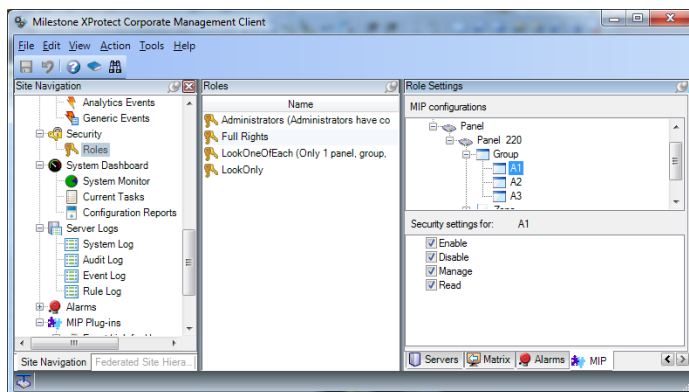Figur 8 Setting full rights for a panel, on Corporate

Not having *Manage* and *Read* means that the panel will not be shown in the MAP Element Selector. Not having *Enable* will make it impossible to enable the panel and not having *Disable* will stop disabling ability. Groups and zones have similar settings thus allowing a more fine-grained control. Outputs have *Activate/Deactivate* instead of *Enable/Disable*.
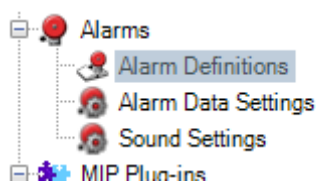
Operation

Setting up Milestone MAP

In order for event/alarms to be monitored in the Milestone Alarm Manager, the Honeywell Galaxy events must be mapped to a Milestone Alarm and a source (Panel/Group/Zone).

The mapping is done in the Alarms, Alarm Definitions inside the XProtect Management Client.

Figur 9 Alarm Definitions entry in the XProtect Management Client

Select the *Honeywell Galaxy* in the Triggering event dropdown box, and choose an event for the dropdown.

Depending on the selected event choose one or more sources. The sources could either be specific panels/groups/zones and/or all panels/groups/zones.

The source must match the event type, so to trigger a zone alarm the source must either be a specific zone e.g. *1001* or *All Zones*

The source for *LID* and *AUX* Tampers, should be a specific panel or *All panels*.

Figur 10 Dialog for defining an alarm in the XProtect Management Client

Mapping of events

The follow event can be selected on the Honeywell Galaxy Panel and can be used for activation of alarms in the Milestone Alarm manager:

PA/DURESS
INTRUDER
24 Hours
Security
Custom zones
Ser Fault/Test
Omit
Tamper
Setting
Reset/Cancel
Module/Comms
Elec.Status
Menu Access
Trouble/Timers
Log Zone
Max Tag
Zone Restoral
Supervision
Fault

The zone events must be checked on the Honeywell Galaxy Panel in order for the Panel to send events to the Milestone Alarm Manager. The zone events must be mapped to the individual zones in the Milestone Alarm Manager. Tamper must be mapped to the panels.

The table beneat can be used to for mapping Honeywell Galaxy triggers to Milestone Event names.

Galaxy Trigger (Function)	Galaxy Event	Milestone Event Name
24 HOURS	24 HOURS-	Burglary 24 hour zone restored
24 HOURS	24 HOURS+	Burglary 24 hour zone alarm
24 HOURS	ALARM EXT-	Burglary Alarm extend zone rest.
24 HOURS	ALARM EXT+	Burglary Extend zone alarm
24 HOURS	ATM-1-	Burglary ATM-1 zone restored
24 HOURS	ATM-1+	Burglary ATM-1 zone alarm
24 HOURS	ATM-2-	Burglary ATM-2 zone restored
24 HOURS	ATM-2+	Burglary ATM-2 zone alarm
24 HOURS	ATM-3-	Burglary ATM-3 zone restored
24 HOURS	ATM-3+	Burglary ATM-3 zone alarm
24 HOURS	ATM-4-	Burglary ATM-4 zone alarm
24 HOURS	ATM-4+	Burglary ATM-4 zone alarm
24 HOURS	URGENT-	Burglary Urgent zone restored
24 HOURS	URGENT+	Burglary Urgent zone alarm
8.OMIT	FORCE OMT-	Panic Unomitted after rearm
ALWAYS	ALM CAUSE	AC Power Cause of alarm
ALWAYS	ARC TEST	Tamper, Test ARC TEST
ALWAYS	FIRE-	Fire GUI Fire Button restored
ALWAYS	FIRE+	Fire GUI Fire Button alarm
ALWAYS	internal to tel	Communication Tel module lost RS485
ALWAYS	internal to tel	Communication Tel module rest. RS485

ALWAYS	MEDICAL-	Medical GUI Medical Btton Restr
ALWAYS	MEDICAL+	Medical GUI Medical Btton Alarm
ALWAYS	RECEN.SET	Closing Previous alarm was within 5 mins of set
CUS ZONE	CUSTOM A-	Burglary Custom A zone rest.
CUS ZONE	CUSTOM A+	Burglary Custom A zone alarm
CUS ZONE	CUSTOM B-	Burglary Custom B zone rest.
CUS ZONE	CUSTOM B+	Burglary Custom B zone alarm
ELEC ST	BATT FUSE-	Communication Battery Fuse restored
ELEC ST	BATT FUSE+	Communication Battery Fuse blown
ELEC ST	BATT LOW-	Communication Battery Low restored
ELEC ST	BATT LOW-	Communication Mod Battery Low rest
ELEC ST	BATT LOW+	Communication Battery Low
ELEC ST	BATT LOW+	Communication Module Battery Low
ELEC ST	CU BATT-	Communication Control unit batt restore
ELEC ST	CU BATT+	Communication Control unit Battery Low
ELEC ST	FUSE A2P-	Communication NFA2P Fuse restored
ELEC ST	FUSE A2P+	Communication NFA2P Fuse blown
ELEC ST	LOW VOLTS-	Communication Module Low Volts rest
ELEC ST	LOW VOLTS+	Communication Module Low Volts
ELEC ST	MEMORY OK	Remote,Log,Test Power Up
ELEC ST TROUBLE	RF BATLOW-	Wirelesss RF Battery Low Restrd
ELEC ST TROUBLE	RF BATLOW+	Wirelesss RF Battery Low
ELEC.ST	AC FAIL-	AC Power AC Fail zone restored
ELEC.ST	AC FAIL-	AC Power Module AC fail restored
ELEC.ST	AC FAIL+	AC Power AC Fail zone trouble
ELEC.ST	AC FAIL+	AC Power Module AC fail trouble
ELEC.ST	CU FUSE-	AC Power Control Unit fuse rest.
ELEC.ST	CU-AC-	AC Power Control Unit AC restred
ELEC.ST	CU-AC+	AC Power Control Unit AC trouble
ELEC:ST	FUSE-	AC Power Audio fuse restored
ELEC:ST	FUSE+	AC Power Audio fuse trouble

Examples of valid mappings between the Honeywell Galaxy event and Milestone Alarms:

INTRUDER   => Burglary Intruder zone alarm
24 Hours   => Burglary 24 hours zone alarm
Security   => Burglary Security zone alarm

```
Fire          => Fire Fire zone alarm
Tamper        => Tamper Lid Tamper alarm
Tamper        => Tamper AUX Tamper alarm
```

Setting up the Milestone XProtect Smart Client

In the Smart Client all the defined Panels including their subscribed Groups/Zones/Outputs can be visualized. Startup the Smart Client, go to Alarm Manager and configure a new map using the 'Setup'.
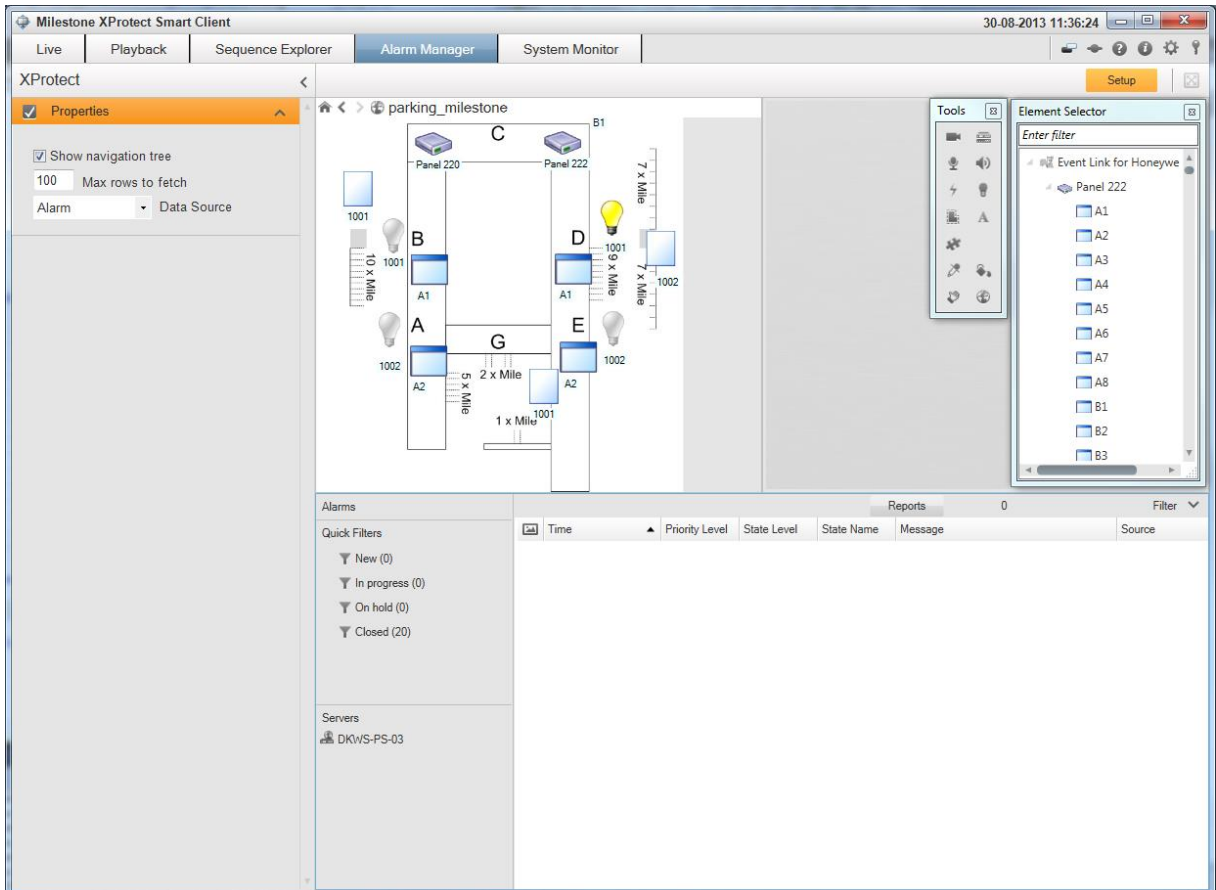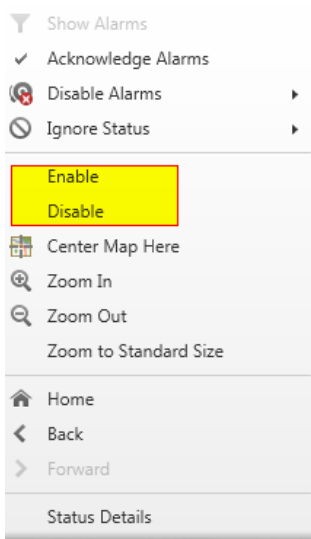

Figure 11: Alarm Manager dialogue in the Milestone XProtect Smart Client

Simply drag the objects of interest to the MAP layout. When done click setup again and the Honeywell Galaxy integration is now ready for use.

The Panel(s), Group(s) and Zone(s) can now be controlled by the right-click menu, this is the right-click menu for items of type panel, group or zone:

Figur 12 The context menu for a Group or Zone

The right-click menu for outputs is very similar, but has activate/deactivate instead of enable/disable.

Please note that all icons on map will show the known status of the Honeywell Galaxy Panel. If the icons are grayed out the object in question will be deactivated or disabled. Enabling groups directly on the Honeywell Galaxy Panel will also be reflected by the map icon as illustrated here:
Disabled group:

Figure 13: A disabled GroupEnabled group:

Figure 14: An enabled Group

Panels

Panels can be *Enabled* or *Disabled*.

Disabling a panel will stop any Milestone control of Groups, Zones, Output and prevent Milestone alarms from being created originating from the Honeywell Galaxy Panel. The events will still perform normally on the Honeywell Galaxy Panel.

Groups

A group is a collection of Zones and Outputs. There can be up to 32 groups on the Panel. The Groups are named A1..A8, B1..B8,..,D1..D8.

Groups can be *Enabled* or *Disabled*.

Disabling a group will unset the group on the Honeywell Galaxy Panel, unsetting a group will cause most Honeywell galaxy alarms to be disabled. Enabling a group will move the group to Set state on the Honeywell Galaxy Panel thereby resuming normal behavior. Please note that in some cases it's not possible to "Set" a group i.e. if there are open alarms, tampers or similar. Should that be the case these matters must be resolved on the Honeywell Galaxy Panel first.

Zones

A zone is a representation of the Inputs or Alarms on the Honeywell Galaxy Dimension Panel. There can be up to 520 zones. The zones are named 1001..4158.

A zone can be Enabled or Disabled.

Disabling a zone will set the zone in omit state on the Honenywell Galaxy system and will therefore ignore any alarm on that zone. Enabling the zone will clear the omit flag again.

Outputs

An output controls a device that can be *activated* or *deactivated e.g.* a Bell or a Horn.There can be up to 256 outputs. The outputs are named 1001..4154.

An Output can be Activated or Deactivated.

Activating an output will trigger the output based on the settings configured on the Honeywell Galaxy Panel, likewise will deactivate close an output.

Example of generating a Milestone Event

In this example an intruder alarm will generate a Milestone event when intruder alarm triggers.

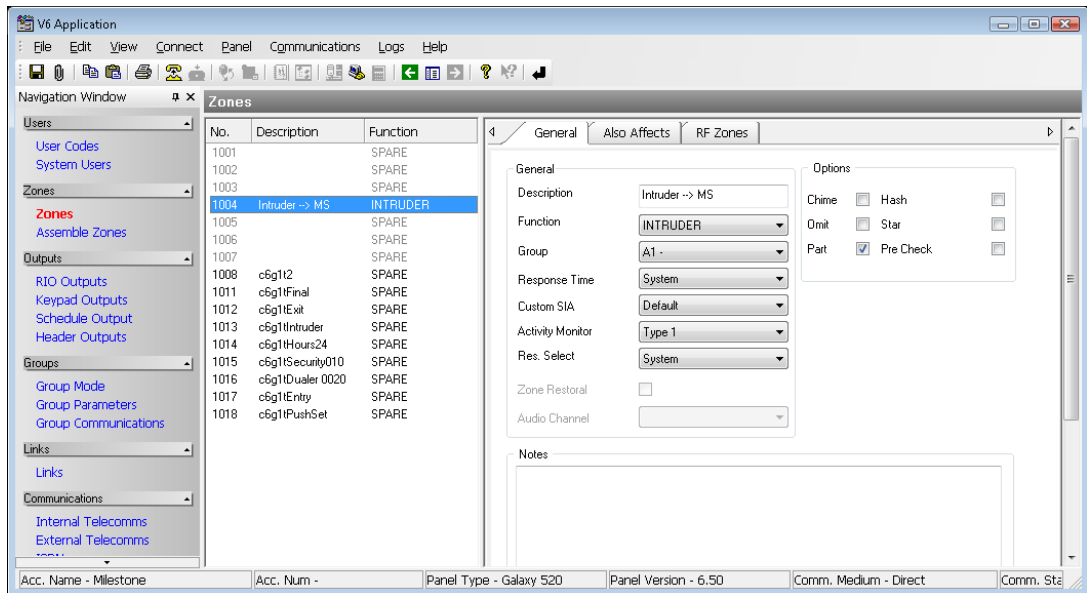1. Configure the intruder Zone on the Honeywell Galaxy Panel:

Figure 15: The General tab in the Honeywell RSS V6 application

2. Take notice to the **No.** (1004) and the **Function** selected (INTRUDER), as they are to be used as part of the configuration on the Milestone VMS system. These will naturally change based on the zone and the function configured. Please note that this Zone is configured to Group A1, in this case meaning that group A1 must be in set state in order for this zone to trigger the intruder alarm.

3. Here is the needed alarm definition in the Milestone VMS in order to trigger an alarm based on the intruder alarm from the Honeywell Galaxy Panel:
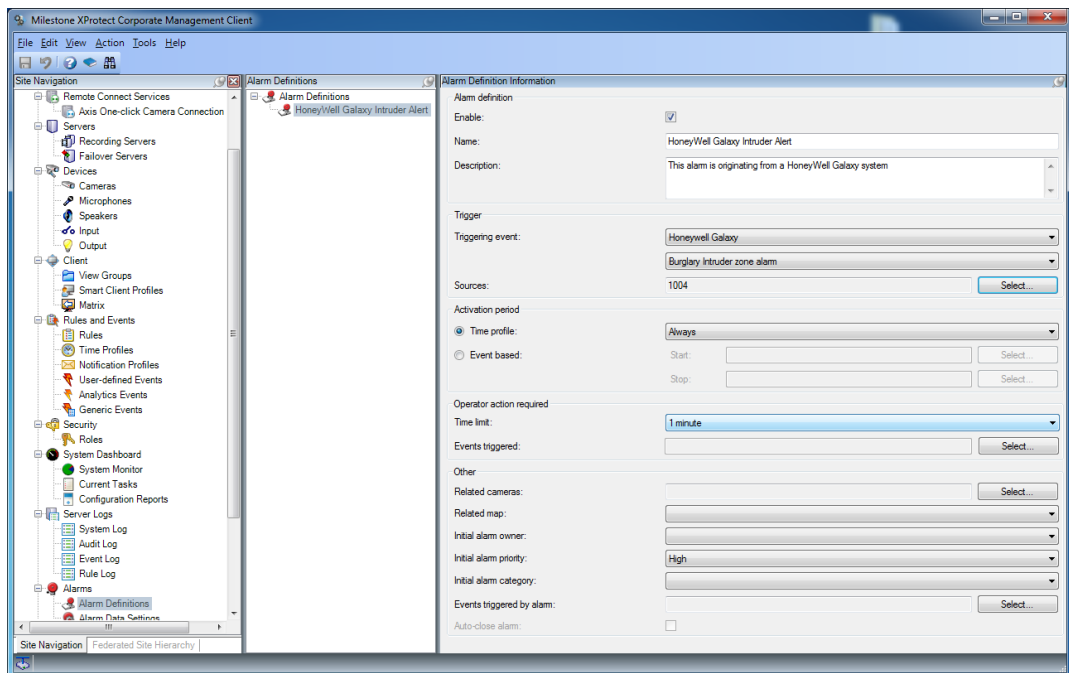

Figure 16: The Alarm Definition dialog in the XProtect Management Client

4. Please note that the **Sources** should match with the setup on the Honeywell Galaxy Panel, in this case Zone 1004 has been selected as source. The **Triggering event**, in this case 'Burglary Intruder zone alarm' should also match with the function defined on the zone.

5. Activating the zone configured in step one on the Honeywell Galaxy Panel will now generate an event in the VMS system:

Troubleshooting Guide

The panel will not connect to the Honeywell Galaxy panel

The Sia Control, SIA IP Address must match the computer running XProtect Event Server.

The Module Config IP Address must match the IP Address specified in the Milestone Plug-in.

In the Milestone Plug-in the"Port Number" must be set to 10005.

The encryption MUST be disabled on the Honeywell Galaxy Panel.

The Honeywell Galaxy panel MUST configured for English language (KeyPad 51.17.3.1).

The firewall must be off, or must be open for communication on the ports e.g. 19919, 10002 and 10005.

The Honeywell Galaxy panel must be on the same subnet as the computer running the Milestone XProtect Event Server.

The License is exceed.

No event are received

The Alarm Reporting must be set to SIA, Level 4, Protocol TCP

The Primary IP Address and Port Number must match the IP Address of the computer running XProtect Event Server

The Alarm Reporting Triggers must be enabled. E.g. PA/DUESS, INTRUDER, 24 Hours, Security, Fire, Tamper, Module/Comms, Elec Status, Trouble/Timers, Fault.

An Alarm definition in the XProtect Management Client must be defined for the specific trigger. The source of the Milestone event must match the trigger type (Zone, Group, Panel).

Restarting the Milestone XProtect Event Server.

Known issues

The Plug-in does not support virtual zones 0011-0018.

In rare cases the status monitoring in MAP will not reflect the state of the panel, this can happen after adding a new panel. Should this happen please restart the event server.

The Plug-in does not support any encryption, so all encryption (KeyPad: 56.4.09.1-56.4.09.4) must be set to off on the Honeywell Galaxy Panel.

The Plug-in only supports communication in English when getting events from the Honeywell Galaxy panel. (KeyPad: 51.17.3.1).

Advanced configuration

When installing the Event Link for Honeywell Galaxy plug-in the configuration file "EventLinkForHoneywellGalaxy.dll.config" will be installed toghether with the plugin. This file contains settings that under normal circumstances should not be altered.

The EventLinkForHoneywellGalaxy.dll.config file is a XML file that can manually be altered using a text editor like notepad.

```xml
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <configSections>
  </configSections>
  <appSettings>
    <add key="TcpServerPort" value="19919"/>
    <add key="HoneyerllGalaxyEventServerPort" value="10002"/>
    <add key="LogLevel" value="2"/>
  </appSettings>
</configuration>
```

TcpServerPort: Specifies the port used by the plug-in for communication between the XProtect Management Client plug-in and the Event Server plug-in. Default value 19919.

HoneyerllGalaxyEventServerPort: Specifies the port number used by the TcpServer receiving event from the Honeywell Galaxy panels. If for some reason it is not possible to use the default port number of 10002 the number can be changed in the configuration file. If this settings is changed the port number will also have to be changed in the Honeywell Galaxy configuration (see: *Configure the Panel using the Key Pad* or *Configure the Panel using the RSS application).*

LogLevel: Specifies a level of log messages to output to the configuration file. Default log level is 2. Log level can be increased to either 3 or 4. The higher the log level is set the more detailed information will be written to the log.

Changes made to the configuration file requires the plug-in hosting application (Milestone XProtect Event Server, Milestone XProtect Management Client or Milestone XProtect Management Application) to be restarted before they will take affect.

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