# **Network Manager**

00DA0709-001 November 17, 2023, Rev C

# NMS-XProtect Gateway Administration

#### Introduction

Alarm reporting from a Senstar Network Manager service (NMS) to a Milestone XProtect is done via the NMS-XProtect Gateway service. The NMS-XProtect Gateway service communicates with the XProtect Event Server via the NMS Gateway MIP (Milestone Integration Platform) plug-in.

- Use NMS-XProtect Gateway Config to configure the NMS-XProtect Gateway service connection parameters for the Milestone XProtect Event Server.
- Use the Milestone XProtect Management Client to configure the NMS Gateway MIP plug-in.
- Use the Milestone XProtect Smart Client to add NMS Gateway objects to a XProtect Smart Client Map.



Figure 1 NMS-XProtect integration block diagram

**SENSTAR** 

## **Configuring NMS-XProtect Gateway service**

The NMS-XProtect Gateway Config application is used to configure the NMS-XProtect Gateway service connection parameters for the Milestone XProtect Event Server. Left-click the NM shield to display the NMS-XProtect Gateway Config menu. Figure 2 shows the NMS-XProtect Gateway Config menu and Table 1 describes the NMS-XProtect Gateway Config features.

	b Kestore Move Size Minimize Maximize X Close Alt+F4	id=1)
	Export Event Analysis Data Trace Info	
	Help Topics F1 About NMS-XProtect Gateway Config	
11:Zone 11		

Figure 2 NMS/XProtect configuration

Item	Description
Equipment List	Provides access to the configuration parameters for XProtect and NMS connections. Selects which nodes and points are to be used by XProtect.
Apply	The Apply button finalizes configuration changes for the Gateway service but leaves the NMS-XProtect Gateway Config program running.
Archive	The Archive button saves a Gateway configuration to an archive file. The default archive file naming convention is: NMS-XProtect Gtwy YYYYMMDD_hhmm.xml YYYY = 4-digit year; MM = 2-digit month; DD = 2-digit day; hh = 2-digit 24hr format hour; mm = 2-digit minute
Load	The Load button loads a Network Manager Service configuration from an archive file.
Export Event Analysis Data	This system menu item opens a dialog for exporting Event Analysis Data as tab delimited text files suitable for opening with MS Excel. Event Analysis Data is a record of the alarm and control events processed by the Gateway service.
Trace Info	This system menu item opens a dialog for displaying the operational activity of the NMS-XProtect Gateway Config.
×	Closes the NMS-XProtect Gateway Config program. If there are unsaved changes, the user is prompted to save the changes.

Table 1 NMS-XProtect Gateway Config Features

#### **Configuration procedure**

1. Double-click **XProtect** on the Equipment list to open the XProtect connection dialog.

		XP	rotect	
3:	Interface			
4:	TCP Port:	810		
6		Primary	Alternate	
	IP Address:	172 . 16 . 56 . 255	127 . 0 . 0 . 1	
9: 10:			OK	Cancel
Indicates status of connection to XProtect Event Manager.				
Green = Online				

Figure 3 XProtect connection dialog

- a Specify a TCP Port for the NMS Gateway MIP plug-in to connect to the Gateway service.
- b Specify the IP Address(es) of the XProtect Event Manager(s) that will connect to the Gateway service.
- c Select OK.
- 2. Double-click a Network branch **n**: (n = 1 to 10) from the Equipment list to open the NMS connection dialog.

XProtect		C	onfigure Netw	uork		
	NMS Id: IP Address:	1 • Pr 127 . 0	mary . 0 . 1	0.	Alternate	. 0
L. 10:	Description:	Outer Perim	eter Clear		ancel	

Figure 4 XProtect Configure Network dialog

- a Specify an NMS Id for the Network Manager Service.
- b Specify the Primary and Alternate (for redundant NMS) **IP Addresses** to connect to the NMS.

Note	You must configure an SMS connection for the NMS-XProtect Gateway in
	the Network Manager service.

- c Enter a meaningful **Description** for the Network (optional).
- d Select OK.
- 3. Right-click the Network branch on the Equipment list to display an action menu for the network.

1 : Outer Perin	meter (ip=127.0.0.1 id=1)
2 :	Retry NMS connection
Indicates status of connect	Sync node definitions
to NMS	Export nodes
Green = Online	Import nodes

Figure 5 Network action menu

- a If the Gateway service is not connected to the NMS, verify that the NMS is running and then select **Retry NMS connection** to force an immediate reconnection attempt. The Gateway service will also periodically try to reconnect if the connection is lost. Right-click the Network branch after connecting and proceed to step b.
- b Select **Sync node definitions** to load a list of the nodes configured on the NMS and the input and output points each node supports. This function can also be used to refresh the node list if changes are made at the NMS.

Note	Select <b>Export nodes</b> to create a Unicode tab delimited file of the nodes and points configured for the network.
	This file can be opened in Excel to edit the point assignments for XProtect monitoring.
	The exported file can also be used to import the point assignments into XProtect.
	Select Import nodes to load a Unicode tab delimited file of configured
	nodes and points.

4. Click on a Network Manager's branch to see the associated nodes.

XProtect	^
🚽 🔶 1 : Outer Perimeter (Silver Networl	k) (ip=127.0.0.1 id=1)
🛓 🔍 1 : OmniTrax 📃 🥄	×
🔁 🔸 🔰 2 : OmniTrax	NMS connection summany
🗄 🍨 3; OmniTrax	This connector summary
🗄 🔶 4 : OmniTrax	NMS Network description.
🗄 🔶 5 : FlexZone-60	
🗄 🔶 6 : FlexZone-60	User Network description.
	NMS reported nodes
Indicates status of connection	
Green = Online	
Red = Offline	
Grey = Gateway or NMS offline	
12:	
13:	
14:	

Figure 6 Network nodes

XProtect		^	
😑 🔶 1 : Outer Perimeter (Silv	er Network) (in=127	7.0.0.1 id=1)	
🕀 🍨 1:OmniTrax		OmniTrax	
🕂 🧼 2 OnmiIrax			
🗄 🔶 3 🕐 mniTrax 🍡 🔶	✓ Enable		
🗄 🔶 4 : OmniTrax	Label:	NMS 1 OmniTrax 1	
• 6 : FlexZone-60	Node Id:	1.1	
T: FlexZone-60		L	
8 : FlexZone-60			
9: UltraWave	Notes:		^
10: Ultrawave			
11:			~
12:			

5. Double-click a Network node on the Equipment list to open the Node configuration dialog.

Figure 7 Node configuration dialog

Note	The <b>Notes</b> area is an optional documentation area for recording
	miscellaneous information about the node.

- a Check **Enable** to report communication and diagnostic faults for this node on the XProtect.
- A default Label is created based on the node address and type reported by the NMS. It can be edited to something more meaningful.
   This is the label assigned to the Node created in XProtect by the XProtect Management Client when importing a configuration.
- c The Node ID is a unique identifier to link nodes in XProtect Event Server to nodes in the Gateway service. The default value is based on the Network and Node numbers. It must match the corresponding field in the XProtect NMS Gateway Node definition. If the configuration created here is exported to a file and imported using the XProtect Management Client this matching will be automatically achieved.
- d Select OK.

Note	Right-click the Node on the Equipment list to display an action menu.
	Select Sync node definition to update the input and output points
	supported by the node.
	Select Export node to create a Unicode tab delimited file of the points that
	are configured for the node. This file can be opened in Excel for editing the
	point assignments for XProtect monitoring.
	Select Import node to load a Unicode tab delimited file containing points
	for this node.



Figure 8 Node action menu

6. Expand the Node and Sensor Alarm branches to see the node's associated Alarm Points.



Figure 9 Node Alarm Points

7. Double-click an Alarm Point entry on the Equipment List to open a Point configuration dialog.

•		NMS-XProtect	Gateway Config	- 🗆 🗙
	1:0n	nniTrax (Node: "1.1") ensor Alarms		Zone 1
		1 : Aux Input 1	✓ Enable	
		2 : Aux Input 2 3 : Opt Aux Input 1	Label:	NMS 1 OmniTrax 1 Zone 1
		4 : Opt Aux Input 2	Input Id:	1 1 4 11
		5: Opt Aux Input 3	, input la	1110111
		7: Opt Aux Input 5		
		8: Opt Aux Input 6	Notes:	^
		9: Opt Mux Input 7 10: Opt Aux Input 8		~
		1:Zone 1		OK Cancel
		R: Zone 2		

Figure 10 Point Configuration dialog

NoteThe Notes area is an optional documentation area for recording<br/>miscellaneous information about the input.

- a Check Enable to report the status for this point to the XProtect.
- b A default **Label** is created based on the node, point address, and type reported by the NMS. This is the label assigned to the Input point by the XProtect Management Client when importing a configuration. It can be edited to something more meaningful.
- c The **Input Id** is a unique identifier used to link input points in XProtect Event Server to input points in the Gateway service. The default value is based on the Network, Node and Point numbers. It must match the corresponding field in the XProtect NMS Gateway Input definition. If the configuration created here is exported to a file and then imported using XProtect Management Client, this matching will be automatically achieved.
- d Select OK.
- e Repeat for all of the Alarm Points on this node that will be reported in XProtect.

8. Click the Sensor Alarm branch to conceal the node's Alarm Points, and then click the Control Points branch to see the node's associated Control Points.



#### Figure 11 Node Control points

9. Double-click a Control Point entry on the Equipment list to open a Point configuration dialog.



Figure 12 Point Configuration dialog

NoteThe Notes area is an optional documentation area for recording<br/>miscellaneous information about the output.

- a Check Enable to allow control of this point by the XProtect.
- A default Label is created based on the node, point address, and type reported by the NMS. It can be edited to something more meaningful.
   This is the label assigned to the Output Point by the XProtect Management Client when importing a configuration file.
- c The **Output Id** is a unique identifier used to link output points in XProtect Event Server to output points in the Gateway service. The default value is based on the Network, Node and Point numbers. It must match the corresponding field in the XProtect NMS Gateway Output definition. If the configuration created here is exported to a file and then imported using XProtect Management Client this matching will be automatically achieved.
- d Select OK.
- e Repeat for all Control Points on this node that will be controlled by the XProtect.
- 10. Repeat steps 5 to 9 for each node that will be managed by XProtect.

NoteUse the Network action menu Export Nodes function to create a file that<br/>can also be used by the XProtect Management Client to import the point<br/>assignments into XProtect.

- 11. Repeat steps 2 to 10 to add additional networks to the XProtect.
- 12. Select the Apply button to finalize the configuration changes for the Gateway service.

```
Note Use the Archive button to save a copy of the configuration to protect against accidental loss.
```

#### Configuring the XProtect NMS MIP Gateway plug-in

This section highlights specific NMS Gateway features. Refer to the Milestone documentation for complete information on how to configure XProtect.

 Expand the NMS Gateway MIP Plug-ins node on the XProtect Management Client Navigation tree. The Plug-in report items are grouped into 4 categories: Gateway (service), Nodes, Inputs (points), and Outputs (points).



Figure 13 MIP Plug-ins

2. Click Gateway to configure the connection to the NMS-XProtect Gateway service.

Site Navigation - 7 X Con	figuration			<b>↓</b> ₽
Servers				
🕀 🏹 Devices	Name:	Gateway		
E Client				
E B Rules and Events		C Enable		
🕀 🐗 Security				
🗄 🕥 System Dashboard	Connection			
🕀 🔚 Server Logs	Connection	IPv4 address	TCP Port	
- Access Control				
🕀 🛄 Transact 📃	Primary:	172.16.56.97	810	
🕀 🥷 Alarms				
🖻 🚼 MIP Plug-ins	Alternate:	172.16.100.250	810	
🖃 🗑 NMS Gateway				
Gateway	Timeout (s):	15		
Nodes				
o o mpuls				

Figure 14 NMS Gateway configuration

- a Enter a **Name** to identify the Gateway.
- b Check Enable to enable the interface to the NMS-XProtect Gateway Service.

- c Enter the IPv4 Address and TCP Port to connect to NMS-XProtect Gateway Service.
- d Adjust the communication **Timeout** if desired. Valid timeouts range from 0 to 60 seconds. The default is 15 seconds. A timeout of 0 seconds disables communication fail.
- e Select 🔤 to save the changes.

NoteIf the configuration was not exported from NMS-XProtect Gateway Config<br/>using Export Nodes function, skip the next step. The Node, Input and<br/>Output points must be added manually.

3. Select **Import** to load a file produced by the export feature in NMS-XProtect Gateway Config. A log file showing the Node, Input and Output items added or skipped is displayed when the import process is completed. An item will be skipped if another item with the same Id already exists.

Added items: Node: "NMS 1 OmniTrax 1" Point: "1:1" Input: "NMS 1 OmniTrax 1 Zone 1" Point: "1.1.A.11" Input: "NMS 1 OmniTrax 1 Zone 2" Point: "1.1.A.12" Input: "NMS 1 OmniTrax 1 Zone 3" Point: "1.1.A.13" Input: "NMS 1 OmniTrax 1 Zone 4" Point: "1.1.A.14" Output: "NMS 1 OmniTrax 1 Output 1" Point: "1.1.C.1" Output: "NMS 1 OmniTrax 1 Output 2" Point: "1.1.C.2"	- -
Skipped items:	*



NoteSelect F5 (Display refresh) after closing the log to ensure the display of the<br/>Node, Input and Output items for the NMS Gateway.

- Click Nodes to view the Node items that were created. Click a Node item to see its configuration.
  - Name used to identify this item.
  - **Node Id** is used in communications with the Gateway service to retrieve the node's status. It must exactly match the corresponding string defined in NMS-XProtect Gateway Config.





To manually add an additional node:

a Right-click the Nodes root.

Collapse	Add Node			X
Add New Ctrl+N				
S 1 UltraWave 9	Name:	Enter a name		J

Figure 17 Manually adding a node

- b Select Add New from the sub-menu.
- c Enter a Name for XProtect to use to identify the Node.
- d Select OK.

Site Navigation 🗸 🕂 🗙	Nodes 🗸 🕂	Senstar Equip Information	<b>-</b> 4
Servers     Servers     Client     Rules and Events     Security     System Dashboard     Server Logs	Nodes     MNS 1 FlexZone-60 5     MNS 1 FlexZone-60 6     MNS 1 FlexZone-60 6     MNS 1 OmniTrax 1     MNS 1 OmniTrax 2     MNS 1 OmniTrax 3     MNS 1 UltraVlave 9     MNS 1 UltraVlave 10	Name: NMS 2 OTrax 1 Enable Node Id:	
Access Control	NMS2OTrax 1		

Figure 18 Entering a node Id

- e Enter a **Node Id** to identify this Node item to the Gateway service so it can retrieve the node's status.
- f Select **b** to save the changes.
- 5. Click **Inputs** to view the Input items that were created. Click an Input item to see its configuration.
  - Name used to identify this item.
  - **Input Id** is used in communications with the Gateway service to retrieve the input's status. It must exactly match the corresponding string defined in NMS-XProtect Gateway Config.
  - Select **Map Icon** to be used on a XProtect Smart Client Map.





To manually add an additional input:

a Right-click the Inputs root.

o'o NM	Collapse		L			
o'o NI	Add New	Ctrl+N	Add Input			×
oro NN	Refresh	F5	Name:	Enter a name		
o NMS	1 OmniTrax 1 Zone	1				

Figure 20 Manually adding an input

- b Select Add New from the sub-menu.
- c Enter a Name for XProtect to use to identify the Input.
- d Select OK.

Site Navigation 🚽 🕈 🗙	Points 👻	Senstar Inputs Info	ormation 👻 🖣
Servers     Client     Client     Client     Serverly     System Dashboard     Server Logs     Sever Logs     Sever Logs     Sever Logs     Sever Logs     Sever Logs     Sever Logs	oro Inputs     oro NMS 1 FlexZone-60 5 Zone 1     oro NMS 1 FlexZone-60 5 Zone 2     oro NMS 1 FlexZone-60 6 Zone 2     oro NMS 1 FlexZone-60 6 Zone 1     oro NMS 1 FlexZone-60 6 Zone 3     oro NMS 1 OmniTrax 1 Aux 1     oro NMS 1 OmniTrax 1 Zone 1     oro NMS 1 OmniTrax 1 Zone 3	Name: Input Id: Map Icon:	NMS 1 OmniTrax 1 Aux 1 C Enable

Figure 21 Manually adding an input

- e Enter an **Input Id** to identify this Input item to the Gateway service so it can retrieve the input's status.
- f Select a Map Icon to be used on an XProtect Smart Client Map.
- g Select 🔤 to save the changes.
- 6. Click **Outputs** to view the Output items that were created. Click an Output item to see its configuration.
  - Name used to identify this item.
  - Output Id is used in communications with the Gateway service to retrieve the output's status, it must exactly match the corresponding string defined in NMS-XProtect Gateway Config.



To manually add an additional output:

a Right-click the Outputs root.

With the second	Collapse			
ଡି NMS ଡି NMS ଡି NMS	Add New Ctrl+	Add Output		
	OmniTrax 1 Output 1 OmniTrax 1 Output 2	Name:	Enter a name	

Figure 23 New output item

- b Select Add New from the sub-menu.
- c Enter a Name for XProtect to use to identify the Output.
- d Select OK.

te Navigation 👻 🕂 🗙	Points 👻 👎	Senstar Outputs Information	- 4
Servers     Devices     Devices     Client     Rules and Events     G     Security     S     System Dashboard     Server Logs     M     Access Control	<ul> <li>☐ ⑦ Outputs</li> <li>○ NMS 1 FlexZone-60 5 Output 1</li> <li>○ NMS 1 FlexZone-60 5 Output 2</li> <li>○ NMS 1 FlexZone-60 6 Output 1</li> <li>○ NMS 1 FlexZone-60 6 Output 2</li> <li>○ NMS 1 FlexZone-60 6 Output 3</li> <li>○ NMS 1 FlexZone-60 7 Output 1</li> <li>○ NMS 1 OmniTrax 1 Output 1</li> <li>○ NMS 1 OmniTrax 1 Output 2</li> </ul>	Name: NMS 1 FZn-60 7 Output 1 Finable Output Id: New Output item	

Figure 24 Manually adding an output

- e Enter an **Output Id** to identify this Output item to the Gateway service so it can retrieve the output's status.
- f Select 🖬 to save the changes.

### **Configure XProtect Alarm**

This section highlights NMS Gateway usage in XProtect Alarms. Refer to the Milestone documentation for complete instructions on configuring XProtect Alarms.

 Expand the Alarms on the XProtect Management Client Site Navigation tree. Click Alarm Definitions to configure alarm points for the NMS-XProtect Gateway and NMS Nodes and Input points.

Site Navigation - 4 × Alarm Definitions	<ul> <li></li></ul>	<b>•</b> 9
🖃 📢 OPTI790-VM-W764 - (12.1a 🔺 🔤 🛃 Alarm Definition	Alarm definition	
🕀 🛄 Basics	Enable:	
🕀 🕕 Servers		
🕀 😿 Devices	Name:	
Client		
Rules and Events	instructions.	<b>^</b>
🕀 🦚 Security		+
🕀 🕥 System Dashboard		
🕀 📊 Server Logs	Trigger	
Access Control	Trinnering event:	
🕀 🗓 Transact 🛛 📈	riggonig orone.	
🖻 🧏 Alarms		*
Alarm Data Sattin	Sources:	Select

Figure 25 Configuring Alarm Definitions

- 2. Right-click the Alarm Definitions root.
- 3. Select Add New from the sub-menu.

Alarm Definitions	Alarm definition	
	Add New Ctrl+N	
	2 Refresh F5	
	Instructions:	

Figure 26 Adding Alarm Definitions

- 4. Enter a **Name** for the XProtect to use to identify the alarm.
- 5. Select an NMS Trigger Event item category.

OPTI790-VM-W764 - (12.1a	itions Alam definition		
Basics     Servers     Cent     Rules and Events     Security	efinition Enable: Name: Instructions:	Zone 1 Alam	
System Dashboard     Server Logs     Server Logs     Access Control     Aarmose     Alarmose     Alarmose     Alarm Data Settings	Trigger Triggering event: Sources: Activation period	Access Control Event Categories Analytics Events Device Events External Events Hardware Events NMS Gateway	gger Event Categorie
5		NWS Input Event NWS Node Event Recording Server Events System Events System Monitor Events	

Figure 27 Selecting a Trigger Event Category

6. Select an event from the category specific list.

Inggering event:	NMS Gateway	•	NMS Node Event	-	NMS Input Event	•
Sources:	Gateway Offline Gateway Online	-	Comm Fail Comm Side Fault	-	Alam Pre-Alam	
Activation period			Diag Fatal Alam Diag Warning Alam		Secure Supervision	

Figure 28 Selecting an Event

7. Click Select to open the Select Sources dialog.

Trigger		Select Sources	×
Triggering event:	NMS Input Event		
	Aam	Groups Servers Selected:	
Courses	Calant	All Inputs 🗚 🚽 🖌 🖌 🖌 🖌 🖌	
Sources:	Select	inputs	
		MMS 1 FlexZone-60 5 Zone -	
		er or NMS 1 FlexZone-60 5 Zone :	
		Add	
		🕀 🛷 NMS 1 FlexZone-60 6 Zone :	
		e or NMS 1 OmniTrax 1 Aux 1 Remove	
		B of NMS 1 OmniTrax 1 Zone 1	
		€ of NMS 1 OmniTrax 1 Zone 2	
		H → o NMS 1 OmniTrax 1 Zone 4	
		OK Car	ncel

Figure 29 Select Sources dialog

- 8. Select the Servers tab.
- 9. Expand the Inputs node.
- 10. Select the input that will trigger the alarm.
- 11. Select Add.
- 12. Select OK.

Varm Definitions 🛛 👻	Properties		-	4
🗆 🧏 Alarm Definitions	Alarm definition			-
Zone 1 Alarm	Enable:			
	Name:	Zone 1 Alarm		
	Instructions:		*	
	Trigger		Ŧ	
	Triggering event:	NMS Input Event	•	
		Alarm	•	
	Sources:	NMS 1 OmniTrax 1 Zone 1 Select		

Figure 30 Alarm Definition Properties

#### **Configure XProtect Rule**

This section highlights NMS Gateway usage in XProtect Rules. Refer to the Milestone documentation for complete instructions on configuring XProtect Rules.

1. Expand Rules and Events on the XProtect Management Client Site Navigation tree. Click **Rules** to configure rules using the NMS-XProtect Gateway objects.



Figure 31 XProtect Rules

2. Right-click the Rules root.

□ E Rules		
	Collapse	Name:
	Add Rule Ctrl+N	
	Edit Rule 👯	Description:
	Delete Rule Del	
D	Rename Rule F2	
1	Copy Rule	
(B)	Validate Rule	

Figure 32 XProtect Rule

- 3. Select Add Rules from the sub-menu.
- 4. Enter a **Name** for the XProtect to use to identify the rule.
- 5. Using an XProtect NMS Gateway MIP plug-in point to trigger a Rule:
  - a In the Manage Rule dialog Step 1: Type of rule, select Perform an action on <event>.



Figure 33 Manage Rule dialog

- b In the rule description area, select event to choose an event that will trigger the rule.
- c Expand the NMS Gateway tree node.

- d Select one of the predefined NMS event types.
- e Select OK.
- f In the rule description area, select **devices/recording server/management server** to select a source for the event type.

ivallie.	NMS Zone T Alarm	Select Sources	
Description:		Sources:	Selected:
Select the rule typ Perform an ac Perform an ac Edit the rule desc Perform an action from <u>devices</u> Help	Step 1: Type of rule be you want to create tion on <event> tion in a time interval ription (click an underlined item) on Alam (NMS Input Event) /recording server/management server</event>	All Inputs or MIMS 1 FlexZone-60 5 Zone or MIMS 1 FlexZone-60 5 Zone or MIS 1 FlexZone-60 6 Zone or MIS 1 OmiTrax 1 Zone 1 or MIS 1 OmiTrax 1 Zone 1 or MIS 1 OmiTrax 1 Zone 2 or MIS 1 OmiTrax 2 Zone 2 or MIS 1 OmiTrax 2 Zone 2 or MIS 1 OmiTrax 2 Zone 2 or MIS 1 OmiTrax 3 Zone 1 or MIS 1 OmiTrax 3 Zone 1 or MIS 1 OmiTrax 3 Zone 2 or MIS 1 OmiTrax 3 Zone 2 or MIS 1 OmiTrax 4 Zone 2	Add Remove

Figure 34 Select Sources dialog

- g Expand the **All Inputs** tree node.
- h Select the input that will trigger the rule.
- i Select Add.
- j Select OK.
- 6. Using a Rule Action to control an NMS MIP Gateway plug-in output:
  - a In the Manage Rule dialog Step 3: Actions, select an NMS Action.

Name:	NMS Zone 1 Alarm	Select Targets	
escription:		Targets: Selected:	
ctive:		- Targets	OmniTrax 1 Output 1
Select actions t Set Matrix to Save attach Con site> tri Activate arC Con site> tri Activate nu Edit the rule det Ferform an actio from <u>NMS 1</u> Activate Output	Step 3: Actions       o perform       view (devices> ad images       sd images       string on carchives>       gger (user-defined event>       SOutput (spoints)       Predefined NMS Action       IMS Output (spoints)       on Alarm (NMS Inout Event)       Omn Trax 1.Zone       period       Cancel	Add MMS 1 FlexZone-60 5 Output 1 NMS 1 FlexZone-60 5 Output 2 NMS 1 FlexZone-60 5 Output 2 NMS 1 FlexZone-60 6 Output 2 NMS 1 FlexZone-60 6 Output 3 NMS 1 OmmTrax 1 Output 1 NMS 1 OmmTrax 1 Output 1 NMS 1 OmmTrax 1 Output 1 NMS 1 OmmTrax 2 Output 1 NMS 1 OmmTrax 2 Output 2 NMS 1 OmmTrax 2 Output 2 NMS 1 OmmTrax 4 Output 4 NMS 4 Output 4 N	
			OK Cancel
			6

Figure 35 Select Targets dialog

- b In the rule description area, select **point** to select an output for the rule action.
- c Expand the All Outputs node.
- d Select the output that will be controlled by the action.
- e Select Add.

- f Select OK.
- 7. Select **Finish** when done.

Rules	- P Rule Information	<b>▼</b> ₽
E 🔋 Rules	to Preset when PTZ is don Name:	
Default Pla	y Audio on Request Rule NMS Zone 1 Alarm	
Default Re	cord on Motion Rule Description:	
Default Sta Default Sta Default Sta Default Sta NMS Zone	rt Audio Feed Rule rt Feed Rule rt Metadata Feed Rule 1 Alarm New Rule V Active Definition:	
	from <u>NMS 1 Omni Trax 1 2</u> Activate Output <u>NMS 1 Omni Trax 1 2</u>	is input Event) <u>Cone 1</u> rax 1 Output 1

Figure 36 Rule Information dialog

#### **Configure XProtect Map**

This section highlights NMS Gateway usage on an XProtect Smart Client Map. Refer to the Milestone documentation for complete instructions configuring XProtect Maps.

1. Select XProtect Smart Client Setup mode.



Figure 37 Smart Client setup

- 2. Select/Create a map view on which to place NMS Gateway map icons.
- 3. From the Tools menu select Add Plug-in Element.
- 4. Expand the **NMS Gateway** node. The expanded node will list the NMS Gateway icons that are available for placing on the map. This list includes an icon for the Gateway as well as defined Nodes, Inputs and Outputs.

5. Drag the icons to be displayed from the Element Selector onto the map.



Figure 38 Selecting an Icon

6. Customize the icon after it is placed on the map. The label can be edited and it's position relative to the icon can be adjusted. The icon can be resized. For example, the Input Line icon can be stretched and rotated to indicate the sensor's detection coverage area.



Figure 39 Custom Icons

Right clicking an Output icon, displays a menu to manually activate or deactivate the associated NMS Output Point.



Figure 40 Output Icon action menu

Map icons display the current state of corresponding NMS points:

	Gatewa	y Icons	
0	Offline: No communications with NMS-XProtect Gateway service	$\overline{\mathbf{v}}$	<b>Online</b> : Communications established with NMS-XProtect Gateway service
	Node	Icons	
0	Offline: No communications to NMS-XProtect Gateway service		OK: Node fully functional
	<b>Comm Warning</b> : Non-fatal communication problem with node	5	Comm Fail: Node communication failure
*	<b>Diagn Warning</b> : Minor diagnostic problem with node that doesn't affect alarm detection	*	<b>Diagn Fail</b> : Major diagnostic problem with node that affects alarm detection

	Enclosure Tamper: Node enclosure open	* <b>5</b> TT <u></u> ))	Note: Icon may be displayed showing a combination of statuses
	Input	lcons	
- ©-	<b>Offline</b> : No communications with NMS-XProtect Gateway service	$\diamond$	<b>OK</b> : Input operational and no alarm condition detected
<b></b>	Alarm: Input alarm condition detected	$\diamond$	Supervision: Input tampering detected
	Alarm + Supervision: Input alarm and tampering detected	÷	<b>Trouble</b> : Input operation compromised due to fatal communication or diagnostic condition
	Output	lcons	
Ø	<b>Offline</b> : No communications with NMS-XProtect Gateway service	$\heartsuit$	Off: Output deactivated
- <b>X</b>	<b>On</b> : Output activated		

Figure 41 Map Icons

### **Editing a Configuration in Excel**

Using Excel open the text (.txt) file exported by the **NMS-XProtect Gateway Config** program. When prompted by the **Text Import Wizard**, select Tab Delimited fields.

The Text Wiza	rd has determined that your data is Delimited.	
If this is corre	ct, choose Next, or choose the data type that best describes your data.	
Original data	a type	
Choose the	file type that best describes your data:	
Delin	nited - Characters such as commas or tabs separate each field.	
○ Fixed	I width - Fields are aligned in columns with spaces between each field.	
		2
	Toyt Import Wizard Stop 2 of 2	X
Start import	Text Import Wizard - Step 2 of 5	
Start import i	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.	in the
Start import i	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.	d in the
Start import i	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.	d in the
Start import : <u>M</u> y data F Preview of	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.          Delimiters         Image: Im	d in the
Start import i	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.  Delimiters  Jab Semicolon Treat consecutive delimiters as one Comma	d in the
Start import : <u>My</u> data r Preview of <u>L</u> T"XPro	This screen lets you set the delimiters your data contains. You can see how your text is affected preview below.  Delimiters  Jab Semicolon Treat consecutive delimiters as one Gomma Text gualifier:	s in the

Figure 42 Text Import Wizard



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Ide	entifi data	es type of in a row		NMS point identifion				XProtect point identifion
	)			+			1	+
1	A	В	С	D	E	F	G	Н
1	I.	XProtect						
2	H1	Node Alarms	-	-	-	-	XProtect	
3	H2	Node	Туре	-	Pnt	-	Node Id	Label
4	D1	1	513	OmniTrax	-	-	1.1	NMS 1 OmniTrax 1
5	H1	Sensor Alarms	-	-	-	-	XProtect	
6	H2	Node	Туре	-	Pnt	-	Input Id	Label
7	D1	1	513	OmniTrax	1	Aux Input 1	1.1.A.1	NMS 1 OmniTrax 1 Aux Input 1
8	D1	1	513	OmniTrax	2	Aux Input 2		
9	D1	1	513	OmniTrax	3	Opt Aux Input 1		
10	D1	1	513	OmniTrax	4	Opt Aux Input 2		
11	D1	1	513	OmniTrax	5	Opt Aux Input 3		
12	D1	1	513	OmniTrax	6	Opt Aux Input 4		
13	D1	1	513	OmniTrax	7	Opt Aux Input 5		
14	D1	1	513	OmniTrax	8	Opt Aux Input 6		
15	D1	1	513	OmniTrax	9	Opt Aux Input 7		
16	D1	1	513	OmniTrax	10	Opt Aux Input 8		
17	D1	1	513	OmniTrax	11	Zone 1	1.1.A.11	NMS 1 OmniTrax 1 Zone 1
18	D1	1	513	OmniTrax	12	Zone 2	1.1.A.12	NMS 1 OmniTrax 1 Zone 2
19	D1	1	513	OmniTrax	13	Zone 3	1.1.A.13	NMS 1 OmniTrax 1 Zone 3
20	D1	1	513	OmniTrax	14	Zone 4	1.1.A.14	NMS 1 OmniTrax 1 Zone 4
21	Η1	<b>Control Points</b>	-	-	-	-	XProtect	
22	H2	Node	Туре	-	Pnt	-	Output Id	Label
23	D1	1	513	OmniTrax	1	Output 1	1.1.C.1	NMS 1 OmniTrax 1 Output 1
24	D1	1	513	OmniTrax	2	Output 2	1.1.C.2	NMS 1 OmniTrax 1 Output 2
25	D1	1	513	OmniTrax	3	Output 3	1.1.C.3	NMS 1 OmniTrax 1 Output 3
26	D1	1	513	OmniTrax	4	Output 4	1.1.C.4	NMS 1 OmniTrax 1 Output 4
27	D1	1	513	OmniTrax	5	Opt Output 1		
28	D1	1	513	OmniTrax	6	Opt Output 2		
29	D1	1	513	OmniTrax	7	Opt Output 3		
30	D1	1	513	OmniTrax	8	Opt Output 4		
31	D1	1	513	OmniTrax	9	Opt Output 5		UTION: Do not addit tout
32	D1	1	513	OmniTrax	10	Opt Output 6	ins	side the outlined area
33	D1	1	513	OmniTrax	11	Opt Output 7	-	
34	D1	1	513	OmniTrax	12	Opt Output 8		

After adjusting the column widths to display all of the column data, the spreadsheet should appear as follows.

#### Figure 43 Imported Text

CAUTIONTo ensure the file remains compatible for importing by the NMS-XProtectGateway Config and XProtect Management Client edit only the text in<br/>columns G and H on rows which contain D1 in column A.

- Rows starting with H1 (column A) identify the type of points (Node Alarms, Sensor Alarms or Control Points) in their respective D1 rows.
- Rows starting with H2 identify the type of data in the columns of their respective D1 rows. Column Headings:
  - Node: NMS node number.
  - **Type** (2 columns): Node type, numeric id and description.
  - Pnt (2 columns): Point number and description (n/a for Node Alarms).
  - **Node/Input/Output Id**: Unique identifier links points in XProtect Event Server to points in the Gateway service.

- **Label**: Label assigned to the Node/Input/Output created by the XProtect Management Client when importing a configuration.
- Rows starting with D1 identify the NMS points and their associated XProtect Plug-in Point linkage. Points to be processed by XProtect must have a string defined in the Node/Input/ Output Id column (column G).

Use Excel techniques for cell editing like dragging a cell to fill series of cells to quickly extend point assignments.



Figure 44 Extending point assignments

When done editing save the spreadsheet to a Unicode Text file.

File name	NMS-XProtect Gtwy Net 1.0 20180606 1005.txt
Save as type:	Unicode Text (*.bt)
Authors:	Add an author Tags: Add a tag
Browse Folders	Too <u>l</u> s Save Cancel
	-
	Microsoft Excel

Figure 45 Saving as a Unicode Text File