

## Product Integration Information

April 16, 2013

**Manufacturer:** Lenel  
**Model number:** OnGuard  
**Type:** Alarm management software

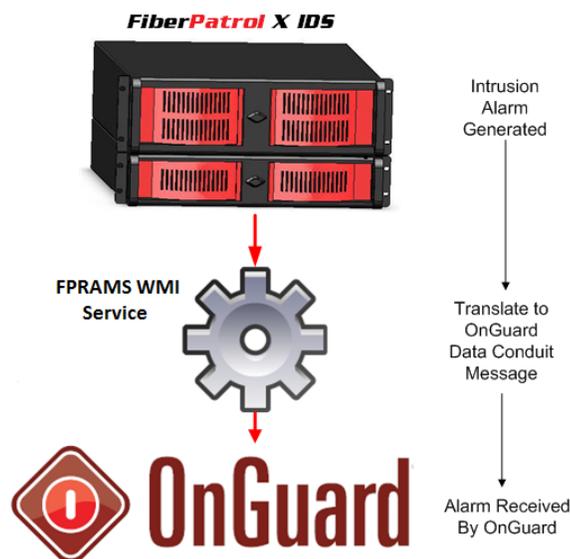
**FiberPatrol software version compatibility:** FiberPatrol X v2.7 and later, FPRAMS v4.1.1 and later

OnGuard Version	Integration Status
OnGuard 2006 Technology Update (5.12.110)	Completed and certified
OnGuard 2008 (6.0.148)	Completed and certified
OnGuard 2010 (6.4.500)	Completed, certification pending
OnGuard 2012 (6.5.624)	Completed, certification pending
OnGuard 2013 (6.6.287)	Completed, certification pending

<b>OnGuard API Used for Integration</b>	DataConduit
<b>Operating Systems Supported</b>	Windows XP SP3, Windows 7
<b>OnGuard Database Supported</b>	MS SQL Server Express 2008

<b>Functional Features of the Interface</b>	Customers can set up DataConduit devices associated with individual FiberPatrol virtual intrusion detection zones, causing Lenel OnGuard to receive, display, and log alarms reported by FiberPatrol Intrusion Detection Systems.
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### System Topology:

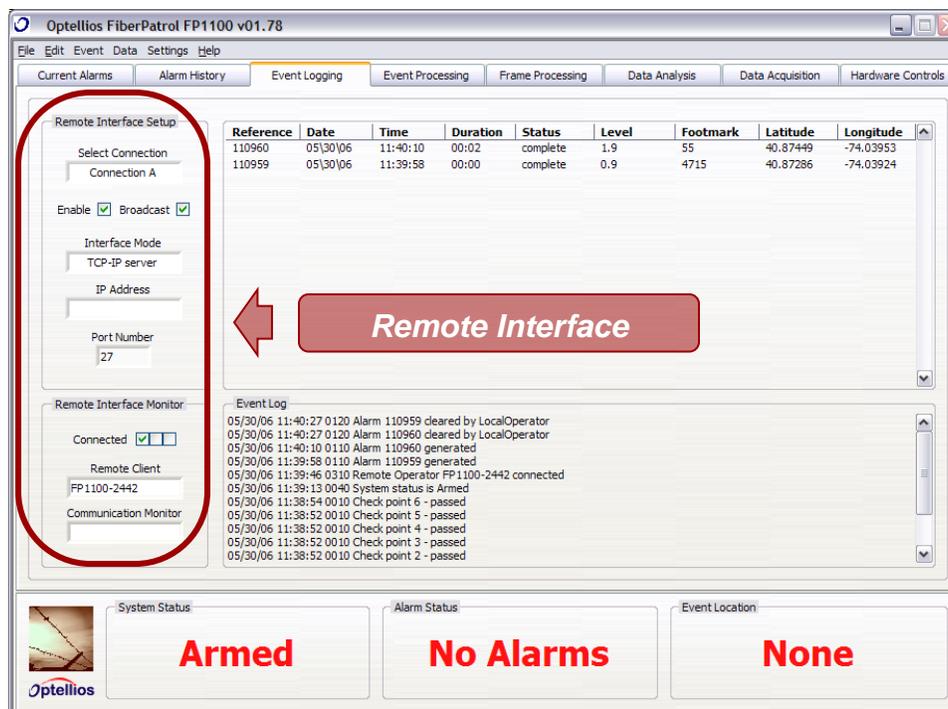


## Setting Up FiberPatrol / OnGuard Interface

This process assumes that standard installations of the respective products have been established according to manufacturer supported and documented processes.

### 1. Setting up FiberPatrol Alarm Broadcasting

Remote interface controls are located on the Event Logging panel of the FiberPatrol® Software Interface (FPSI). Log in at the Supervisor level to access this panel.



The following describes the functionality of the remote interface controls and suggests the settings to configure an XML-broadcasting TCP/IP server.

#### Select Connection menu

Selects the connection to be set up and/or monitored. There are three connections available: A, B, and C. Other remote interface controls and indicators will display the parameters of the selected connection.

**Enable checkbox**

Enables or disables the connection. Once turned off in the local machine, a remote connection cannot be initiated from the outside.

**Broadcast checkbox**

Enables or disables the XML broadcast.

In the enabled state, the FPSI will broadcast XML packets at regular intervals (default is 1 second) or immediately if a new alarm has been generated. XML packets are sent even when there are no current alarms.

**Interface Mode selector**

Select remote interface mode from among the available hardware and protocol options.

To communicate with FPRAMS WMI service, this selector needs to be set to TCP-IP Server. In this mode, the FPSI implements a TCP/IP server. It accepts a single connection through the port specified by Port Number.

**IP Address control**

Leave blank.

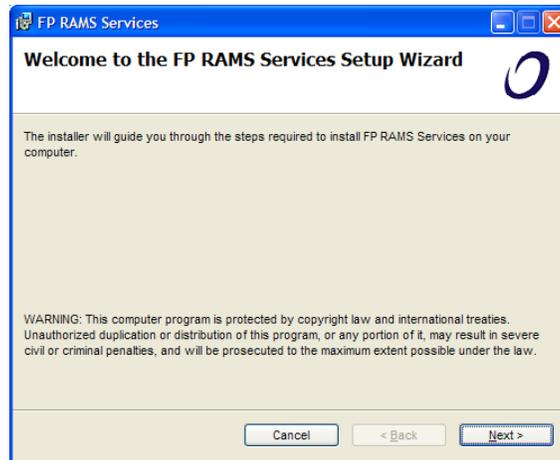
**Port Number control**

The TCP/IP port number for the remote interface connection. Set to any unused port number (default is 4122). The same port number has to be set at the other end of the connection. Several TCP/IP connections may use the same port.

## 2. Setting up FPRAMS WMI Service

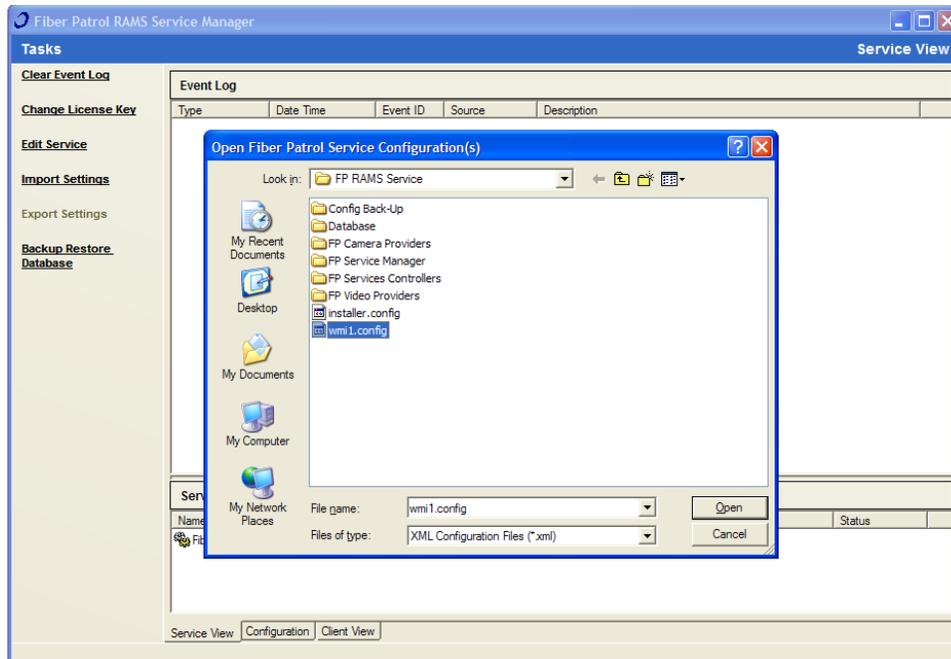
### Install FPRAMS WMI Service

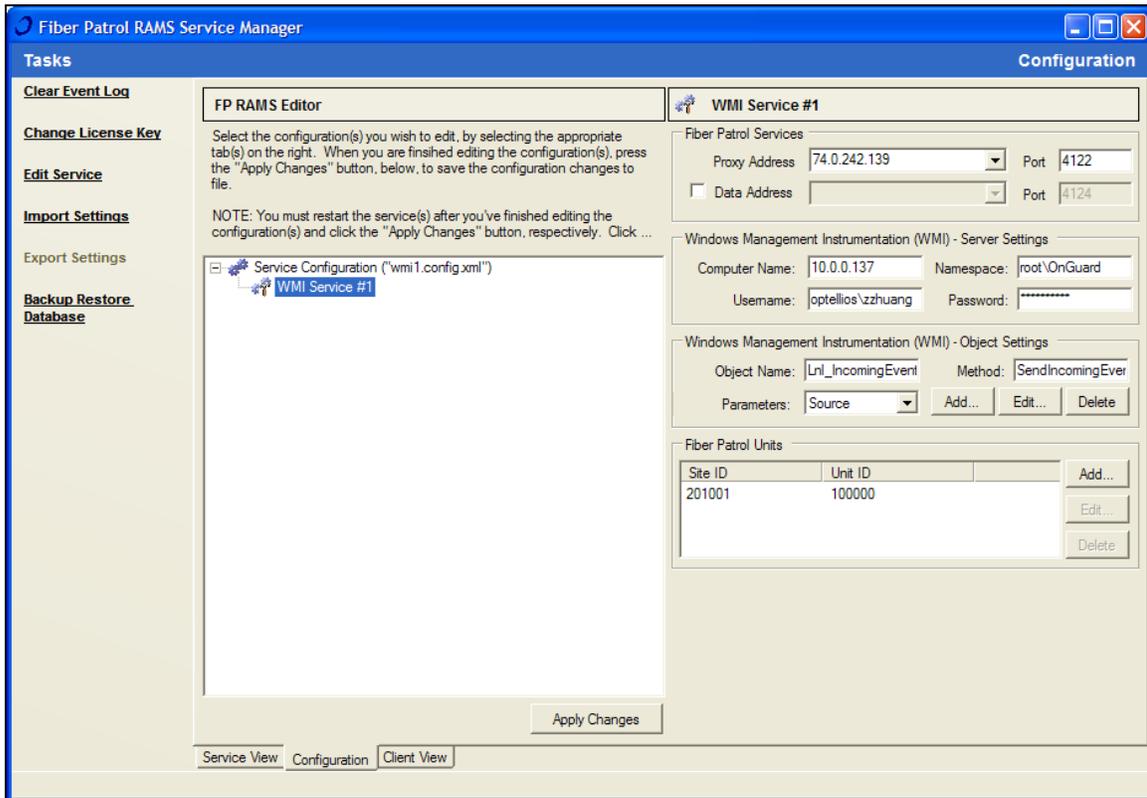
FPRAMS WMI service can be installed on any computer that has network access to both the FiberPatrol® unit and the Lenel OnGuard server, including FPRAMS server if available. Accept all default settings while installing FPRAMS WMI service.



### Configure FPRAMS WMI service

“FiberPatrol® RAMS Service Manager” (Service Manager) can be used to configure and control the FPRAMS WMI service. Service Manager can be accessed from the icon on the desktop or using Start menu (*Start > All Programs > Optellios > FP Service Manager*).





- Select a service configuration file (wmi1.config.xml) from C:\FP RAMS Service folder in the Service Manager, then go to the configuration tab and select WMI Service #1.

Provide the following information regarding FiberPatrol Intrusion Detection System (FP-IDS):

- Proxy Address and Port: the IP address and port of FiberPatrol unit (or FPRAMS alarm proxy service)
- Provide the following information regarding Lenel OnGuard Server:
  - Computer Name : the name or IP address of the OnGuard Server
  - Name Space: the WMI name space; for OnGuard, use "root\OnGuard"
  - User Name and Password: the credential to connect to OnGuard Server DataConduIT. If no credential is provided, the credential of the FPRAMS WMI service account will be used.

Provide the following information regarding Lenel OnGuard DataConduit:

- Object Name: For OnGuard, use "Inl\_IncomingEvent"
- Method: For OnGuard, use "SendIncomingEvent"
- Parameters: For OnGuard, the following parameters need to be provided:
  - Source: e.g. FPRAMS
  - Device: e.g. FPRAMS.UNIT.100000
  - SubDevice: e.g. FPRAMS.ZONE.6
  - Description: e.g. FiberPatrol

These parameters need to be identical to what will be defined in OnGuard DataConduit source. A generic form of the parameter format is Prefix+Type+Suffix.

**Example:** We setup FPRAMS as the DataConduit Source, and we would like to define a few DataConduit Devices, one for each FP-IDS unit, in the format FPRAMS.UNIT.UnitID. To accomplish this, the parameter is defined as

- Prefix: "FPRAMS.UNIT."
- Type: select "UnitID"
- Suffix: leave blank

Fields from FiberPatrol® alarm report that can be used to define the type parameters are list below:

- Site ID,
- Unit ID,
- Zone ID,
- Site Name, available only when connected to FPRAM Data Service.
- Zone Name, available only when connected to FPRAM Data Service.
- Footmark, available only when connected to FPRAM Data Service.
- Alarm Data Time, available only when connected to FPRAM Data Service.

FP WMI Parameter Information

FP WMI Method Parameter Information

Name: Source

Value:

Prefix	Type	Suffix
FPRAMS	Blank	

Remove

Append New Parameter Value

Prefix:

Suffix:

Type:

- Blank
- SiteID
- UnitID
- ZoneID
- SiteName
- ZoneName
- Footmark

OK

Provide the following information regarding FiberPatrol units:

- A list of FiberPatrol® units that need to send alarms to OnGuard, defined using SiteID and UnitID
- (Optional) each FiberPatrol® unit can override certain WMI settings by specifying the settings to be used for this unit only. Any non-overridden settings will be inherited from the general settings.

The screenshot shows a dialog box titled "FP WMI Unit Information". It is divided into several sections:

- Fiber Patrol Unit Settings:** Contains two text input fields: "Site ID" and "Unit ID".
- Override Proxy Settings:** A checkbox is unchecked. Below it is a sub-section "Fiber Patrol Proxy Settings" with a "Proxy Address" dropdown menu and a "Port" text box containing "4122".
- Override WMI Settings:** A checkbox is unchecked. Below it are two sub-sections:
  - Windows Management Instrumentation (WMI) - Server Settings:** Contains four text input fields: "Computer Name", "Namespace", "Username", and "Password".
  - Windows Management Instrumentation (WMI) - Object Settings:** Contains three text input fields: "Object Name", "Method", and "Parameters". Below the "Parameters" field are three buttons: "Add...", "Edit...", and "Delete".

At the bottom of the dialog are "OK" and "Cancel" buttons.

After configuration, click on “Apply Changes” button to retain the changes made.

### Control FPRAMS WMI service

FPRAMS WMI service can be started or stopped from the service view tab. Right click on the “Fiber Patrol WMI service” and select “Start” or “Stop”.

### 3. Configure OnGuard Software

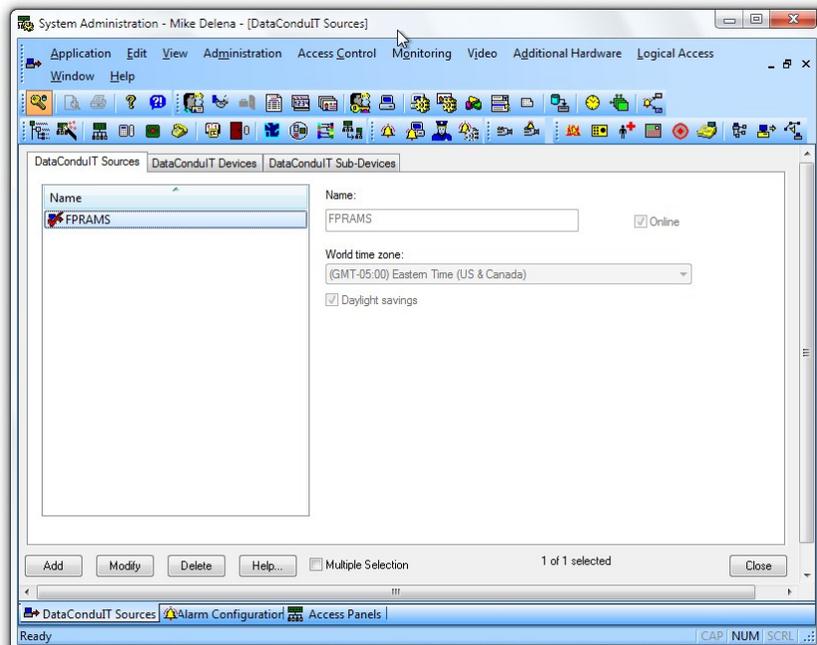
#### Configure Single Sign-On

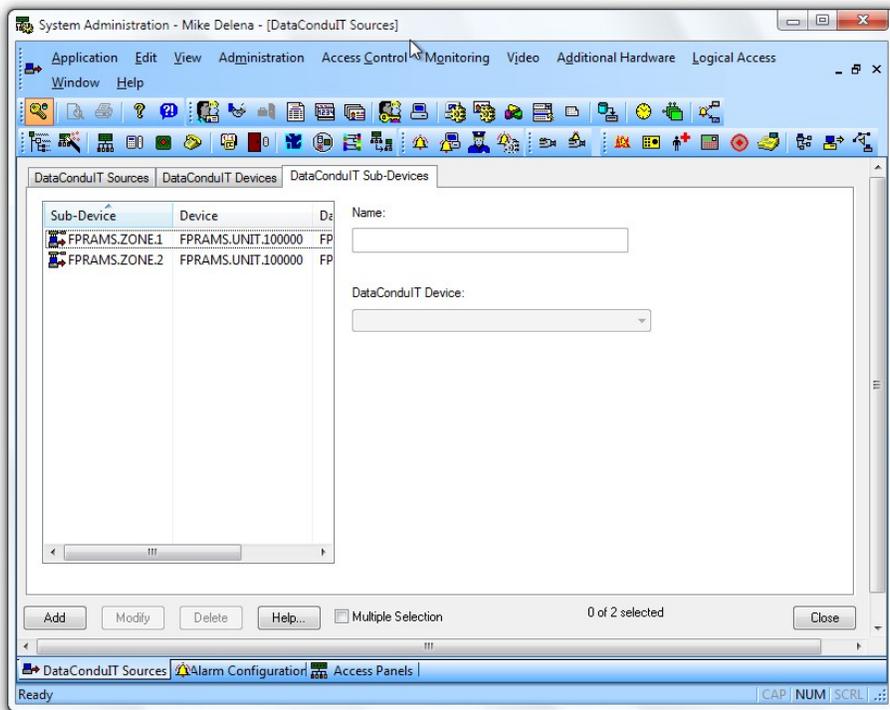
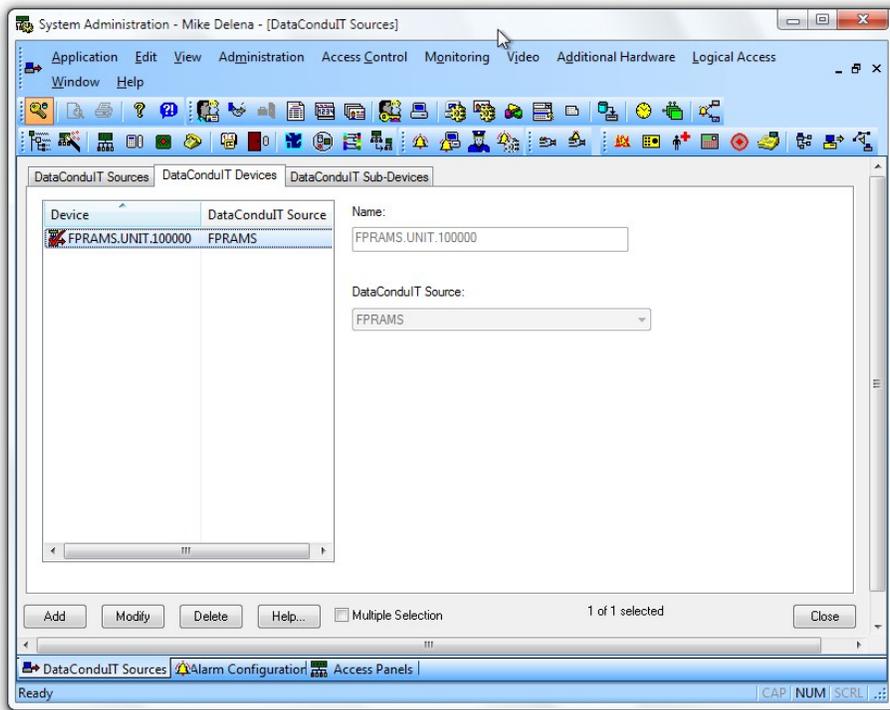
Refer to the installation.pdf document provided by OnGuard to configure Single Sign On. If using Active Directory, do this additional step:

Problem	Check
Receiving events may not work with Active directory.	<p>Use <b>domain.exe</b> located in the <b>TroubleShooting</b> directory of the DataConduIT documentation file structure to determine if this may be the problem. If the NT4Domain is different from the W2KDomain, then you will need to update the LNL_DIRECTORY.DIR_HOSTNAME to match the NT4Domain. In case this is Oracle, please use all upper case. A sample SQL query to do this is below; it assumes the NT4Domain name is "Lenel" from <b>domain.exe</b> and that the directory to be updated is LNL_DIRECTORYID = 1.</p> <pre>update lnl_directory set dir_hostname = 'LENEL' where lnl_directoryid=1</pre>

#### Set up DataConduIT Source in OnGuard

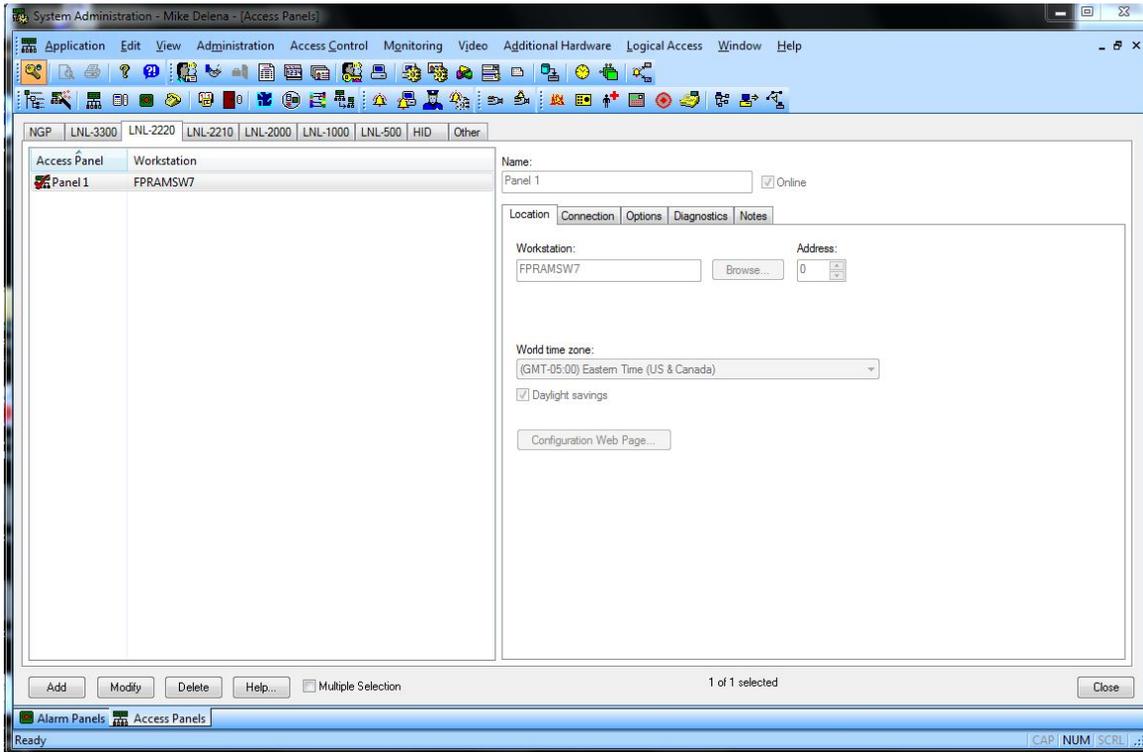
Set up a DataConduIT source, devices and subdevices using the OnGuard's System Administration Software, from menu "Additional Hardware" > "DataConduIT Sources." The naming standard should be identical to what was set up in FPRAMS WMI service configuration.





### Add a Virtual Access Panel

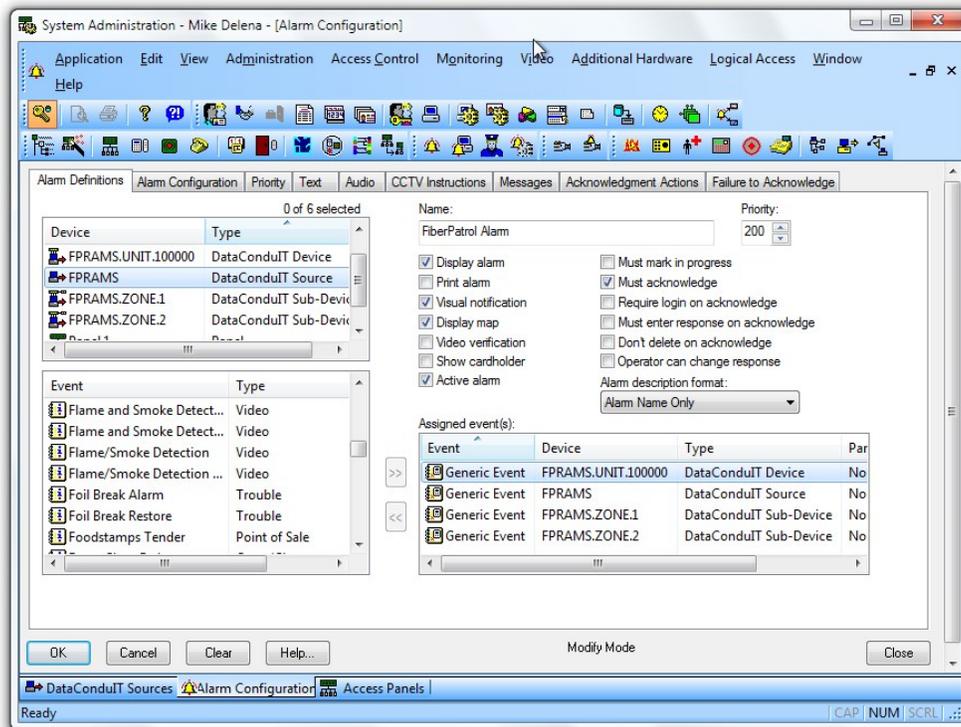
Use Access Control menu in the System Administration application to add a dummy LNL-2220 panel. If this is not done, alarms will not be displayed on the Alarm Monitoring panel.



### Set up FiberPatrol Alarms

Optionally a special alarm type can also be defined for FiberPatrol® IDS perimeter intrusion detection system. In OnGuard's System Administration software, add a new alarm definition from "Monitoring"  "Alarms..."

In the sample shown above, a FiberPatrol alarm is defined as a Generic Event generated by FPRAMS DataConduit sources and all its devices and sub devices, which should be identical to what defined in the FPRAMS WMI service configuration tool.



### Configure and Start Lenel Communication Service

1. Access the Services window per the instructions below
2. Right click on the “LS Communication Server”
3. Select Properties.
4. Change the startup type of the service to “Automatic”
5. Start the service
6. Click “OK” to close the properties window

### Configure and Start Lenel DataConduit Service

1. Access the Services window per the instructions below
2. Right click on the “LS DataConduit Service”
3. Select Properties
4. Change the startup type of the service to “Automatic”
5. Start the service
6. Click “OK” to close the properties window

## How to Access the Services Window

1. Open Windows Control Panel from the Start menu
2. Double Click on "Administrator Tools"
3. Double Click on "Services"

## Define Perimeter Map

Optionally a perimeter map can also be defined to display where the alarm occurs. Figure below shows a basic perimeter map, containing the DataConduit device and sub devices. When there is alarm reported by any of these sub devices, the map can be configured to automatically pop up and the alarmed sub device will flash to indicate the location of the alarm.

