

Product Integration Information

April 16, 2013

Manufacturer:	Lenel
Model number:	OnGuard
Туре:	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

OnGuard API Used for Integration	DataCondulT
Operating Systems Supported	Windows XP SP3, Windows 7
OnGuard Database Supported	MS SQL Server Express 2008

Functional Features of the	Customers can set up DataConduIT devices
Interface	associated with individual FiberPatrol virtual
	intrusion detection zones, causing Lenel OnGuard
	to receive, display, and log alarms reported by
	FiberPatrol Intrusion Detection Systems.

System Topology:

Fiber<mark>Patrol</mark> X ID5



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.

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Current Alarms Alarm Hist	tory Even	t Logging	Event Pro	cessing	Frame Processing	Data A	Analysis	Data Acquisition	Hardware (Contro
Remote Interface Setup	Reference	Date	Time	Duration	Status	Level	Footmark	Latitude	Longitude	^
Select Connection	110960	05\30\06	11:40:10	00:02	complete	1.9	55	40.87449	-74.03953	
Connection A	110959	05/30/06	11:39:58	00:00	complete	0.9	4/15	40.87286	-74.03924	
Enable 🗸 Broadcast 🗸										
Interface Mode										
TCP-IP server										
IP Address	4	_		_			_			
			Dom							
Port Number			Rem	lote	interra	ice				
27	N N						_			
Remote Interface Monitor	Event Log									~
	05/30/06 11:	40:27 0120 A	arm 110959 cle arm 110960 cle	eared by Loca	Operator					^
Connected	05/30/06 11:	10:10 0110 A	arm 110960 ge	enerated	soperato:					
Remote Client	05/30/06 11:	39:58 0110 A	arm 110959 ge emote Operato	r FP1100-24	42 connected					=
FP1100-2442	05/30/06 11:	39:13 0040 S	stem status is	Armed						
Communication Monitor	05/30/06 11:	8:52 0010 C	neck point 5 - p	assed						
	05/30/06 11:	38:52 0010 C 38:52 0010 C	heck point 4 - p heck point 3 - p	assed assed						
	05/30/06 11:	38:52 0010 C	heck point 2 - p	assed						~
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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*).





Fiber Patrol RAMS Se	rvice Manager		
Tasks		Configura	tion
Clear Event Log	FP RAMS Editor	🛷 WMI Service #1	
<u>Change License Key</u> <u>Edit Service</u>	Select the configuration(s) you wish to edit, by selecting the appropriate tab(s) on the right. When you are finsihed editing the configuration(s), press the "Apply Changes" button, below, to save the configuration changes to file.	Fiber Patrol Services Proxy Address 74.0.242.139 Port 4122 Data Address Port 4124 	
Import Settings Export Settings Backup Restore Database	NOTE: You must restart the service(s) after you've finished editing the configuration(s) and click the "Apply Changes" button, respectively. Click	Windows Management Instrumentation (WMI) - Server Settings Computer Name: 10.0.0.137 Namespace: root/OnGuard Usemame: optellios/zzhuang Password: ********* Windows Management Instrumentation (WMI) - Object Settings Object Name: Lni_IncomingEvent Method: SendIncoming Parameters: Source Add Edt Dek Fiber Patrol Units	Ever ete
	Apply Changes Service View Configuration Client View		

• 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 DataCondulT. 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:
 - o Source: e.g. FPRAMS
 - o Device: e.g. FPRAMS.UNIT.100000
 - o 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 DataCondulT Source, and we would like to define a few DataCondulT 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.

0	FP WMI Par	ameter Informa	ition			×
	FP WMI Metho	d Parameter Inform	ation			_
	Name:	Source				
	Value:	Prefix	Туре	Suffix		1
		FPRAMS	Blank			
					Remove	
	Append New P	arameter Value —	_			,
	Prefix:		Type:	Blank	-	
	Suffix:			Blank SiteID UnitID		
			ОК	ZoneID SiteName ZoneName Footmark		



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.

J FP WMI Unit Information	×
Fiber Patrol Unit Settings	
Site ID:	Unit ID:
Override Proxy Settings	
Fiber Patrol Proxy Settings	
Proxy Address	✓ Port 4122
Ovenide WMI Settings	
Windows Management Instrumentation	(WMI) - Server Settings
Computer Name:	Namespace:
Usemame:	Password:
Windows Management Instrumentation	(WMI) - Object Settings
Object Name:	Method:
Parameters:	Add Edit Delete
	OK Cancel

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.	Use domain.exe located in the TroubleShooting 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 domain.exe and that the directory to be updated is LNL_DIRECTORYID = 1.
	<pre>update lnl_directory set dir_hostname = 'LENEL' where lnl_directoryid=1</pre>

Set up DataCondulT 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.

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PRAMS.ZUNE2 PPRAMS.UNI.100000	FΡ	DataCondulT Device:
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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.

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NGP LNL-3300 LNL-2220 LNL-2210 LNL-5000 LNL-500 HID Other				
Access Panel Workstation	Name:			
Panel 1 FPRAMSW7	Panel 1			
	Location Connection Options Diagnostics Notes			
	Workstation: Address:			
	FPRAMSW7 Browse 0			
	World time zone:			
	(GMT-05:00) Eastern Time (US & Canada) *			
	☑ Daylight savings			
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Add Modify Delete Help Multiple Selection	1 of 1 selected	Close		
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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"

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



👼 System Administration - Mike Delena - [Alarm Configuratio	n]			
Application Edit View Administration Access Co	ntrol Monitoring Video Additional Hardw	are Logical Access Window _ 🗗 🗙		
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[] [] [] [] [] [] [] [] [] [] [] [] []				
Alarm Definitions Alarm Configuration Priority Text Audio CCTV Instructions Messages Acknowledgment Actions Failure to Acknowledge				
0 of 6 selected	Name:	Priority:		
Device Type	FiberPatrol Alarm	200		
FPRAMS.UNIT.100000 DataConduIT Device	Display alarm Must mark	in progress		
FPRAMS DataConduIT Source	Print alarm V Must ackn	owledge		
FPRAMS.ZONE.1 DataConduIT Sub-Devic	Visual notification Require log	gin on acknowledge		
PRAMS.ZONE.2 DataCondulT Sub-Devic	V Display map Must enter	response on acknowledge		
Video vertication Don't delete on acknowledge				
Event Tyre A	Active alam Alam descripti	ion format:		
EVent Type	Alarm Name (Only 👻		
Flame and Smoke Detect Video	Assigned event(s):	=		
Flame/Smoke Detection Video	Event Device	Type Par		
Flame/Smoke Detection Video	>> Generic Event FPRAMS.UNIT.100000	DataConduIT Device No		
Foil Break Alarm Trouble	Generic Event FPRAMS	DataConduIT Source No		
Foil Break Restore Trouble	Generic Event FPRAMS.ZONE.1	DataConduIT Sub-Device No		
Foodstamps Tender Point of Sale	Generic Event FPRAMS.ZONE.2	DataConduIT Sub-Device No		
4 III •	• III	- F		
OK Cancel Clear Help	Modify Mode	Close		
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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 DataCondulT Service

- 1. Access the Services window per the instructions below
- 2. Right click on the "LS DataCondulT 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.



