# **⊙CHIPKIN**

# Avigilon ACM Ethernet Driver FS-8705-107

Chipkin - Enabling Integration

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# **1** Avigilon ACM Description

The Avigilon ACM Driver allows the FieldServer to transfer Avigilon ACM XML event data from devices over Ethernet. The Avigilon ACM Driver uses TCP. The port is configurable and the driver supports opening multiple TCP ports to receive Avigilon ACM XML event data.

The FieldServer is a passive Server, listening on the configured TCP port. When configured, the FieldServer listens for Avigilon ACM XML event data. Upon receiving the data, the data is parsed based on the configured Tasks and the values are extracted. These values are stored on the FieldServer to be mapped to other protocols or simply to be viewed.

The information that follows describes how to expand upon the factory defaults provided in the configuration files included with the FieldServer.

# 2 Connection Diagram

This block diagram lists common network connections that can monitor Avigilon ACM XML event data using other protocols like Modbus® RTU/TCP, BACnet<sup>®</sup> and HTTP.



# **3** Avigilon ACM Configuration

To configure the Avigilon ACM driver, from the home page, visit the following link: <u>http://{IP\_ADDRESS}/chipkin/ui/#/avigilonACM</u>

To configure the FieldServer, follow the instructions below to add a Connection (physical port), Nodes (TCP Ports to listen for data), and finally Tasks (the data to extract from the Avigilon ACM XML event data).

## 3.1 Create Connection

To set up the FieldServer as an Avigilon ACM server, first create a connection. The connection contains information about the physical port to use.

Connections									
Configure the p	Configure the physical ethernet port for the Passive XPath Driver								
Name	Туре	Parameters	Actions						
Create Connect	ion								

- 1. Click on the "Create Connection" button to open the Create Connection form.
- 2. Fill out the fields in the form. The fields are as follows:

COLUMN TITLE	FUNCTION	LEGAL VALUES
Name	Name of the server, used internally as an identifier	Text, must be unique
Туре	The type of connection this is	ethernet
Parameters: Port	The physical port on the FieldServer to use	n1

3. Click the "Save" button to add the connection.

If successful, the new entry will be populated in the Connections table:

<b>Connections</b> Configure the physical ethernet port for the Passive XPath Driver							
Name	Туре	Parameters	Actions				
Ethernet	Ethernet	{ "port": "n1" }	Edit Delete				
Create Connection							

## 3.2 Create Node

Follow the instructions below to configure the TCP ports to open for receiving Avigilon ACM XML event data.

Nodes				
Configure TCP ports	to listen for XML Data			
Name	Connection	Port	Туре	Actions
Create Node				

- 1. Click on the "Create Node" button to open the Create Node form.
- 2. Fill out the fields in the form. The fields are as follows:

COLUMN TITLE	FUNCTION	LEGAL VALUES
Name	The name of the Avigilon ACM XML event data being received	Text, must be unique
Connection	The name of the physical port.	Text (Use the name of the Connection created in the previous section)
Port	The TCP port to use to receive the Avigilon ACM XML event data	Any valid TCP port not in use, 5104
Туре	The type of data being received	xml

\* Bolded values are defaults

3. Click on the "Save" button to add the node.

If successful, the new entry will be populated in the Nodes table:

Nodes								
Configure TCP ports to lis	Configure TCP ports to listen for XML Data							
Name	Connection	Port	Туре	Actions				
avigilonACM	Ethernet	5104	Xml	Edit Delete				
Create Node								

Repeat the above steps to add additional ports to receive other Avigilon ACM XML event data.

### 3.3 Create Task

Create tasks to add Avigilon ACM Event Names and Source Names used to extract values from the Avigilon ACM XML event data.

Tasks								
Configure XPat	Configure XPath Tasks to extract values from the XML Data							
Name	Node	Data Broker	Xpath	Actions				
Create Task								

- 1. Click on the "Create Task" button to open the Create Task form.
- 2. Fill out the fields in the form. The fields are as follows:

COLUMN TITLE	FUNCTION	LEGAL VALUES
Name	The name of the variable to add.	Text, must be unique
Node	The node that this variable belongs to.	Text (Use the name of a node created in the previous section)
DataBroker: Name	The data array in the protocol engine to retrieve the value.	One of the Data Array names
DataBroker: Start	The starting offset in the array to retrieve the value	0 to ("Data_Array_length" - 1)
Туре	The expected payload to receive, either "IFTTT", or "Value Read"	IFTTT - (If This Then That) Set the value specified in "Value To Set" Value Read – Read the value from the
		element specified in "Read Value Node"

Plasectrx Eventname	(case insensitive) The name of the event to find within a payload element plasectrxEventname	Text (case insensitive)
Plasectrx Sourcename	(case insensitive) The name of the event to find within a payload element plasectrxSourcename	Text (case insensitive)
Value To Read	If this task type is IFTTT then this is the value that will be written to the database	Integer
Read Value Node	The name of the XML node that will be read and stored in the system	String

3. Click the "Save" button to add the task.

If successful, the new entry will be populated in the Tasks table:

Tasks								
Configure Avigilon ACM Tasks to ext	ract values fror	n the XML Data	3					
Name	Node	Data Broker	Туре	Plasectrx Eventname	Plasectrx Sourcename	Value To Set	Read Value Node	Actions
Wedge Door_DoorPosition_Open	avigilonACM	PE:DA_AI:0	IFTTT	Door opened	Wedge Door	1		Edit Delete
Wedge Door_LastCardSwipe	avigilonACM	PE:DA_AI:4	Value Read	Local Grant	Wedge Door		plasectrxCardno	Edit Delete
Create Task								



## 3.4 Saving the Server Configuration

When the configuration is complete, click on the "Save Configuration" button to save all of the updates and changes. For the configuration to take effect, reboot the system.



## 3.5 Resetting the Server Configuration

To clear the configuration and start over, click the "Reset Configuration" button. Then follow the instructions in the sections above to create new connections, nodes, and tasks



## 4 License

Some drivers such as Avigilon ACM require a license product key. To generate this license product key a pre-key from the hardware is required.

## 4.1 How to generate a pre-key

- 1. Goto the license page <a href="http://{IP\_ADDRESS}/chipkin/ui/#/chipkinLicenseDriver">http://{IP\_ADDRESS}/chipkin/ui/#/chipkinLicenseDriver</a>
- 2. Click the Get Pre-Key button.

The Chipkin License Driver allows you to do the following

- Download a prekey to request a product key
- Upload a product key
- · View the current enabled drivers

Click the Get Prekey button to download the prekey file

# Get PreKey

The License Driver allows you to do the following

- · Download a prekey to request a product key
- Upload a product key
- · View the current enabled drivers

Click the Get Prekey button to download the prekey file

Get PreKey

A pre-key.txt file will be created and downloaded to your system. Send this pre-key.txt and your Job number (FSE####) to Chipkin support.

## 4.2 How to activate a product key

Chipkin support can generate a license product key from the hardware pre-key. The product key will be sent as a text file via email.

- 1. Goto the license page <a href="http://{IP\_ADDRESS}/chipkin/ui/#/chipkinLicenseDriver">http://{IP\_ADDRESS}/chipkin/ui/#/chipkinLicenseDriver</a>
- 2. Click "Browse" button and select the productkey-XXXXX.txt file provided to you by Chipkin Support.
- 3. Click the "Upload Product Key" button and wait for the product key to finish uploading.

Upload a product key. Select the product key to upload, then click the Upload Product Key button							
Choose a productKey file or drop it here	Browse						
Upload Product Key							

The list of enabled product codes can be viewed in the "Enabled Product Codes" list.



# 5 Importing and Exporting Configurations

It is possible to export the current configuration to back it up or simply to make some edits. Users can also import either the entire configuration via a zip file or a PE (Protocol Engine) configuration.

## 5.1 How to Export the Configuration

- 1. Goto the system configuration page <a href="http://{IP\_ADDRESS}/chipkin/ui/#/chipkinLicenseDriver">http://{IP\_ADDRESS</a>/chipkin/ui/#/chipkinLicenseDriver</a>
- 2. Click the Export Configuration button.

# Import/Export System Configuration

Export the current configuration or import a configuration. The operations apply to the entire configuration

Click the export configuration button to download current configuration as a zip file

Export Configuration

# 5.2 How to Import the Configuration

The file to import the configuration must be a zip file. The zip file should contain the following folders:

- ae this folder contains any configuration files for the ae configuration
- documents this folder contains any driver specific documents. For example, license product keys, etc.
- pe this folder contains one config.csv file for the pe configuration.

To make sure the folder directory is correct, do an Export first, then extract the files, edit them, then zip them up again.

To import the configuration:

- 1. Goto the system configuration page <a href="http://{IP\_ADDRESS}/chipkin/ui/#/chipkinConfiguration">http://{IP\_ADDRESS</a>}/chipkin/ui/#/chipkinConfiguration
- 2. Click the "Browse" button in the "Import/Export System Configuration" section and select the zip file containing the configuration to import.
- 3. Click the "Import Configuration" button and wait for the configuration to finish importing.
- 4. If successful, a success message will appear prompting a reboot of the Fieldserver for the changes to take effect.

Import/Export System Configuration					
Export the current configuration or import a configuration. The operations apply to the entire configuration					
Click the export configuration button to download current configuration as a zip file					
Export Configuration					
Import a configuration zip file. Select the file to import, then click the Import Configuration					
Choose a configuration zip file or drop it here	Browse				
Import Configuration					

Import/Export System Configuration					
Export the current configuration or import a configuration. The operations apply to the entire configuration					
Click the export configuration button to download current configuration as a zip file					
Export Configuration					
Import a configuration zip file. Select the file to import, then click the Import Configuration					
Choose a configuration zip file or drop it here Browse					
Import Configuration					

## 5.3 How to Import a PE Configuration

It is possible to import a PE (Protocol Engine) configuration separately. To import a PE configuration:

- 1. Goto the system configuration page <a href="http://lp\_ADDRESS">http://lp\_ADDRESS</a>/chipkin/ui/#/chipkinConfiguration
- 2. Click the "Browse" button in the "Import Specific Configuration" section and select the csv file containing the pe configuration to import.
- 3. Click the "Import PE Configuration" button and wait for the configuration to finish importing.
- 4. If successful, a success message will appear prompting a reboot of the Fieldserver for the changes to take effect.

Import Specific Configuration				
Use the following control to import a specific portion of the configuration, this includes: <ul> <li>Import PE Configuration</li> </ul>				
Choose a pe config.csv file or drop it here	Browse	nport PE Conliguration		
Import PE Configuration				

# 6 Revision History

This table summarizes the update history for this document. Please contact Chipkin for an updated version of this document if required.

DATE	AGENT	REVISION	COMMENTS
20 Apr 2021	ЛК	1	Created initial document
30 Apr 2021	YC	2	Updated to new template

# Appendix A. Advanced Topics

## Appendix A.1 Debugging the Avigilon ACM Server

- If the FieldServer is not receiving any Avigilon ACM XML event data, verify in that the device sending the Avigilon ACM XML event data is using the correct IP Address of the FieldServer and is using the configured TCP port.
- Check the Stats page to see if the server is listening and receiving data.
- If the FieldServer is not extracting values from the Avigilon ACM XML event Data, check that the PlasectrxEventname and the PlasectrxSourcename are valid.

# Appendix B. Examples

## Appendix B.1 Examples Configuration

```
{
  "ae": {
    "avigilonACM": {
      "connections": [
          "type": "ethernet",
          "name": "Ethernet",
          "parameters": { "port": "n1" }
      ],
      "nodes": [
          "connection": "Ethernet",
          "type": "xml",
          "name": "AvigilonACM",
          "port": 12345
     ],
"tasks": [
          "node": "AvigilonACM",
          "dataBroker": { "pe": { "Name": "DA_AI", "Start": "0" } },
          "name": " Wedge Door_DoorPosition_Open ",
          "type": "IFTTT",
          "plasectrxEventname": "Door opened",
          "plasectrxSourcename": "Wedge Door",
          "valueToSet": "1"
        },
          "node": "AvigilonACM",
          "dataBroker": { "pe": { "Name": "DA_AI", "Start": "4" } },
          "name": "Wedge Door_LastCardSwipe",
          "type": "Value Read",
          "plasectrxEventname": "Local Grant",
          "plasectrxSourcename": "Wedge Door",
          "valueToSet": "plasectrxCardno"
  }
```

### Appendix B.2 Avigilon ACM IFTTT XML Example Payload

```
<?xml version="1.0" encoding="UTF-8"?>
 <EVENT>
                                                                  <plasectrxGatewayDN>
                                                                                                                                 cn=141efa1afdf04121,ou=gateways,dc=plasec
                                                                  </plasectrxGatewayDN>
                                                                  <cn>930e6fcd55904191</cn>
                                                                <plasectrxRecdate>20210309085856-0600</plasectrxRecdate>
                                                                  <plasectrxPaneldate>20210309085857-0600</plasectrxPaneldate>
                                                                  <plasectrxRecdateUTC>20210309145856Z</plasectrxRecdateUTC>
                                                                  <plasectrxPaneldateUTC>20210309145857Z</plasectrxPaneldateUTC>
                                                                  <plasectrxEvtypename>System</plasectrxEvtypename>
                                                                  <plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundColor></plasectrxBackgroundC
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                                                                  <plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plasectrxAckForegroundColor></plase
                                                                  <plasectrxEventname>Door opened</plasectrxEventname>
                                                                  <plasectrxPaneIname>Demo_Wedge</plasectrxPaneIname>
                                                                  <plasectrxSourcename>Wedge Door</plasectrxSourcename>
                                                                  <plasectrxPointaddress>446</plasectrxPointaddress>
                                                                  <plasectrxPointDN>cn=446,ou=points,dc=plasec</plasectrxPointDN>
                                                                  <plasectrxEvtypeaddress>10</plasectrxEvtypeaddress>
```

</EVENT>

#### B.2.1. Avigilon ACM Value Read XML Example Payload

<?xml version="1.0" encoding="UTF-8"?> <EVENT>

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# Appendix C. Marketing

# Appendix C.1 Case Study

A series of case studies for Avigilon can be found here

[ToDo] – Add Case Study or link to Case Studies...

# Appendix C.2 Keyword

XML, Avigilon ACM, Avigilon ACM XML Server, XML-TCP

# Appendix D. Glossary of terms

- XML Extensible Markup Language
- TCP Transmission Control Protocol
- ACM Access Control Manager