

# Avigilon Control Center System Integration Guide

with Picture Perfect 4
UTC Fire & Security
A United Technologies Company

INT-PP4-A-Rev3

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# Introduction

The UTC Picture Perfect<sup>®</sup> 4 (PP4) and Avigilon Control Center software integration allows for the two systems to share alarms. The integration enables alarms created in one software to be mapped to the other software, so alarms can be monitored in both.

#### **Requirements**

Vendor	Requirements
Avigilon	Control Center Server Software 4.10 or later
Avigilon	Avigilon Third Party Integration License: ACC-PP4-NVR
Avigilon	Avigilon PP4 Gateway software integration: AvigilonPicturePerfect4Gateway.exe The file can be downloaded at <u>http://avigilon.com/#/support-and-downloads/for-software/integration-and-plug-in-downloads/</u>
UTC	Picture Perfect 4 with Service Pack 3
UTC	Picture Perfect External Interface (EIF) license

### **For More Information**

For more detailed information about the procedures outlined in this guide, refer to the specific software documentation.

- Avigilon Control Center Client User Guide
- Avigilon Control Center Server User Guide
- ODBC and JDBC Connection Instructions for the Picture Perfect 4.0 Informix Database
- Picture Perfect 4 User Manual

# Installation

### Server

Install the following on any server in your network in the following order:

- 1. Install the Picture Perfect Server software.
- 2. Install the Avigilon Control Center Server software.
- 3. Set up an Open Database Connectivity (ODBC) connection to the Picture Perfect database.

The Avigilon PP4 integration communicates with the Picture Perfect database through an ODBC connection.

a. Install the 32 bit version of the IBM Informix Client SDK software, even if you are running a 64 bit system:

http://www14.software.ibm.com/webapp/download/search.jsp?rs=ifxdl

• If you are installing the IBM Informix Client on a 64 bit system, install the software through command prompt.

Run command prompt as an Administrator then enter the following commands:

- set PATH=%WINDIR%\SysWOW64;%PATH%
- run installer
- b. Configure the ODBC and JDBC connection as described in the manual: *ODBC* and JDBC Connection Instructions for the Picture Perfect 4.0 Informix Database.
  - When you complete the "Setting up an ODBC Data Source" procedure for a 64 bit system, do not access the IBM Informix ODBC Driver from the Control Panel. Access the driver set up window from here: C:\Windows\Syswow64\odbcad32.exe
- c. In the ODBC Data Source Administrator dialog box, duplicate the IBM INFORMIX ODBC DRIVER entry from the User DSN tab to the System DSN tab.
- 4. Install the Avigilon PP4 Gateway software integration.

### Client

Install the following as needed:

• Install the Avigilon Control Center Client software on the computers that require access to the Avigilon Control Center System

### **Checking the License**

After you have installed all the required software, check that the licenses were properly applied.

To check the Avigilon Third Party Integration License (ACC-PP4-NVR):

- 1. Open the Avigilon Control Center Admin Tool.
- 2. Select the **Settings** tab and click **Licensing**. The License Activation dialog box appears.

The dialog box must say *Integration Connections: Yes* or the software was not properly licensed.

To check the Picture Perfect license:

Open Picture Perfect and select the Help menu and select About Picture Perfect.
 In the dialog box, check that the EIF license is displayed.

# Configuration

The Avigilon PP4 Gateway software is used to direct alarm communication between the Picture Perfect and Avigilon Control Center software. Configure the two applications for their connection to the Avigilon PP4 Gateway software.

## Adding an Integration User in Avigilon

To protect the security of the Avigilon Control Center Server, add a user to the Avigilon software specifically for connecting to the integration. See the *Avigilon Control Center Client User Guide* for details about how to add users.

This user must have the following permissions to enable all the integration features:

• View Live Images

The Avigilon PP4 integration user name and password is required to add Avigilon Servers to the Avigilon PP4 Gateway configuration application.

## **Picture Perfect Alarm Configuration**

Alarms are manually created in the Picture Perfect software. Create the alarms needed for the integration, and route the alarms as required. See the alarms configuration section in the *Picture Perfect 4 User Manual* for more information.

## **Avigilon Alarm Configuration**

Alarms are manually created in the Avigilon Control Center Client software. Create the Avigilon alarms you want mapped to the alarms in the Picture Perfect software, then assign the required cameras and settings for the alarm.

- In the Avigilon Control Center Client software, select **Tools > Setup** then select the Avigilon Server to define the alarm on.
- 2. On the server Setup dialog box, click **Alarms**.
- 3. On the Add Alarm dialog box, click **Add**.
- 4. On the Select Alarm Trigger Source page, select **External Software Event** from the **Alarm Trigger Source** drop down list and click **Next**.
- 5. On the Select Linked Cameras page, select the cameras to link to this alarm, and set the **Pre-Alarm Record Time** and the **Recording Duration**. Click **Next**.
- 6. Select the groups or users who should receive alarm notifications, then click Next.
- 7. (Optional) If you would like to trigger an action when an alarm is acknowledged, select the **Activate selected digital output(s) on alarm acknowledgement** check box.
  - a. Select the digital outputs to be activated and specify the duration.

- b. Select the **Require user confirmation before activating digital output** check box if users need to confirm the alarm before the digital output action is initiated.
- c. Click Next.
- 8. Enter a **Name** for the alarm and set the alarm **Priority**. The alarm name is used to identify the alarm during the integration.
- 9. Ensure the **Enable Alarm** check box is selected and click **Finish**.

# Avigilon PP4 Gateway

The Avigilon PP4 Gateway is composed of two parts: the Avigilon PP4 Gateway Windows service that runs automatically in the background, and the Avigilon PP4 Gateway configuration application that is used to configure the connection and alarm mappings between the UTC and the Avigilon systems.

**NOTE:** Whenever the Avigilon PP4 Gateway configuration application is opened, the Avigilon PP4 Gateway service is stopped.

### **Configuring Server Settings**

Configure the Avigilon PP4 Gateway to access the two applications.

The Avigilon PP4 Gateway configuration application remembers the server configuration, so you do not need to repeat this procedure if the settings remain the same.

- 1. Open the Avigilon PP4 Gateway software. Select **Start > All Programs > Avigilon > Avigilon Picture Perfect 4 Gateway**.
- 2. Complete the following fields:

Picture Perfect and ACC \$	Settings			×
Picture Perfect				
Hostname:	rhel48			
Request Manager Port:	8088		*	
User Id:	install			
Password:	•••••			
EIF Event Port:	20000		*	
Informix DB				
DSN:	DSN pphost			
Host:	rhel48			
Server:	rhel48			
Service:	sqlexec			
Protocol:	onsoctcp			
Database Name:	proteus			
User Id:	informix			
Password:	•••••			
Avigilon NVRs				
IP Address	User Na	me		
10.10.20.12 10.10.20.22 127.0.0.1	administ administ noptz	rator rator		
Add Remov	'e			
		OK		ncel
		<u> </u>		

• In the Picture Perfect area, complete the required fields to access the Picture Perfect server.

- In the Informix DB area, complete the required fields to access the ODBC that was set up as part of the integration installation. See *Installation* on page 2 for more information.
- 3. Click **Add** to add the Avigilon Server.

Add Avigilon	NVR
IP Address:	Port: 50080
User Name:	
Password:	
	<u>O</u> K Cancel

4. In the dialog box, enter the Avigilon Server IP Address, Port, User Name and Password, then click OK.

Use the username and password created for the integration. See *Adding an Integration User in Avigilon* on page 4.

5. Click **OK**.

The Avigilon PP4 Gateway searches both software systems for alarms that can be mapped together.

#### **Mapping Alarms**

- 1. Open the Avigilon PP4 Gateway configuration application.
- 2. Confirm that the server configurations are correct then click **OK**.

3. In the Picture Perfect Alarms area, select an alarm to map.

Alarm Mappings					
Picture Perfect Alarms		1	Mapped Alams		
Micro Door Read	er Input Logical		Picture Perfect Alarm	Avigilon Alarm	NVR
Micro:			Input: 00-1-00 DOOR DI		
(2) - ryan micro	•		Input Group: ALARM HISTORY OVERFLOW	New Alarm 41	NVR-SERVER08
Input Group:					
(9) - M0 DOWNSTRE	AM MICRO COMM FAIL		Micro: ryan micro		
Alarm:			OVERFLOW	New Alarm 10	NVR-SERVER08
(9) - M0 DOWNSTRE	AM MICRO COMM FAIL		Alarm: ALARM HISTORY OVERFLOW		
		Add Mapping	Micro: MICRO 0		
Avigilon NVR Alarms			Input Group: Downstream - M0 DOWNSTREAM MICRO COMM FAIL	New Alarm 12	NVR-SERVER08
Alarm Name	▲ NVR ▲	Remove Mapping	Alarm: M0 DOWNSTREAM MICRO COMM		
New Alarm	ERUSHTON-1		TAL		
New Alarm	NVR-SERVER08				
New Alarm 0	NVR-SERVER08				
New Alarm 1	NVR-SERVER08				
New Alarm 11	NVR-SERVER08				
New Alarm 13	NVR-SERVER08				
New Alarm 14	NVR-SERVER08				
New Alarm 15	NVR-SERVER08				
New Alarm 16	NVR-SERVER08				
New Alarm 17	NVR-SERVER08				
New Alarm 18	NVR-SERVER08				
New Alarm 19	NVR-SERVER08				
New Alarm 2	NVR-SERVER08				
New Alarm 20	NVR-SERVER08				
New Alarm 21	NVR-SERVER08				
	····				
				1	4
					Save Close

- a. Select an alarm category.
- b. Select an alarm that was configured in Picture Perfect from the top drop down list. See *Picture Perfect Alarm Configuration* on page 4 for more information.
- c. Select the options for the alarm.
- 4. In the Avigilon NVR Alarms area, select an Avigilon alarm. See *Avigilon Alarm Configuration* on page 4 for more information.
- 5. Click Add Mapping.
- 6. Repeat step 3 to 5 until all the alarms you require are mapped.
- 7. Click Save.

### **Backing Up Mapped Alarms**

After you finish mapping all the alarms in the Avigilon PP4 Gateway, you can choose to back up a copy of the mappings.

1. Navigate to C:\Program Files\Avigilon\Avigilon Picture Perfect 4 Gateway\.

**NOTE:** The filepath may be different depending on how your system is configured.

2. Copy and paste the GatewayParams.xml file to a back up location.

#### **Restoring Mapped alarms**

When you have a backup copy of the mapped alarms, you can restore the integration to use the back up copy any time.

- 1. Open the Avigilon PP4 Gateway configuration application to stop the Gateway Windows service.
- 2. Locate your backup copy of the GatewayParams.xml file.
- 3. Copy and paste the backup GatewayParams.xml file into the C:\Program Files\Avigilon\Avigilon Picture Perfect 4 Gateway\ folder.

Allow Windows to overwrite the copy that is currently in the folder.

- 4. Close the Avigilon PP4 Gateway configuration application to start the Gateway Windows service.
- 5. To check if the mapped alarms were restored correctly, open the Avigilon PP4 Gateway configuration application again.

# Monitoring Alarms

Once the alarms from Picture Perfect and Avigilon Control Center have been mapped in the Avigilon PP4 Gateway, alarms that are triggered in Picture Perfect will appear in both applications.

To monitor alarms in the Picture Perfect software, see the alarm monitoring section of the *Picture Perfect 4 User Manual*.

To monitor alarms in the Avigilon Control Center software, see the alarm monitoring section of the *Avigilon Control Center Client User Guide*.