

# Convert a XLReporter Project from InTouch local to OI Gateway OPC

#### Overview

An existing XLReporter project that reports from data in InTouch through the local interface can be easily converted to report from OPC. OPC is a standard and can also run from remote PC's.

- Delete old connector to InTouch local
- Create new connector with the same name to OI Gateway OPC
- Update Real Time Data Groups
- Update Real time single tag connections
- Update Data Export connections
- Update Analytic and Event Frame tags
- Update Schedule event conditions

#### Change the Connector

From the XLReporter Project Explorer select the Data tab and then Connectors.

J	2 Connectors						
1	🕨 Add 🖉 Modify 🔀 Delet	e 🌼 Catalog					
	Name 🔺	Provider	Description				
١.	InTouch_DA	InTouch Real-time values (local)					
	XLR_DA	Simulator Real-time values					
*	add connector						
<			>				

- Highlight the connector to the InTouch and note the name. In the above example this is InTouch\_DA
- **Delete** the connector
- Click Add
- Select AVEVA, OI Gateway Real-time values

Ol Gateway Real-time va	lues ×
Connector Name	InTouch_DA
Description	
Primary Server	
Name	OI.GATEWAY.2
Node	🗹 local
	Test Connection
Secondary Server	
Name	OI.GATEWAY.2
Node	✓ local
	Test Connection
	Settings
	OK Cancel

• Enter connector name as the previous connector name (InTouch\_DA)

The connector requires a **Primary Server** which, by default has **Node** set to local.

#### **Remote Communication to AVEVA OI Gateway**

If AVEVA OI Gateway is installed on a workstation remote from the PLC, then uncheck *local* and set the **Node** the *Machine Name* or *IP* address where the server is running.

The workstation must also have the OPC core components installed. To determine if the core components are installed verify the following file exists:

- 64 bit OS C:\Windows\SysWow64\OPCEnum.exe
- 32 bit OS C:\Windows\system32\OPCEnum.exe

If the components are not installed, then they are provided in the tools folder of the installation or from <u>www.opcfoundation.org</u>.

#### **Server Settings**

To connect to AVEVA OI Gateway remotely, both the machine where the server is running and the machine where the client is running must have matching Windows user accounts and the client must be logged in with a matching account.

In addition, on the machine with the OPC DA server, certain DCOM settings must be enabled. For details on what DCOM settings to enable, see <u>OPC and DCOM: 5 Things You Need to Know</u>.

#### **Windows Firewall**

If the Windows Firewall is enabled on the machine where AVEVA OI Gateway is running **TCP Port** 135 must be opened for remote clients to connect.

#### Find Device Group Name

From the AVEVA program group, select System Platform Management Console.

Node Type: InTouch Delimiter: .          IntouchTags Parameters       Device Items         IntouchTags Parameters       Device Items         IntouchTags       Device Group Name: InfouchTags         IntouchTags       IntouchTags         IntouchTags       IntouchTags <th><ul> <li>Ø SMC - [ArchestrA System Management Console (W</li> <li>File Action View Help</li> <li></li></ul></th> <th>W-1)\Operations Integration Server Manager\Default Group\Local\Operations Int — 🗌 🗙</th>	<ul> <li>Ø SMC - [ArchestrA System Management Console (W</li> <li>File Action View Help</li> <li></li></ul>	W-1)\Operations Integration Server Manager\Default Group\Local\Operations Int — 🗌 🗙
Configuration Supervisory S Configuration Configuratio		Node Type: InTouch         Delimiter:         .<
Image: Second	<ul> <li>♥ Local</li> <li>♥ Perations Integration Supervisory S</li> <li>♥ Wonderware - Gateway</li> </ul>	Device Group Name: IntouchTags
	✓ 3 OI.GATEWAY.2 ✓ Configuration ✓ IntouchTags	Read Only InTouch Runtime Node: localhost
Reconnect Attempts: 3 Reconnect Period: 30000 ms Connection Protocol Tag Browser	> 🔆 Diagnostics > 🍄 Wonderware - SIM > 🗓 Log Viewer	Item Browse Path: C:\Users\Public\Wonderware\Intouch Applications'
Tag Browser	, <u> </u>	Reconnect Attempts: 3 Reconnect Period: 30000 ms Connection Protocol
		T ag Browser
<		
	<	

Expand Operations Integration Server Manager, Default Group, Local, Operations Integration Supervisory Servers, Wonderware – Gateway, OI.GATEWAY.3 (or OI.GATEWAY.2 depending on the version), Configuration

• Note the **Device Group Name** for the InTouch system. In the example it is IntouchTags

Tag names change from TagName to DeviceGroupName.TagName in the XLReporter project

If the AVEVA OI Gateway is not set up, refer to the OI Gateway Real Time Values connector document for details.

#### Update Data Groups

From the XLReporter Project Explorer select the Tools tab and then Connector Groups.

Connector Groups	×
🖬 🖬 🖌 Modify 📡 Delete   🔠 Assign	
Gruectors Gruectors Gruech_DA Intouch_DA Intouch_RTG Lange XLR_DA	

• Open each real time data group and in front of each tag name add the Device Group Name

Sele	ected Columns			
	Name	Scaling	Heading	
	IntouchTags.\$Second		\$Second	
	Intouch Tags. Triangle 2		Triangle2	
	IntouchTags.PanMinutes		PanMinutes	

• Select Preview to test each real time data group

## **Update Single Tag Connections**

From the XLReporter Project Explorer open the template and from the XLReporter menu select Connect

🖳 Connections	_	
🛃 Save 🛛 🔍	📻 Export 🚊 Import 📑 Split	
Data (1) Manage (0)	Gn Connector Source Target	Place
	0 InTouch_DA IntouchTags.\$Second \$A\$1	Offset
Scope Any Sheet ~ Group 0	•	
Source		
Connector InTouch_DA ~		
Name IntouchTags.\$Second ∨		

• In front of each tag name add the Device Group Name. If multiple connections need to be updated, use the **Export** and **Import** options.

### **Update Data Export Connections**

From the XLReporter Project Explorer, open the template. From the XLReporter menu select Connect and then the Manage tab.

🖳 Connec	tions						
🚽 Save	*	📻 Export 📑	Import	📥 Split			
Data (1) Ma	nage (1)	Export					x
Active By	Any Sheet V Group 0		Name	Exam	ple Template	 	
Category	Data Export 🗸 🗸 🗸	Setup Tag	List				
Type	To Tag List 🗸 🗸	Cell	Tag				Туре
Apply To		\$A\$1	Into	uchTags.\$Seco	nd		Number
Cell ~	SAS1 🐺	*	_				
Direction	None V						
End	All cells are empty						
210	var oone are empty						
- Placement							
	(H-2)						
Cell 🗸 🗸							
Cell ~ Type	Direct V						
Cell V Type Setting	Value						
Cell V Type Setting Configuration Readback	Value Example Template						
Cell > Type Setting Configuration Readback Wait Time	Value Example Template						
Cell ~ Type Setting Configuration Readback Wait Time Readback	Value Example Template Ves 0 0					OK	Cancel
Cell V Type Setting Configuration Readback Wait Time Readback Fail Count	Value Value Example Template					 OK	Cancel
Cell V Type Setting Configuration Readback Wat Time Readback Fail Count	Value Example Template					 OK	Cancel

• If there are any **Data Export, To Tag List** management connections configured, modify each one. In the configuration, in front of each tag name in the **Tag** column, add the *Device Group Name*.

#### **Update Event Frames**

From the XLReporter Project Explorer select the Data tab and then Event Frames.

• For each configured **Event Frame** listed, **Modify** and if using the InTouch connector, in front of each tag name add the Device Group Name.

### **Update Analytics**

From the XLReporter Project Explorer select the Data tab and then Analytics.

Data Items Schedule						
🗄 🖉 Modify 🗡 Remove						
- Analytic	Group N	Name Description		Connector	Source	
	▶ 0 Snap	oshot	×	nTouch_DA	IntouchTags.\$Second	
Profile	Na	mo 66000	Gmup 0			
State Profile     Difference	Der	scription	Circup 0			
Z Statistic						
	Cor	nnector InTouch_DA	~			
	Sou	urce IntouchTags.\$Second				
		Value Limits				
		0 to 0	EU			
		Value Deadhard				
		EU EU				
		Time Deadband				
		5 minutes(	5) 🗸			
		ОК	Cancel			
		OR	Caricer			

• For each analytic category on the left, in front of each tag name add the Device Group Name.

Under the **Schedule** tab,

• **Modify** any schedule where the **Condition** is an event from the InTouch connector and in front of each tag name add the Device Group Name.

## **Update Schedule Event Conditions**

From the XLReporter Project Explorer select the Project tab and then Designer.

Schedule		x	
Condition			
Time Continuous Daily Weekly Monthly E-Event LinTouch_DA XLR_DA	Connector: Tag: Condition: Value Recur Start: Every:	In Touch_DA Intouch Tage \$Second Equal or Greater Than 75 Fixed Time 12:00:00 AM (\$) 1 minutes(s)	
Action	Action Time / Action Worksheet	Adjustment: 0 🛊 day(s) v Update Worksheet Example Template xlsx.Template	
Publish Reports     Save Worksheet to Web Pa;     Save Worksheet to Web Pa     Save Worksheet to PDF     Save Worksheet to PDF     Print Worksheet     Print Worksheet     Transfer Reports      ×			
		OK Canad	

• For each schedule line set to trigger on an event, modify the schedule line. In front of each tag name add the Device Group Name.