Trihedral Connectors

VTScada Real-time values

This connector is used to get real time values from VTScada via the VTScada OPC server.

Set up VTScada

The VTScada OPC server must be configured in the VTScada application to connect and retrieve values from the application.

VI WeatherApplication			-	- ×
	Scada lĭght	Overview	💊 名 🖶 🐥	10:35 AM Jan 22 sytech
Time Since Refrest 00:01:19	weathe	r for Franklin		Jnits: Location
			60la	90

In the VTScada Application, open the Tag Browser

• Click **New** at the bottom of the Tag Browser.

✓T Select Type	\times
Recently Used Types	
OPC Server Setup	
OPC Client	
Analog Output	
Function	
Tag Groups	
🗁 All Tag Types	
🗁 Analogs	
🗁 Analytics	
🗁 Containers	
🖻 Digitals	
🗁 Drivers	
🖻 Inputs	
🗁 Outputs	
🗁 Ports	
🗁 Stations	
Cance	I

- Set the **Type** to *OPC Server Setup*
- Click **OK**.
- Under the **ID** tab, enter *XLR* for the **Name**
- Under the **Settings** tab enter *XLR* for the **Server Namespace**.
- Click **OK**.
- Restart the application to complete the setup.

Configure a User Account

The VTScada application must be secured with a user name that has internet client access privileges.



To access these settings, select the **Application Configuration** button from the **VTScada Application Manager**

Edit Server Lists	age your account, other acco	ounts or the a	oplication's security settings.		
Edit Security	rs	+ 🛛	General		
syte	ech*		Username		
Languages			Password		
Create ChangeSet File			Password	Confirm Password	
, in the second s			•••••	•••••	
Apply ChangeSet File			Password never expires	Force reset of password at	t next sign
			Advanced		
Export/Sync Tags			Disable Account	Alternate Identification	
Manage Types			Use Detault Sign Out Time Period Violation Sign Out	Unavailable	×
			15 Minutes of Inactivity (0 -	720)	
Import File Changes	Û	i in a.	Privileges		[
Maintain File Manifest			Roles		
ROIE	25	+ 7	Configurer Permits configuration	of a VTS Application	
Deploy Changes Cor	ntigurer laed Off		Operator Permits operation of a	VTS Application	
Revert Changes Ope	erator		SuperUser Permits complete cont	rol of all aspects of VTS	
Sup	erUser		Additional Privileges		Add
Show Version Log			✓ Manager	:	Manage
			Thin Client Monitor Access	1	
Override Detection			Administrator	1	
Information			Remote Data Access		
moniation			Control Outputs		
			- Application stop	:	

- In the Application Configuration, select Edit Security on the left.
- Select the user to edit
- Select Add on the right.
- Under Page Access, choose *Thin Client Access* or *Thin Client Monitor Access* depending on your version.
- Click **OK**.
- Click **Apply** to save the changes.

Prerequisites

A generic OPC test client is provided to test the VTS OPC Server.

This client is available from the Tools folder of the XLReporter installation disk and can be downloaded from <u>www.SyTech.com</u>.

To open, double-click SampleClientDA.exe. This opens the OPC Quick Client window.

COPC Quick Clie	nt - Untitled *					– 🗆 ×
<u>F</u> ile <u>E</u> dit <u>V</u> iew	<u>T</u> ools <u>H</u> elp					
🗅 🚔 🔚 🖼 🖆	¥ 💣 😭 👗 🖻 🖻	×				
🖃 📰 Trihedral.VTS	SOPC.DA.1	Item	1D	Data Type	Value	Timestamp
Server To	est Group	(C) X	LR\tags\all\City1\API_Driver\temp\RawValue	Double	40.14	15:01:32:619
		<				>
Data	Time	Event				
1/14/2020	3:01:06 PM	Connected to server	'Tribedral.VTSOPC.DA.1'.			
1/14/2020	3:01:06 PM	Added group 'Server	Test Group' to 'Trihedral.VTSOPC.DA.1'.			
1/14/2020	3:01:33 PM	Added 1 items to gro	oup 'Server Test Group'.			
Ready						Item Count: 1 //

To connect to an OPC server:

- Select Edit, New Server Connection to open the Server Properties window.
- Select *Trihedral*.VTSOPC.DA and click **OK**.
- Once the connection is made, select Edit, New Group.
- Specify Name and click OK.
- Select on the group name created.
- Select Edit, New Item. This opens the Add Items window.
- Browse for tags and double click any to select.
- Once tag selection is complete, click **OK** to return to the OPC Quick Client window.

All the selected tags appear along with their real time values, type, quality, and timestamp.

If at any point you experience an issue with this client, contact VTScada technical support to troubleshoot and correct these issues.

Remote Communication

If XLReporter is not installed on the same machine as VTScada, the workstation must also have the OPC core components installed. To determine if the core components are installed verify the following file exists:

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

If the components are not installed, then they are provided in the XLReporter installation folder under *_repairtools\OPC*. Alternatively, these can be downloaded from <u>www.opcfoundation.org</u>.

Server Settings

To connect to VTScada 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 VTScada, 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 VTScada is running TCP Port 135 must be opened for remote clients to connect.

Connector

To configure the connector to VTScada, from the Project Explorer select Data, Connectors.

- Click Add
- Select Trihedral, VTScada Real-time values.
- Click **OK**

Connector Name	VTScada_DA_1	
Description		
Primary Server		
Name	Trihedral.VTSOPC.DA	
Node		🗸 local
		Test Connection
Secondary Serve	r Trihedral.VTSOPC.DA	
Secondary Serve Name Node	r Trihedral.VTSOPC.DA	
Secondary Serve Name Node	r Trihedral.VTSOPC.DA	✓ local Test Connection

Primary Server

These settings define the **Name** and **Node** of the OPC DA server. Typically, the **Name** is defaulted correctly. If the VTScada server is on the local machine, leave **local** checked, otherwise uncheck, and specify either the name or IP address of the machine where VTScada is running.

Use the **Test Connection** button to verify a connection to the server.

Secondary Server

These settings define the (optional) secondary VTScada to connect to if a connection to the **Primary** Server fails.

Settings

For information on the specific settings, see the DATA CONNECTIVITY, OPC document.

Verify Data Communication

To verify communication to **VTScada**, open the **Project Explorer** and select the Tools tab. Launch the **System Check** application.

- Click Add
- Choose the VTScada Connector from the dropdown list.
- Click the pushbutton ([...]) next to Items to open the Tag Browser window.

		S	elected Items	
⊡ Online	~		Name XLRYagp'all/Chy1\API_Driver\windSpeed\R XLRYagp'all/Chy1\API_Driver\temp\RawValu	i
B:-currerCcyLat B:-currertCtyLon B:-ds/Nght B:-humidty B:-iconDescription ct:-nar/industNicCosna	v			
ems	Flat			
lisplay Name ~				
Name	^	>		
LowInstrument Range Item Timezone		<		
Area				
DeviceTag		>>		
Address				
RawValue		<<		
LowAlamLimit				
HighAlamLimit				
c	>			

• Select one or more tags, click **OK**

System Check			x
File Edit Tools			
Connector General			
🖬 🖬 Add 🥒 Modify 🗙	Delete 🛛 😭 Clear 🌘 Start		
Connector	Source	Description	Value ^
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\RawValue	XLR\tags\all\City1\API_Driver\t	25.61
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\EUUnits	XLR\tags\all\City1\API_Driver\t	F
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\ItemDescription	XLR\tags\all\City1\API_Driver\t	Temperature in Requested Units
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\HighEU	XLR\tags\all\City1\API_Driver\t	100
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\LowEU	XLR\tags\all\City1\API_Driver\t	0
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\HighInstrumentR	XLR\tags\all\City1\API_Driver\t	100
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\LowInstrumentR	XLR\tags\all\City1\API_Driver\t	0
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\ltemTimezone	XLR\tags\all\City1\API_Driver\t	300
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\Area	XLR\tags\all\City1\API_Driver\t	City1
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\DeviceTag	XLR\tags\all\City1\API_Driver\t	City1\API_Driver
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\Address	XLR\tags\all\City1\API_Driver\t	.main.temp
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\RawValue	XLR\tags\all\City1\API_Driver\t	25.61
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\LowAlarmLimit	XLR\tags\all\City1\API_Driver\t	0
VTScada_DA	XLR\tags\all\City1\API_Driver\temp\HighAlamLimit	XLR\tags\all\City1\API_Driver\t	100 ~
<			>
Clear			
		Initialise Se Open Serv Read Serv Update dis	erver and Items (ms) : 6 er and items (ms) : 73 er items (ms) : 0 play (ms) : 2

• Click **Start** to verify the communication

VTScada Historical values

This connector is used to get historical values from VTScada via the VTScada ODBC server.

Set up VTScada

Configure a User Account

The VTScada application must be secured with a user that has internet client access privileges. To access these settings, click the **Application Configuration** button from the **VTScada Application Manager.**



In the Application Configuration, select Edit Security on the left.



• Select the user to edit.

- Select **Add** on the right.
- Under **Page Access**, choose *Thin Client Access* or *Thin Client Monitor Access* depending on the version.
- Under Account Control, choose Remote Data Access.
- Under Application Configuration, choose *Remote Tag Value/History Retrieve* or *Tag Modify* depending on the version.
- Click OK.
- Click **Apply** to save the changes.

Configure the ODBC Server

To retrieve historical data, the VTScada application must be configured as an ODBC server.



In the VTS Application Manager (VAM), select the Hamburger list in the upper left and choose Thin Client/Server Setup or VTScada Internet Client/Server Setup depending on the version.

nearris	Server Setup	SSL	Certificate
Authorization Re	alms		
Realm			Add
DemoSystem	· ·		Modify
Protocol: HTTP	Port: 80 SSL:		Remove
Applications Ava	ilable On DemoSystem		
WeatherApplica	tion		Add
			Remove
	Move Selec	cted 🛊 🕸	
VIC URL:	(No server defined on Server Se	tup tab)	Test
	(No server defined on Server Se	tup tab)	Test
MIC UKL:			Test

• Under the **Realms** tab, in the **Authorization Realms** section, click **Add** to open the **Add Realm** dialog.



- Specify a Name
- Under **HTTP** check **Enable**
- Set **Port Number** to 81.
- Click OK.

Under the Applications Available On ODBCRealm section,

• Click Add to add the application to the ODBC Realm.

Add Application		
Application		
WeatherApplication		~
	ОК	Cancel

- Select the **Application** to add.
- Click **OK**.

Select the Application Configuration with button from the VTScada Application Manager

- Click Edit Properties.
- Click Advanced Mode.
- To add a property, click **Insert**.

Add Property	2
Property Name	
SOAPServicesRealmNam	e
Section	
System	~
Value	
DemoSystem	
Workstation	
default	~
Comment	
01	0.1
UK	Cancel

- Set the **Property Name** to *SOAPServicesRealmName*
- Set Value to the name specified for your ODBC Realm.

Restart the application after adding this property for the changes to take effect.

Historical Data Limitations

The number of rows returned from VTScada is limited to *10000* by default. If necessary, the *SQLQueryMaxResultRows* property can be changed to return more rows.

In the **Application Configuration**, click **Edit Properties**. If the property does not exist, it can be added by clicking **Insert**.

Set the **Property Name** to *SQLQueryMaxResultRows* and set **Value** to the desired maximum.

XII Add Property X	_
Property Name	
SQLQueryMaxResultRows	
Section	
System ~	
Value	
25000	
Workstation	
default V	
Comment	
OK Cancel	

If the property does exist and is greyed out, select it, click **Copy** and then change **Value** as needed.

ODBC Set up

To access VTScada history data, the VTScada ODBC driver must be installed.

On the machine where access is required, run **VTSODBCDriverInstall.exe** to install the ODBC driver. This is distributed with VTScada.

DSN

After installing the driver, an ODBC data source (DSN) can be created.

- From the **Project Explorer**, select the **Tools** tab
- Select DSN Settings to open the Microsoft ODBC Data Sources Administrator utility
- Select the System DSN tab
- Select Add

Create New Data Source		\times
	Select a driver for which you want to set up a data Name Microsoft DDBC for Oracle Microsoft Paradox Treber (".db.) Microsoft Paradox Treber (".db.) Microsoft Text Driver (".bt.", "csv) Microsoft Text Treber (".bt.", "csv) SOL Server VTScoda DDBC Driver <	source.
	< Back Finish	Cancel

• Under Name, select VTScada ODBC Driver and click Finish. This opens the VTScada ODBC Setup dialog.

VTScada ODBC Setup
DSN xlreporter
Description VTScada ODBC Driver 12.1.133
/TScada Server 192.168.9.34
Port 81 SSL Use backup servers
vTScada Realm DemoSystem
User ID sytech
Password
Connection timeout (sec) 60
Query timeout (sec) 120
Max. concurrent connections
Test Connection
Third-Party Notices OK Cancel

- For **DSN** enter a name that does NOT match the name of the VTScada application.
- For **VTS Server**, enter the fully qualified domain name of the machine running the VTS application or the IP address.
- The **Port** and **SSL** settings should match that was entered when configuring the ODBC Realm described in a previous section.
- Enter that User ID and Password of a user having internet client access privileges.
- Click **Test Connection** to test the validity of the setup. The application must be running for this to succeed.
- If user groups are enabled, the **User ID** specified must be a member of the user group that matches the **VTS Realm** specified to connect.

Historical Data Limitations

The number of rows returned from VTScada is limited to *10000* by default. If necessary, the *SQLQueryMaxResultRows* property can be changed to return more rows. In the Application Configuration, click Edit Properties. If the property does not exist, it can be added by clicking Insert. Set the Property Name to *SQLQueryMaxResultRows* and set **Value** to the desired maximum.

Add Property	<
Property Name	
SQLQueryMaxResultRows	
Section	_
System ~	
Value	_
25000	
Workstation	
default V	
Comment	_
OK Cancel	

Connector

To configure the connector to VTScada, from the Project Explorer select Data, Connectors.

- Click Add
- Select Trihedral, VTScada Historical values.
- Click **OK**

VTScada Historical values	×
Connector Name Description	VTScada_History_1
Connection O DSN Name	
 Manual VTScada Server Port VTScada Realm User ID Password 	192.168.9.34 81 SSL DemoSystem sytech ***********
	OK Cancel

Connection

These settings define how to connect to the VTScada Historian.

DSN

With this option specify the **Name** of a DSN (Data Source Name) defined within the Windows Operating System that is configured to connect to the VTScada Historian.

It is recommended to specify a System DSN for **Name** because it will be accessible by any user logged into the machine.

Note, on 64-bit operating systems, the **DSN** must be defined as a 32-bit **DSN**. This can be done by following the DSN section above.

Manual

With this option specify all the settings needed to connect to the VTScada Historian.

Data Group

The following describes the historical data group settings specific to the **VTScada Historian** connector.

Group Types

📄 Select Group Type	Х
Summary Values from Server	
Summary Values from XLReporter	
◯ Raw Values	
◯ Raw Text	
◯ Sampled Values	
O Live Values	
O Custom Values	
Base on	
 delank> 	
OK Cancel	

For VTScada Historian the following group types are available:

Summary Values from Server

This group type retrieves summary calculations directly from the historian. The following calculations are available:

- Interpolated
- Average
- Maximum
- Time of Maximum
- Minimum
- Time of Minimum
- Delta Value
- Start Value
- Total
- Zero to Non-Zero Count
- Non-Zero Time

For string values, select Start Value.

Summary Values from XLReporter

This group type retrieves sampled values from the historian and performs calculations on those samples for reporting.

By default, summary values are calculated time weighted, and values are propagated based on the last known value. However, to change this so that summary values are calculated strictly on the data returned check **use raw values**.

Note, string values cannot be returned from VTScada using a Summary Values XLR group type.

Raw Values

This group retrieves values logged to the historian between the start and end time specified.

Custom Values

This option opens the Database Group builder where a query can be configured to retrieve data from any table available in the database connected to by the connector.

Group Settings

Setup Tab (Summary Values for XLReporter)

File E	nmary Valu Edit Previ	es XLR (VTSca ew	ada_History))
Setup	Columns	Time Period	Filters			
			Descriptio	n		
			Retrieval			
			Retrieval	Retrieval Mode	Sampled Values ~	
			Retrieval	Retrieval Mode Rate (secs)	Sampled Values ~	

The **Retrieval** settings define how data is retrieved for the calculations selected for the group. The following settings are available:

Retrieval Mode

This setting defines how data is retrieved from the historian. For VTScada Historian *Sampled Values* and *Raw Values* are available.

Sampled Values use the Interpolated calculation.

• Rate

The interval (in seconds) that sampled values are retrieved from the historian.

• Lead Time

The amount of time (in seconds) to retrieve data before the start time.

Filters Tab (Raw Values and Summary Values from XLReporter)

If the **Perform by Server** option is checked, any filter configured in this tab is put into the *WHERE* clause of the query sent to the database to retrieve data for the group. Otherwise, the configured filtering is performed by the reporting engine after the values are returned. It is recommended to leave this setting checked as the performance is much better.

Tag Browsing

Variables VTScada_History_1 Catalog Online Port AB1 Driver AB1 Driver AB1 Misc Reuse	
Display Name Row/Calc_Creek Row Total Row/Calc_Creek Row Total Today Row/Calc_Creek Row Total YDayPev Row/Calc_Creek Row Total YDayPev1 Row/Calc_Creek Row Total YDayPev2 Row/Calc_Creek Row Total YDayPev3 Row/Calc_Effluent Row Total YDayPev3 Row/Calc_Effluent Row Total YDayPev4 Row/Calc_Effluent Row Total YDayPev4 Row/Calc_E	
Filter ×	Apply

The tag browser follows the naming convention configured in VTScada. When **Online** is selected, branches are shown representing various elements of VTScada such as Drivers.

Verify the Data Connector

XLReporter retrieves data for a report using a **History Group**. A quick way to create a **History Group** is from the **XLReporter Project Explorer**.

- Select, Tools, Connector Groups
- Select the VTScada Historical values connector
- Select Add.
- Set the Group Type to Raw Values and click OK.

On the **Columns** tab of the group, select the tag **Name**(s).

Sele	ected Columns			
	Name	Scaling	Heading	1
•	DriverPort\AB_PLC_Driver\BATCH_PRODUCTID:Value		BATCH PRODUCTID	
	DriverPort\AB_PLC_Driver\Coil_Status:Value		Coil Status	
	DriverPort\AB_PLC_Driver\EXTR_ZONE1_TEMP:Value		EXTR ZONE1 TEMP	
	DriverPort\AB_PLC_Driver\EXTR_ZONE2_TEMP:Value		EXTR_ZONE2_TEMP	
	DriverPort\AB_PLC_Driver\MIXER_RAMPRESSURE:Va		MIXER_RAMPRESSURE	
	DriverPort\AB_PLC_Driver\MIXER_RAMPRESSURE_0		MIXER_RAMPRESSURE_ON	
	DriverPort\AB_PLC_Driver\MIXER_SPEED:Value		MIXER_SPEED	_
	DriverPort\AB_PLC_Driver\MIXER_SPEED_ON:Value		MIXER_SPEED_ON	
	DriverPort\AB_PLC_Driver\MIXER_ZONE1_TEMP:Value		MIXER_ZONE1_TEMP	
	DriverPort\AB_PLC_Driver\MIXER_ZONE2_TEMP:Value		MIXER_ZONE2_TEMP	
	DriverPort\AB_PLC_Driver\PLC_Analog_Register:Value		PLC_Analog_Register	
	DriverPort\AB_PLC_Driver\SYS_DAY:Value		SYS_DAY	
	DriverPort\AB_PLC_Driver\SYS_HOUR:Value		SYS_HOUR	
	DriverPort\AB_PLC_Driver\SYS_MINUTE:Value		SYS_MINUTE	
	DriverPort\AB_PLC_Driver\SYS_MONTH:Value		SYS_MONTH	
	DriverPort\AB_PLC_Driver\SYS_SECOND:Value		SYS_SECOND	
	DriverPort\AB_PLC_Driver\SYS_YEAR:Value		SYS_YEAR	`

From the menu bar:

- Click **Preview**
- Enter a Start date
- Click Refresh.

Preview						×
💋 Refresh 💿 Stop	*	Date	BATCH_PRODUCTID	Coil_Status	EXTR_ZONE1_TEMP	EX ^
🔺 🋄 Date		1/1/2021	75.9276733398438	75.9276733398438	55.9176750183105	75.
Start 01 Jan 2021	•	1/1/2021 12:01:00 AM	76.8838729858398	76.3549118041992	56.3349113464355	76.;
End 02 Jan 2021		1/1/2021 12:02:00 AM	77.2835311889648	75.4340972900391	55.4040985107422	75.4
0, 0, ৰ 🕨 ᠇	M	1/1/2021 12:03:00 AM	76.8570785522461	75.2435684204102	55.2035713195801	75.1
		1/1/2021 12:04:00 AM	75.902458190918	76.2633972167969	56.2134017944336	76.:
		1/1/2021 12:05:00 AM	75.1489639282227	76.0503540039063	55.9903602600098	76.(
		1/1/2021 12:06:00 AM	75.2268218994141	75.2172317504883	55.1472396850586	75.1
		1/1/2021 12:07:00 AM	76.1041793823242	76.0343551635742	55.9543647766113	76.(
		1/1/2021 12:08:00 AM	77.0195465087891	76.267333984375	56.1773414611816	76.:
		1/1/2021 12:09:00 AM	77.1164932250977	75.3260116577148	55.2260208129883	75.:
		1/1/2021 12:10:00 AM	76.303108215332	76.0857620239258	55.9757690429688	76.(
		1/1/2021 12:11:00 AM	75.4487228393555	76.2298812866211	56.1098899841309	76.:
		1/1/2021 12:12:00 AM	75.5267562866211	75.3969497680664	55.2669563293457	75.:
		1/1/2021 12:13:00 AM	76.4824752807617	76.3757858276367	56.2357902526855	76.;
		1/1/2021 12:14:00 AM	77.1834335327148	75.9113388061523	55.7613410949707	75.
		1/1/2021 12:15:00 AM	76.7566604614258	75.7215042114258	55.5615081787109	75.
		1/1/2021 12:16:00 AM	75.7857055664063	76.5048904418945	56.3348960876465	76.!
		1/1/2021 12:17:00 AM	75.6424560546875	75.5304107666016	55.350414276123	75.!
		1/1/2021 12:18:00 AM	76.5703506469727	76.4585342407227	56.2685356140137	76.4
		1/1/2021 12:19:00 AM	77.2122192382813	75.864128112793	55.6641273498535	75.1
	[>

Rows 60

VTScada Alarms

This connector is used to get alarms from VTScada via the VTScada ODBC server.

Set up VTScada

Configure a User Account

The VTScada application must be secured with a user that has internet client access privileges. To access these settings, click the **Application Configuration** button from the **VTScada Application Manager.**



For older versions, a privilege must be added to access alarms. In the **Application Configuration**, select **Edit Security** on the left.

Y Application Configuration: WeatherApplication -					
X Edit Properties Review and M	lodify Secu	rity Settings			
昂 Edit Server Lists	ount, other a	accounts or the application's security settings.			
Edit Security	+ 3	General Username			
Languages	4	sytech Password			
🚱 Create ChangeSet File		Password	Confirm Password		
Apply ChangeSet File		Password never expires	Force reset of password at next si	gn in]
Export/Sync Tags		Advanced Privileges			A
Manage Types	ř <u>.</u> 3 <u>2</u>	Roles	ication		
C Import File Changes Roles	+ 7	Operator Permits operation of a VTS Applicati	ion		_
Configurer		SuperUser Permits complete control of all aspe	cts of VTS		
Maintain File Manifest Logged Off		Additional Privileges	^	Add	
Deploy Changes SuperUser		☑ Manager	1	Manag	e
		✓ Internet Client Tools Access	<u> </u>		
D Revert Changes		✓ Administrator			
3 Show Version Log		Remote Data Access			
		Control Outputs			
i Information		Configure			
- 	i		· · · · · · · · · · · · · · · · · · ·		
	_				
			Apply	Bac	:k

- Select Accounts
- Select the user to edit.
- Select **Add** on the right.
- Under Page Access, choose Internet Client Monitor Access.
- Click OK.

• Click **Apply** to save the changes.

Configure the ODBC Server

This process is the same as VTScada Historical Values. See the Configure the ODBC Server section in the VTScada Historical values section above for details.

ODBC Set up

To access VTScada history data, the VTScada ODBC driver must be installed.

On the machine where access is required, run **VTSODBCDriverInstall.exe** to install the ODBC driver. This is distributed with VTScada.

Configure the ODBC Server

This process is the same as VTScada Historical Values. See the Configure the **Configure the ODBC Server** section in the VTScada Historical values section above for details.

Alarm Data Limitations

This limitation is the same as VTScada Historical Values. See the Historical Data Limitations section in the VTScada Historical values section above for details.

Connector

VTScada Alarms	×
Connector Name Description	VTScada_Alarms_1
Connection O DSN Name	
Manual VTScada Server	192.168.9.34
Port	81 SSL
VTScada Realm	DemoSystem
User ID	sytech
Password	******
	OK Cancel

Connection

These settings define how to connect to the VTScada Alarms.

DSN

With this option specify the **Name** of a DSN (Data Source Name) defined within the Windows Operating System that is configured to connect to the VTScada Alarms.

It is recommended to specify a System DSN for **Name** because it will be accessible by any user logged into the machine.

Note, on 64-bit operating systems, the **DSN** must be defined as a 32-bit **DSN**. This can be done by following the DSN section in VTScada Historical values.

Manual

With this option specify all the settings needed to connect to the VTScada Alarms.

Data Group

The following describes the historical data group settings specific to the **VTScada Alarms** connector. **Group Types**



For VTScada Alarms the following group types are available:

Raw Values

This group retrieves alarms logged between the start and end time specified.

Custom Values

This option opens the Database Group builder where a query can be configured to retrieve data from any table available in the database connected to by the connector.

Group Settings

Filters Tab

If the **Perform by Server** option is checked, any filter configured in this tab is put into the *WHERE* clause of the query sent to the database to retrieve data for the group. Otherwise, the configured filtering is performed by the reporting engine after the values are returned. It is recommended to leave this setting checked as the performance is much better.

Verify the Alarm Data Connector

XLReporter retrieves data from the Data Connector using an Alarms Group. From the XLReporter Project Explorer select, Tools, Connector Groups.

- Select the VTScada Alarms connector and then select Add.
- Set the Group Type to Raw Values and click OK.

On the **Columns** tab of the group, select the tag Name(s).

🚞 Raw V File Edi	/alues (VTSca it Preview	da_Alarms)				×
Setup		e Period Filters				
	Name AckBy AckBy AlamID AlamState EndTme Message TagName TagValue			Scaling	Heading AckBy AckTime AlamID AlamState EndTime Message TagName TagName TagValue	
		Output Options Timestam Empty	p on first column rows between recon	~ ds 0	Transpose	

Select **Preview**, pick a *Start Date* and click **Refresh**.

Preview							x
🔁 Refresh 👜 Stop 🛛 🔍	Date	AckBy	AckTime	AlamID	AlarmState	EndTime	^
🔺 🎹 Date	1/6/2020 4:18:00 AM	Mary Jones	43836.1808912037	1001	HI	43836.1880671296	
Start 06 Jan 2020	1/6/2020 4:18:05 AM	Mary Jones	43836.1807523148	1002	HI	43836.1872685185	
End 07 Jan 2020	1/6/2020 4:18:07 AM	Mary Jones	43836.6705092593	1003	LO	43836.6796643519	
0, 0, 🔺 🕨 🔸	1/6/2020 4:18:13 AM	Mary Jones	43836.1807986111	1004	н	43836.1880902778	
	1/6/2020 4:21:01 AM	Mary Jones	43836.3002430556	2002	LO	43836.3040393519	
	1/6/2020 4:21:03 AM	Mary Jones	43836.1836342593	2003	HI	43836.1900347222	
	1/6/2020 4:21:05 AM	Mary Jones	43836.1837268519	2004	HI	43836.1901041667	
	1/6/2020 4:21:11 AM	Mary Jones	43836.1829976852	2001	LO	43836.1908449074	
	1/6/2020 4:24:00 AM	Mary Jones	43836.1855902778	3010	LO	43836.1942013889	
	1/6/2020 4:24:08 AM	Mary Jones	43836.1856018519	3020	н	43836.1935648148	
	1/6/2020 4:34:02 AM	Mary Jones	43836.1807291667	1003	LO	43836.1874652778	
	1/6/2020 4:35:05 AM	Mary Jones	43836.1918981482	1004	HI	43836.1942592593	
	1/6/2020 4:36:04 AM	Mary Jones	43836.1940740741	1002	н	43836.1956018519	
	1/6/2020 4:38:14 AM	Mary Jones	43836.1962268519	1001	HI	43836.1963310185	
	1/6/2020 4:40:11 AM	Mary Jones	43836.1974768518	2003	н	43836.1977199074	
	1/6/2020 4:40:14 AM	Mary Jones	43836.1975578704	2004	н	43836.1977546296	
	1/6/2020 4:41:02 AM	Mary Jones	43836.1829282407	2002	LO	43836.1914930556	~
	<					>	•

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