

## Using XLReporter with VTScada Alarms


### Overview

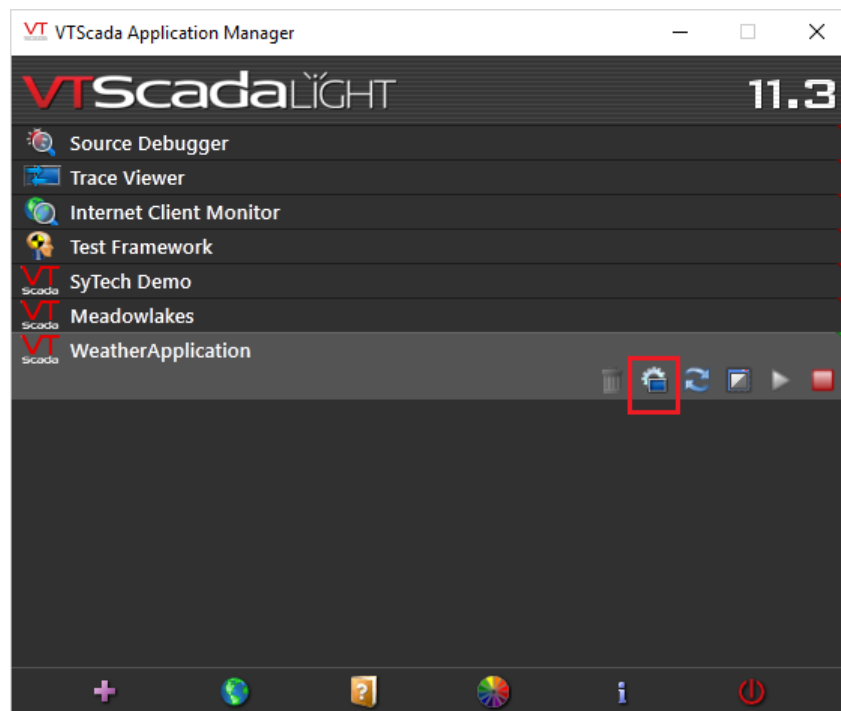
**XLReporter** takes alarm values from the VTScada to populate workbooks, periodically or on event, without needing Excel. The award-winning reporting software turns raw data into industrial metrics which are used for compliance, regulatory, improvements and operations.

Complete reports are distributed automatically by email, FTP, file server and printers. With the Web Portal, reports are viewed or produced on-demand from any device supporting a web browser such as a mobile phone, tablet or desktop.

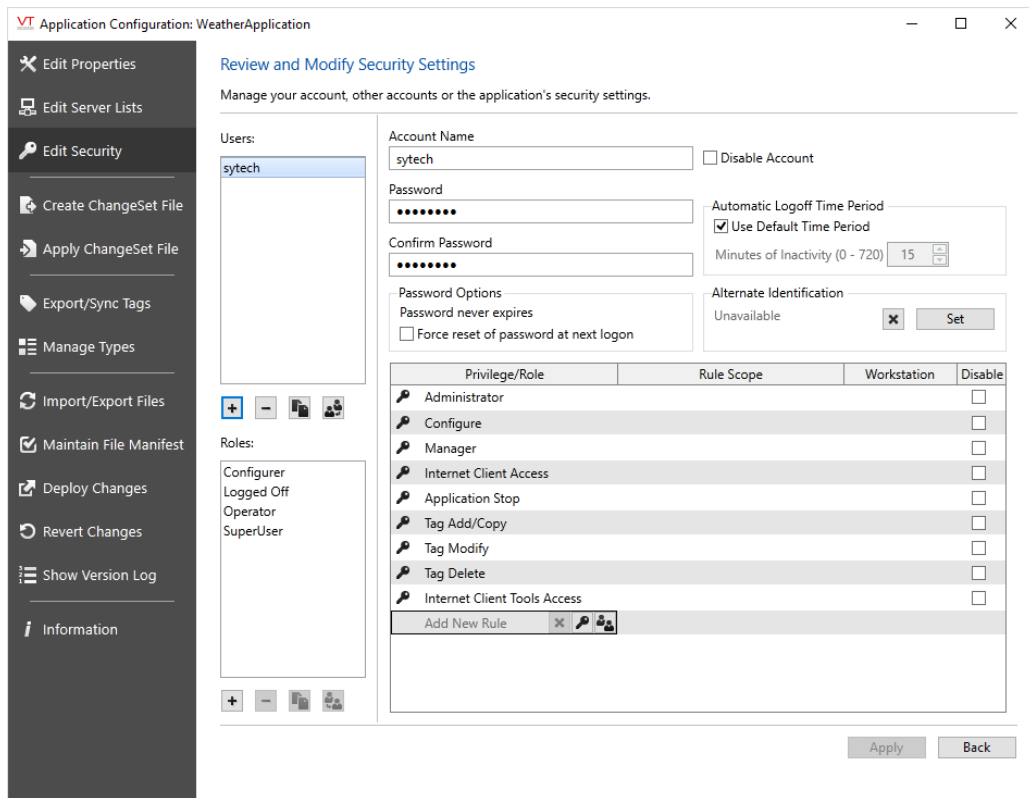
### Set up VTScada

#### Configure a User Account

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



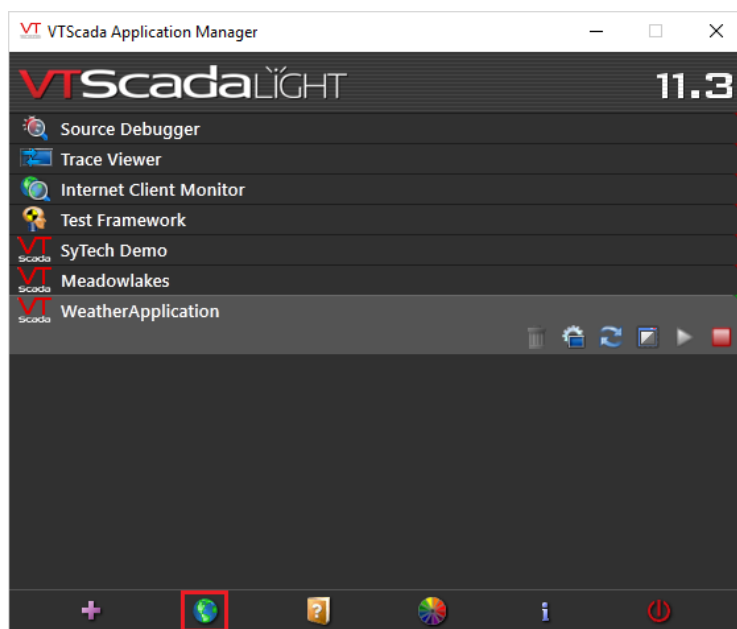
In the **Application Configuration**, select **Edit Security** on the left.




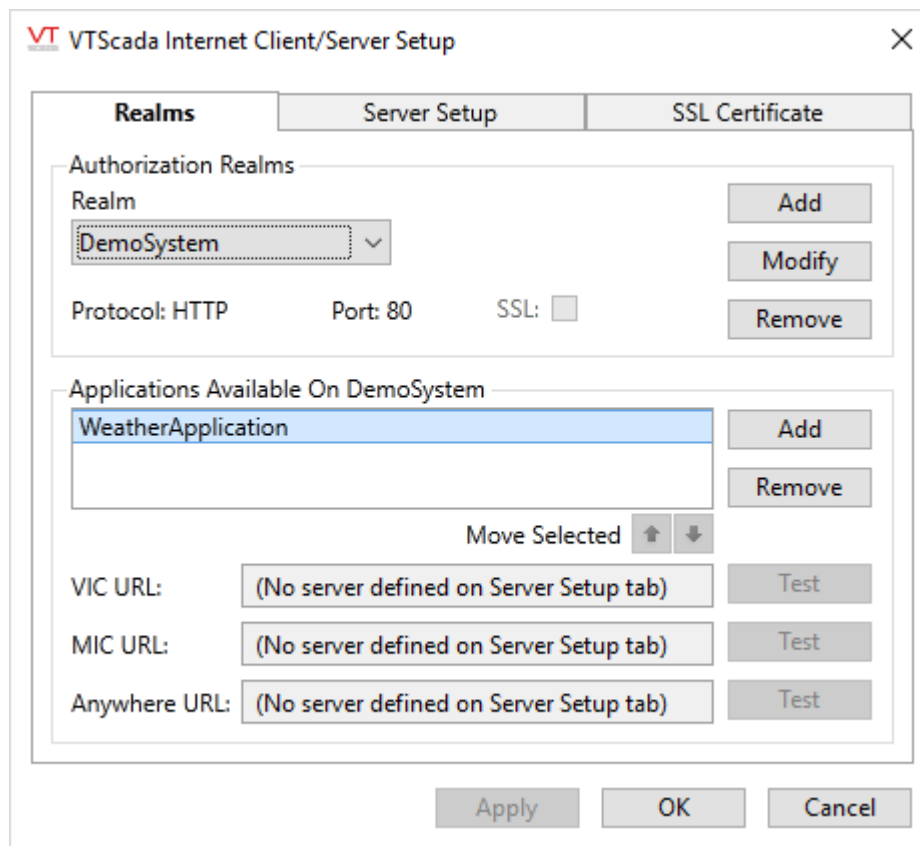
- Select the user to edit.
- Highlight **Add New Rule**.
- Click the key icon to choose the privilege to add.
- Under **Account Control**, choose *Internet Client Access*.
- Click **OK**.
- Click **Apply** to save the changes.

## Configure the ODBC Server

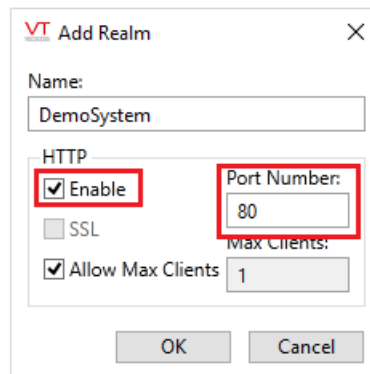
In order to retrieve alarm data, the VTScada application must be configured as an ODBC server.



In the **VTS Application Manager (VAM)**, select the **Internet Setup** button  to open the **VTS Internet Client/Server Setup** dialog.



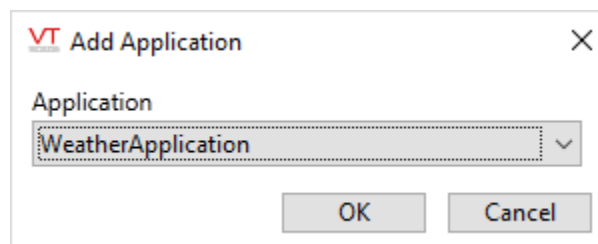
- Under the **Realms** tab, in the **Authorization Realms** section, click **Add** to open the **Add Realm** dialog.



- Specify a **Name**
- Under **HTTP** check **Enable**
- Set **Port Number** to **80**.
- Click **OK**.

In the **Internet Client/Server Setup**,

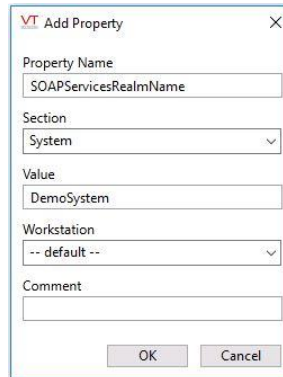
- Under the **Applications Available On ODBCRealm** section click **Add** to add the application to the **ODBC Realm**.



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

Open the **Application Configuration**  from the **VTScada Application Manager**.

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



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

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

## ODBC Setup

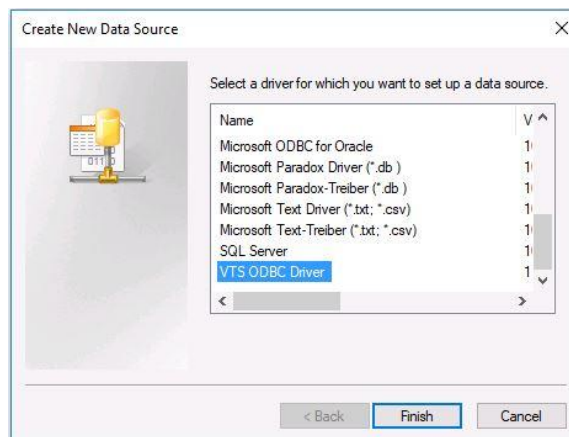
To access VTScada alarm data, the VTScada ODBC driver must be installed.

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 **Windows Start Menu**, search *ODBC*
- Select the top option to open the **Microsoft ODBC Data Sources Administrator** utility
- Select the **System DSN** tab
- Select **Add**



- Under **Name**, select **VTS ODBC Driver** and click **Finish**. This opens the **VTS ODBC Setup** dialog.

The screenshot shows the 'VTScada ODBC Setup' dialog box with the following fields and values:

- DSN: xlreporter
- Description: (empty)
- VTScada Server: 127.0.0.1
- Port: 80
- SSL:
- Use backup servers:
- VTScada Realm: DemoSystem
- User ID: sytech
- Password: (masked with 10 dots)
- Connection timeout (sec): 10
- Max. concurrent connections: 0

Buttons at the bottom: Test Connection, OK, Cancel.

- For **DSN** enter a name that does NOT match the name of the VTS 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 in order to connect.

## Alarm Data Limitations

The number of rows returned from VTScada is limited to *10,000* 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.

## Create a Project

From the **XLReporter Project Explorer** select **File, New** to start the **Project Wizard**. This will give step-by-step instructions on creating a project

### Step 1

- Enter a **Project Name** and **Description** (optional).

### Step 2

- Configure the data connector, click **Add**

Name	Provider	Description
*		

Select **Trihedral, VTScada Alarms**.

VTScada Alarms

Connector Name: VTScada\_Alarms

Description:

Connection:

DSN

Name:

Manual

VTScada Server: 127.0.0.1

Port: 80  SSL

VTScada Realm: DemoSystem

User ID: sytech

Password: \*\*\*\*\*

OK Cancel

If a DSN has already been configured to VTScada Alarms, select **DSN** and set **Name** to the DSN name available. Otherwise, select **Manual** and specify the settings required.

## Verify the Alarm Data Connector

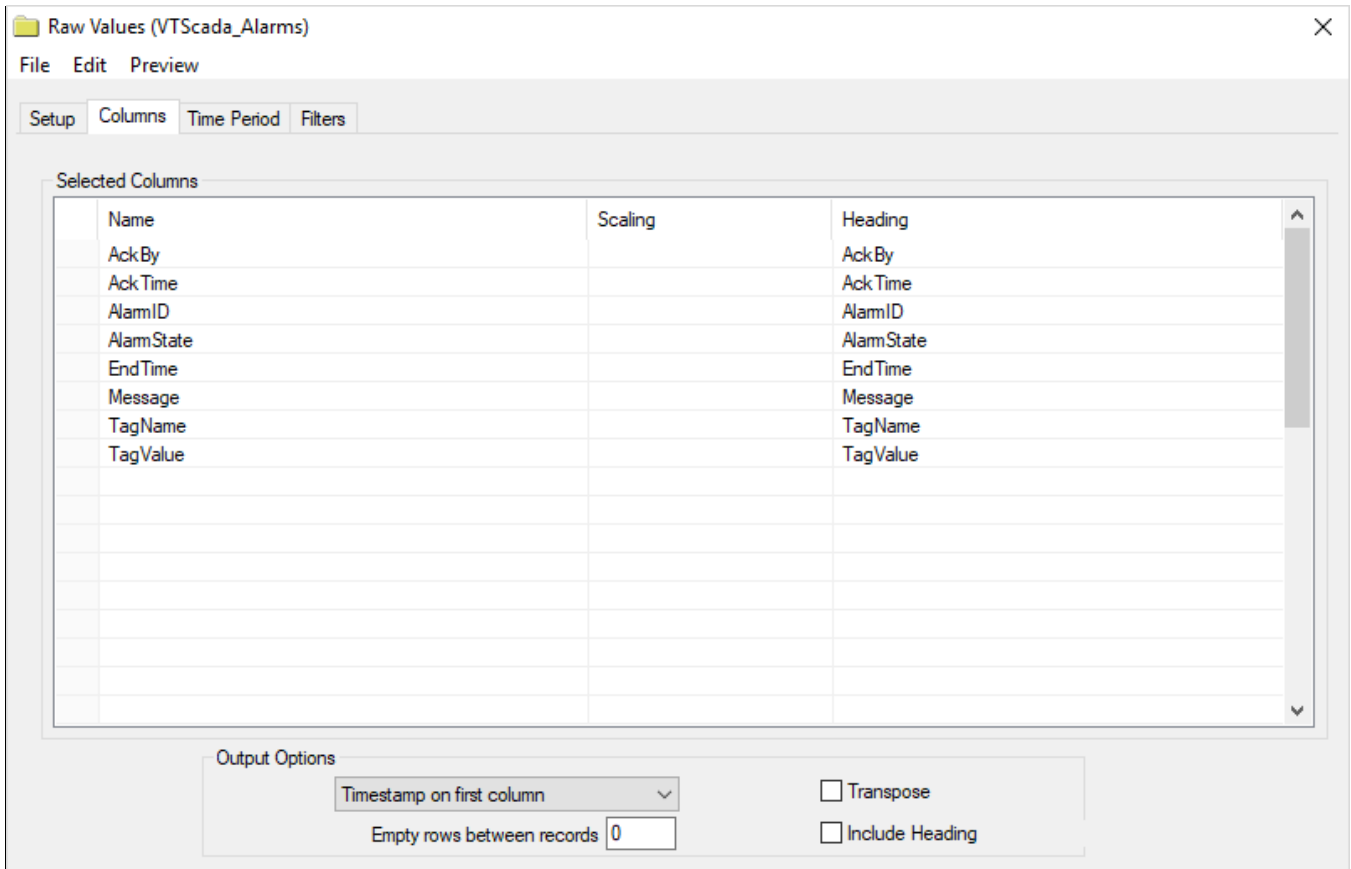
**XLReporter** retrieves data from the **Data Connector** using an **Alarms Group**.

From the **XLReporter Project Explorer** select, **Tools, Connector Groups**

Select the *VTScada Alarms connector* and then select **Add**.

- Set the **Type Raw Values** and click **OK**.

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



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

