

CRICKETS AUTOMATION

Training and Tutorials

X Vision

Quick Start Guide

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Abstract

This guide let you getting acquainted with the X Vision Scada software, in a few easy steps.

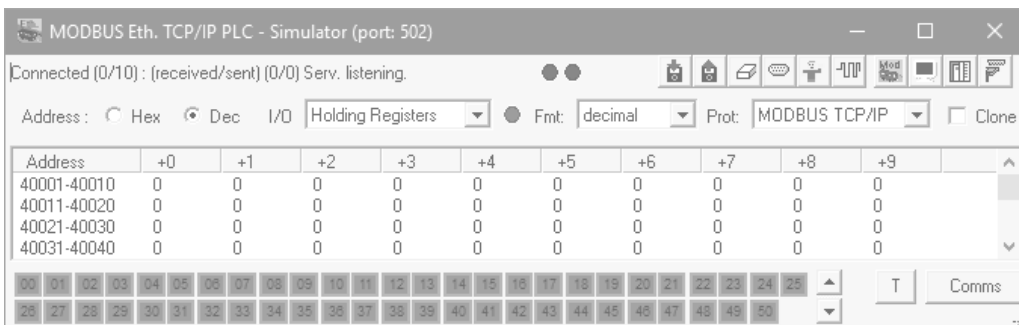
- Step One : Create a new project
- Step Two : Select and configure a driver
- Step Three : Configure an item
- Step Four : Show the item value on a page
- Step Five : Visualize in the Web

Setup

Install X Vision following on screen instruction. Take care of enabling both http and https.

Hint

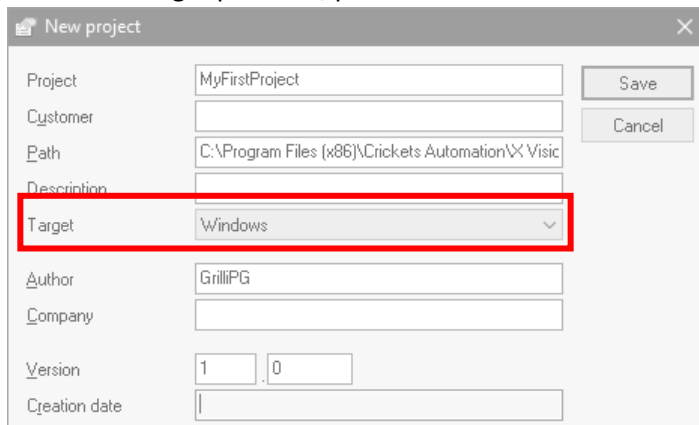
You can simulate a Modbus Tcp device using the `mod_RSsim` free software. Download and install it on the same pc of X Vision; configure it as in the picture:



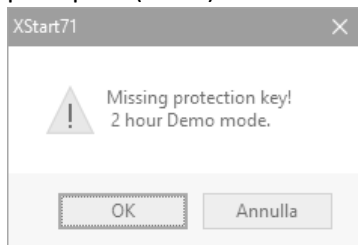


Create a new project

- 1) Start X Vision **Project Manager 71** from *Windows Start/Crickets X Vision 7.1/Project Manager7.1*
- 2) Create a new project: choose *File/ New Project*, give a name to your project and select the “*Window*” target platform, press **Save**.



- 3) Start the project: select your project in the list, right click on it and choose *Start X Vision*. When prompted (twice) allow *Demo Mode* pressing **OK**.

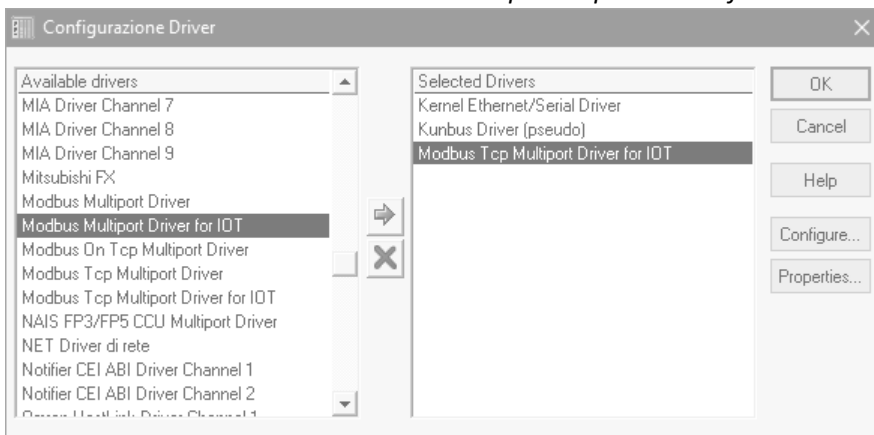


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Configure a driver

Add a driver

- 1) From XEditor menu choose *Configure/drivers*
- 2) On the left list double click on “*Modbus Tcp Multiport Driver for IOT*”



- 3) press OK

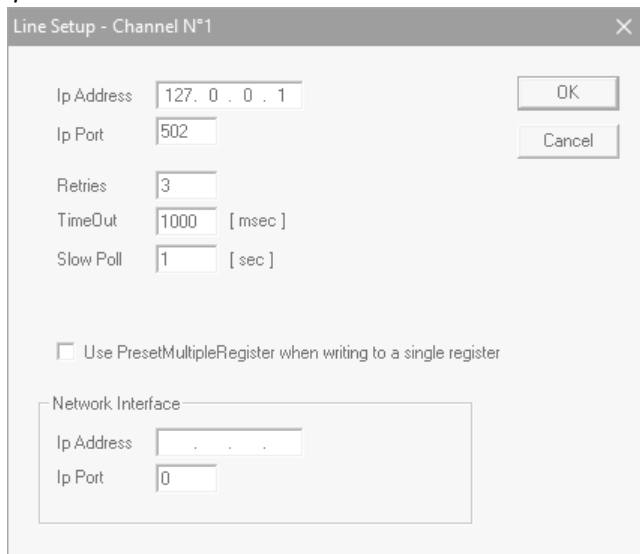
Configure the driver

- 1) Go to the **Item List** bar, in the *Device* combo box select “*MODTCP_IOT*”, and then press on the right most icon (plc with pencil). This starts the driver configurator.



QUICK START GUIDE

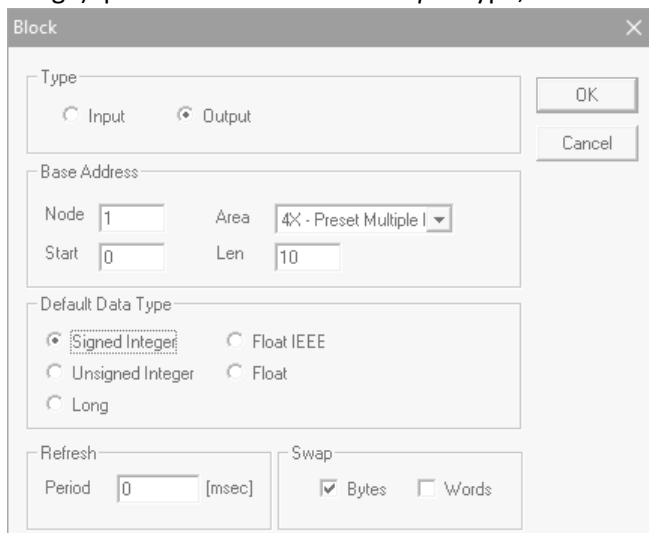
- 2) Configure the **device**: from driver configurator menu choose *Configure/Line*, then set your device *Ip Address* and set *Slow Poll* to 1. Press **OK**.



The dialog box titled "Line Setup - Channel N°1" contains the following fields and controls:

- Ip Address: 127. 0 . 0 . 1
- Ip Port: 502
- Retries: 3
- TimeOut: 1000 [msec]
- Slow Poll: 1 [sec]
- Use PresetMultipleRegister when writing to a single register
- Network Interface section:
 - Ip Address:
 - Ip Port: 0
- Buttons: OK, Cancel

- 3) Configure a **communication block** (a task that periodically reads a portion of the device process image): press **New** then select *Output* type, select 4X area, type 10 in the *Len* field. Press **OK**.



The dialog box titled "Block" contains the following fields and controls:

- Type: Input, Output
- Base Address section:
 - Node: 1
 - Area: 4X - Preset Multiple I
 - Start: 0
 - Len: 10
- Default Data Type section:
 - Signed Integer
 - Unsigned Integer
 - Long
 - Float IEEE
 - Float
- Refresh section:
 - Period: 0 [msec]
- Swap section:
 - Bytes
 - Words
- Buttons: OK, Cancel

- 4) Save the configuration: choose *File/Save*.

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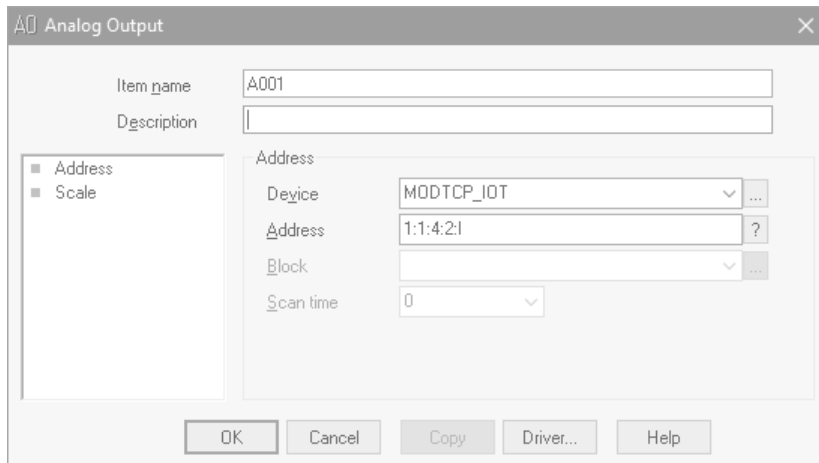
Configure an item

Add an analog output item (AO)

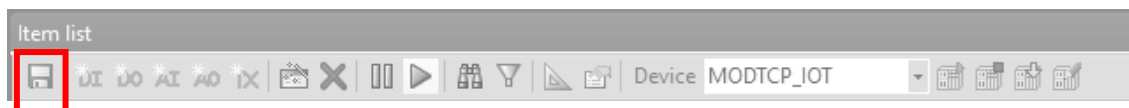
- 1) From Item List toolbar press the AO icon



- 2) Set the *Item Name* field to "AO001", in the *Device* field select the *MODTCP_IOT* driver, then type **1:1:4:2:I** in the *Address* field. Press **OK**.



- 3) Save the database



Start the driver

- 4) from the *Item List* toolbar locate the *Device* combo and select the *MODTCP_IOT*. Press the *Start Driver* button.

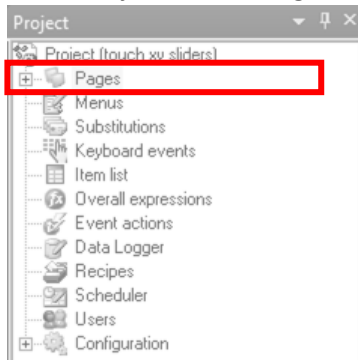


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Show the item in a page

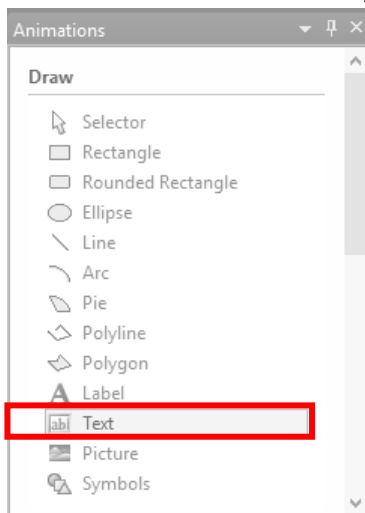
Add a new page

- 1) In the *Project* window right click on *Pages*, choose *New* and give a name (i.e. Page1). Press **OK**.




Add an animation to the page

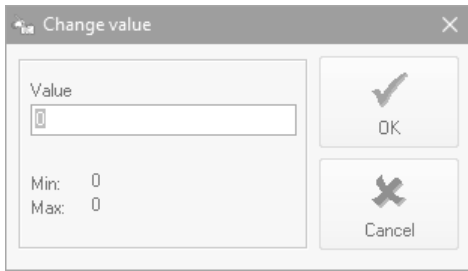
- 2) Go to the *Animations* window, click on *Text*



- 3) Go to the **Page1** tab, move the mouse to the desired insertion position, press and maintain pressed the left button of the mouse, move the mouse to draw the desired size of your animation, release the mouse button.
- 4) Go to the **Item List**, select the A0001 item, drag it over the animation.
- 5) Save the page: from the main menu choose *File/Save page*

Test your page

- 1) In the XEditor main toolbar press the pre-view button 
- 2) Set the item value: double clicking on animation displays the **Change Value** windows.

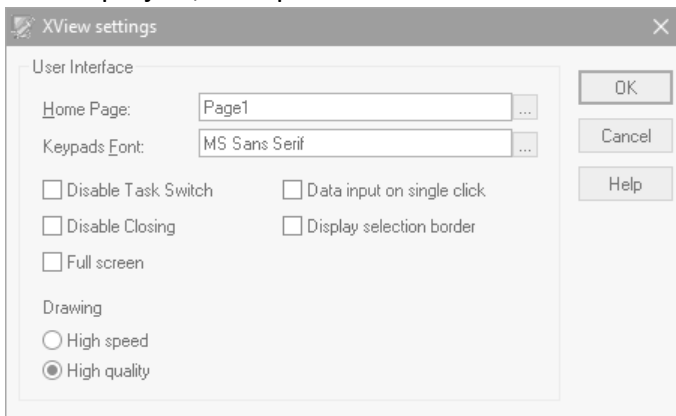


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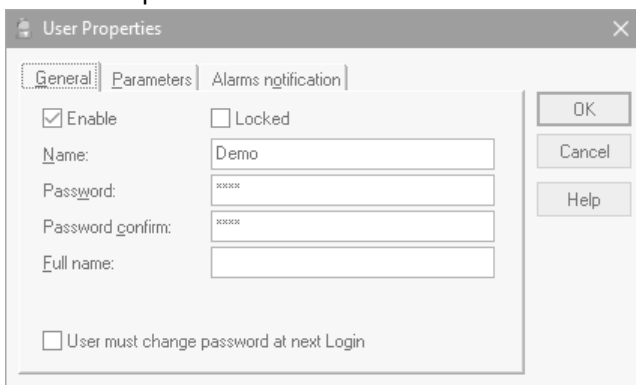
Visualize in the Web

Prepare for web (starting page and user)

- 1) Set the starting page: from main menu choose *Configure/XView settings* and select the start page for the project, then press **OK**:

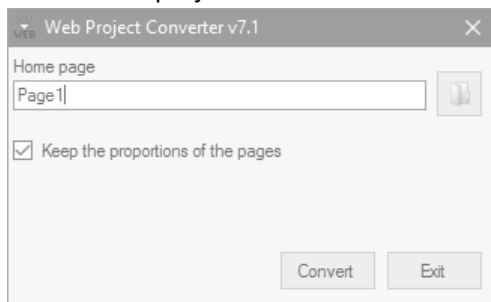


- 2) Define a user (mandatory for web): from main menu choose **Configure/Users**, add a user named **demo** with password **demo**:

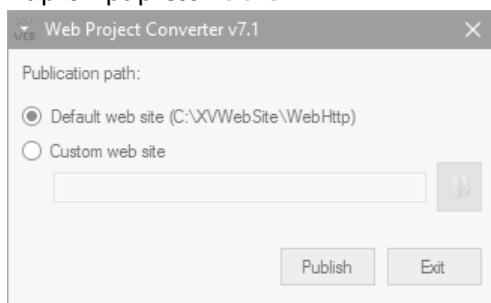


Convert for web and publish

- 1) Save and close every open page (mandatory)
- 2) Convert the project: from main menu choose *Tools/Create Web Project*, then press **Convert**:



- 3) At prompt press **Publish**:



Run visualization in your browser

- 1) Open your browser (i.e. IE11, Chrome) and type <http://127.0.0.1>
- 2) At login, type user name (demo) and password (demo). The password field is case sensitive!

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