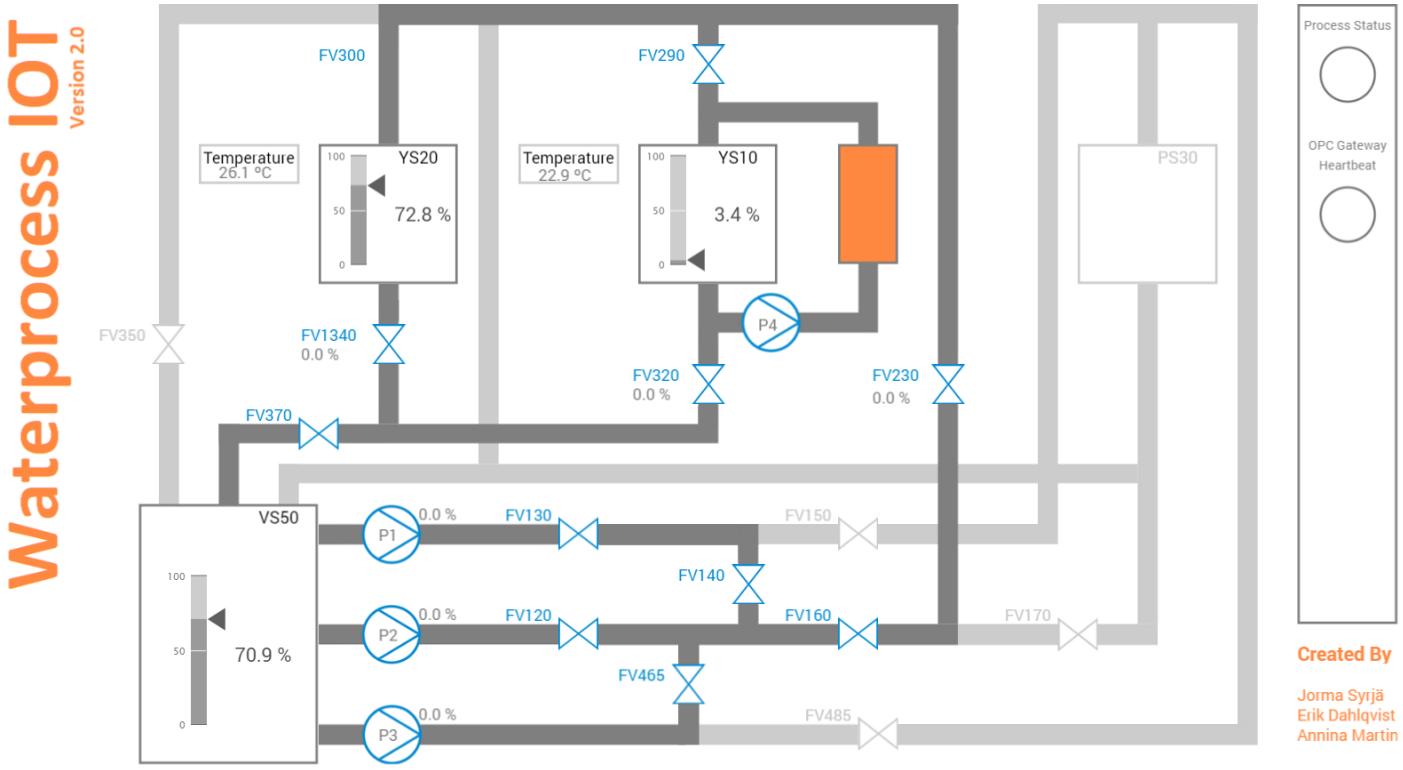
Wiki »

IoT Ticket training

IoT Ticket is Wapice Ltd's solution for storing process data to cloud and draw dashboards easily. To use the system, first you need to get the access to the solution. Wapice has granted the access for IoT Ticket to VAMK so in case you are VAMK member, you can ask an personal account from tka@puv.fi.

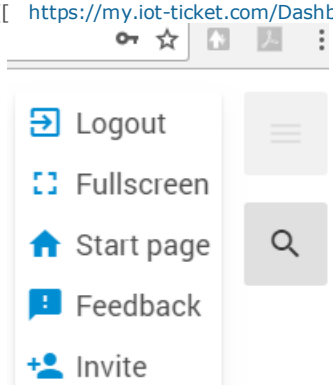


There is a lot of IoT Ticket youtube -videos

How to login/logout

To login: [[https://my.iot-ticket.com/Dashboard]]

To logout:



How to load some data

The are a number of solutions to upload the data. You can use almost any programming language, RESTful API, buy a WRM 247 from Wapice or use OPC Gateway to push OPC data to the cloud.

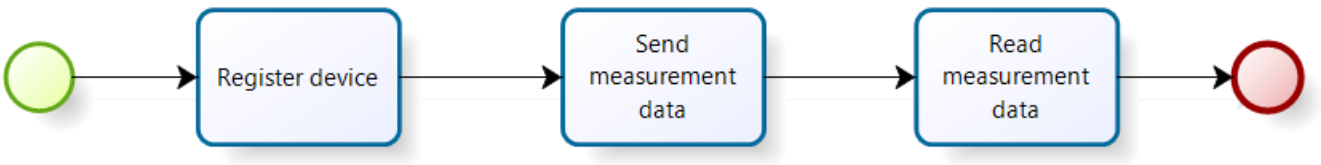
Here are a couple of examples how to upload the data to IoT Ticket server

Upload data by using Java client

Git project

Or download the zip

Or just run the jar



Use OPC Server and gateway

1. Download a OPC server, Matrikon is excellent because they have a free simulation server
2. Download and install OPC Gateway
3. After installation of the OPC Server install Gateway

How to read the data

Using Curl

Listing all the devices for the user profile

curl -X GET --user student1:student1_Password -H "Content-Type:application/json" https://my.iot-ticket.com/api/v1/devices

Listing the datanodes of the device

curl -X GET --user student1:student1_Password -H "Content-Type:application/json" https://my.iot-ticket.com/api/v1/devices/nioocpXn9f1rFK56zBXF7/datanodes

Reading the last value of a datanode of a device

First use the previous example to list the datanodes

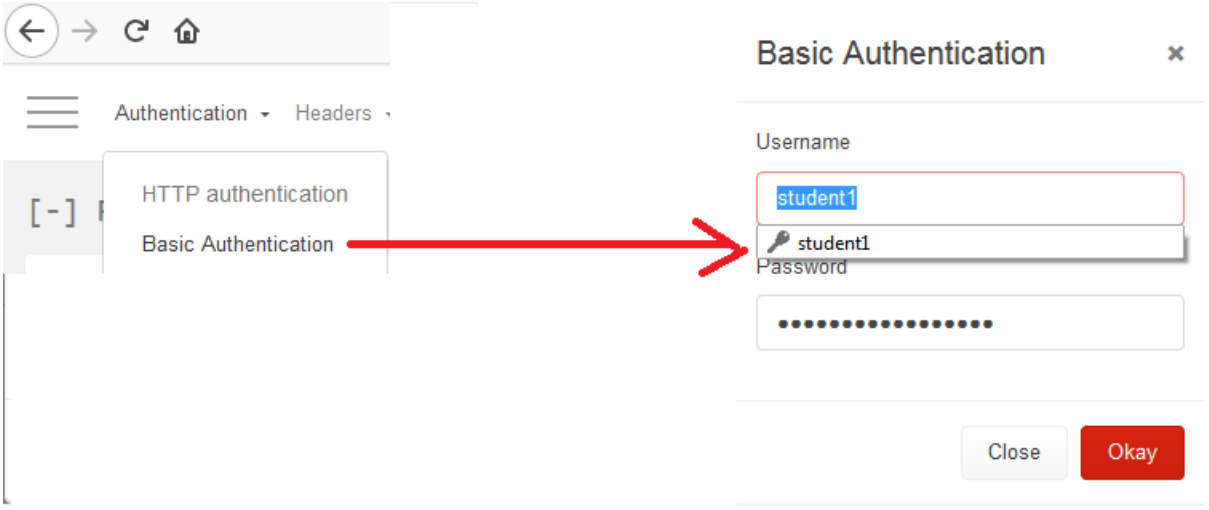
curl -X GET --user student1:student1_Password -H "Content-Type:application/json" https://my.iot-ticket.com/api/v1/process/read/nioocpXn9f1rFK56zBXF7?datanodes=/tka/laptop/power

Using Firefox with Rest client add-on plugin

First install the plugin

Read the devices

First authenticate to IoT Ticket using http basic authentication



Then enter the URL with https-prefix like:

To read one device: https://my.iot-ticket.com/api/v1/devices/nioocpXn9f1rFK56zBXF7

To read the device's datanodes: https://my.iot-ticket.com/api/v1/devices/nioocpXn9f1rFK56zBXF7/datanodes

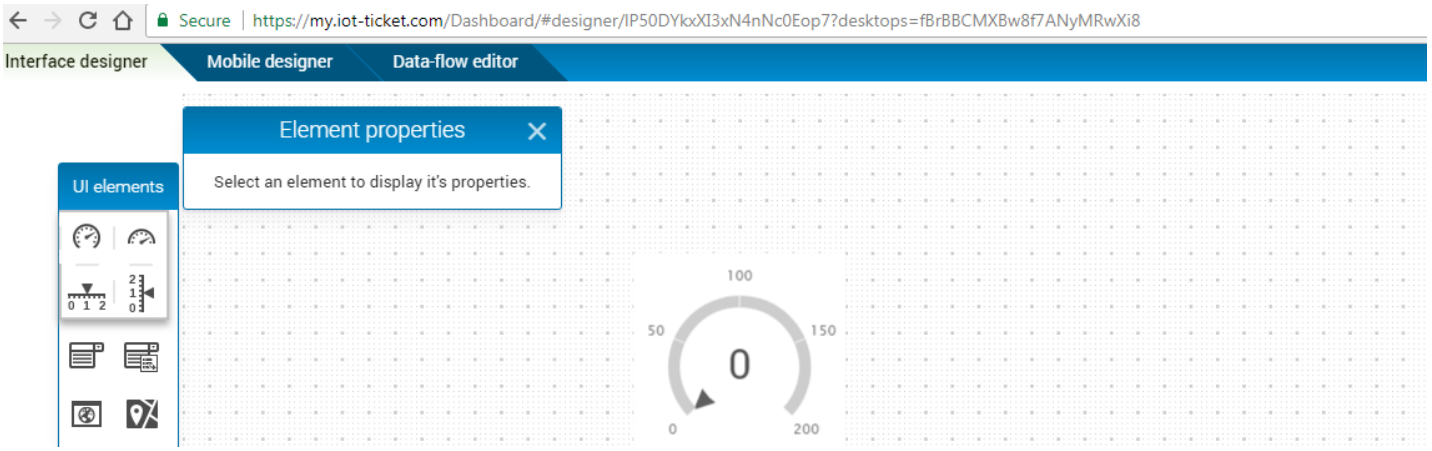
To read a value for the datanode https://my.iot-ticket.com/api/v1/process/read/nioocpXn9f1rFK56zBXF7?datanodes=/tka/laptop/power

Creating a dashboard

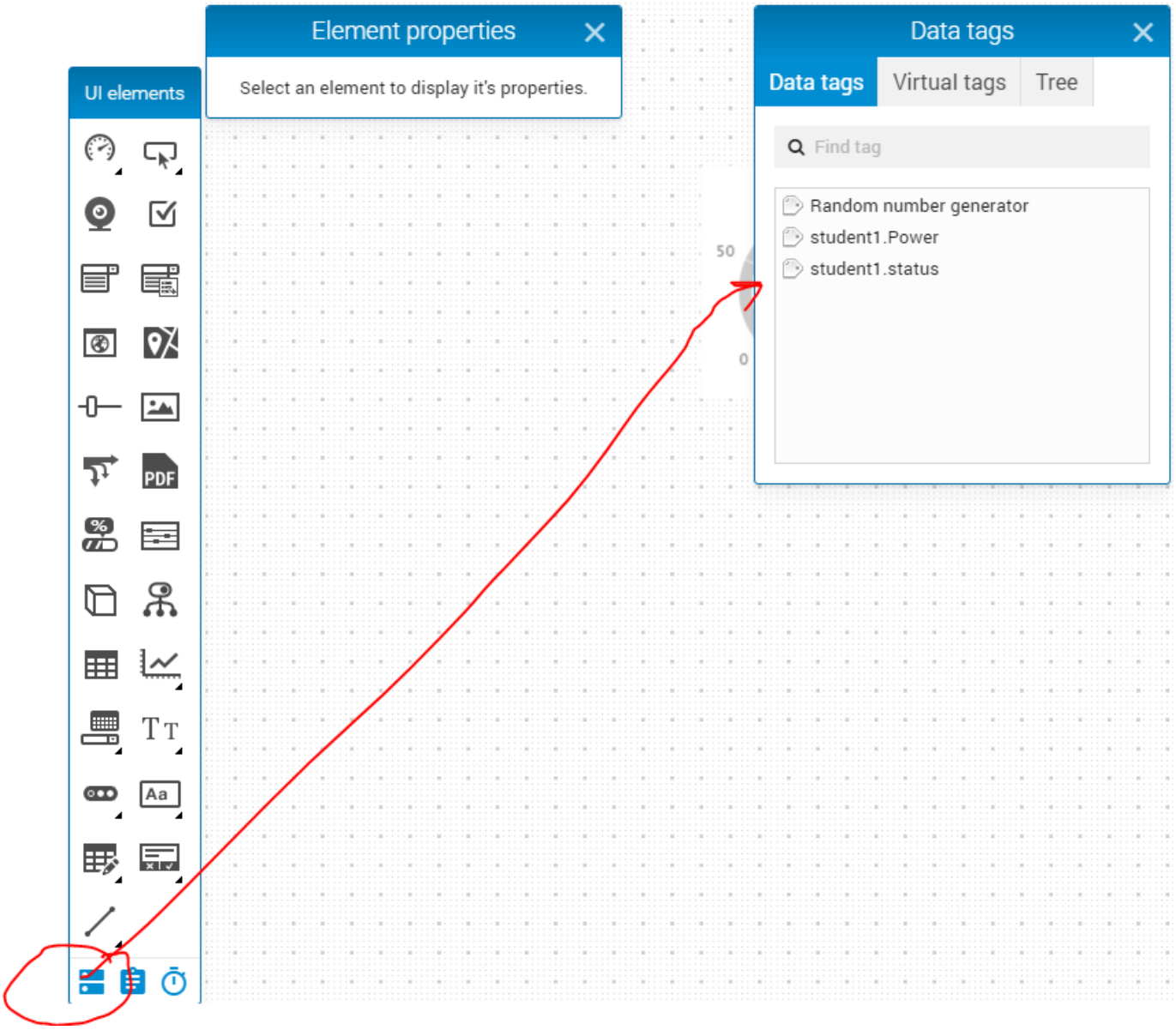
https://my.iot-ticket.com/Dashboard/

Select the device where you want to create the dashboard

Drag the desired elements to the dash

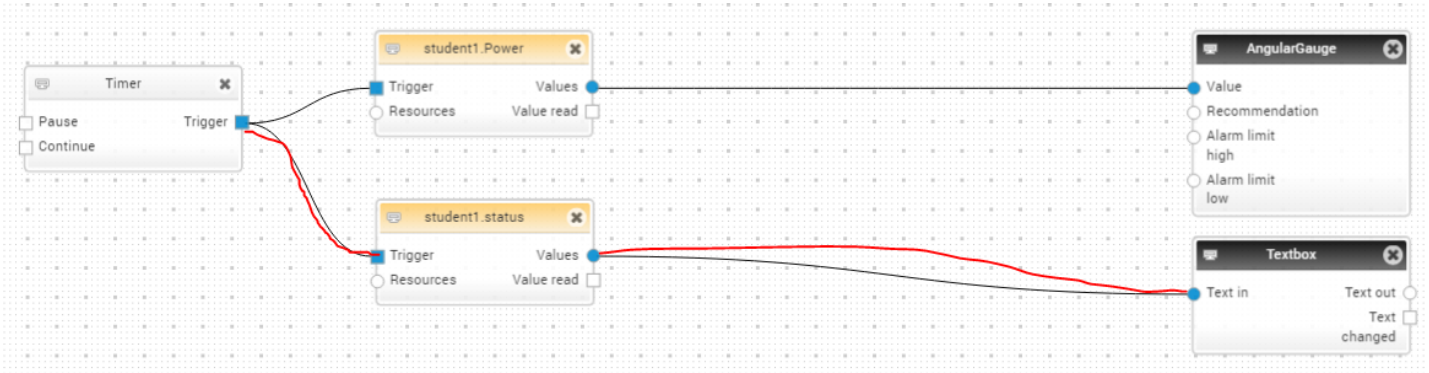


Open datatags:

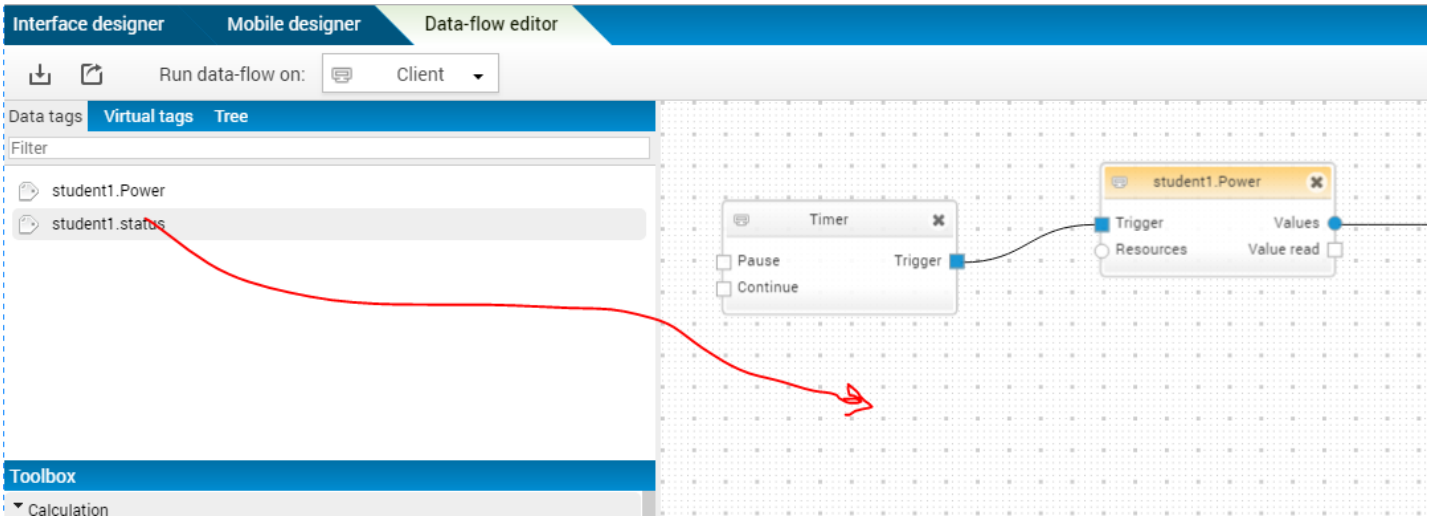


Drag the datatag to the element and place to a right datasource

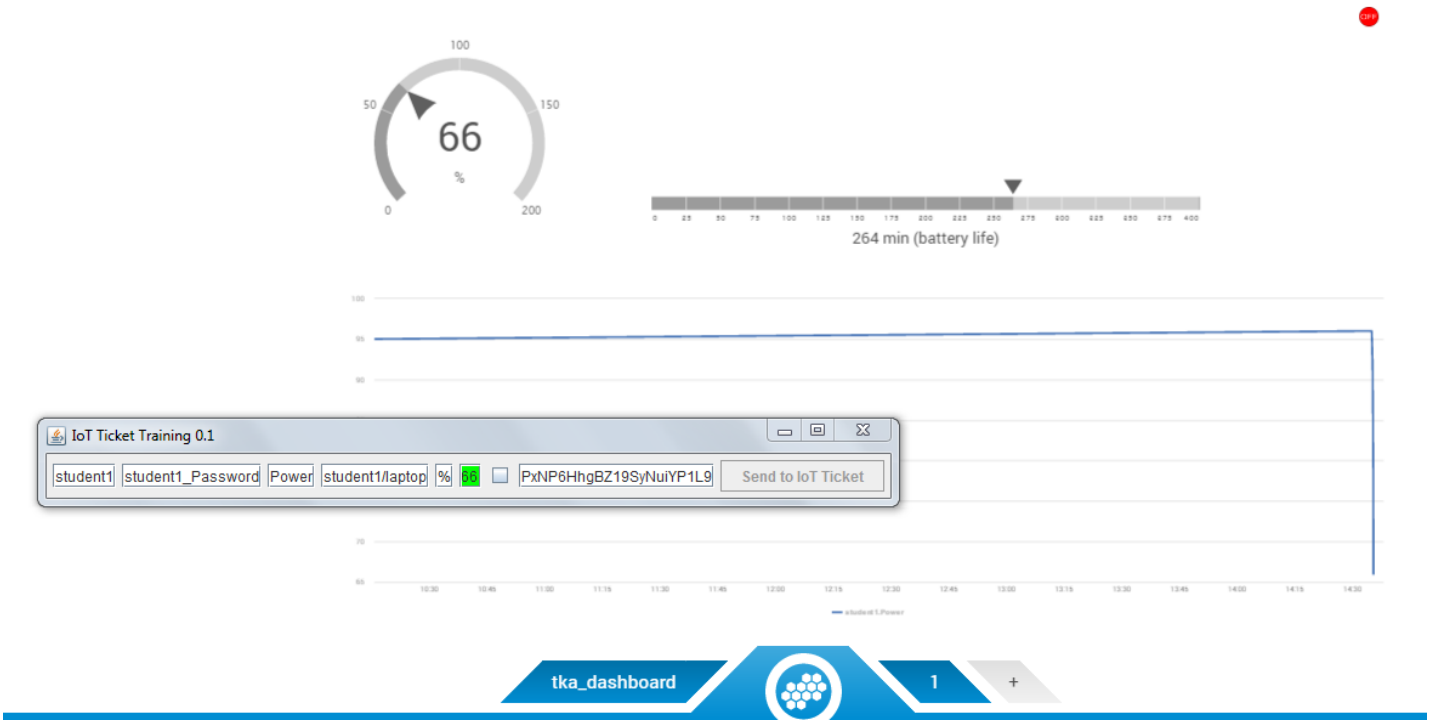
Select the Data-flow editor to update the details



Drag any desired datanode to the data-flow and use



And the final result should look like this



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- logout.PNG (7.42 KB) Timo Kankaanpää, 10.03.2018 08:50 PM
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- gateway4.PNG (19.8 KB) Timo Kankaanpää, 10.03.2018 10:22 PM
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