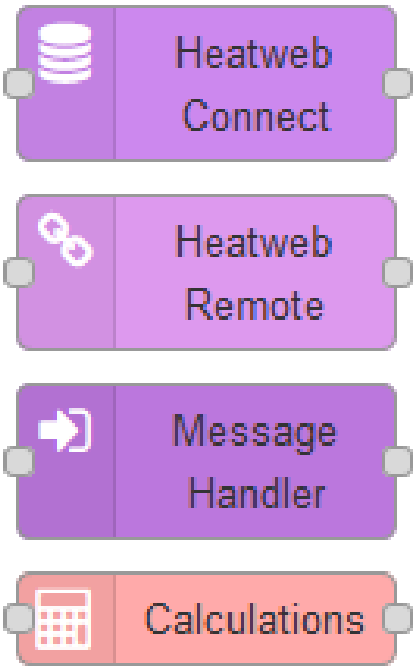
node-red-contrib-heatweb

A set of Node-RED nodes to interact with Heatweb services



HEATWEB
INTEGRATED THERMAL TECHNOLOGY

Demonstration

There is no better way to understand something than to have a go yourself.

While on the face of it, suggesting the reader just 'has a go' at working with a new network management technology may sound far-fetched, it is the purpose of this page to demonstrate that it does indeed take less time than reading this document.

1. Install Node.js and Node-RED on your computer.
   See https://nodered.org/docs/getting-started/windows
   First it will ask you to go to the Node-js site and install Node-js.
   Then you will need to run a command prompt - this is done in Windows by pressing the Start key and typing "cmd" to bring it up in the menu. From here you install node-red as instructed.

2. Run Node-RED by typing "node-red" in the command prompt (as per the instructions) then with this left running, navigate to http://localhost:1880 in a browser. It may take up to a minute to start.

3. Click *manage palette* , in the top right menu, click the *install* tab, search for "*heatweb*", and then click *install* next to the *node-red-contrib-heatweb* result. It may take a minute, and will popup a confirmation once installed.

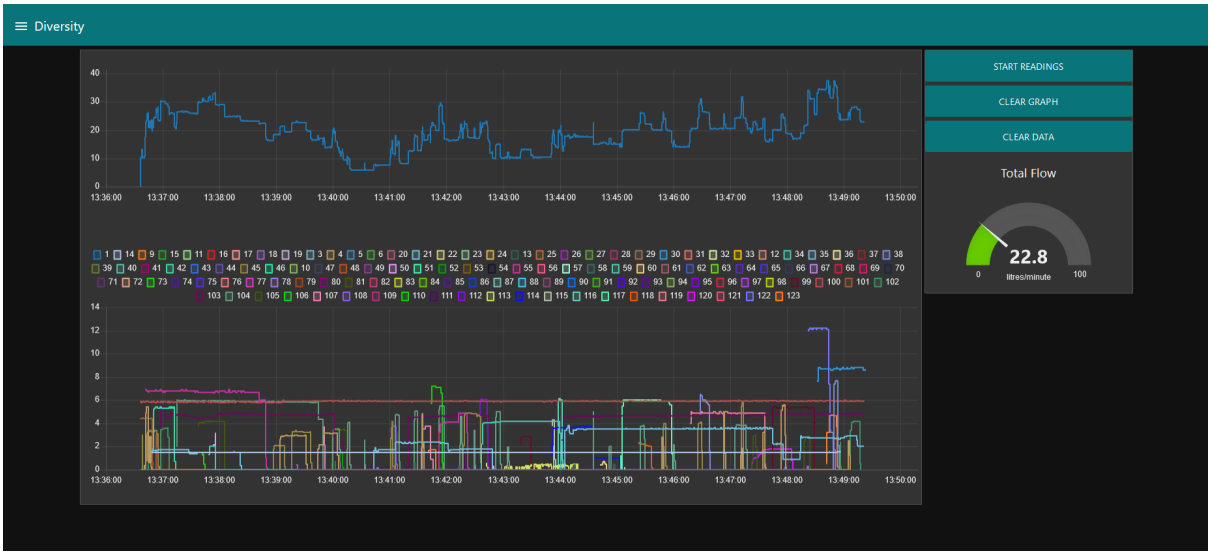
4. Still in the palette manager search for "dashboard". Install the result *node-red-dashboard*. You can close the palette manager when done.

5. Import the example flow:
   Import > *examples* > *node-red-contrib-heatweb* > *Diversity Demo* > *Import*

6. Click *Deploy*. Ignore any warnings and continue.

7. Navigate to http://localhost:1880/ui in a browser to view the output.

What you will have is a dashboard displaying real-time domestic hot water use (in litres/minute) from HIUs in the field. Press START. You may have to wait a moment for a tap to run.



On the face of it this is a simple demo. This however is the simple demo that proved to the BESA committee that the average tap duration is under 10 seconds, and mains water supplies do not run long enough to go cold enough to make test results repeatable in the real world. It is also the raw data required to establish a revised diversity methodology rather than the Danish Standard DS439, and with DHW use being the main driver behind spikes in load, it is also one of the key data feeds used in predictive algorithms around load shifting and calculating energy vectors. All that was needed was a simple mechanism to collate the data - and that is one area where our systems excel.

This Node-RED demo will provide you with a live feed from roughly 200 HIUs, as well as the full Node-RED software that allows you to start playing with the data. A new example will soon be added where the peaks will be stored and compared to DS439 predictions, and the volumes will be calculated so water consumption can be compared to CIBSE and CIPHE predictions.

There are further examples - please be aware that deploying them will enable other features such as remote access to the computer's external ports as well as the network it sits on, even behind a firewall. This is a key support feature in the field, but may require permission from your IT department before running on a work computer.

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