**19/01/2023 (AK):**

* Added jura to the CSS files section and added to sw.js
* Added JQuery and Impromtu plugins to introduce prompt with addons:
  + Require password masking.
  + User defined fonts, input fields, buttons etc.
* Bluetooth password setting is nor controlled by reconfirm\_password().
  + Prompt with impromptu support queries the user to reconfirm the password.
  + If matched, the password set function is called (set\_bt\_pwd()). If failed, an error message is thrown.
* Disabled the log messages when an alert is already thrown to the user while in the Settings tab.
* Added “autocomplete=off” to add the textboxes to prevent any saved username and password being populated.
* P241 list have now 3 (Inst. Liquid) and 6 (Meas. Solid) removed.
* UK Gal now updated to Imp/UK Gal
* Version updated to 1.0.8

**20/09/2023 (AK):**

* Added a reminder note inside the reconfirm password impromptu pop-up.
* Changed the color of reminder note to RED. Font size changed to 20.
* Imp/UK Gal changed to Imperial Gal
* Version updated to 1.0.9

**23/01/2023 (AK):**

* Bug fix for P241 to select the list value when updating the new value. Instead, it was looking at the (selected index – 1). Edited to select list value when changing parameters 241, 100, 104, 808 and 605 via the dropdown list.
* Updated the copyright year to 2023.
* Version updated to 1.0.10

**15/02/2023 (AK):**

* Added the css and js files of jquery-impromptu to the service worker (sw.js)

**21/02/2023 (AK):**

* Added German language support to the web-app.
  + lang.en.js includes English language data.
  + lang.de.js includes German language data.
  + One of the files need to be enabled in index.html
  + All the language data relevant to each tab/page would be updated before that tab is loaded.
    - To enable the German language translation the following needs to be added in index.html
      * <script src="js/lang.en.js"></script>
    - To add a new string to any file, add a new line under lang{} inside the js file.
      * E.g. lang {test : “English”, test2 : “Hello”}.
      * To use string “English”, simply use lang.test and to use string “Hello”, use lang.test2

NOTE: It is best to update the language data for the labels, buttons etc. within each page/tab. This is to ensure the user does not see any language update (i.e., changing from the default language to the selected language).

* Increased the height and width of the impromptu dialog to compensate the German message.
* Version updated to 1.0.11

**27/02/2023 (AK):**

* Added a language drop down list under the “HOME” page to switch language between English and German.
* Triggers lang\_switch() which selects js/lang.en.js or js/lang.de.js.
* Calls page\_lang\_switch() which changes all the labels shown in each page.
* Found that the language switching is only activated after the event has completed. i.e. onchange = “” for the id = "lang\_select\_List". That means the labels are not changing when called during the event.
  + Requires to call the lang\_switch() using setTimeout(lang\_switch, 100); in order to reload the labels once the event has completed (the second call is triggered after 100ms).
  + Found an issue with the impromptu message ($.prompt(recon\_pwd)). The variable recon\_pwd is not getting updated since it is only initialized once.
    - Requires the whole recon\_pwd to be called inside the $.(prompt) as follows:

$.prompt('<label id="recon\_msg1" name="recon\_msg1">' + lang.reconfirm\_pwd\_msg1 + '</label> <input type="password" id="password" name="password" autocomplete="off" value="" style="font-size: 24pt; font-weight: 500; width:220px; height:65px;"><br />' +

'<label id="recon\_msg2" name="recon\_msg2" span class="emphasized">' + lang.reconfirm\_pwd\_msg2 + '</label> <br />', {

title: lang.reconfirm\_pwd\_title,//"RECONFIRM PASSWORD",

modal: true,

// html:'<label id="recon\_msg1" name="recon\_msg1">' + lang.reconfirm\_pwd\_msg1 + '</label> <input type="password" id="password" name="password" autocomplete="off" value="" style="font-size: 24pt; font-weight: 500; width:220px; height:65px;"><br />' +

// '<label id="recon\_msg2" name="recon\_msg2" span class="emphasized">' + lang.reconfirm\_pwd\_msg2 + '</label> <br />',

buttons: {OK: 1},

//position: { container: 'h1', x: 200, y: 60, height: 400, width: 1000, arrow: 'tc' },

position: { height: 400, width: 900 },

submit:function(e,v,m,f){

if(v){

// console.log($("#password").val()); // Value entered in the password box

if(document.getElementById("pWord-box").value == $("#password").val()) // Password match

set\_bt\_pwd();

else

alert(lang.alert\_message2);//alert("Passwords do not match!");

}

}

});

* + - html initialization requires to be outside the impromptu element unless initialized as a normal variable.
* Updated the language files with the drop-down list strings.
* Added a try catch along with device null check for Bluetooth Disconnect check. Happens only after page initialization (device is not initialized yet).
* Version updated to 1.0.12

**27/02/2023 (AK):**

* Added “lang.de.js” and “lang.en.js” to the service worker (sw.js)
* Version updated to 1.0.13

**14/04/2023 (AK):**

* Based on NIVUS\_web-app v1.1.0. Version updated to 1.1.0
* Bug fix for the intermittent language switch. Dynamic loading of files requires a minimum of a couple of ms to properly work. Switched from dynamic loading (lang.en.js, lang.de.js) to a static one (i.e., single file with language selection using array mapping – lang.js).
* Retains the selected language in the cache. The next reload auto selects the previously chosen language.
* Updated language file from NIVUS. Updated lang.js (VOLUMENEINHEITEN was split into VOLUMEN EINHEITEN for fitting the string better in the frame)
* Fix for Failed error message not showing the error type.
* Added auto page reload on disconnect (either via END SESSION or device reboot).

NOTE: Found that an experimental functionality (device.forget()) that is currently available in Chrome 101 works fine. However, it requires user intervention in enabling chrome flag *chrome://flags/#enable-web-bluetooth-new-permissions-backend.* This functionality would be ideal and should be used in the future once this flag is auto enabled as it does not require the page to reload.

* Added language string for “Enter Password”. Also, corrected the wrong strings for “Setting new Bluetooth range. Please wait...” and “Setting new Bluetooth device name. Please wait...” with new strings (was missed during the first version of language porting).
* Updated sw.js with lang.js (Removed lang.en.js and lang.de.js)

**18/04/2023 (AK):**

* Language file updated as per NIVUS’ feedback:
* “RANGE” to “Reichweite” and “SOLID” to “FESTSTOFF”.
* English: "Setting new Bluetooth password. Please wait...",
* German: "Neues Bluetooth-Passwort festlegen. Bitte Warten...",
* English: "Setting new Bluetooth range. Please wait...",
* German: "Neue Bluetooth-Reichweite festlegen. Bitte Warten...",
* English: "Setting new Bluetooth device name. Please wait...",
* German: "Neuen Bluetooth-Gerätenamens festlegen. Bitte Warten...",
* Version updated to 1.1.1

**21/04/2023 (AK):**

* Language file updated as per NIVUS’ feedback:
* English: "Setting new Bluetooth device name. Please wait...",
* German: "Neuen Bluetooth-Gerätenamen festlegen. Bitte Warten...",
* Version updated to 1.2.0

**08/11/2023 (HM):**

* Added special character check in Device Name to ensure entry of only alphanumeric values.
* Version updated to 1.2.1.

**08/05/2024 (AK):**

* Added mode for 40m Reflect units. Checks compensated\_range.
* Version updated to 2.0.0.

**31/05/2024 (AK):**

* Added library chartjs-plugin-zoom v2.0.0 for chart zoom functionality.

<https://cdnjs.com/libraries/chartjs-plugin-zoom>

<https://cdnjs.cloudflare.com/ajax/libs/chartjs-plugin-zoom/2.0.1/chartjs-plugin-zoom.min.js>

/\*!

\* chartjs-plugin-zoom v2.0.0

\* undefined

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* Added Hammer.JS - v2.0.8 for pinch functionalities.

<https://cdnjs.com/libraries/hammer.js>

<https://cdnjs.cloudflare.com/ajax/libs/hammer.js/2.0.8/hammer.min.js>

/\*! Hammer.JS - v2.0.8 - 2016-04-23

 \* http://hammerjs.github.io/

 \*

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 \* Licensed under the MIT license \*/

* The current chart.js library is based of the following:

<https://cdnjs.com/libraries/Chart.js>

<https://cdnjs.cloudflare.com/ajax/libs/Chart.js/3.7.1/chart.min.js>

/\*!

\* Chart.js v3.7.1

\* https://www.chartjs.org

\* (c) 2022 Chart.js Contributors

\* Released under the MIT License

\*/

/\*!

\* @kurkle/color v0.1.9

\* https://github.com/kurkle/color#readme

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* Zoom, pinch and drag are all available under chart.js. Minimum Y axis width: 200 points. Minimum X axis width: 20 points
* Zoom constrains values and shading within the chart axes area using Math.max(value, left), whereas value is the point in the chart.
* X and Y axes labels now only show the zoomed part values.
* Disabled p104\_tid, p605\_tid, param\_tid (1s parameters initial query). Instead, sends SENDPART1 (first 60 parameters), SENDPART2 (second 60 parameters) and SENDPART3 (last set of parameters), gets span to show the span area. Lang.js is updated as well.
* The sequence starts with SENDPART1, SENDPART2, SENDPART3 and then GET ECHO and GET DATEM toggling every 5 seconds. SENDPART1, SENDPART2 and SENDPART3 replies goes through the parameters and updates the parameters in SETTINGS tab, P101, 107, 108 and 586. The values are converted from hex to float.
* Param.js includes parameters and their corresponding index. Parameter number is found using param\_info.map(a => a.pnum), whereas parameter value (NOT USED AS OF NOW) is found using param\_info.map(a => a.pvalue).
* Version updated to 2.1.0

**04/06/2024 (AK):**

* Re-enabled P105 and P106 queries when P104 is changed under settings page.
* Version updated to 2.2.0

**05/06/2024 (AK):**

* Fix for seeing HEX data in DATA LOG when user presses CLEAR or SEND button during any stages of trace requests (i.e. during commands SENDPART1, SENDPART2, SENDPART3, GET ECHO or GET DATEM).
* Version updated to 2.3.0

**18/06/2024 (AK):**

* Left mouse button double click restores zoom and pan - resetZoom.
* Version updated to 2.4.0