

Supervisor Device Template

for Saia PCD® Supervisor



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Document version 1.

Date	Version	From	Description
2020-01-07	ENG01	M. Egner	Translated from German version GER01
2020-05-14	ENG02	M. Egner	New hints in chapter 5.2
2020-04-28	ENG02	M. Egner	Anpassungen und Support für N4.8 & N4.9 Neue Hinweise in Kapitel 13 hinzugefügt

2. **Description**

The device template is an HTML template that represents a home page with a freely configurable menu containing all possible views as well as PX pages, HTML pages from the Supervisor/Niagara. In addition, alarms can also be displayed according to priority

The menu supports nesting on up to 4 levels. The approach means that a separate navigation menu can be created for each user within the Supervisor.

Alarm lists have already been defined as examples for this

In addition, several users have already been created as examples, each with their own roles, rights and languages, as well as their own individual views of the menu structure.

3. System requirements

List of the required software versions:

- Starting from Template Version 1.0.21 | Supervisor 2.1 & 3.0 | Niagara 4.8 & 4.9
- · Browser:
 - Google Chrome Version 79 or newer
 - Firefox Version 71.0 or newer
 - EDGE 88 or newer
- Windows 10

Installation 4.

There are two ways to use the template. These are explained below.

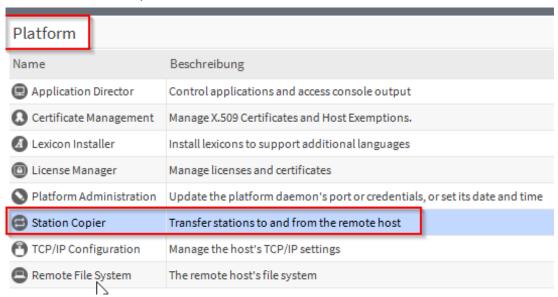
4.1 Creating a new project with the device template

The template is a ready-made project and can therefore easily be used directly.

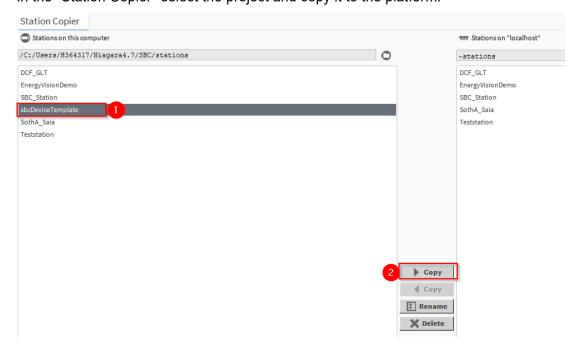
To be able to use it, copy the "sbcDeviceTemplate21vX X X" folder from the zip file to the following directory (User Home): "C:\Users\MyUserName\Niagara4.8\SBC\stations" for Supervisor 2.1 or "C:\Users\ MyUserName\Niagara4.9\SBC\stations" for Supervisor 3.0.

Start the Supervisor and go to the platform

Go to the "Station Copier":



In the "Station Copier" select the project and copy it to the platform.



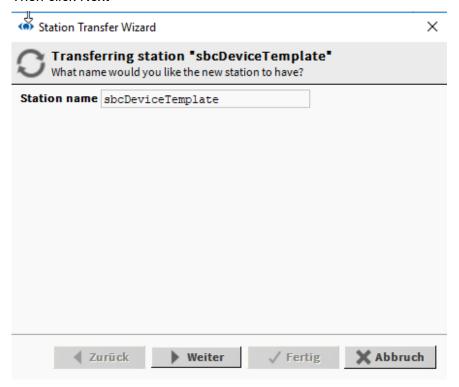
First enter the pass phrase "SaiaPCD@1978" and then click Next.



You can also rename the station directly in the next window.

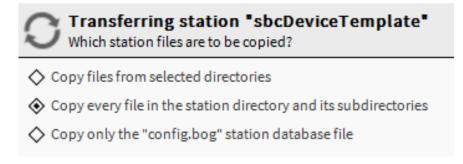
The name can be chosen freely.

Then click Next



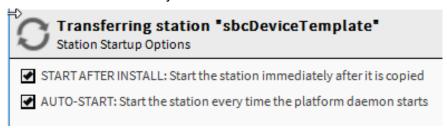
Then choose the option shown so that everything gets copied.

Then click Next



Set the startup options according to your needs.

Then click Next and finally Done

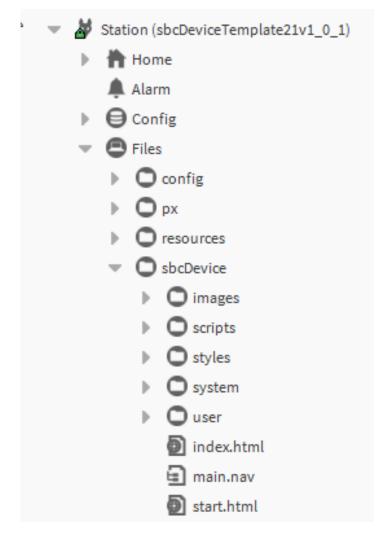


4.2 Incorporating a device template in an existing project

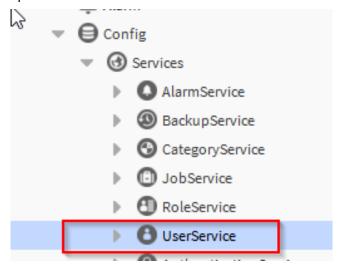
The whole template can also be transferred directly to an already running station.

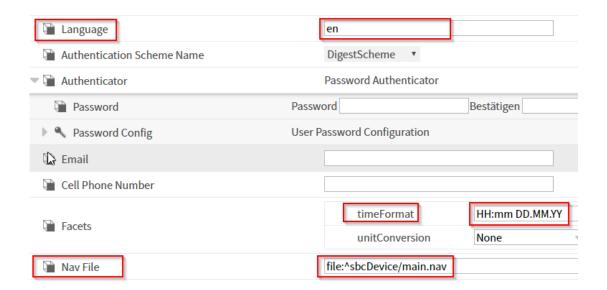
Copy the "sbcDevice" folder from the "..\sbcDeviceTemplate21vX X X\shared\" folder to the system path of your station: "C:\ProgramData\Niagara4.8\SBC\stations\IhreStation\shared\" for Supervisor 2.1 or "C:\ ProgramData\Niagara4.9\SBC\stations\IhreStation\shared\" for Supervisor 3.0

You will then find the "sbcDevice" folder in the station under Files (update if necessary):



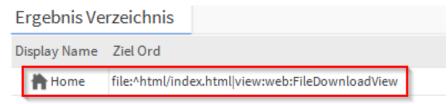
To ensure that the whole thing can be used, the main.nav file, the language and the time format must be specified for each user in the "User Service":





In addition, the date format can be specified here, which later defines the time and date display in the template.

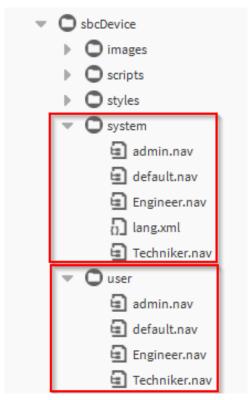
The main.nav transforms the index.html with the corresponding view into the home page:



Configuration 5.

Configuration files 5.1

A nav file must be created for each user in the "users" and "system" folders.



The name must be the same as the user name (case-sensitive)!

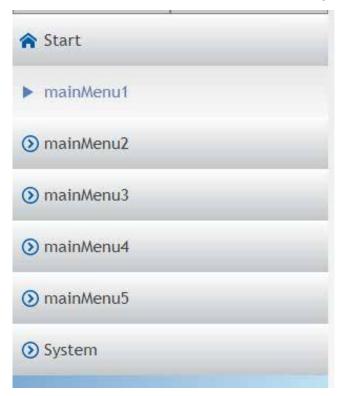
This enables the entire template to be adapted individually for each user and, if necessary, in different languages.

The default.nav can be used as a template.

If the user-specific NAV file is missing, the default.nav file is used!

User Nav File menu 5.2

The entire menu is defined In the nav file under "Users" as what the user is intended to see



The user nav file is fully customisable in terms of its structure and name.

The first entry is permanently defined as the home page in the menu and has no submenus.

The entries under "Start" define the structure of the menu below in hierarchical terms.

Up to 4 levels are possible!

- 1. mainMenu
 - 2. subMenu
 - 3. subSubMenu
 - 4. Pages

As is usual with all NAV files in Niagara, everything can be linked here.

Display Name	Ziel Ord
☐ 🏫 Start	station: file:^sbcDevice/start.html
☐	file:^px/mainMenu1/Overview.px
☐	file:^px/mainMenu1/subMenu1/Overview.px
☐ ○ subSubMenu1	file:^px/mainMenu1/subMenu1/subSubMenu1/Overview.px
○ Page1	file:^px/mainMenu1/subMenu1/subSubMenu1/Page1.px
○ Page2	file:^px/mainMenu1/subMenu1/subSubMenu1/Page2.px
○ Page3	file:^px/mainMenu1/subMenu1/subSubMenu1/Page3.px
New	station: slot:/
○ Page1	file:^px/mainMenu1/subMenu1/Page1.px
Page2	file:^px/mainMenu1/subMenu1/Page2.px
Page3	file:^px/mainMenu1/subMenu1/Page3.px
	null
○ Page1	file:^px/mainMenu1/Page1.px
Page2	file:^px/mainMenu1/Page2.px
⊞ 🗖 mainMenu2	null
○ Page1	file:^px/mainPage1.px
Page2	file:^px/mainPage2.px
☐ Page3	file:^px/mainPage3.px
☐	null
Userlist	station: slot:/Services/UserService view:webEditors:UserManager
Backup	station: slot:/Services/BackupService view:backup:BackupManager
Networks	station: slot:/Drivers
Alarm db maintenance	station: slot:/Services/AlarmService view:alarm:DatabaseMaintenance
History db maintenance	history: view:history:DatabaseMaintenance
■ Audit history	history:/sbcDeviceTemplate21v1_0_1/AuditHistory
○ Log history	history:/sbcDeviceTemplate21v1_0_1/LogHistory
Search	station: slot:/Services/SearchService

Links can also contain additional information about the "view" (e.g. | view:alarm:DatabaseMaintenance)

•	From version 1.0.4 onwards	ORDs in the user nav file can now contain "?stationName", which is replaces with the station name (sbcDeviceTemplateXXvX_X_X). e.g. history: "/?stationName/AuditHistory"
\triangle	Attention, with versions older than 1.0.4	Links for AuditHistory or LogHistory must be modified when renaming the device, as they contain the device name.
•	From version 0.8.4 onwards	It is also possible to specify " view:?fullScreen=false" or "?fullscreen=false" in the nav file, so that the nav tree can be seen.

5.2.1. Editing the entries in the NAV file



If an entry is selected, it can be edited (2), moved (4 and 5) or deleted (3) using the buttons on the lower bar.

You can also double-click an entry to edit it.

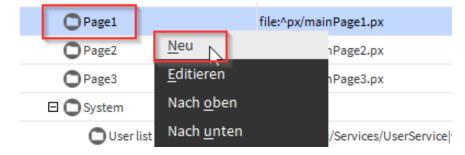


The same is also possible if you right-click to open the context menu at a particular point.

You also have the option of copying or reproducing points here (8).

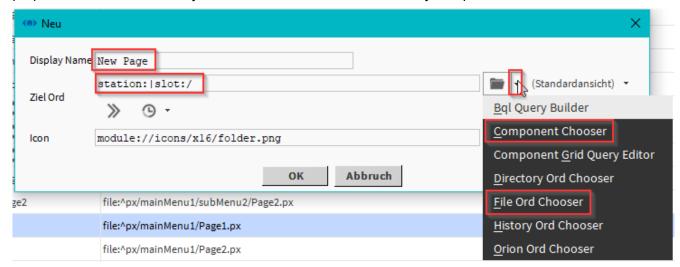
You can also expand and collapse the view of the levels (9).

You can use the New (1) button to create a new entry.

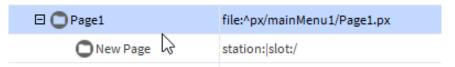


You will then see this popup window.

The element can be given a name in the first field which is subsequently displayed in the menu for this purpose. In the second field you can save or select a folder for any component or file.



Please note that a new entry is always created below the element that you have selected.

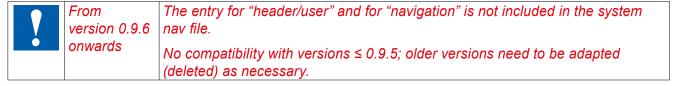


5.3 Nav file system

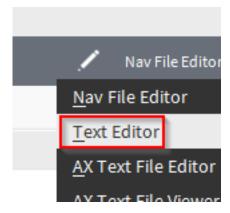
Display Name	Ziel Ord
⊟ † Home	station: file:^sbcDevice/index.html
☐ ○ header	null
SBC Supervisor - Template	
SBC Logo -Right	file:^sbcDevice/images/logo_sbc.svg
Customer Logo - Left	file:^sbcDevice/images/Logo_supervisor.svg
☐ q uickmenu	null
Alarmliste	station: slot:/Services/AlarmService/DefaultAlarmlist view:sbc:SbcAlarmConsole
Trenddaten	history:
Benutzerverwaltung	station: slot:/Services/UserService
Suche	station: slot:/Services/SearchService
Info	station: slot:/Services/PlatformServices
☐ alarmlist	null
☐ ○ AlarmlistPrio01	station: slot:/Services/AlarmService/AlarmlistPrio01 view:sbc:SbcAlarmConsole
AlarmClassPrio01	station: slot:/Services/AlarmService/AlarmClassPrio01
Actiontime	0.5
ColorAlarm	#da0000
	station: slot:/Services/AlarmService/AlarmlistPrio02 view:sbc:SbcAlarmConsole
	station: slot:/Services/AlarmService/AlarmlistPrio03 view:sbc:SbcAlarmConsole
	station: slot:/Services/AlarmService/AlarmlistPrio04 view:sbc:SbcAlarmConsole
	station: slot:/Services/AlarmService/AlarmlistPrio05 view:sbc:SbcAlarmConsole
☐	null
Out temperature	station: slot:/Drivers/ExamplePoints/OutTemp
Out humidity	station: slot:/Drivers/ExamplePoints/OutHumidity
Weather	station: slot:/Drivers/ExamplePoints/WeatherState
Nighttime	station: slot:/Drivers/ExamplePoints/Nighttime

All other points of the template are defined in the system file.

The structure or layout must not be changed, otherwise the template will no longer work.



Some special changes require the text editor, as the selection window of the NavFile editor does not accept all entries.



Explanation of the structure:

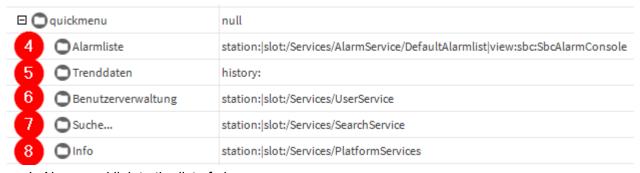


5.3.1 Header



- 1. Template header
- 2. Logo on the right hand side
- 3. Logo on the left hand side SVG, PNG, GIF or JPEG files can be used as images, for example. In the case of fixed-pixel images such as PNG, GIF or JPEG, the height should be 50 pixels. If no images are needed, then enter "null" or "none" in the "ord" field instead

5.3.2 Quick menu



- 4. Name and link to the list of alarms
- 5. Name and link to the history
- 6. Name and link to user management
- 7. Name and link to the search function¹
- 8. Name and link to the info

If an item in the quick menu is to be hidden or left unused, enter "null" or "none" in the "ord" field instead.

Note: The search function is used to search for items using the tagging function. If the function is not required, it can simply be deactivated.

5.3.3 Alarm list

null
station: slot:/Services/AlarmService/AlarmlistPrio01 view:sbc:SbcAlarmConsole
station: slot:/Services/AlarmService/AlarmClassPrio01
0.5
#da0000
station: slot:/Services/AlarmService/AlarmlistPrio02 view:sbc:SbcAlarmConsole
station: slot:/Services/AlarmService/AlarmlistPrio03 view:sbc:SbcAlarmConsole
station: slot:/Services/AlarmService/AlarmlistPrio04 view:sbc:SbcAlarmConsole
station: slot:/Services/AlarmService/AlarmlistPrio05 view:sbc:SbcAlarmConsole

There are 5 ready-made alarm lists (shown above from 9 to 13).

1. The first topmost entry contains the name of the list and the link to the alarm console (ConsoleRecipient).

If an alarm list is to be hidden or left unused, enter "null" or "none" in the "ord" field. More options can be set in the 3 fields below the alarm list. The name is of no relevance, just the "ord" field.

- 2. The path of the associated alarm class is defined in the first subfield.
- 3. A time can be set for the intervals at which the macro should flash for new alarms in the second subfield. If you do not want that, enter "null" or "none" in the "ord" field.
- 4. In the third field you can define the colour of the alarm field when an alarm is active. The colours can be defined according to the HTML/CSS standard. See:

https://www.w3schools.com/cssref/css_colors_legal.asp https://www.w3schools.com/colors/colors names.asp

The following definitions are thus possible:

- Hexadecimal colour specification

A hexadecimal colour is specified with: #RRGGBB, where the hexadecimal integers RR (red), GG (green) and BB (blue) specify the components of the colour. All values must be between 00 and FF.

#ff0000 Red #00ff00 Green #0000ff Blue

- RGB colours

An RGB colour value is specified with the rgb () function, which has the following syntax: rgb(red, green, blue)

Each parameter (red, green and blue) defines the intensity of the colour and can be an integer between 0 and 255 or a percentage (from 0% to 100%).

For example, the value for rgb (0,0,255) is displayed as blue because the parameter blue is set to the highest value (255) and the others are set to 0.

The following values also define the same colour: rgb (0,0,255) and rgb (0%,0%,100%).

- Predefined colour names common to all browsers https://www.w3schools.com/colors/colors names.asp
- ETC. See links

5.3.4 Datapoints

☐	null
1 Out temperature	station: slot:/Drivers/ExamplePoints/OutTemp
2 Out humidity	station: slot:/Drivers/ExamplePoints/OutHumidity
3 Weather	station: slot:/Drivers/ExamplePoints/WeatherState
4 Nighttime	station: slot:/Drivers/ExamplePoints/Nighttime

The following applies to all values: If you do not want a value displayed, enter "null" or "none" in the "ord" field.

- 1. A datapoint for the outdoor temperature can be entered in the "Ord" field for "Out Temperature".
- 2. A datapoint for the outdoor humidity can be entered in the "Ord" field for "Out humidity".
- 3. A datapoint for the weather conditions can be entered in the "Ord" field for "Weather".
- 4. A data point can be entered for the status of day and night, the weather display in the "Ord" field of "Nighttime".

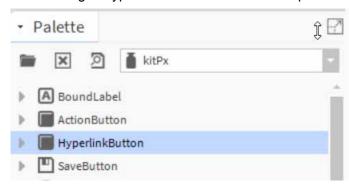
For more details see Chapter 9 "Connecting a weather station (BETA)".

Special features on PX pages 6.

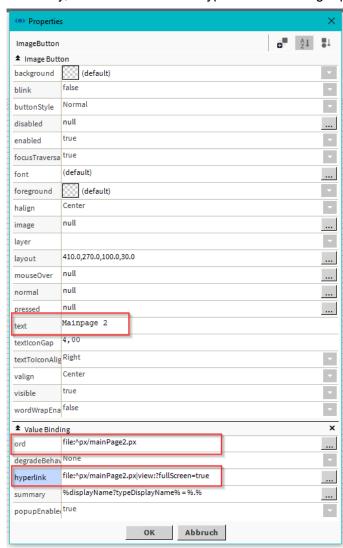
6.1. Use of buttons in connection with the device template

In order to navigate to a PX page in connection with the device template, navigation buttons must have an extra option: "|view:?fullScreen=true" or "?fullScreen=true".

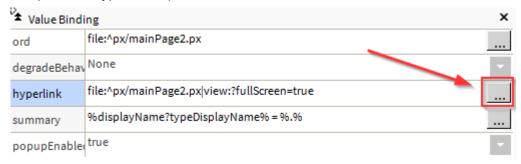
1. First drag a HyperlinkButton from the kitPx palette to the PX page.



Secondly, we have to define a hyperlink to the target page in the properties:



3. Open the "hyperlink" option:

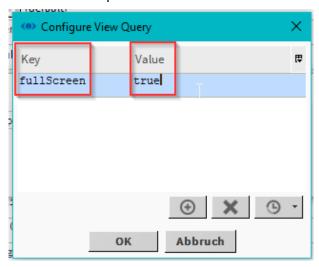


4. Then define the folder in the usual way (1).

Then click on the two arrows (2);



5. In the subsequent window enter "fullScreen" in the Key field and "true" in the Value field:



6. The window can now be confirmed with "OK"

You can then see the change here. Confirm again with "OK"

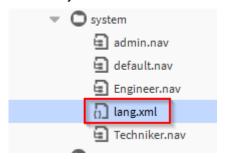


You will now also see the change in the "Hyperlink" field.

file:^px/mainPage2.px|view:?fullScreen=true hyperlink

Translation of the standard texts 7.

The "system" folder contains a file named lang.xml where additional languages can be defined as necessary.



```
version="1.0" encoding="UTF-8"?>
textBlock id='User'>
   <text lang='en' translation='User'/>
   <text lang='de' translation='Benutzer'/>
extBlock id='Back'>
    text lang='en' translation='Back'/>
   <text lang='de' translation='Zurück'/>
   Block id='Forward'>
    text lang='en' translation='Forward'/>
   <text lang='de' translation='Vor'/>
   Block id='Out temp'>
    text lang='en' translation='Out temp'/>
   <text lang='de' translation='Außentemperatur'/>
```

Simply copy the text tag (<text...>) and define the language under "lang" and define the text in the respective language under "translation".

German, English, French and Italian versions are already available in the example shown.

If a language is not defined, the English original is used automatically.

Changing the images 8.

Only possible from version 1.0.11 onwards.

There is a file for changing the images under "Scripts \ theme.js"

All paths to the images used can be found there.

These can be customized.

```
userXmlPath = "file:^sbcDevice/user/";
systemXmlPath = "file:^sbcDevice/system/";
                                                                                                                                                                                                                                 //Path for user specific nav-Files
//Path for system specific nav-Files
                                                                                                                                                                                                                                                                                 //Image is shown if there are new Alarms
    //Image is shown if Alarms active but acknowledged
//Image is shown if there are no Alarms
//Image for the trend button
//Image for the user button
//Image for the search button
//Image for the info button
      Images in Quickmenu from US Scripts"/
imageAlarmActive = '/file/sbcDevice/images/sbcDarkBlue/AlarmActive.svg';
imageAlarmAck = '/file/sbcDevice/images/sbcDarkBlue/AlarmAck.svg';
imageAlarm = '/file/sbcDevice/images/sbcDarkBlue/Alarm.svg';
imageTrend = '/file/sbcDevice/images/sbcDarkBlue/Trend.svg';
  imageLogoNavBar = '/file/sbcDevice/images/logo_supervisor.svg';
imageLogoHeader = '/file/sbcDevice/images/Logo_sbc.svg';
imageMenuWrapper = '/file/sbcDevice/images/sbcDarkBlue/T_Icon_List.svg';
                                                                                                                                                                                                                                                                                  //Need to be defined in the system/*.nav File! Any Changes have no effect!
//Need to be defined in the system/*.nav File! Any Changes have no effect!
//Image for Menu Wrapper (Button to open the menu)
//Image for the logout button
    r imageLogoutButton = '/file/sbcDevice/images/sbcDarkBlue/Logout.svg';
        Images in start.html */
imageStartHome = '/file/sbcDevice/images/csm_home-silde_image.jpg';
"I mages in Menu "/
magesakutton = '/file/sbcDevice/images/sbcDarkBlue/T_Icon_Left.svg';
ar imageForwardButton = '/file/sbcDevice/images/sbcDarkBlue/T_Icon_Right.svg';
ar imageHomeNormal = '/file/sbcDevice/images/sbcDarkBlue/home.svg';
ar imageHomeFocus = '/file/sbcDevice/images/sbcDarkBlue/homeLightblue.svg';
ar imageArrowBown = '/file/sbcDevice/images/sbcDarkBlue/circleDown.svg';
ar imageArrowRight = '/file/sbcDevice/images/sbcDarkBlue/CircleRight.svg';
ar imageFlayNormal = '/file/sbcDevice/images/sbcDarkBlue/Play.svg';
ar imageFlayFocus = '/file/sbcDevice/images/sbcDarkBlue/PlayLightblue.svg';
                                                                                                                                                                                                                                                                                 //Arrow left for go-back navigation
//Arrow right for go-forward navigation
//Home Image for first menu point
//Home Image if it is on focus
//Arrow Down in Circle Image if Menu Point is expanded
//Arrow Right in Circle Image if Menu Point is collapsed
//Play Image for menu entries if mouseover
//HPlay Image for menu entries if on focus
* Images Not weather to beyoine */
ar imagesWeatherDay = {
    Clear: '/file/sbcDevice/images/weather/dayClear.svg',
    Sunny: '/file/sbcDevice/images/weather/daySunny.svg',
    MostlySunny: '/file/sbcDevice/images/weather/dayMostlySunny.svg',
    PartlySunny: '/file/sbcDevice/images/weather/dayPartlySunny.svg',
```

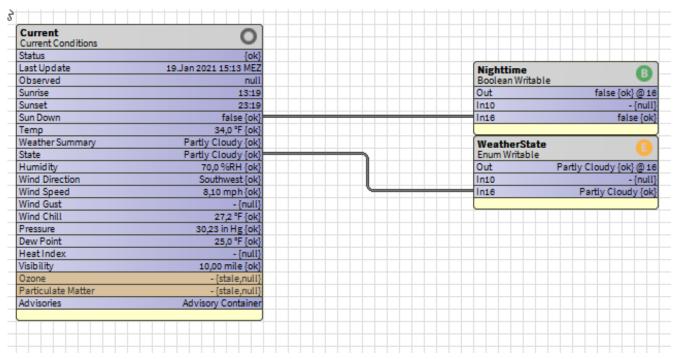
Connecting a weather station 9.

Only possible from version 1.0.21 onwards.

The NAV files in the system path contain two new datapoints under Datapoints.

One is for the current Weather Status and one for Day and Night.

These can be linked to a weather function as follows:



If a weather function is not required, the datapoint in the NAV file can be filled with "none" or "null".

The first datapoint defines the weather status in the form of an EnumWritable.

The weather states are based on the example of the Niagara Weather Service.

In theory, any weather service can be connected, the only important thing is that the status is transmitted via a numerical value.

The weather status is linked to a keyword via the numerical value.

This keyword is then used to make a link to a weather symbol and a language-dependent text (for more details, see the sections below).

If the assignment of the weather status to the predefined numerical values is not identical, this can be adjusted or expanded.

There are several points that must be observed for this purpose, as outlined below.

9.1. Assignment of keywords to numerical values:

To be found in the "scripts/theme.js"

```
r orderWeather = [];
orderWeather[0] = 'Clear';
orderWeather[1] = 'Sunny';
orderWeather[2] = 'MostlySunny';
orderWeather[3] = 'PartlySunny';
orderWeather[4] = 'Fair';
orderWeather[5] = 'FewClouds';
orderWeather[6] = 'PartlyCloudy';
orderWeather[7] = 'MostlyCloudy';
orderWeather[8] = 'Cloudy';
orderWeather[9] = 'Overcast';
orderWeather[10] = 'LightRain';
orderWeather[11] = 'Rain';
orderWeather[12] = 'HeavyRain';
orderWeather[13] = 'Thunderstorms';
orderWeather[14] = 'FreezingRain';
orderWeather[15] = 'Fog';
orderWeather[16] = 'Haze';
orderWeather[17] = 'Snow';
orderWeather[18] = 'Windy';
orderWeather[19] = 'Misty';
orderWeather[20] = 'Dust';
orderWeather[21] = 'Unknown';
orderWeather[22] = 'Tsunami';
orderWeather[23] = 'Tornado';
orderWeather[24] = 'Flood';
orderWeather[25] = 'Fire';
orderWeather[26] = 'Hurricane';
orderWeather[27] = 'Earthquake';
orderWeather[28] = 'Volcano';
```

The order can be changed here by swapping the numbers (in square brackets) or keywords (text in quotation marks after the "=" sign).

New situations can also be added by expanding the list.

The only important thing here is that the number in square brackets is consecutive.

Duplications are not permitted.

Assignment of keywords to images

To be found in the "scripts/theme.js"

There is one area for images that are displayed during the daytime:

```
r weather on Daytime */
imagesWeatherDay = {
 Clear: '/file/sbcDevice/images/weather/dayClear.svg',
 Sunny: '/file/sbcDevice/images/weather/daySunny.svg',
 MostlySunny: '/file/sbcDevice/images/weather/dayMostlySunny.svg',
 PartlySunny: '/file/sbcDevice/images/weather/dayPartlySunny.svg',
 Fair: '/file/sbcDevice/images/weather/dayFair.svg',
 FewClouds: '/file/sbcDevice/images/weather/dayPartlySunny.svg',
 PartlyCloudy: '/file/sbcDevice/images/weather/dayPartlyCloudy.svg',
 MostlyCloudy: '/file/sbcDevice/images/weather/dayMostlyCloudy.svg',
 Cloudy: '/file/sbcDevice/images/weather/cloudy.svg',
 Overcast: '/file/sbcDevice/images/weather/cloudy.svg',
 LightRain: '/file/sbcDevice/images/weather/lightRain.svg',
 Rain: '/file/sbcDevice/images/weather/rain.svg',
 HeavyRain: '/file/sbcDevice/images/weather/heavyRain.svg',
 Thunderstorms: '/file/sbcDevice/images/weather/thunderstorms.svg',
 FreezingRain: '/file/sbcDevice/images/weather/freezingRain.svg',
 Fog: '/file/sbcDevice/images/weather/fog.svg',
 Haze: '/file/sbcDevice/images/weather/haze.svg',
 Snow: '/file/sbcDevice/images/weather/snow.svg'
 Windy: '/file/sbcDevice/images/weather/windy.svg',
 Misty: '/file/sbcDevice/images/weather/fog.svg',
 Dust: '/file/sbcDevice/images/weather/dust.svg',
 Unknown: '/file/sbcDevice/images/weather/unknown.svg',
 Tsunami: '/file/sbcDevice/images/weather/unknown.svg'
 Tornado: '/file/sbcDevice/images/weather/unknown.svg',
 Flood: '/file/sbcDevice/images/weather/unknown.svg',
 Fire: '/file/sbcDevice/images/weather/unknown.svg',
 Hurricane: '/file/sbcDevice/images/weather/unknown.svg',
 Earthquake: '/file/sbcDevice/images/weather/unknown.svg',
 Volcano: '/file/sbcDevice/images/weather/unknown.svg'
```

As well as a separate area for images that are displayed during the night:

```
ar imagesWeatherNight = {
   Clear: '/file/sbcDevice/images/weather/nightClear.svg',
   Sunny: '/file/sbcDevice/images/weather/nightSunny.svg',
   MostlySunny: '/file/sbcDevice/images/weather/nightMostlySunny.svg',
   PartlySunny: '/file/sbcDevice/images/weather/nightPartlySunny.svg',
   Fair: '/file/sbcDevice/images/weather/nightFair.svg',
   FewClouds: '/file/sbcDevice/images/weather/nightPartlySunny.svg',
   PartlyCloudy: '/file/sbcDevice/images/weather/nightPartlyCloudy.svg',
   MostlyCloudy: '/file/sbcDevice/images/weather/nightMostlyCloudy.svg',
   Cloudy: '/file/sbcDevice/images/weather/cloudy.svg',
   Overcast: '/file/sbcDevice/images/weather/cloudy.svg',
   LightRain: '/file/sbcDevice/images/weather/lightRain.svg',
   Rain: '/file/sbcDevice/images/weather/rain.svg',
   HeavyRain: '/file/sbcDevice/images/weather/heavyRain.svg',
   Thunderstorms: '/file/sbcDevice/images/weather/thunderstorms.svg',
   FreezingRain: '/file/sbcDevice/images/weather/freezingRain.svg',
   Fog: '/file/sbcDevice/images/weather/fog.svg',
   Haze: '/file/sbcDevice/images/weather/haze.svg'
   Snow: '/file/sbcDevice/images/weather/snow.svg',
   Windy: '/file/sbcDevice/images/weather/windy.svg',
   Misty: '/file/sbcDevice/images/weather/fog.svg',
   Dust: '/file/sbcDevice/images/weather/dust.svg',
   Unknown: '/file/sbcDevice/images/weather/unknown.svg',
   Tsunami: '/file/sbcDevice/images/weather/unknown.svg',
   Tornado: '/file/sbcDevice/images/weather/unknown.svg',
   Flood: '/file/sbcDevice/images/weather/unknown.svg',
   Fire: '/file/sbcDevice/images/weather/unknown.svg',
   Hurricane: '/file/sbcDevice/images/weather/unknown.svg',
   Earthquake: '/file/sbcDevice/images/weather/unknown.svg',
   Volcano: '/file/sbcDevice/images/weather/unknown.svg'
```

The first element is the keyword already mentioned in the previous chapter, followed by a colon. The path to the corresponding image is then appears between the quotation marks.

Assignment of keywords to a language-dependent text

Language-dependent texts are defined in the "system/lang.xml" file.

The keyword is specified under "id" in the "textBlock".

Beneath that, the language is defined in the "text" tags under "lang" and the associated text under "translation".

```
ck id='Clear'
    lang='en' translation='Clear'/
    lang='de' translation='Klar'
    lang='fr' translation='Clair',
  t lang='it' translation='Chiaro'/
  ck id='Sunny'>
text lang='en' translation='Sunny'/
text lang='de' translation='Sonnig'/
text lang='fr' translation='Ensoleillé'/>
 ext lang='it' translation='Soleggiato'/>
 ock id='MostlySunny'>
text lang='en' translation='Mostly Sunny'/>
ext lang='de' translation='Überwiegend Sonnig'/
    lang='fr' translation='Assez ensoleillé'/
    lang='it' translation='Prevalentemente soleggiato'/
```

Additions can be made by copying a "text block".

Starting with "<textBlock id='keyword'>" and ending with "</textBlock>"

The texts in the respective languages appear between these elements:

"<text lang='language' translation='text'/>

Special changes to the menu 10

Various options can be changed under Scripts\createMenu.js.

This is also explained in the relevant section.

If you want the menu to be opened when you open the page in the browser, you must enter "//jPM. open(false);" remove the comment out flag, i.e. the two slashes at the start of the line (see the figure).

```
57
                 });
58
                                             58
                 jPM.on();
                                                               jPM.on();
59
                                             59
60
                                                               jPM.open(false);
61
                                             61
                                                          });
62
                                             62
            //Retrieve menu-data
63
```

Special changes to colours or to the style 11.

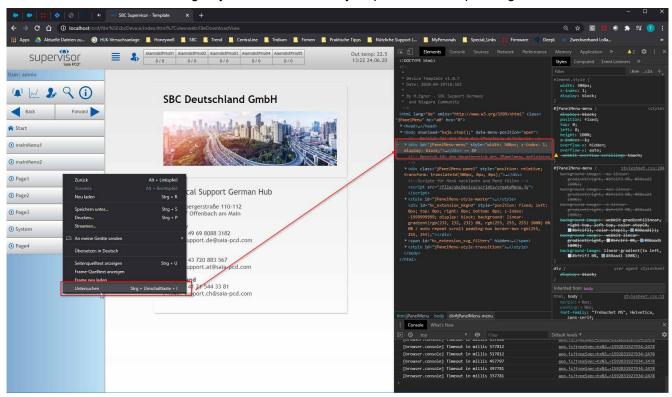
There are ways to change the appearance of the application.

You should have some knowledge of HTML and CSS to begin with or, if necessary, you should familiarise yourself with them.

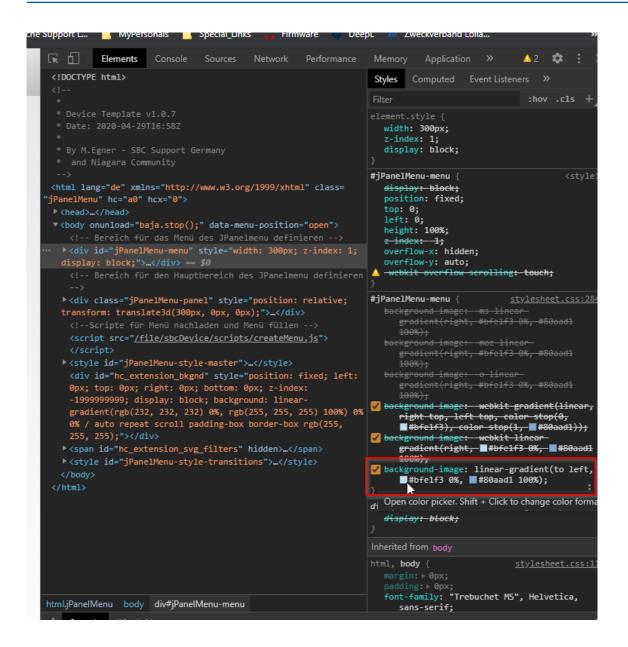
Explanations for each function can be found on the Internet.

Open your browser and call up the Station template.

Switch to Developer mode (press F12 in Chrome) and go to the Elements tab. If you right click on an element in the menu on the right, you will automatically skip to the corresponding area in the code.



You can now adjust the colours directly on the right-hand side by making a colour selection and you will then see the result live:



Simply enter the result in stylesheet.css and save it.

The location of the entry is shown here:

```
#jPanelMenu-menu {
                             stylesheet.css: 284
   background image: ms li
      gradient(right, #bfelf3 0%
  background image: moz linear
gradient(right, #bfclf3 0%
   background imager o linear
      gradient(right, #bfc1f3 0%, #80aad1
      100%);
  background image: webkit gradient(linear,
      right top, left top, color stop(θ,
      #bfc1f3), color stop(1, #80aad1));
   background image: webkit linear
       radient(right, ■#bfe1f3 0%, 🖫 #80aad1
   background-image: linear-gradient(to left,
      #bfe1f3 0%, ■#80aad1 100%);
```

11.1. Mark changes

To make changes easier to find again later, it is advisable to add comments to them in the files.

Proceed as follows in .html, .xml and .nav files: "<!--Author: Comment -->"

```
eta http-equiv="X-UA-Compatible" content="IE=edge"
  ta name="viewport" content="width=device-width, initial_-scale=1.0">
<title>SBC Deutschland GmbH - Supervisor Template</title</pre>
                                                           <!--AuthorXY: Text
```

Proceed as follows in .css files: /*Author: Comment */

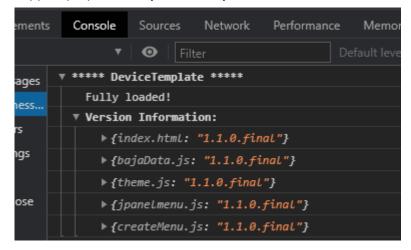
```
.nav-bar-iconpanel {
   padding-top: 15px;
   padding-bottom: 10px; /*AuthorXY: Changed from
   padding-right: 0px;
```

Proceed as follows in .js files: // Author: Comment

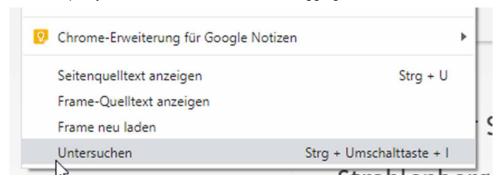
```
imagesWeatherDay = {
 Clear: '/file/sbcDevice/images/weather/dayClear.svg',
                                                        //AuthorXY: Picture path changed
 Sunny: '/file/sbcDevice/images/weather/daySunny.svg'
```

Debugging 12.

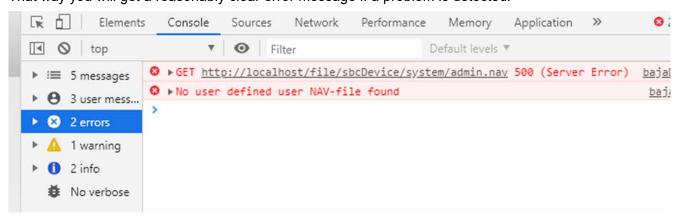
In the event of problems, it is particularly important to get a dump/screenshot from the console for support purposes. Any errors may be seen here, but also notes on the version used (only from v1.1.0).



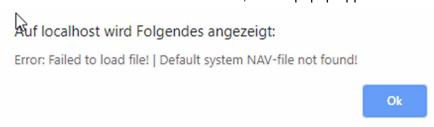
For example, you can use the console for debugging in Chrome:



That way you will get a reasonably clear error message if a problem is detected:



If no nav files or default files are found, then a popup appears:



```
context: top :p://localhost/file/sbcDevice/system/lang.xml 500 (Server Error)

    No language File found

SET http://localhost/file/sbcDevice/system/admin.nav 500 (Server Error)

    No user defined user NAV-file found

    ▶ GET <a href="http://localhost/file/sbcDevice/system/default.nav">http://localhost/file/sbcDevice/system/default.nav</a>
    500 (Server)

Error)
```

If a folder is renamed, the paths in the scripts/theme.js must be adapted!

```
var imagePath = 'file:^sbcDevice/images/";
var userXmlPath = "file:^sbcDevice/user/";
var systemXmlPath = "file:^sbcDevice/system/";
var scriptXmlPath = "file:^sbcDevice/scripts/";
```

Update of the DeviceTemplate from an older version **13.**

13.1. Updating version v0.9.6 and older



For an update, all files and folders, with the exception of the "Nav files" under "system" and "user", are exchanged or overwritten (marked in red).

All files marked in blue no longer work with this version!

Changes to these files must be compared with the old file and transferred as necessary.



NOTE:

The update only affects the content of the "sbcDevice" folder! No other files may be overwritten!!

If special changes were made within the files marked in red, then these must be transferred to the

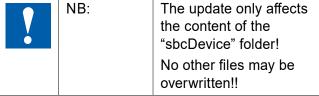
In this case it is advisable to mark these changes with a comment so they can be found again later (see the end of chapter 11.1).

13.2. Update from version v0.9.7 to v1.0.8 to v1.1.0 or higher



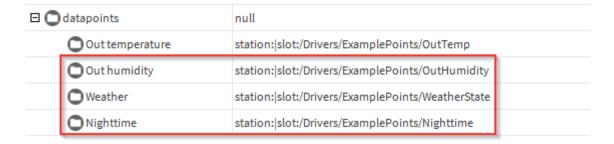
For an update, all files and folders, with the exception of the "Nav files" under "system" and "user", are exchanged or overwritten (marked

All files marked in blue will continue to work (downward compatible), but there are new sub-items in the NAV file under "Datapoints" for outdoor humidity and weather.



If these functions are required, these entries must be added or expanded.

These items allow you to incorporate outdoor humidity or a weather service in addition to the outdoor temperature.



If special changes were made within the files marked in red, then these must be transferred to the new files.

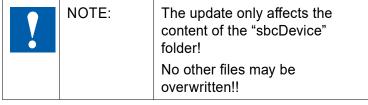
In this case it is advisable to mark these changes with a comment so they can be found again later (see the end of chapter 11.1).

13.3. Update from version v1.0.9 to v1.1.0 or higher



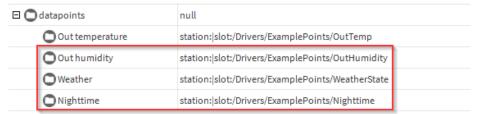
For an update, all files and folders, with the exception of the "Nav files" under "system" and "user" and the "theme.js" file under "scripts" are exchanged or overwritten (marked in red).

All files marked in blue will continue to work, but there are new sub-items in the NAV file under "Datapoints" for outdoor humidity and weather.



If these functions are required, these entries must be added or expanded.

These items allow you to incorporate outdoor humidity or a weather service in addition to the outdoor temperature.



Changes to the "scripts/theme.js" file (marked in green) may need to be transferred to the new file. If there have been no changes, this can be overwritten directly.

If special changes were made within the files marked in red, then these must be transferred to the new files.

In this case it is advisable to mark these changes with a comment so they can be found again later (see the end of chapter 11.1).

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