

ALVALVASYS-DR-OPENWEATHER Driver

Software installation and configuration manual.

Ver: 1.0.1

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1 History

Rev.	Date	Author	Description
1.0.0	26.5.2023	Marcello Meriano	First draft
1.0.1	18.4.2024	Marcello Meriano	API 3.0
4.4.2.0	5.2.2026	Marcello Meriano	Language selection via a drop-down menu
4.5.0.0	20.3.2025	Marcello Meriano	Bug Fix

2 Index

1History	1
2Index	2
3Confidentiality Notice	3
4. Introduction	3
Requirements	3
Module.....	3
Compatibility.....	4
5. License.....	4
6. Installing the software	5
Installing the driver into the JACE/HAWK unit.....	5
7. Driver configuration.....	6
Installing the OWMWeahterService Provider.....	6
Configuring the Network Parameters	7
Add the view on the PX.....	11

3 Confidentiality Notice

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4 . Introduction

Requirements

- Niagara (≥ 4.7)
- A license to use the ALVASSI-DR-OPENWEATHER driver. Other device limit or proxy-point limits may apply to your license. For license details and options, see the ALVASSI-DR-OPENWEATHER price list.

Module

The ALVASSI-DR-OPENWEATHER Driver is contained in two files:

- `alvassiOpenWeather-rt.jar.jar`

Compatibility

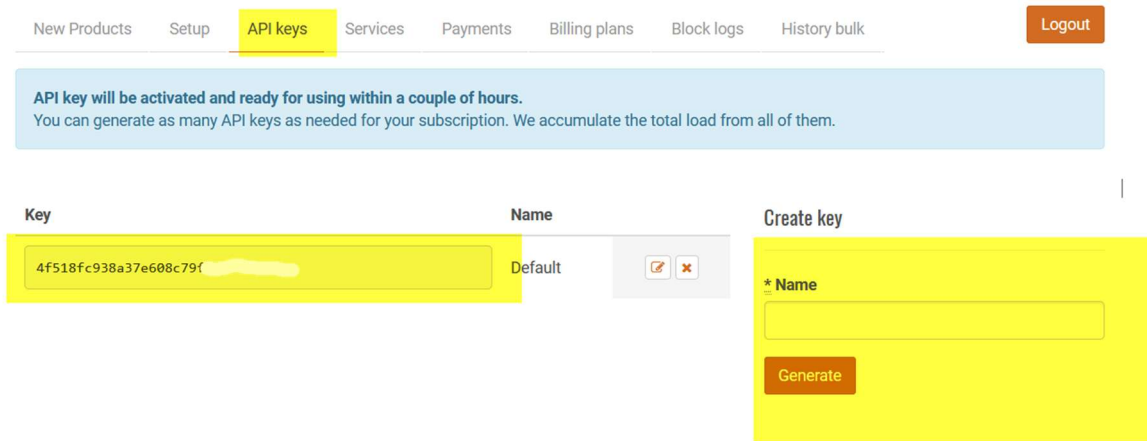
Platforms

The ALVASSI-DR-OPENWEATHER driver runs on Niagara (≥ 4.7) platforms.

You need an account at the Open Weather

https://home.openweathermap.org/users/sign_in



You need a key from the Open Weather:



And the the One Call API 3.0

One Call API 3.0

This subscription includes only **One Call API 3.0** and allows you to pay for the number of API calls made to this product.

Name	Calls per day (no more than)	Price (excl. VAT)	Status
Base plan	2,000 	Free limit per day: 1,000 calls After: 0.12 GBP per 100 calls	Activated 

Your next payment based on usage One Call API 3.0: **0.0 GBP + VAT**

Billing period: **April 10, 2024 — May 10, 2024**

[View usage statistics](#)

Tested versions

Niagara 4.7 +

5 . License

The licence has no limit you can add so much weather places you want. You need the licence from alvasys automation ag (**ALVASSI-DR-OPENWEATHER**)

6 . Installing the software

Installing the ALVASSI-DR-OPENWEATHER driver is simple.

It requires a basic knowledge of the Tridium Niagara 4 and execute a few steps as described hereafter.

The driver, a Java “. jar” executable file, is usually shipped in a zip file.

Its name is generated according to the following structure:

`alvassiOpenWeather-rt.jar`

The number of the version characterises the features included in the driver and may vary from time to time.

An additional text file is normally added to the zip file, in order to explain the main features of the release.

Its name may appear as follow:

Note on SwVer <version number> (i.e. Note on SwVer 1.0.3)

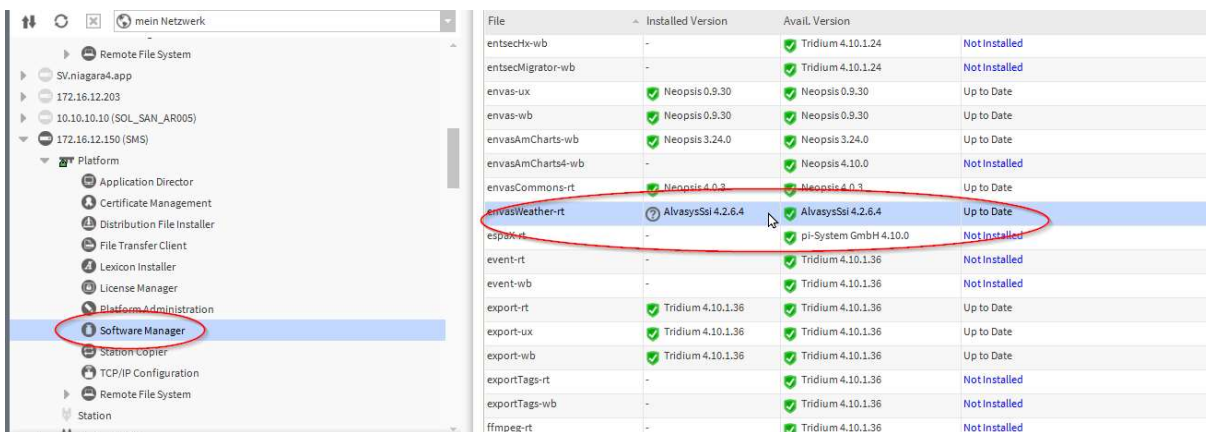
Installing the driver on your PC

The following procedures describe how to set-up the driver.

Step 1	First of all unzip the files which contains the driver and technical notes.
Step 2	Rename the files, changing their name into <code>alvassiOpenWeather-rt.jar</code> Extension . jar should remain as well.
Step 3	Copy the two jar files into the modules directory of your Niagara Work Bench .
Step 4	Restart your Work Bench .
Step 5	After restarting, the file should appears in the list of available software, which can be shown clicking on the Software Manager section of the Platform of your Work Bench .

Installing the driver into the JACE/HAWK unit

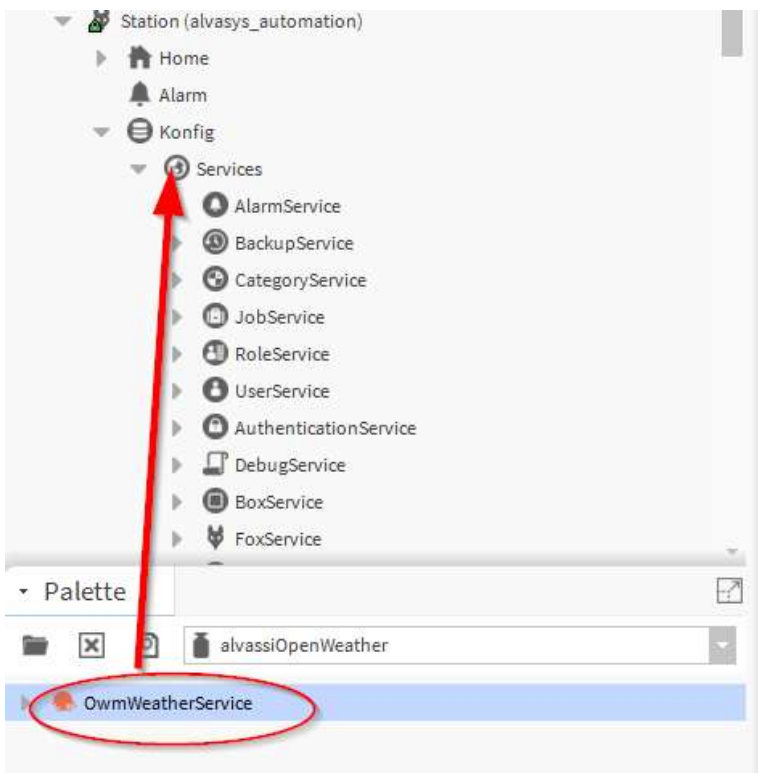
Step 1	Through the Work Bench get connected to a JACE/HAWK running unit.
Step 2	Transfer the <code>alvassiOpenWeather-rt.jar</code> module into the unit under the folder modules .
Step 3	This can be done by activating the standard Tridium procedure for software upgrading or simply copying the jar files by the File Transfer Client procedure, available under the list of the Platform options in your Work Bench . Destination directory inside the Jace8000 is: <code>/opt/niagara/modules</code> For further details on how to transfer files from Work Bench to JACE/HAWK units, refer to the official Tridium documentation.
Step 4	After copying the driver into the JACE/HAWK unit, force a reboot.



7 . Driver configuration

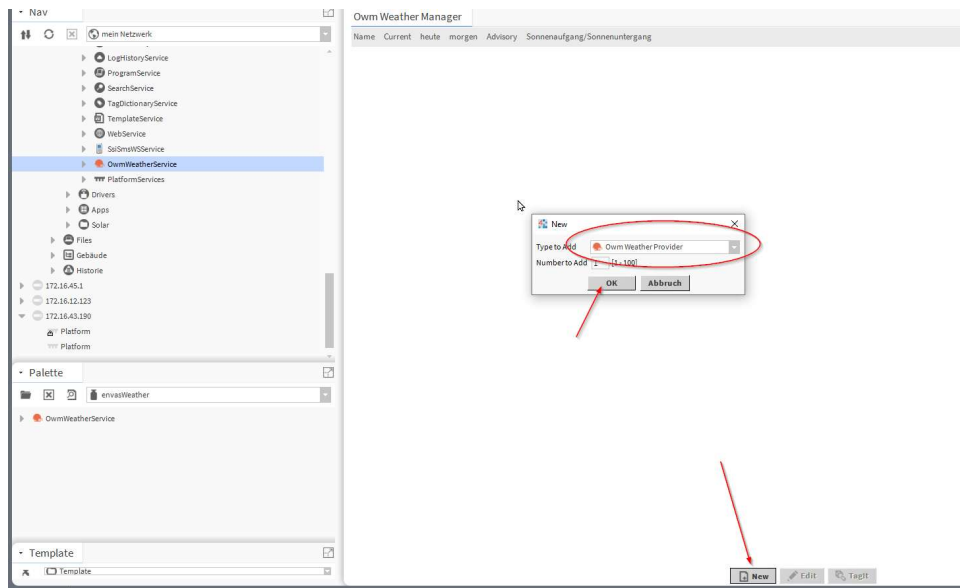
Installing the OWMWeatherService Provider

The first step of the driver configuration is the installation of the **OwmWeatherService** under the station (Service) running in the JACE/HAWK unit.



Configuring the Network Parameters

1. To proceed with this task, add a new Weather provider!



2. Add the API key and the location.

Provider Owm Weather Provider	
Api Key	f4ea50875940289f
Location	Rapperswil, CH
Language	German
Last Update	05.Feb 2026 07:46 MEZ
Last Fail	26.Jan 2026 13:50 MEZ
Fault Cause	

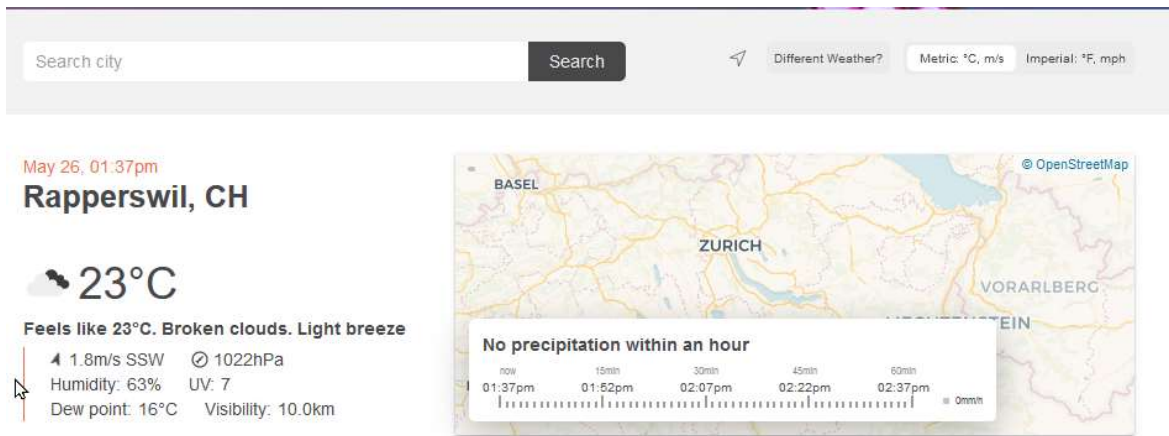
▶ **Current** 1.6 °C/-0.8 °C. Partly Cloudy {OK}

API Key and the location is from the open weather side:

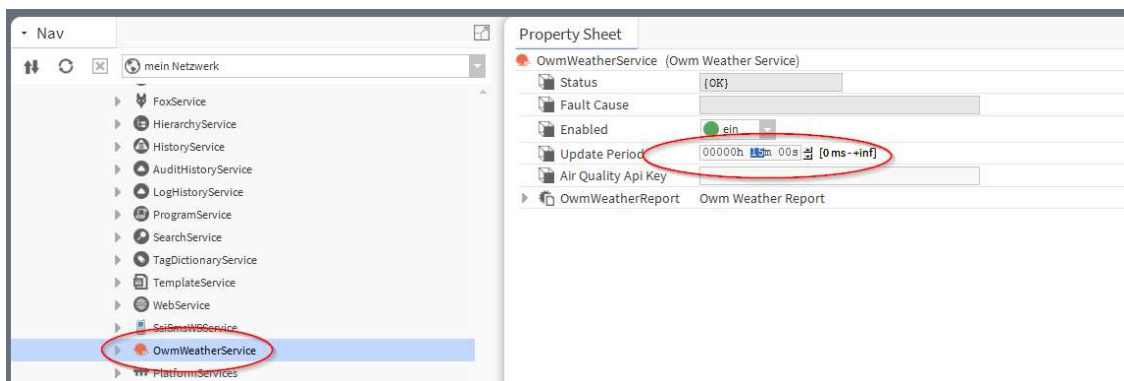
New Products Setup **API keys** Services Payments Billing plans Block logs History bulk Logout

API key will be activated and ready for using within a couple of hours.
You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.

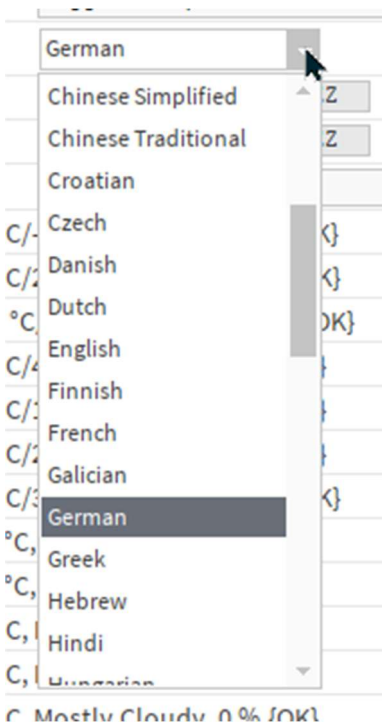
Key	Name	Create key
4f518fc938a37e608c79f	Default	* Name <input type="text"/> <input type="button" value="Generate"/>



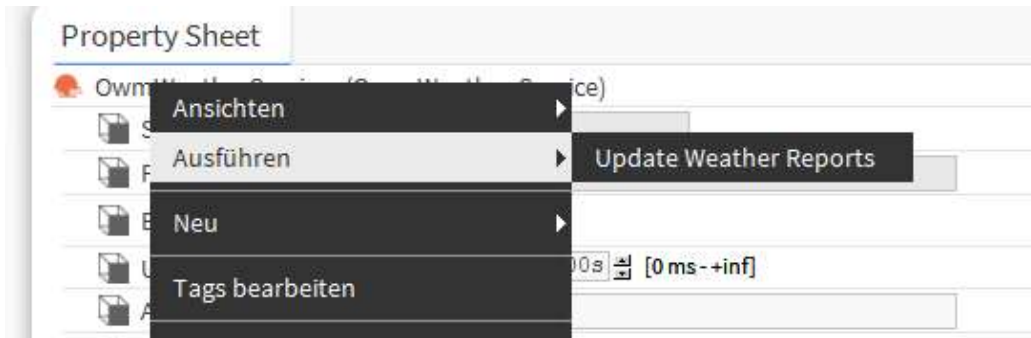
3. Set the update period.



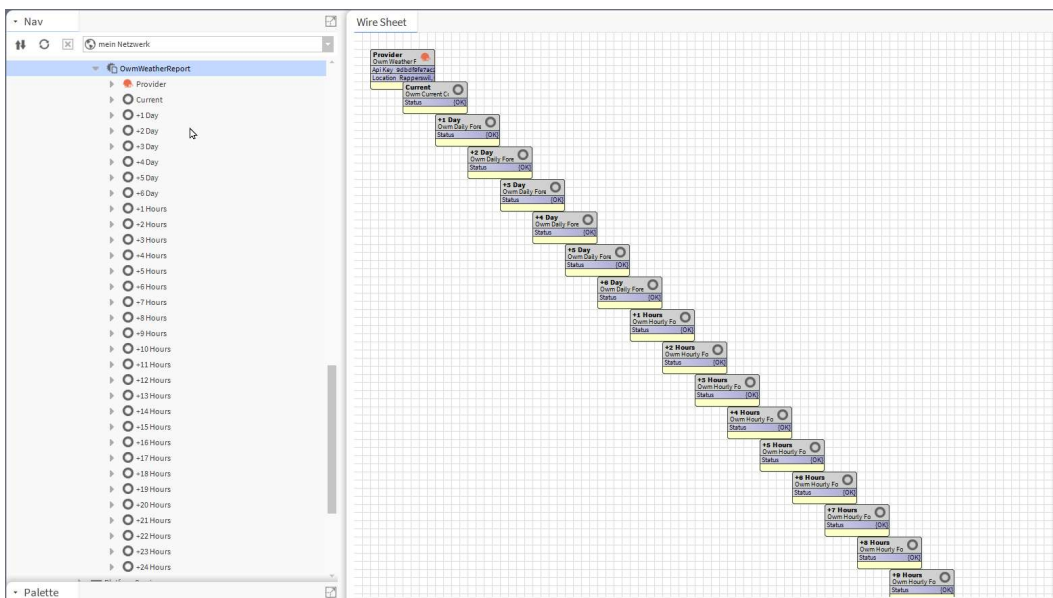
4. Set the Language with the drop-down menu



5. When you have set all the settings you can do manually update the weather rapport



6. The points are add automatically on sheet



Current weather value

Current (Owm Current Conditions)	
Status	{OK}
Last Update	15.Jul 2022 13:07 MESZ
Observed	null
Sunrise	05:43:35 MESZ
Sunset	21:17:17 MESZ
Sun Down	aus {OK}
Temp	27,5 °C {OK}
Weather Summary	clear sky {OK}
State	Sunny {OK}
Humidity	48,0 %RH {OK}
Wind Direction	Northeast {OK}
Wind Speed	1,8 m/s {OK}
Wind Gust	4,5 m/s {OK}
Wind Chill	- {null}
Pressure	1020,00 in Hg {OK}
Dew Point	15,6 °C {OK}
Heat Index	- {null}
Visibility	10000,0 m {OK}
Ozone	- {null}
Particulate Matter	- {null}
Advisories	Advisory Container
Precipitation	- {null}

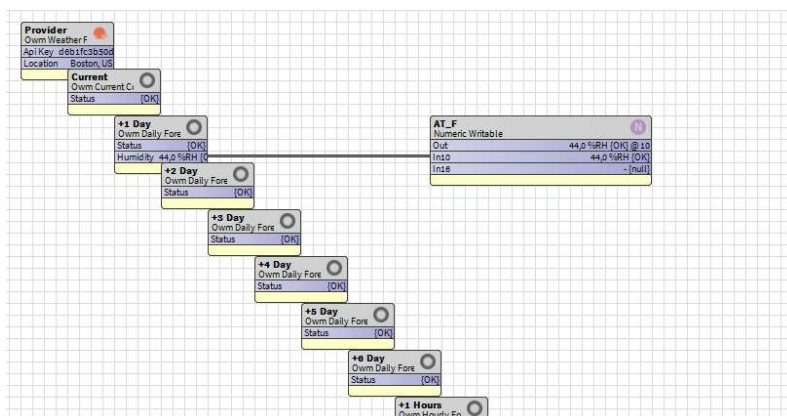
Weather value forecast 1-6 days

+1 Day (Owm Daily Forecast)	
Status	{OK}
Last Update	15.Jul 2022 13:07 MESZ
Date	16.Jul 2022 MESZ
Sunrise	05:44:35 MESZ
Sunset	21:16:29 MESZ
High	27,1 °C {OK}
Low	14,6 °C {OK}
Precip Chance	0 % {OK}
Weather Summary	clear sky {OK}
State	Sunny {OK}
Humidity	39,0 %RH {OK}
Wind Speed	2,6 m/s {OK}
Precipitation	- {null}
Dew Point	9,7 °C {OK}

Weather value forecast 1-24h

+1 Hours (Owm Hourly Forecast)	
Status	{OK}
Last Update	15.Jul 2022 13:20 MESZ
Date	15.Jul 2022 MESZ
Precip Chance	0 % {OK}
Weather Summary	clear sky {OK}
State	Sunny {OK}
Humidity	48,0 %RH {OK}
Wind Speed	2,5 m/s {OK}
Precipitation	- {null}
Dew Point	15,5 °C {OK}
Temp	27,5 °C {OK}
Time	14:00 MESZ

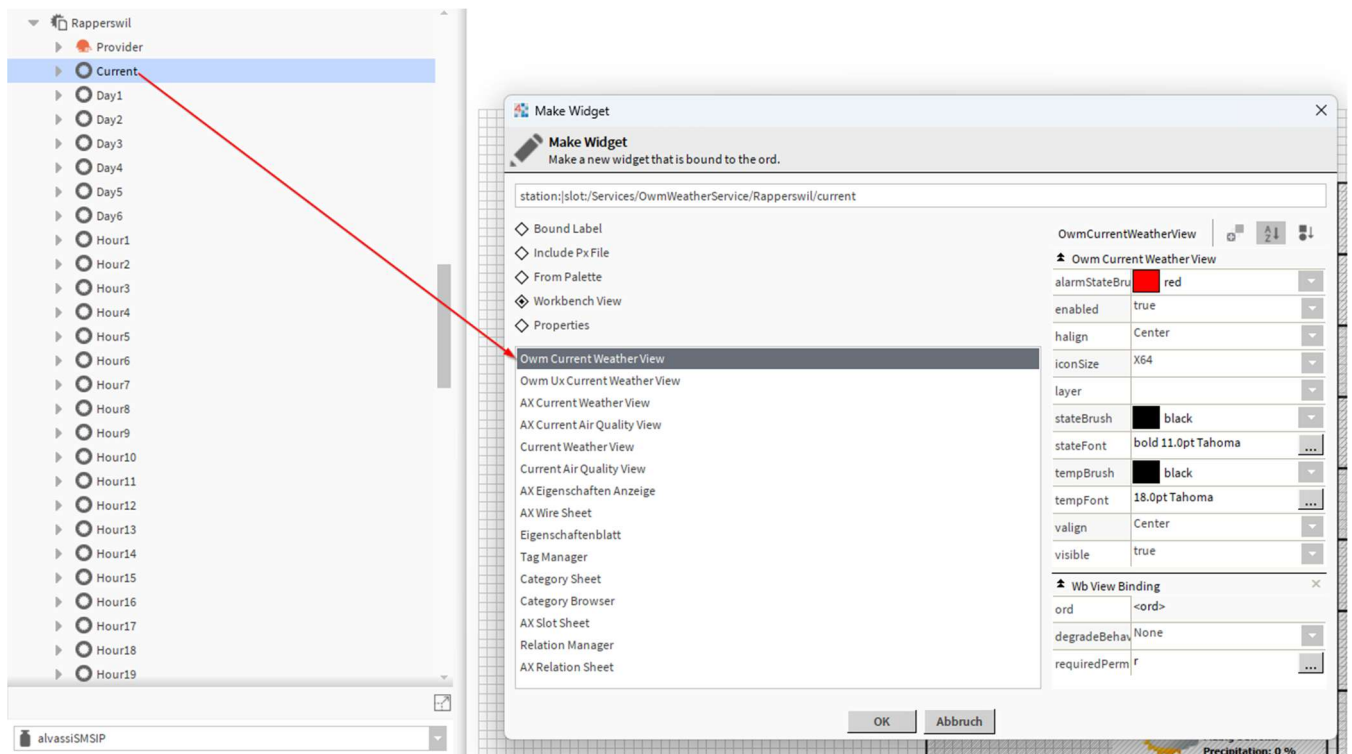
All value you can use this in a wiresheet (logic)



Add the view on the PX

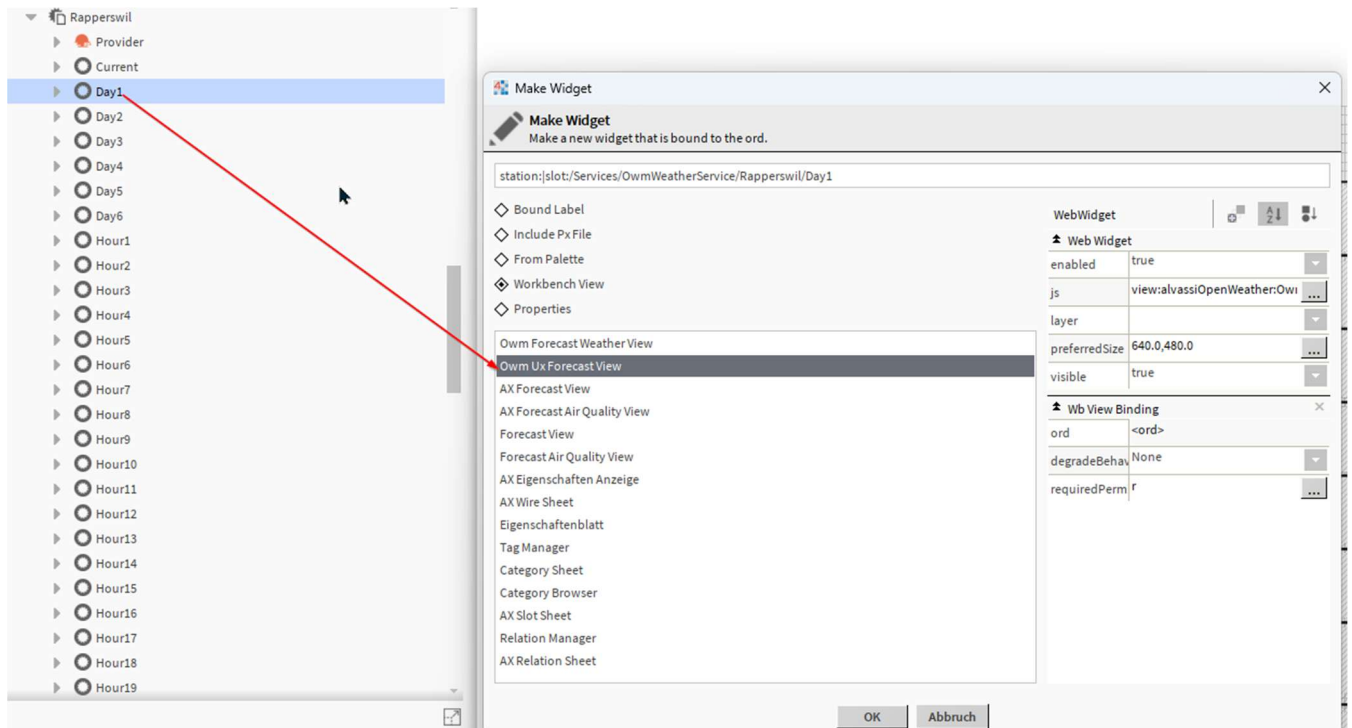
Drag and drop the folder on the px view select the Own ForecastWeather View → OK

Current Forecast:



The screenshot shows the 'Make Widget' dialog box with the 'Current' folder selected in the left pane. The dialog title is 'Make Widget' and the subtitle is 'Make a new widget that is bound to the ord.'. The path is 'station:/slot:/Services/OwmWeatherService/Rapperswil/current'. The 'Owm Current Weather View' is selected in the list of available views. The right pane shows the properties for 'Owm Current Weather View', including 'alarmStateBrush' set to 'red', 'enabled' set to 'true', 'halign' set to 'Center', 'iconSize' set to 'X64', 'layer' set to '...', 'stateBrush' set to 'black', 'stateFont' set to 'bold 11.0pt Tahoma', 'tempBrush' set to 'black', 'tempFont' set to '18.0pt Tahoma', 'valign' set to 'Center', and 'visible' set to 'true'. The 'Wb View Binding' section shows 'ord' set to '<ord>', 'degradeBehav' set to 'None', and 'requiredPerm' set to 'r'. The 'OK' and 'Abbruch' buttons are visible at the bottom.
































Day1-6 and Hour1-24 Forecast:



The screenshot shows the 'Make Widget' dialog box with the 'Day1' folder selected in the left pane. The dialog title is 'Make Widget' and the subtitle is 'Make a new widget that is bound to the ord.'. The path is 'station:/slot:/Services/OwmWeatherService/Rapperswil/Day1'. The 'Owm Ux Forecast View' is selected in the list of available views. The right pane shows the properties for 'WebWidget', including 'enabled' set to 'true', 'js' set to 'view:alvassiOpenWeather:Ow...', 'layer' set to '...', 'preferredSize' set to '640.0,480.0', and 'visible' set to 'true'. The 'Wb View Binding' section shows 'ord' set to '<ord>', 'degradeBehav' set to 'None', and 'requiredPerm' set to 'r'. The 'OK' and 'Abbruch' buttons are visible at the bottom.

Fit the view to the correct position.



Heute  1,6 °C/-0,2 °C Mäßig bewölkt	1-Stunde-Vorhersage  0,5 °C Mäßig bewölkt Niederschlag: 0 %	9-Stunden-Vorhersage  6,7 °C Mäßig bewölkt Niederschlag: 0 %	17-Stunden-Vorhersage  2,5 °C Bedeckt Niederschlag: 0 %
1-Tage-Vorhersage  7,4 °C/2,5 °C Leichter Regen Niederschlag: 1 %	2-Stunden-Vorhersage  1,1 °C Überwiegend bewölkt Niederschlag: 0 %	10-Stunden-Vorhersage  5,1 °C Mäßig bewölkt Niederschlag: 0 %	18-Stunden-Vorhersage  3,6 °C Bedeckt Niederschlag: 0 %
2-Tage-Vorhersage  10,8 °C/3,2 °C Klarer Himmel Niederschlag: 0 %	3-Stunden-Vorhersage  2,0 °C Überwiegend bewölkt Niederschlag: 0 %	11-Stunden-Vorhersage  4,4 °C Mäßig bewölkt Niederschlag: 0 %	19-Stunden-Vorhersage  3,7 °C Bedeckt Niederschlag: 0 %
3-Tage-Vorhersage  8,3 °C/2,8 °C Überwiegend bewölkt Niederschlag: 0 %	4-Stunden-Vorhersage  3,7 °C Überwiegend bewölkt Niederschlag: 0 %	12-Stunden-Vorhersage  4,0 °C Überwiegend bewölkt Niederschlag: 0 %	20-Stunden-Vorhersage  4,0 °C Bedeckt Niederschlag: 0 %
4-Tage-Vorhersage  6,1 °C/1,9 °C Bedeckt Niederschlag: 0 %	5-Stunden-Vorhersage  6,0 °C Mäßig bewölkt Niederschlag: 0 %	13-Stunden-Vorhersage  4,3 °C Überwiegend bewölkt Niederschlag: 0 %	21-Stunden-Vorhersage  4,1 °C Bedeckt Niederschlag: 0 %
5-Tage-Vorhersage  8,8 °C/2,2 °C Bedeckt Niederschlag: 0 %	6-Stunden-Vorhersage  6,0 °C Klarer Himmel Niederschlag: 0 %	14-Stunden-Vorhersage  4,4 °C Überwiegend bewölkt Niederschlag: 0 %	22-Stunden-Vorhersage  4,0 °C Bedeckt Niederschlag: 0 %
6-Tage-Vorhersage  9,2 °C/3,7 °C Mäßiger Regen Niederschlag: 1 %	7-Stunden-Vorhersage  7,0 °C Klarer Himmel Niederschlag: 0 %	15-Stunden-Vorhersage  4,3 °C Bedeckt Niederschlag: 0 %	23-Stunden-Vorhersage  4,2 °C Bedeckt Niederschlag: 0 %
	8-Stunden-Vorhersage  8,0 °C Ein paar Wolken Niederschlag: 0 %	16-Stunden-Vorhersage  4,0 °C Bedeckt Niederschlag: 0 %	24-Stunden-Vorhersage  4,4 °C Leichter Regen Niederschlag: 1 %