

ALVALVASYS-DR-OPENWEATHER Driver

Software installation and configuration manual.

Ver: 1.0.1

Date: April 18th 2024

Author: M.Meriano

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 |
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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

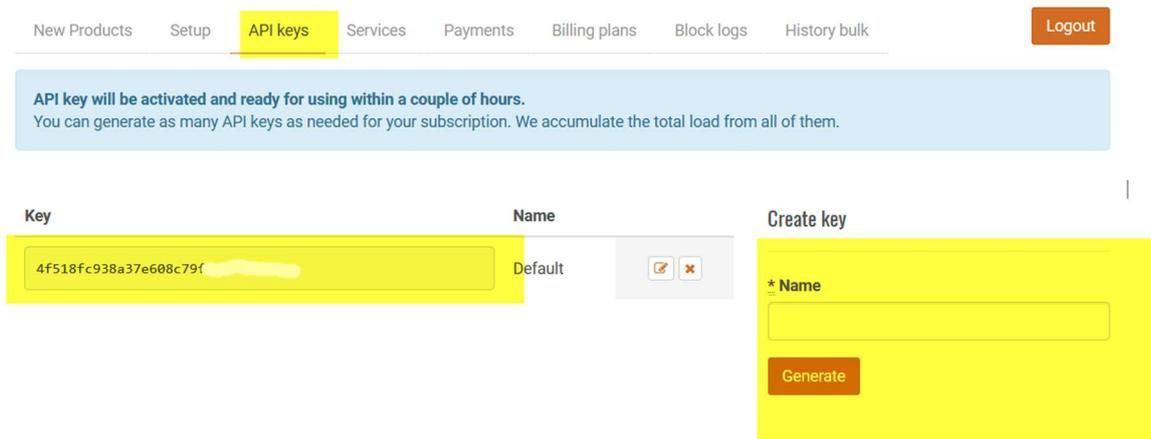
Platforms

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)

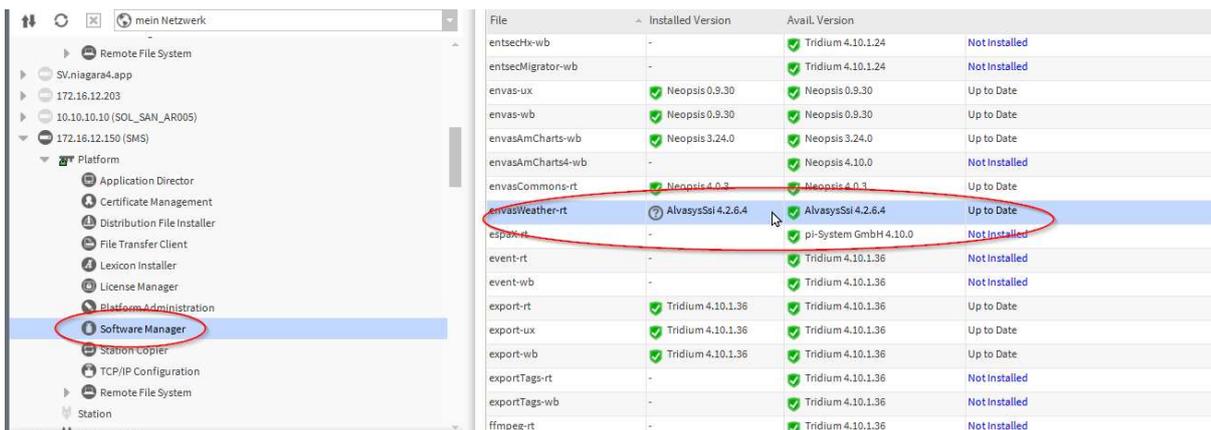
Installing the driver on your PC

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

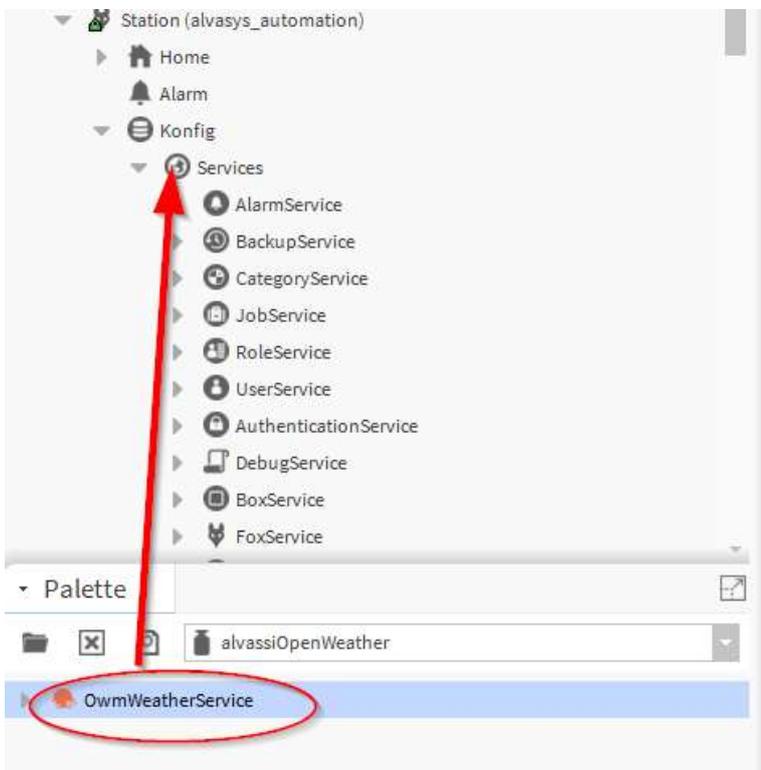
| | |
|--------|---|
| Step 1 | Through the Work Bench get connected to a JACE/HAWK running unit. |
| Step 2 | Transfer the <code>alvassiOpenWeather-rt.jar</code> module into the unit under the folder modules . |
| Step 3 | This can be done by activating the standard Tridium procedure for software upgrading 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

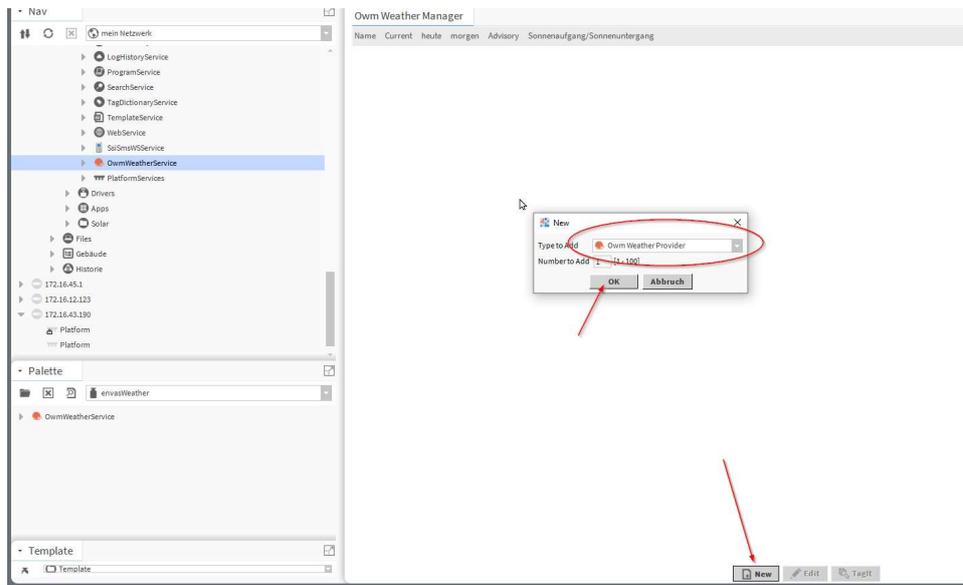
Installing the OWMWeahterService Provider

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 | |

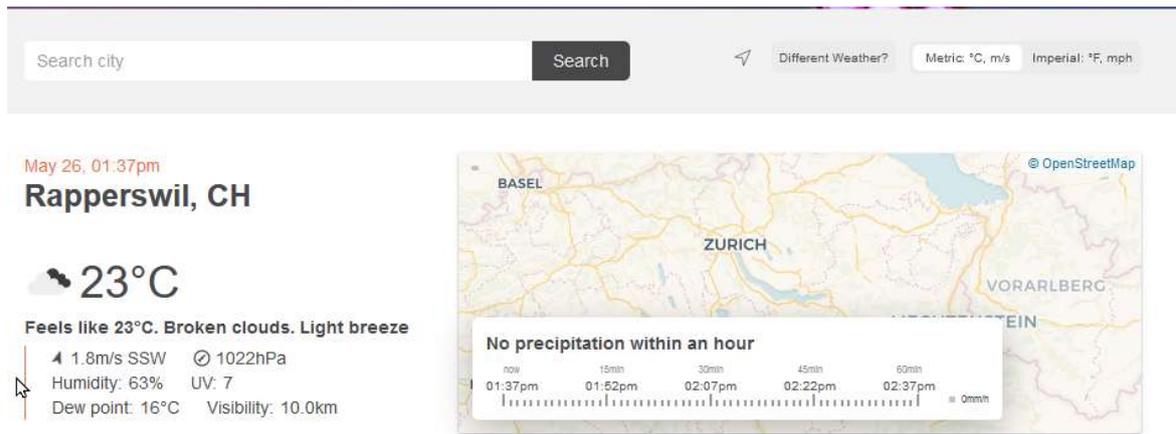
▶ **Current** 1.6 °C/-0.8 °C. Partly Cloudy {OK}

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

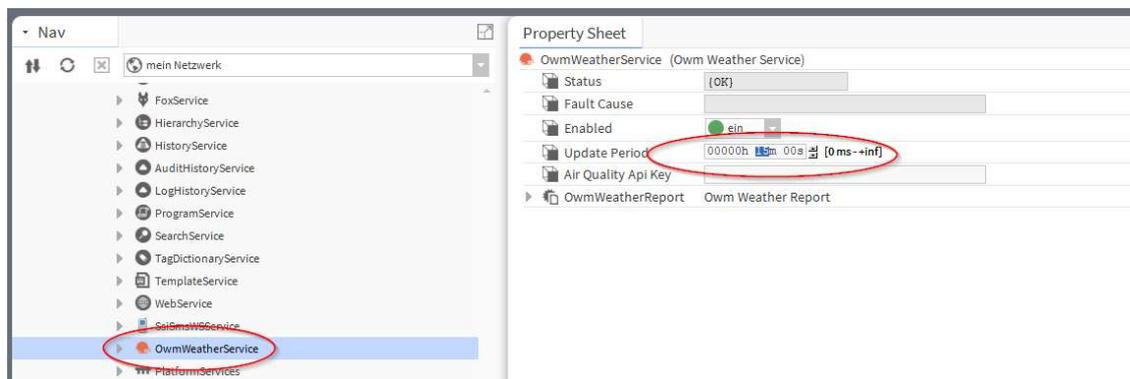
New Products Setup **API keys** Services Payments Billing plans Block logs History bulk Logout

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.

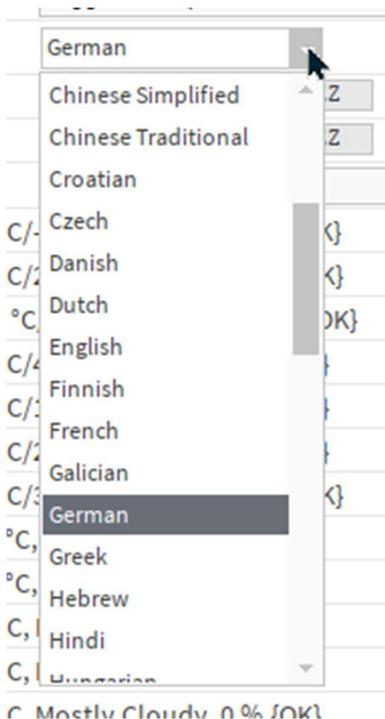
| Key | Name | Create key |
|-----------------------|---------|---|
| 4f518fc938a37e608c79f | Default | * Name <input type="text"/> <input type="button" value="Generate"/> |



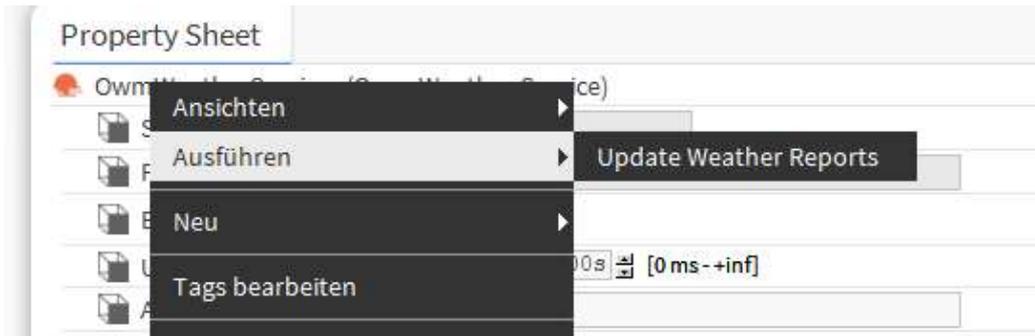
3. Set the update period.



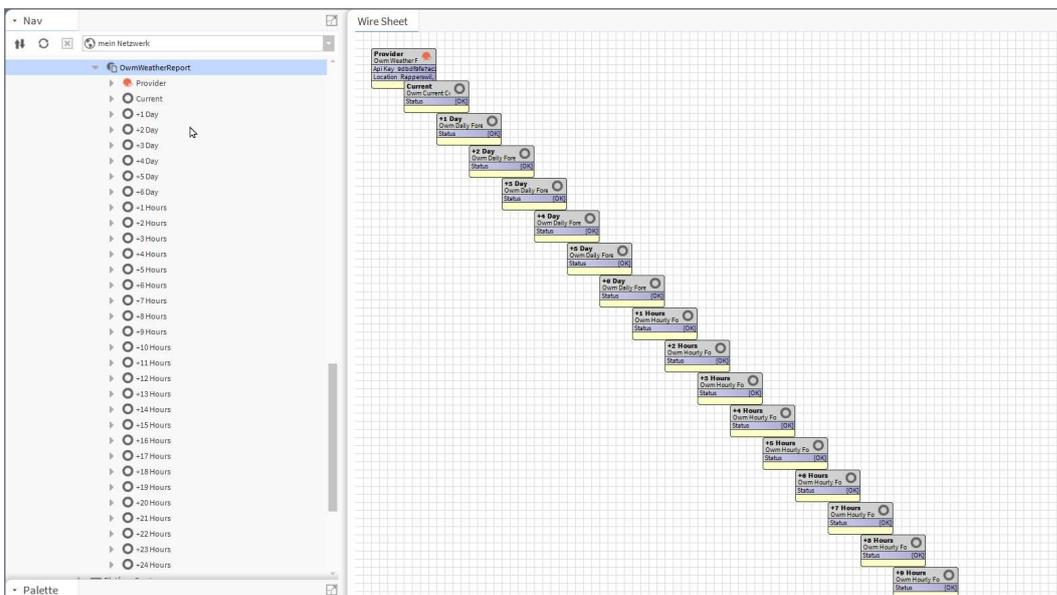
4. Set the Language with the drop-down menu



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} |

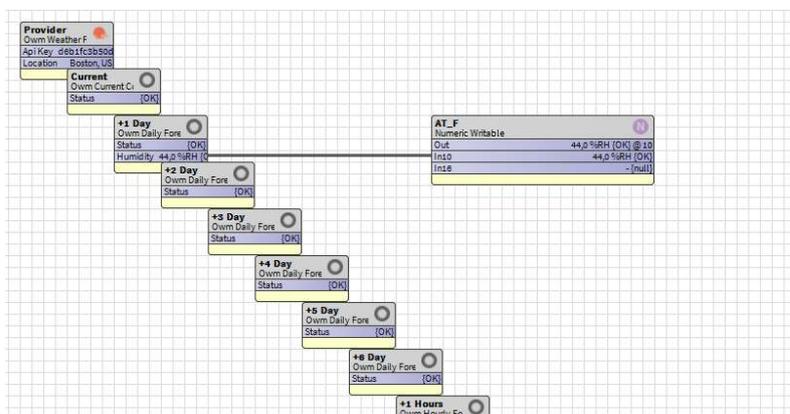
Weather value forecast 1-6 days

| +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

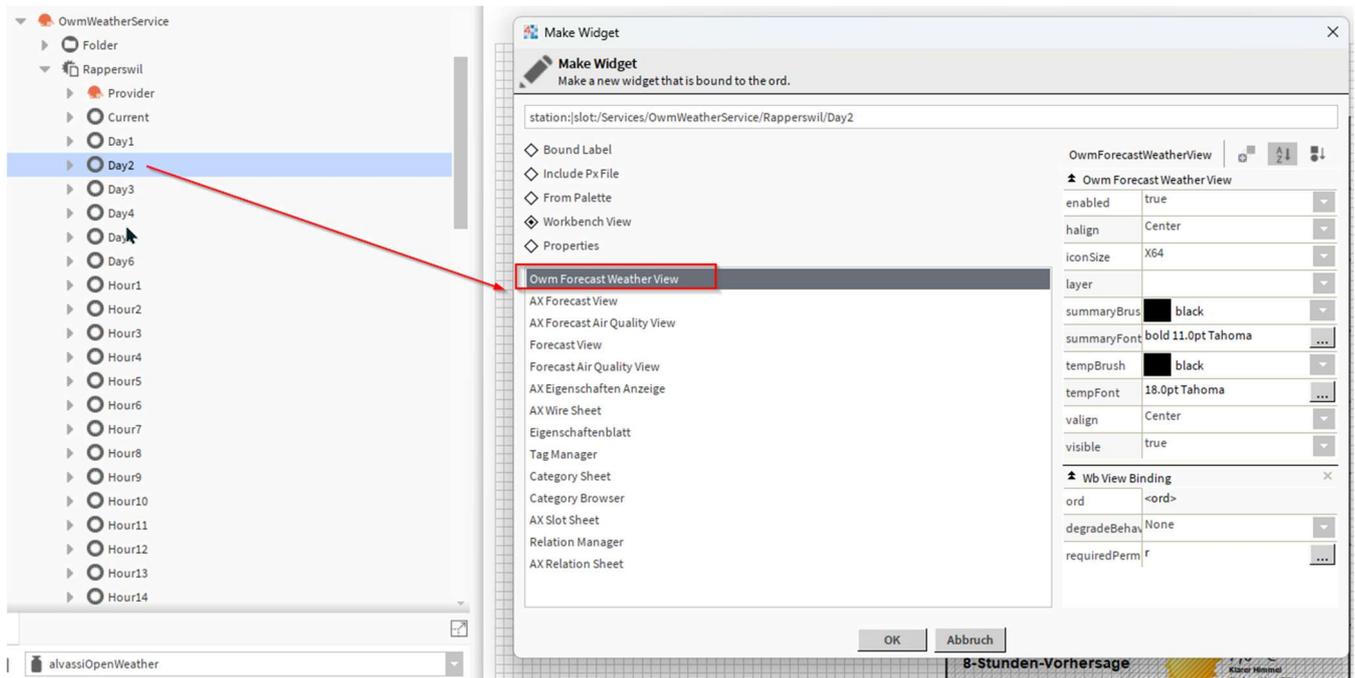
| +1 Hours (Owm Hourly Forecast) | |
|--------------------------------|------------------------|
| Status | {OK} |
| Last Update | 15.Jul 2022 13:20 MESZ |
| Date | 15.Jul 2022 MESZ |
| Precip Chance | 0 % {OK} |
| Weather Summary | clear sky {OK} |
| State | Sunny {OK} |
| Humidity | 48,0 %RH {OK} |
| 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



Fit the view to the correct position.



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