

ALVALVASYS-DR-OPENWEATHER Driver

Software installation and configuration manual.

Ver: 1.0.0

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Author: M.Meriano

1 History

Rev.	Date	Author	Description
1.0.0	26.5.2023	Marcello Meriano	First draft

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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:

- `envasWeather-rt.jar`

Compatibility

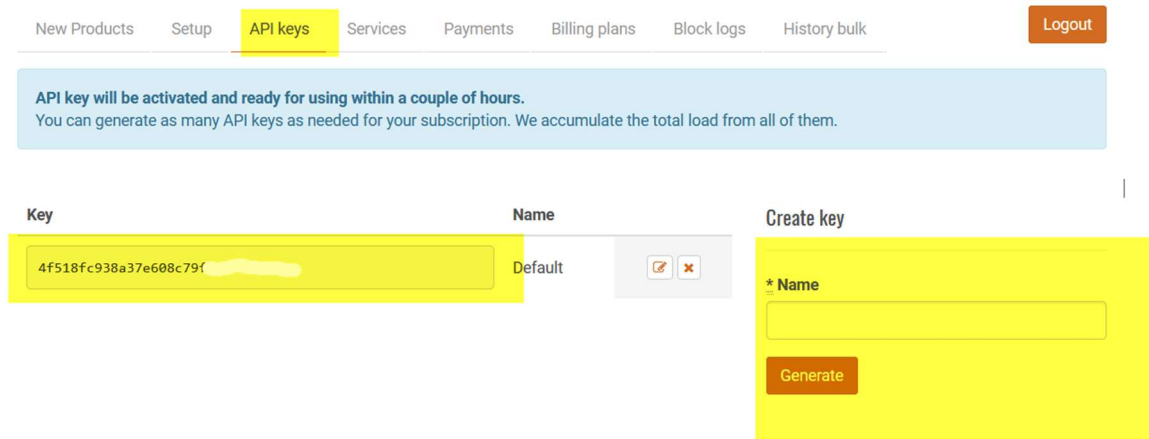
Platforms

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:



Tested versions

Niagara 4.10.x

5 . License

The licence has no limit you can add so much weather places you want.

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:

envasWeather-rt _<version number> (i.e. alvasysSMSIP-rt_v1.0.3.1)

envasWeather-rt _<version number> (i.e. alvasysSMSIP-wb_v1.0.3.1)

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)

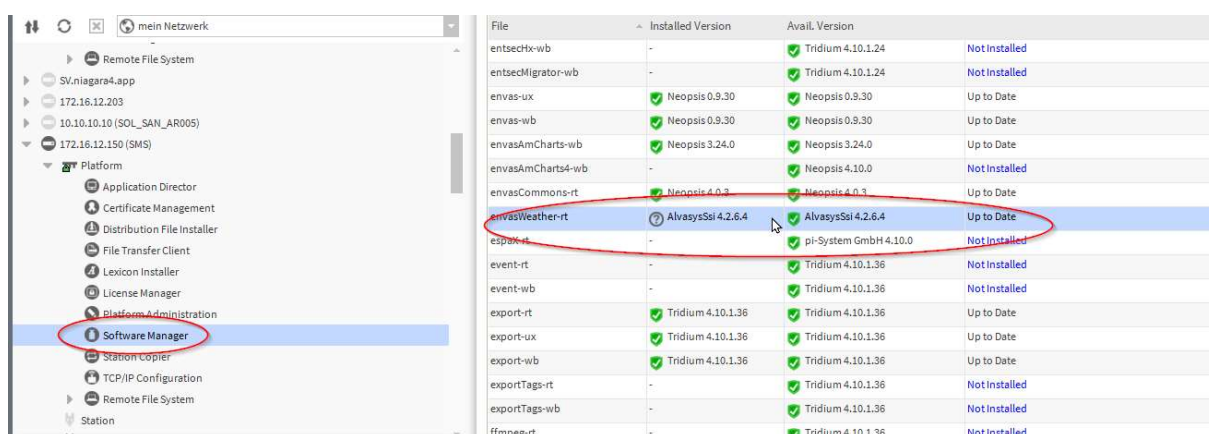
Installing the driver on your PC

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 envasWeather-rt 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 appear 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 envasWeather-rt 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: /opt/niagara/modules 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.

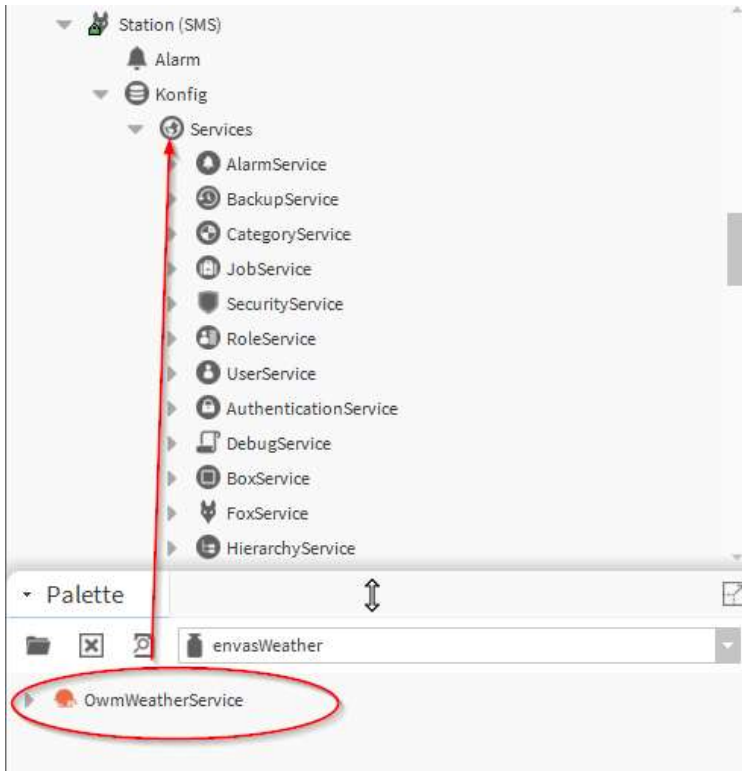


File	Installed Version	Avail. Version	Status
entsecHx-wb	-	Tridium 4.10.1.24	Not installed
entsecMigrator-wb	-	Tridium 4.10.1.24	Not installed
envas-ux	Neopsis 0.9.30	Neopsis 0.9.30	Up to Date
envas-wb	Neopsis 0.9.30	Neopsis 0.9.30	Up to Date
envasAmCharts-wb	Neopsis 3.24.0	Neopsis 3.24.0	Up to Date
envasAmCharts4-wb	-	Neopsis 4.10.0	Not installed
envasCommons-rt	Neopsis 4.0.3	Neopsis 4.0.3	Up to Date
envasWeather-rt	AlvasysSai 4.2.6.4	AlvasysSai 4.2.6.4	Up to Date
espx-rt	-	pi-System GmbH 4.10.0	Not installed
event-rt	-	Tridium 4.10.1.36	Not installed
event-wb	-	Tridium 4.10.1.36	Not installed
export-rt	Tridium 4.10.1.36	Tridium 4.10.1.36	Up to Date
export-ux	Tridium 4.10.1.36	Tridium 4.10.1.36	Up to Date
export-wb	Tridium 4.10.1.36	Tridium 4.10.1.36	Up to Date
exportTags-rt	-	Tridium 4.10.1.36	Not installed
exportTags-wb	-	Tridium 4.10.1.36	Not installed
ffmpeg-rt	-	Tridium 4.10.1.36	Not installed

7 . Driver configuration

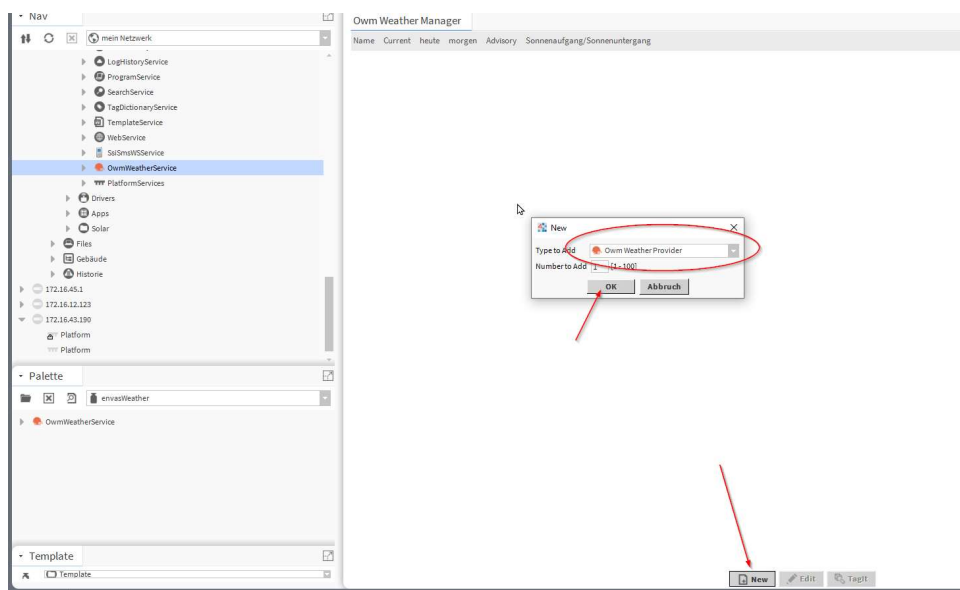
Installing the NVOWM Provider

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

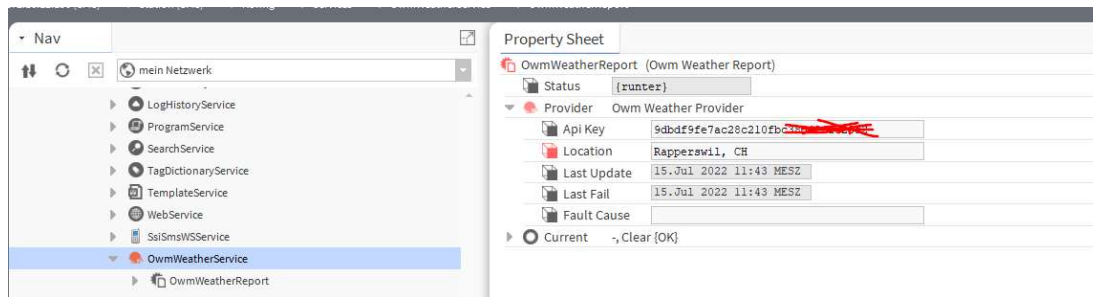


Configuring the Network Parameters

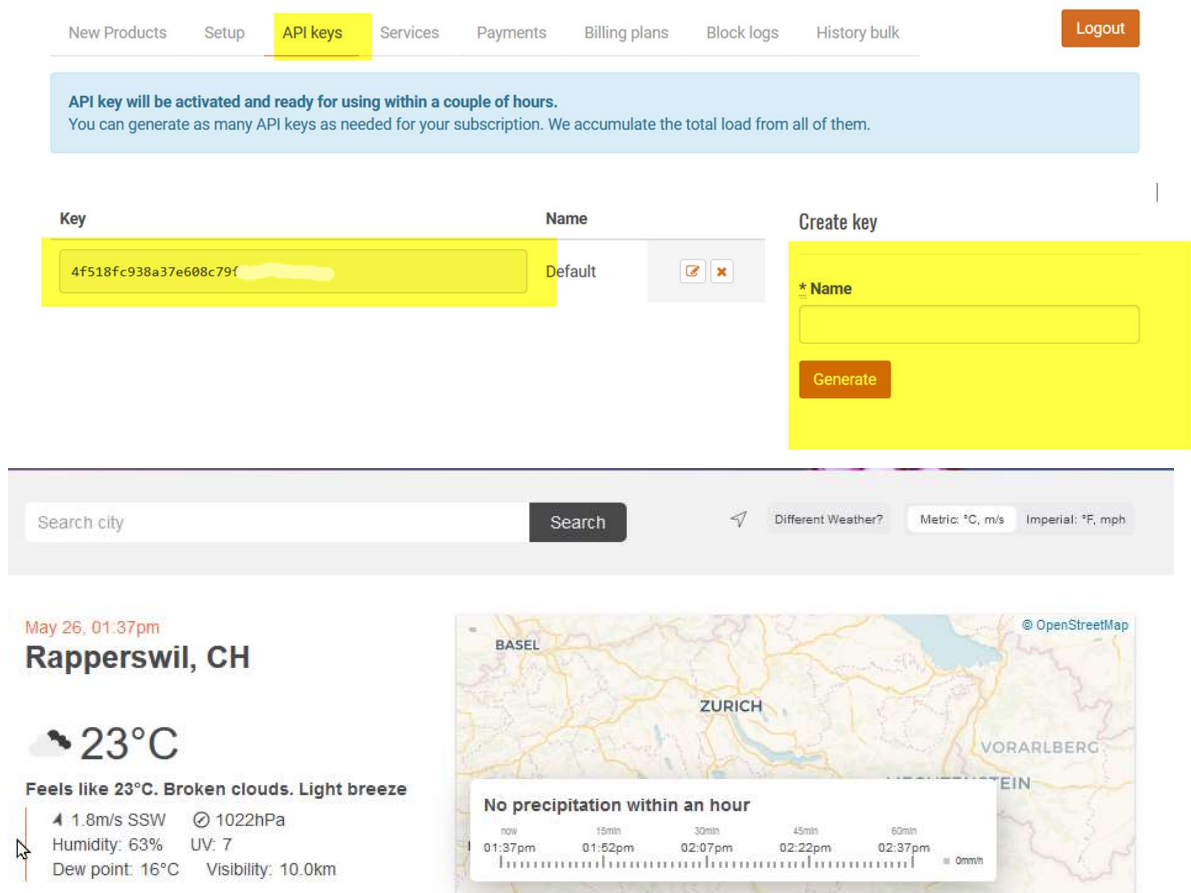
1. To proceed with this task, add a new Weather provider!



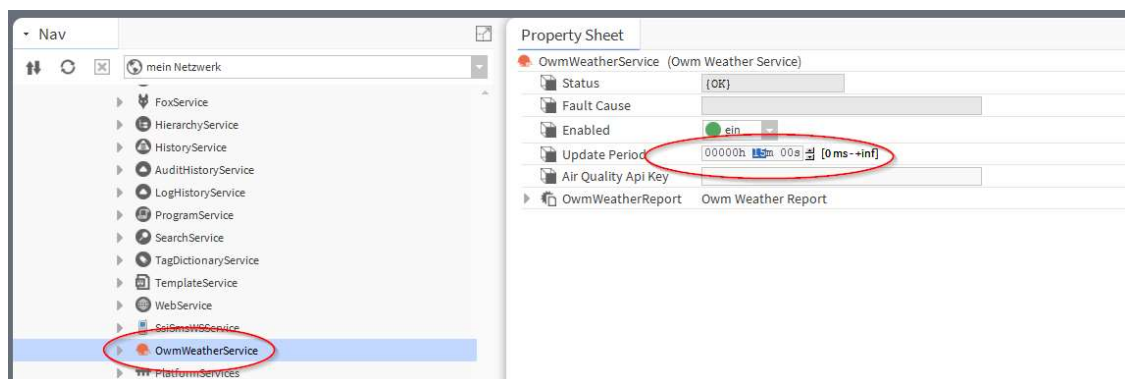
2. Add the API key and the location.



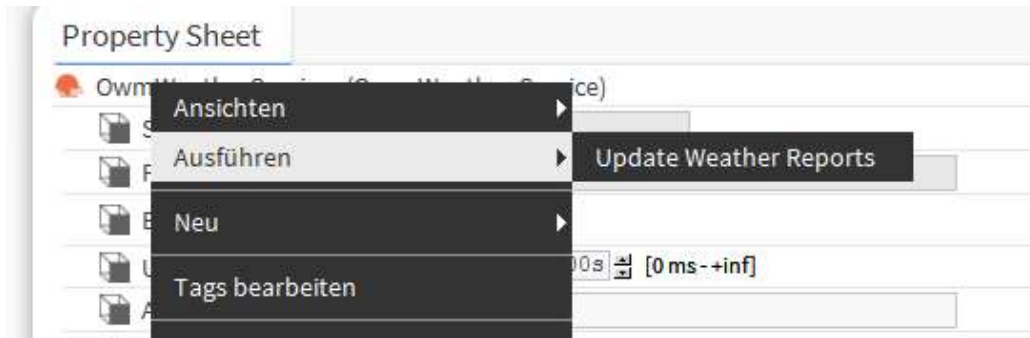
API Key and the location is from the open weather side:



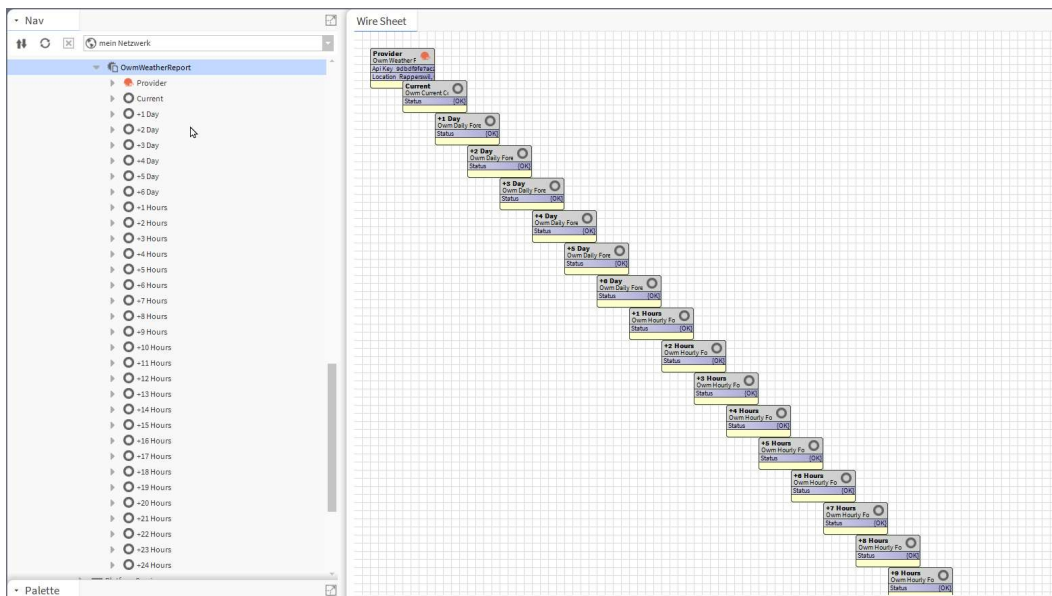
3. Set the update period.



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



5. The points are add automatically on sheet



Current weather value

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)