ALVASYS-DR-VKF // alvasysHailProtectionVKF

Software installation and configuration manual.

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1 History

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1.0.1.2	21.10.2022	Marcello Meriano	First draft

2 Index

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4 . Introduction

Requirements

- Niagara >= 4.7
- A license to use the ALVASYS-DR-VKF driver. Other device limit or proxy-point limits may apply to your license. For license details and options, see the ALVASYS-DR-VKF price list.

Module

The ALVASYS-DR-VKF Driver is contained in one files:

`alvasysHailProtectionVKF-rt.jar`

Compatibility

Platforms

The ALVASYS-DR-VKF driver runs on Niagara >= 4.7 platforms.

Tested versions

Niagara 4.10.x

5 . License

The **has no limitation!**

6 . Installing the software

Installing the ALVASYS-DR-VKF 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:

alvasysHailProtectionVKF-rt.jar (for version 4.7+4.8)
alvasysHailProtectionVKF-rt.jar (for version >=4.9)

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 theirs name into **alvasysHailProtectionVKF-rt.jar**!
Step 3	Copy the one **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**.

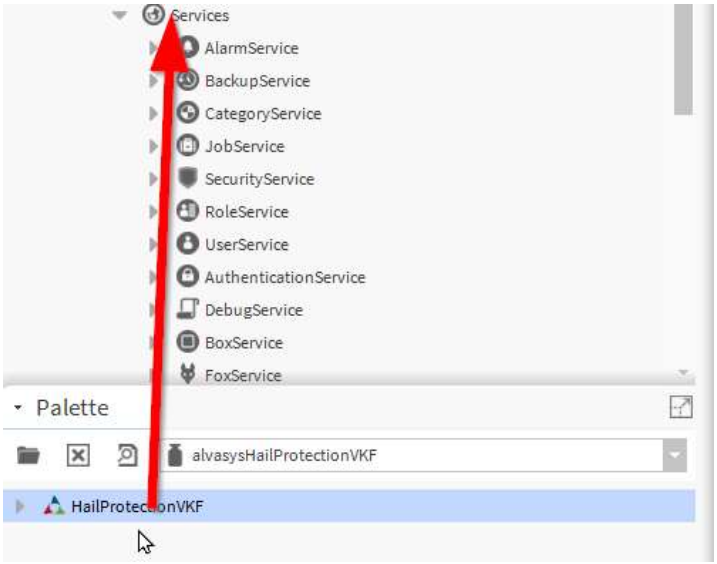
Installing the driver into the JACE/HAWK unit

Step 1	Through the **`Work Bench`** get connected to a JACE/HAWK/MAC/Supervisor running unit.
Step 2	Transfer the **`alvasysHailProtectionVKF-rt.jar`** 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.

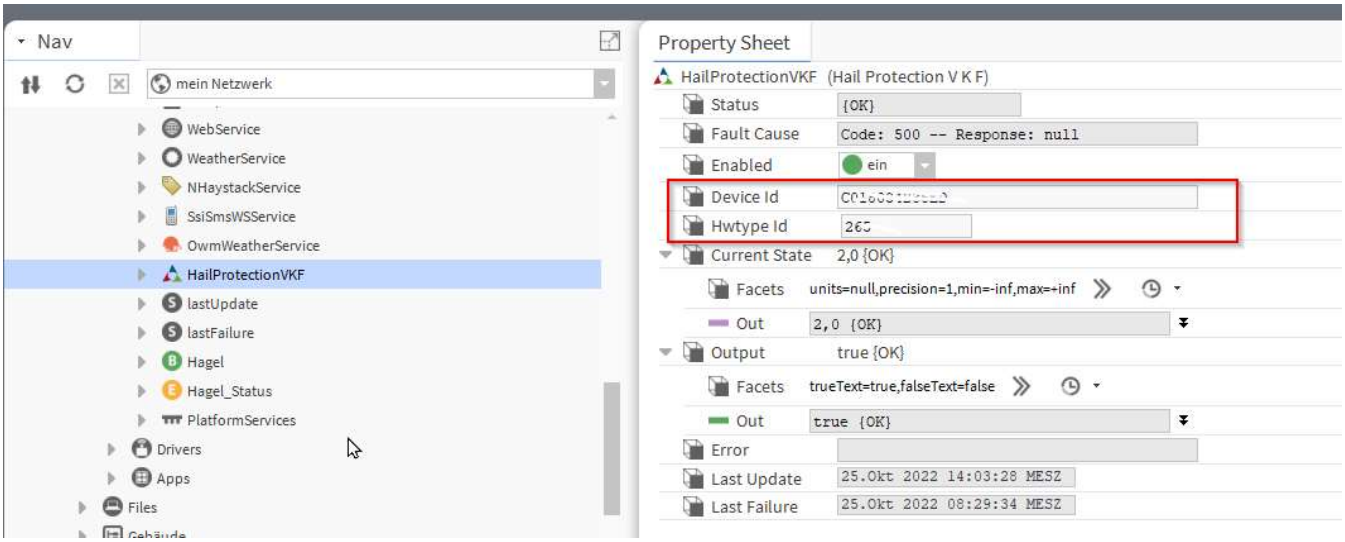
7 . Driver configuration

Installing the alvasysHailProtectionVKF-rt.jar

The first step of the driver configuration is the installation of the **`HailProtectionVKF`** under the station running in the JACE/HAWK/Supervisor unit. Copy the HailProtectionVKF in the Service!



Configuring the Network Parameters



- **Status:** status of Service.
  - It will be “fatal fault” if the Driver is not licensed.
  - It will be “down” if last API call return with errors (Timeout, Code: 404, 400, …).
- **Fault Cause:**
  - It will show “[Driver not licensed]” if the Driver is not licensed.
  - It will show error codes, in case of API error.
- **DeviceId:** dynamic field, to set Device ID in the API call. You received this from *
- **HwtypeId:** dynamic field, to set Hardware Type ID in the API call. You received this from *

*https://www.hagelschutz-einfach-automatisch.ch/eigentuemer-verwaltungen/das-system-erklaert/schnittstelle.html

Treiber Model: Niagara 4

- **Current State:** the value (**currentState**) returned from netitservices API is mapped to Output
  - currentState = 0 → no Hail
  - currentState = 1 → Hail
  - currentState = 2 → Test Hail
-
- **Output:** the value (**currentState**) returned from netitservices API is mapped to Output BooleanPoint in this way (only if API returns with response code 200):
  - currentState = 0 → FALSE
  - currentState = 1 → TRUE
  - currentState = 2 → TRUE
- **Error:** This property is populated in case of an error (Timeout, Code: 404, 400, …), using the **message** field in the API response body.
- **Last Update:** Date and time of the last call made to the API.

- **Last Failure:** Date and time of the last call made to the API with errors.

Response OK (Code: 200):


```
{
  "currentState": 0,
  "newProgVer": 0,
  "hailState": 0
}
```


Response KO (Code: 404, 400):


```
{
  "timestamp": "2022-10-23T08:58:15.800+00:00",
  "exception": "HardwareTypeException",
  "message": "The wrong hardware type for the device was specified"
}
```


Behaviour:

On API ok response:

- Last Update is updated to “now”.
- Output value is updated to currentState value in API response body and its status is set to OK.
- Last Failure, Error and Fault Cause are not cleared, continuing to refer to the last failed API call.

On API error:

- Last Update is updated to “now”.
- Last Failure is updated to “now”.
- Output status is set to DOWN. Its value is not modified.
- Error value is updated to message value in API response body.
- Fault Cause is set to API response code.

Update Interval are fix:

- 120s

Action:

- Update the Hail manual (but is only needed when you do the initialization)