



SMART SERVICES INTERNATIONAL SAGL

Via Cantonale 18 – Tecnopolo Ticino
CH-6928 Manno
Switzerland

ssiWMBus Driver

Software installation and configuration manual.

Ver: 1.4.0.0

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History

Filename: ssiWMBus_v1.4.0.0.odt			
Rev.	Date	Author	Description
1.0	05.07.2019	S. Strapparava	First draft
1.2	19.07.2019	S. Strapparava	Pre-Production Release 1
1.4	06.10.2020	S. Strapparava	Added HTTP (RESTful) endpoint



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1. Introduction

Requirements

- Niagara 4.x
- A license to use the ssiWMBus driver. Other device limits or proxy-point limits may apply to your license.

Module

The ssiWMBus Driver is contained in the `ssiWMBus_v1.4.0.0.jar` file.

Compatibility

Tested versions

Platforms

The ssiWMBus driver runs on Niagara 4.7.x platforms.



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2. License

The `device.limit` number in your license, is referred to **enabled devices**.

i.e.

If your license has a `device.limit` of 10 devices, you can register 30 (or more) devices in your station's database, but only 10 could be enabled simultaneously.



3. Installing the software

Installing the ssiWMBus 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:

ssiWMBus_<version number> (i.e. ssiWMBus_1.4.0.0)

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 1.4.0.0)

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 file, changing its name into ssiWMBus . Extension . jar should remain as well.
Step 3	Copy the ssiWMBus . jar file 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

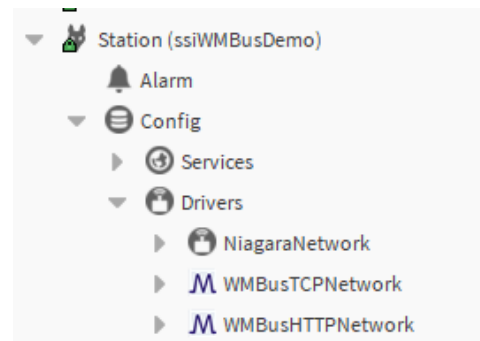
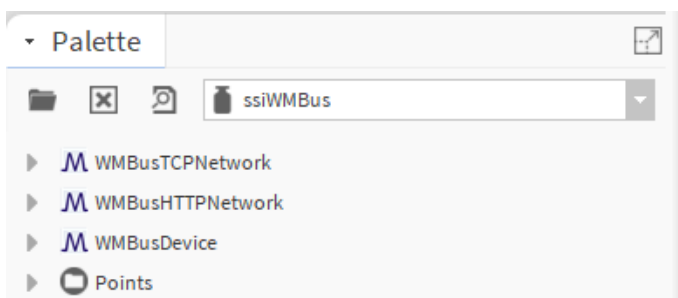
Step 1	Through the Work Bench get connected to a JACE/HAWK running unit.
Step 2	Transfer the ssiWMBus module into the unit under the folder modules .
Step 3	This can be done by activating the standard Tridium procedure for software upgrading or simply copying the ssiWMBus . jar file by the File Transfer Client procedure, available under the list of the Platform options in your Work Bench . 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.

4. Driver configuration

Installing the Network

The first step of the driver configuration is the installation of the **WMBus Network component** under the station running in the JACE/HAWK unit.

A simple way to complete this task is to open the **Palette** named **ssiWMBus** (see figure below), select one of the available **Network component** and drag and drop it under the **Drivers** folder of the running station.



It's possible to choose between two different configurations:

- **WMBusTCPNetwork**: to connect the Driver to a TCP/IP Gateway
- **WMBusHTTPNetwork**: to expose a RESTful endpoint able to accept HTTP requests

Configuring the Network Parameters

The **WMBusTCPNetwork** doesn't need further configurations.

The HTTP endpoint is available at the URL: **https://<station_base_url>/ssiWMBus/api/telemetry**

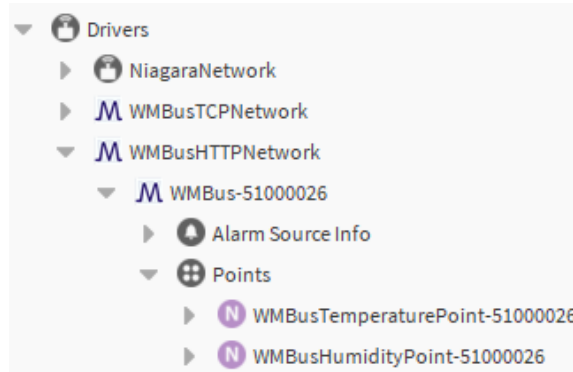
To configure a **WMBusTCPNetwork** instead, right click on the **WMBusTCPNetwork** (under Driver section of the Jace) and open its **Property Sheet**.

Be sure that the Network is enabled, insert the Gateway URL and communication Port (as in figure below).

WMBusTCPNetwork (Ssi M Bus T C P Network)	
Status	{ok}
Enabled	<input checked="" type="checkbox"/> true
Fault Cause	
▶ Health	Ok [05 ott 2020 16:50 CEST]
▶ Alarm Source Info	Alarm Source Info
▶ Monitor	Ping Monitor
▶ Tuning Policies	Tuning Policy Map
Driver Vendor	Smart Services International SAGL
Driver Version	1.4.0.0
Gateway Url	127.0.0.1
Gateway Port	5000

5. Add Devices

The next step is to add **WMBusDevices** to the **Network** and the **Proxy points** to every Device.



Drag and drop a WMBusDevice component from the palette and choose a unique name.
We suggest to use the device Serial Number (e.g. WMBus-51000026)

6. Auto-Discovery

If the driver receive a message from a not registered Serial Number, automatically add a new Device.

The Device name will be composed in this way: **WMBus<serial-number>** and the device status will be setted to **Disabled**.

7. Add Point to Device

To add a Point to an imported Device, select one of the available points in the Palette and drag and drop under the Device's Points Folder, as shown in next figures

