

Niagara 4 Driver for CSV

User Guide

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Change log

3.8

- Build for 3.8.111

4.4

- Build for 4.4.73

Driver Overview

The Safecontrol CSV Driver is written using Tridium's NDriver Framework for use in Niagara 4 or later.

The driver provides support for reading data from 3rd party csv export files. Driver imports room name from csv file and periodically polls state of the room.

This help is also connected to the objects in Workbench and you can use the "Guide on target" function in the help or right menu to get more information.

Prerequisites for integration

1. Correctly installed modules with the driver, see chapter "Installation" for more details.
2. Active license and certificate for the driver on the target platform, see chapter "Licensing" for more details.

Installation

Source files are available for download from SAFECONTROL license web (<https://license.safecontrol.cz>). Extract the **csv.zip** archive and copy all included *.jar files to your Niagara modules directory, which is typically **C:\Niagara\Niagara-4.4.xx.xx\modules**.

For correct behaviour it is necessary to install *.jar files on the client platform (Workbench PC) as well as on the target platform (JACE8000 or Supervisor).

Note: Close the Niagara Workbench after inserting all the modules in the folder. Next time you start the Niagara Workbench the driver will be loaded in Niagara Workbench and will be immediately available for use.

Licensing

Driver is license limited by number of connected points. Demo license is limited up to 90 days and purchased licenses are not time limited.

You can ask for license via SAFECONTROL license web (<https://license.safecontrol.cz>) or by sending e-mail to sales@safecontrol.cz. Purchased license will be generated via Niagara-Central license web where it will be available for download together with safecontrol.certificate file. You can also download license online in Niagara Workbench from license manager view, see picture below:

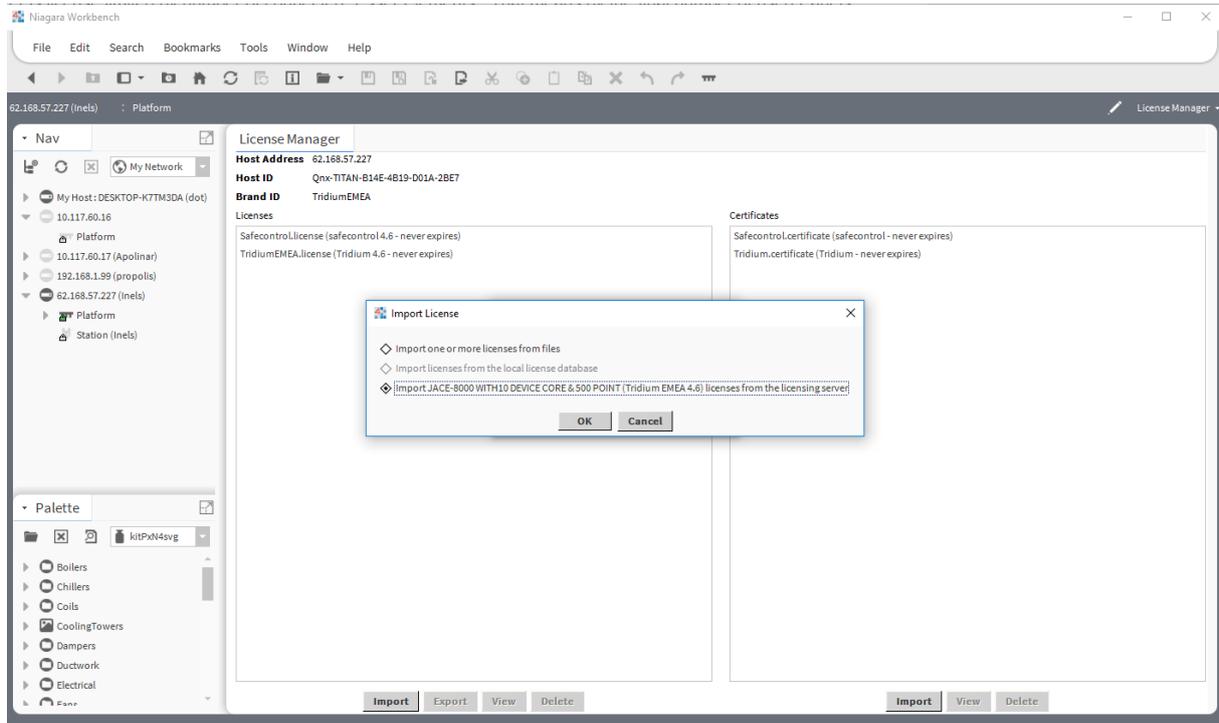


Figure 1: License import via License manager

Order codes

- DR-SC-CSV-500 – Driver for reading data from 3rd party *.csv export files – 500 data points

Basic config guide

1. Add new Csv Network to your Drivers node.
2. Add new Csv Device to your Csv Network.
3. Correctly configure newly added Csv Device.

For more in-depth help read following chapters.

Setup guide

Overview

A Csv Network represents container for Csv Devices. There are located global configuration parameters (poll scheduler, ping monitor, tuning policies...) common for all descendant devices (Csv devices) in the network properties.

Adding a Csv Network to station

To add a Csv Network, perform these following steps:

1. Open the station and expand the nav tree.
2. Double click on the Drivers node.
3. In the Driver Manager window click the “New” button. Select Csv Network from the drop-down list and click Ok.
4. Enter a name for the network and click Ok.

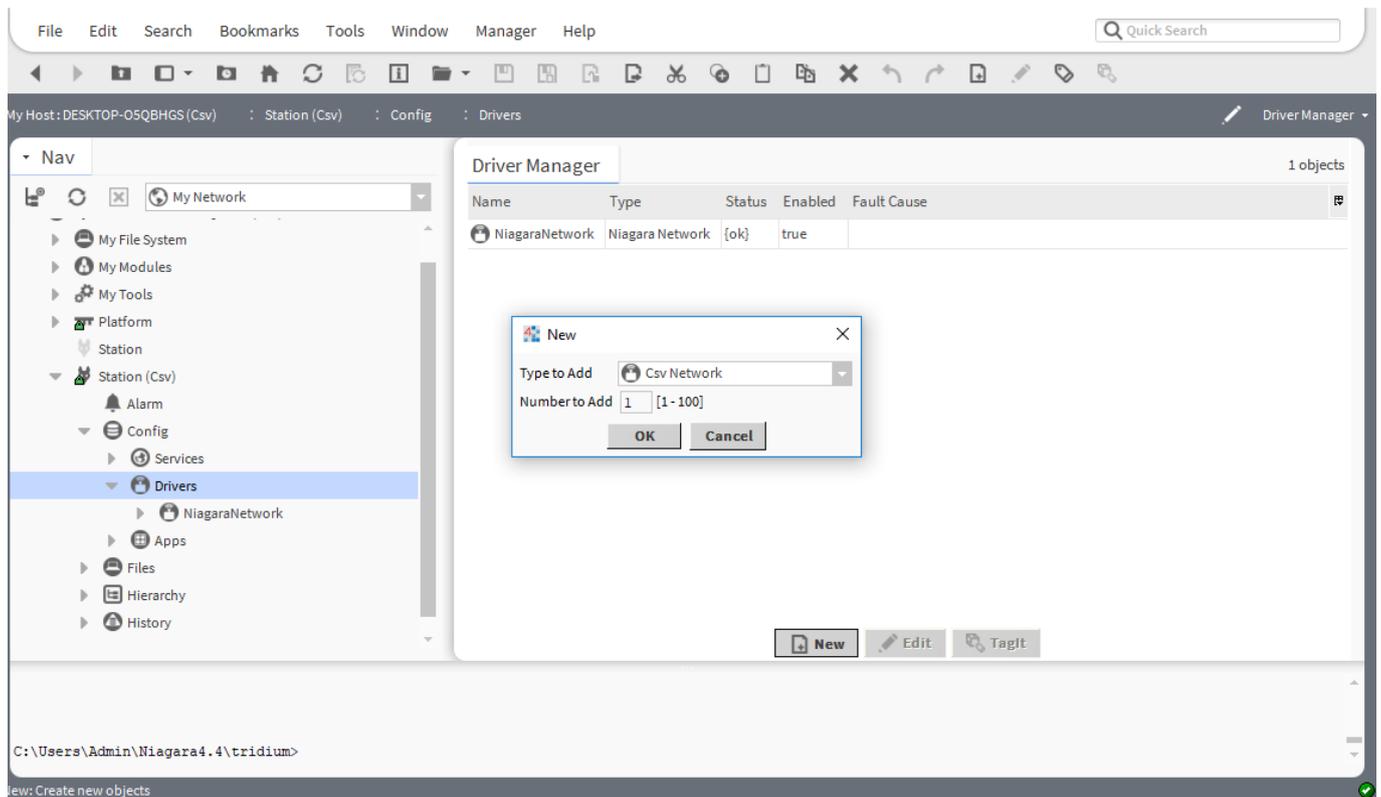


Figure 2: Adding a new Csv Network

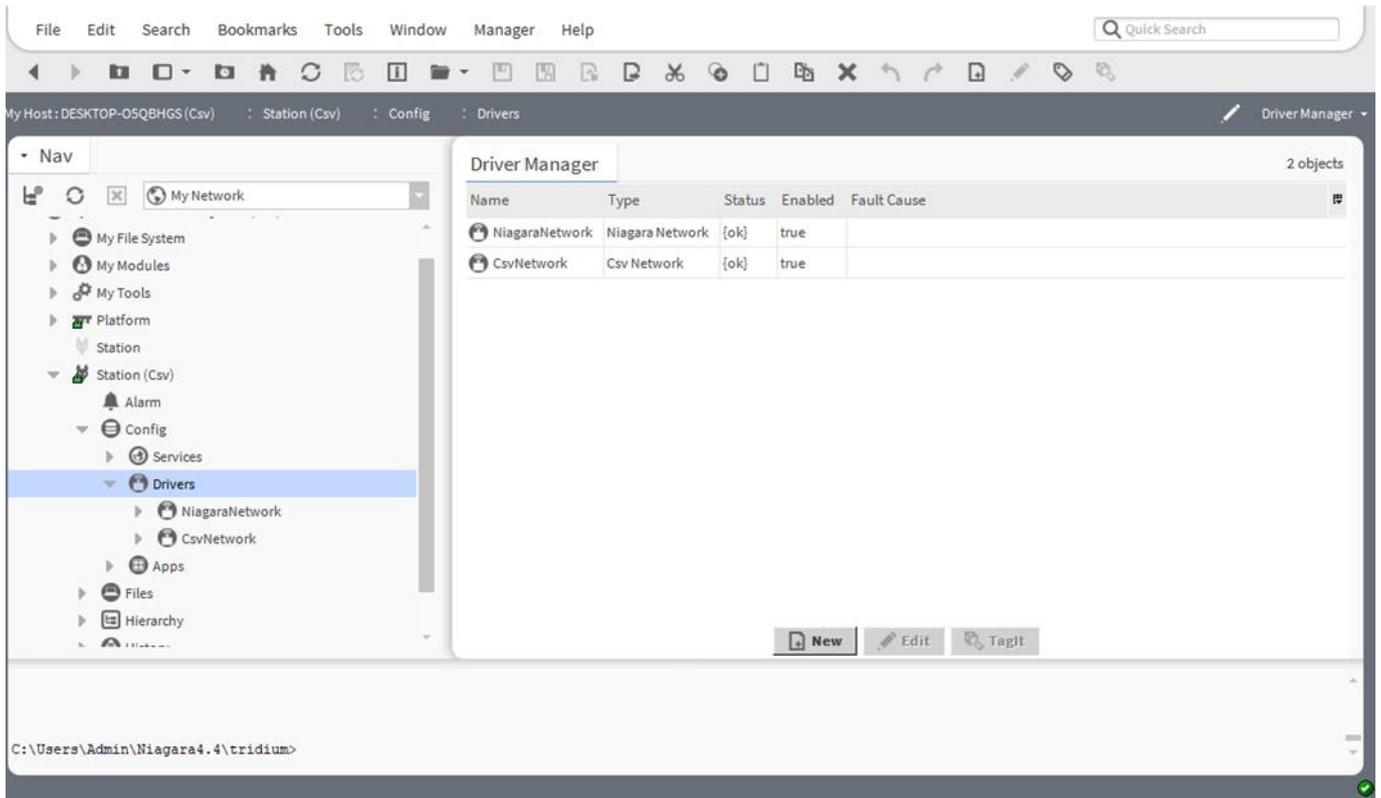


Figure 3: Successfully added Csv Network

Configuring a Csv Network

In the Csv Network property sheet is located common settings for all descendants (Csv Devices). Ping monitor and global poll scheduler are shared for all devices under Csv Network. You can choose for each device a poll rate (slow, normal, fast) defined in this property sheet.

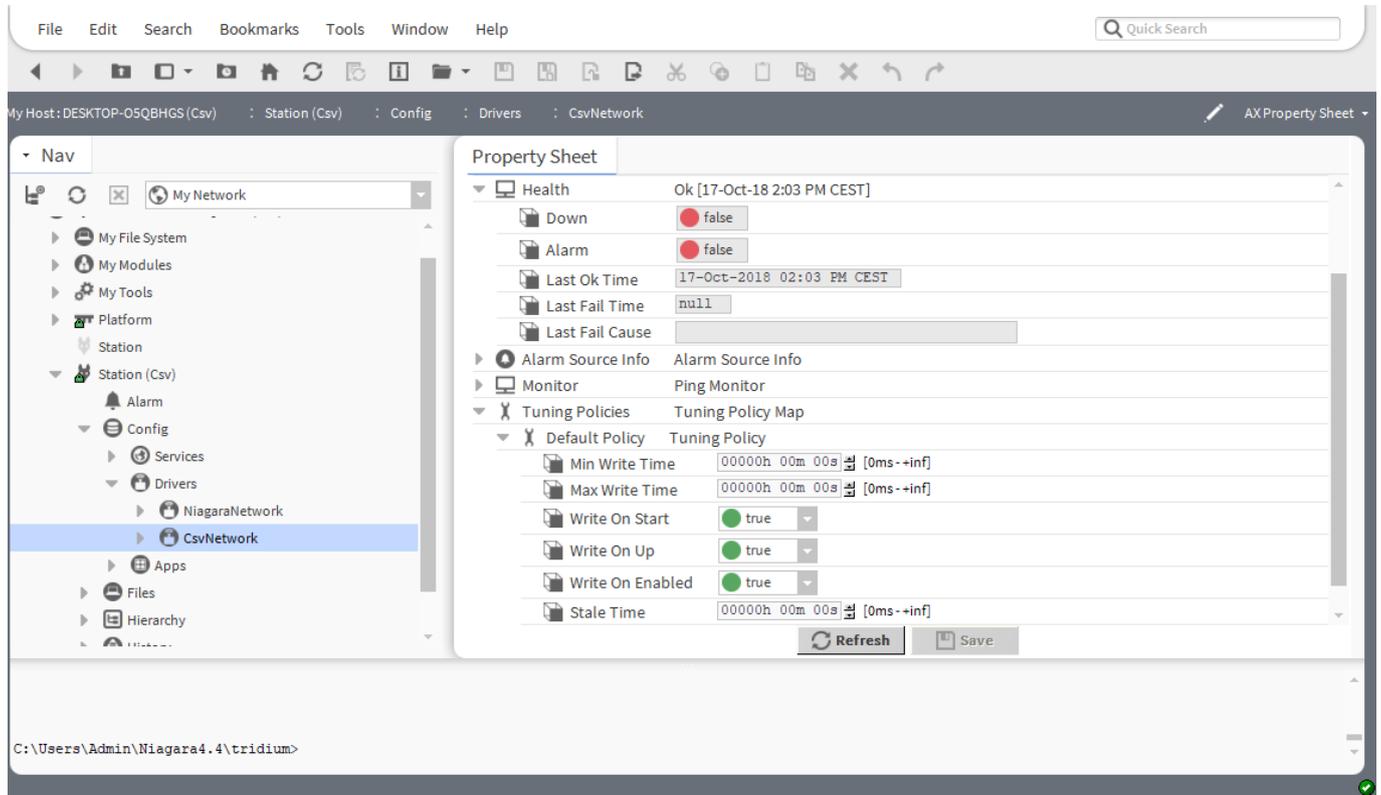


Figure 4: Property Sheet of the Csv Network

N Device Manager

N Device Manager is the primary View on the Csv Network component (You can open it by double-clicking on CsvNetwork in nav tree). The manager provides a table view of all devices under the Csv Network.

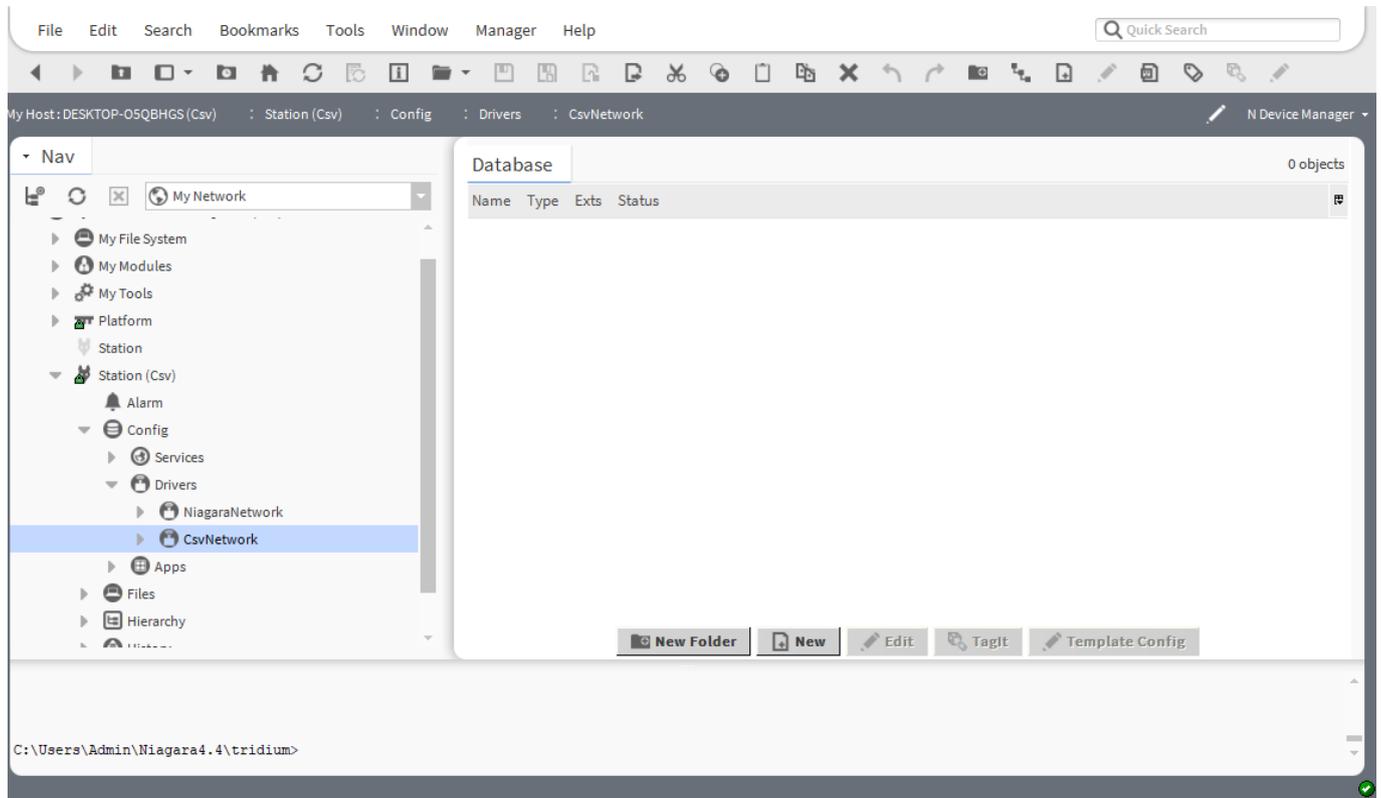


Figure 5: N Device Manager

N Device Manager provides set of control buttons in the bottom of the View:

- **New Folder** – This will create new folder of type Csv Device Folder meant for custom ordering of Devices.
- **New** – With this button you can create new Csv device.
- **Edit** – Same as double-click on device, you can edit names of selected devices.
- **TagIt** – This button is disabled in current release.
- **Template Config** – This button is disabled in current release.

Adding new Csv Devices to the Station

To insert new device in the Csv Network, perform these following steps:

1. Open N Device Manager.
2. Click the “New” button.
3. Write in name for new Csv Device.
4. Click “Ok” button.

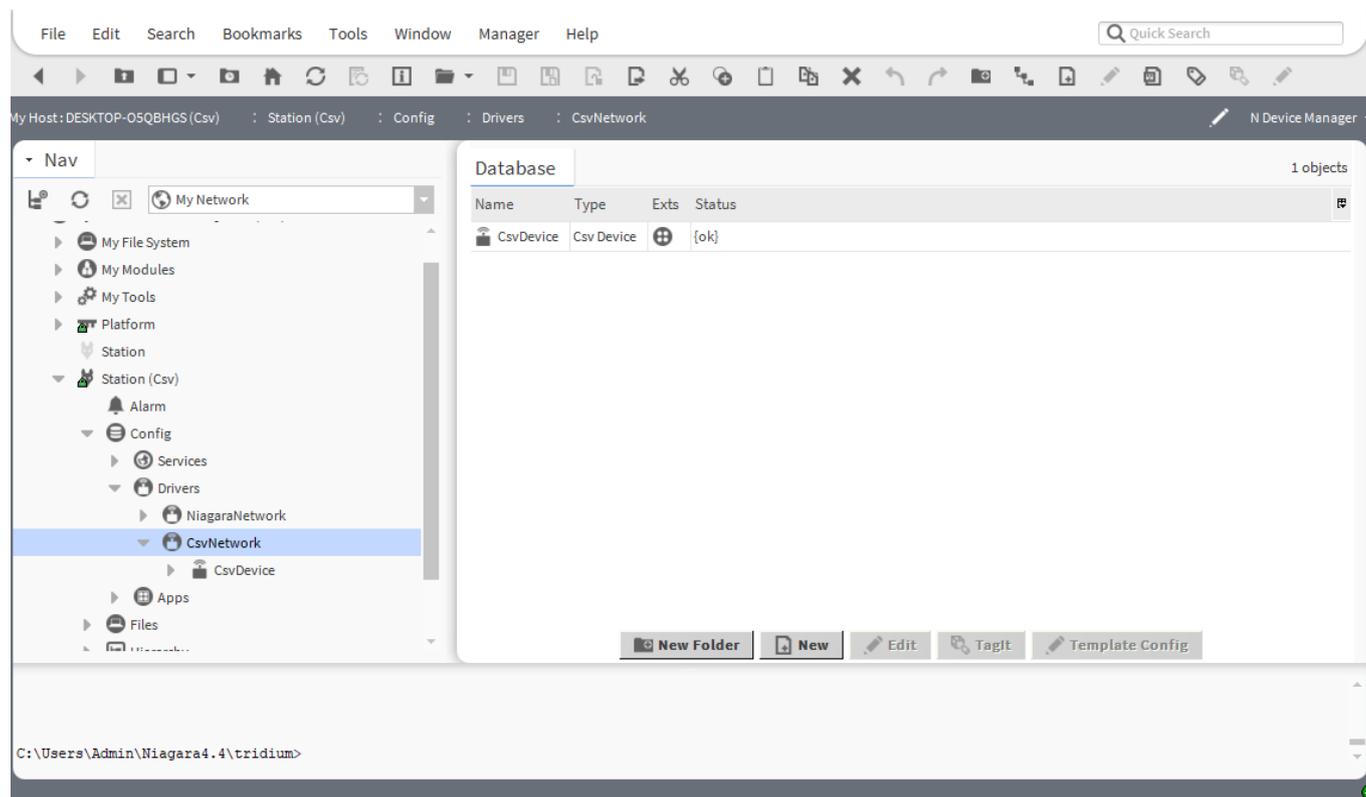


Figure 6: Newly added Csv Device

Csv Device

By double clicking the device in the device tree is opened Csv Device property sheet.

CsvDevice (Csv Device)	
Status	{ok}
Enabled	<input checked="" type="checkbox"/> true
Fault Cause	
Health	Fail [null]
Down	<input checked="" type="checkbox"/> false
Alarm	<input checked="" type="checkbox"/> false
Last Ok Time	null
Last Fail Time	null
Last Fail Cause	
Alarm Source Info	Alarm Source Info
Poll Frequency	Normal
Points	Csv Point Device Ext
Import File	local: fox: file: <input type="button" value="..."/>
Last File Read	null
File Not Found	<input checked="" type="checkbox"/> false
Encoding	CP1250
Delimiter	
Erase File After Reading	<input checked="" type="checkbox"/> false
Auto Fill	<input checked="" type="checkbox"/> false
Real Line Count	0
Expected Line Count	0
Line Count Match	<input checked="" type="checkbox"/> false

Figure 7: Property sheet of Csv Device

Csv Device has following properties:

- Poll Frequency – Frequency of how often is read status from file.
- Import File – Location of import file.
- Last File Read – Timestamp of last read from file.
- File Not Found – True if file was not found.
- Encoding – Encoding of import file.
- Delimiter – Delimiter used in import file.
- Erase File After Reading – Will erase file after reading.
- Auto Fill – Auto fills points from file which are not in database.
- Real Line Count – Number of lines in import file.
- Expected Line Count – Expected number of lines in import file.
- Line Count Match – True if Real Line Count equals Expected Line Count.

To import points from file and to start polling room statuses, follow these steps:

1. Set location of Import File.
2. Check if Encoding and Delimiter is same as in import file.
3. Set Auto Fill to true.
4. Click Save.
5. If everything is ok, driver should import points from file and start polling successfully.

 CsvDevice (Csv Device)

Status	{ok}
Enabled	<input checked="" type="checkbox"/> true
Fault Cause	
Health	Fail [null]
Down	<input type="checkbox"/> false
Alarm	<input type="checkbox"/> false
Last Ok Time	null
Last Fail Time	null
Last Fail Cause	
Alarm Source Info	Alarm Source Info
Poll Frequency	Normal
Points	Csv Point Device Ext
Import File	file:^exp.csv  
Last File Read	null
File Not Found	<input type="checkbox"/> false
Encoding	CP1250
Delimiter	
Erase File After Reading	<input type="checkbox"/> false
Auto Fill	<input checked="" type="checkbox"/> true
Real Line Count	0
Expected Line Count	0
Line Count Match	<input type="checkbox"/> false

Figure 8: Set properties for auto fill in Csv Device

 CsvDevice (Csv Device)

 Status	{ok}
 Enabled	<input checked="" type="checkbox"/> true
 Fault Cause	
  Health	Ok [17-Oct-18 2:51 PM CEST]
 Down	<input checked="" type="checkbox"/> false
 Alarm	<input checked="" type="checkbox"/> false
 Last Ok Time	17-Oct-2018 02:51 PM CEST
 Last Fail Time	null
 Last Fail Cause	
  Alarm Source Info	Alarm Source Info
 Poll Frequency	Normal
  Points	Csv Point Device Ext
 Import File	file:^exp.csv  
 Last File Read	17-Oct-2018 02:51 PM CEST
 File Not Found	<input checked="" type="checkbox"/> false
 Encoding	CP1250
 Delimiter	
 Erase File After Reading	<input checked="" type="checkbox"/> false
 Auto Fill	<input checked="" type="checkbox"/> false
 Real Line Count	20
 Expected Line Count	0
 Line Count Match	<input checked="" type="checkbox"/> false

Figure 9: Csv Device properties after successful read from import file

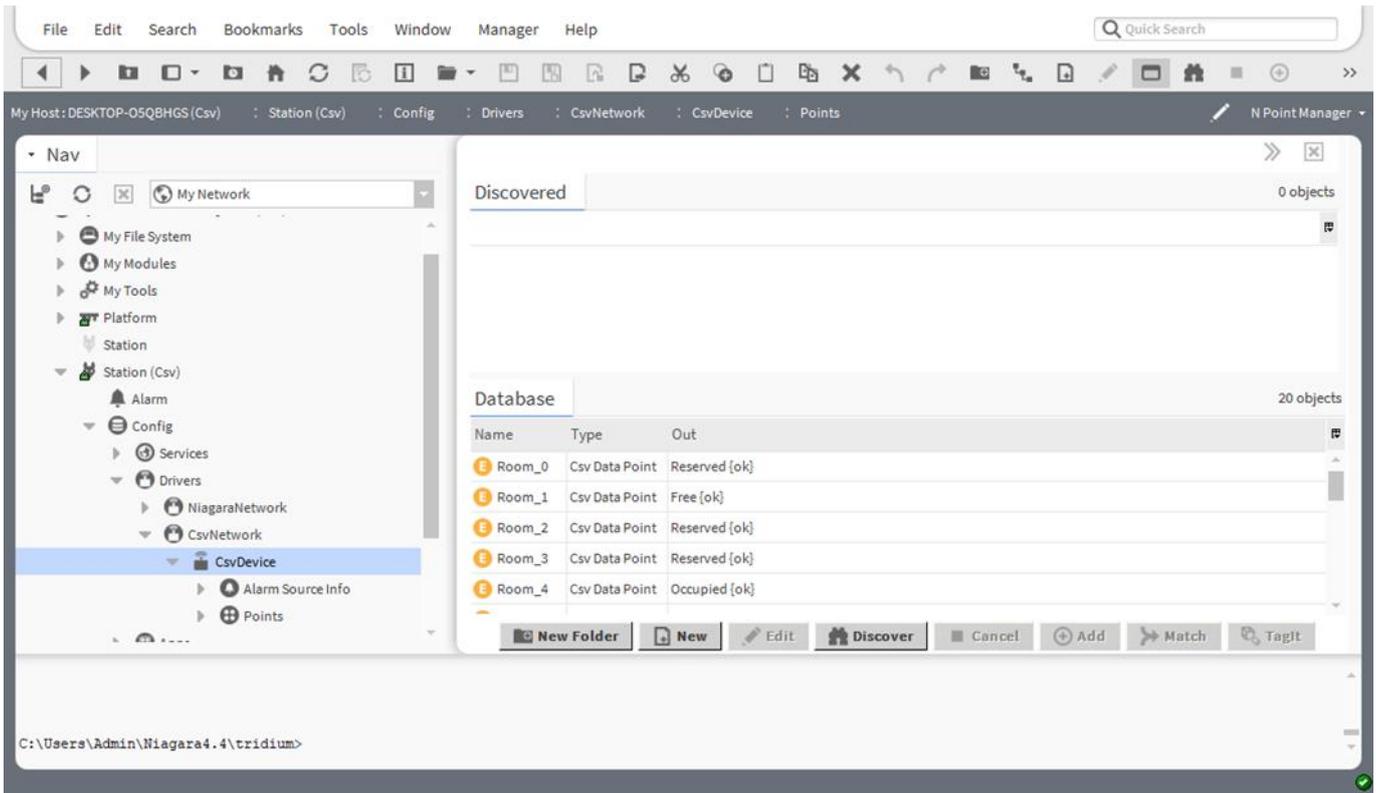


Figure 10: N Point Manager with auto filled points from import file

FAQ

Q: The driver doesn't successfully import import file.

A: Check if you have correctly set Encoding and Delimiter in Csv Device.