

NAV340 & NAV350 - Firmware release information 1.x.x

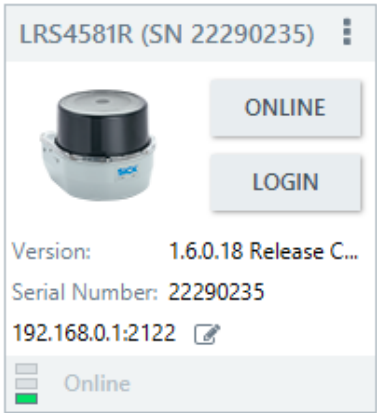
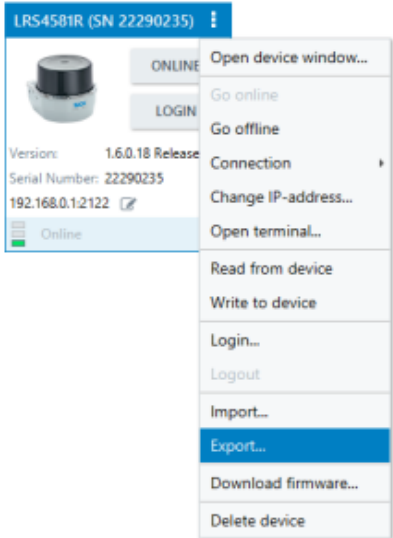
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SICK
Sensor Intelligence.

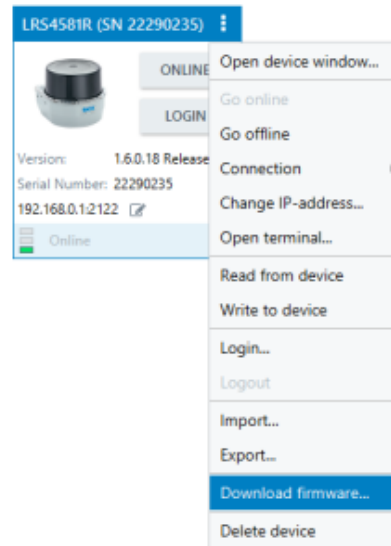


Update Instructions

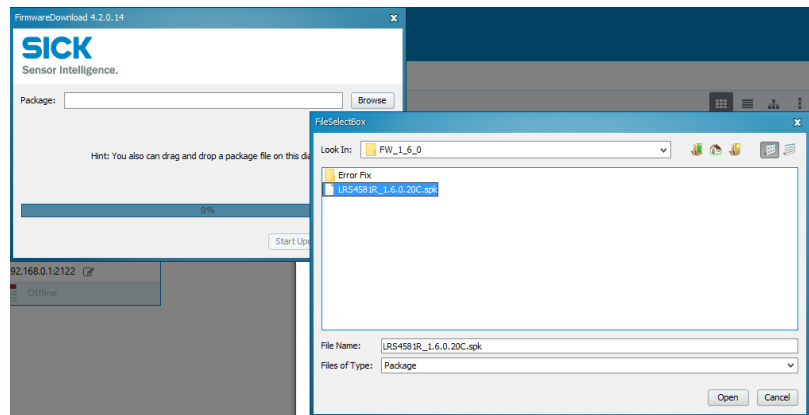
 Downgrade of firmware versions is not allowed and not possible!

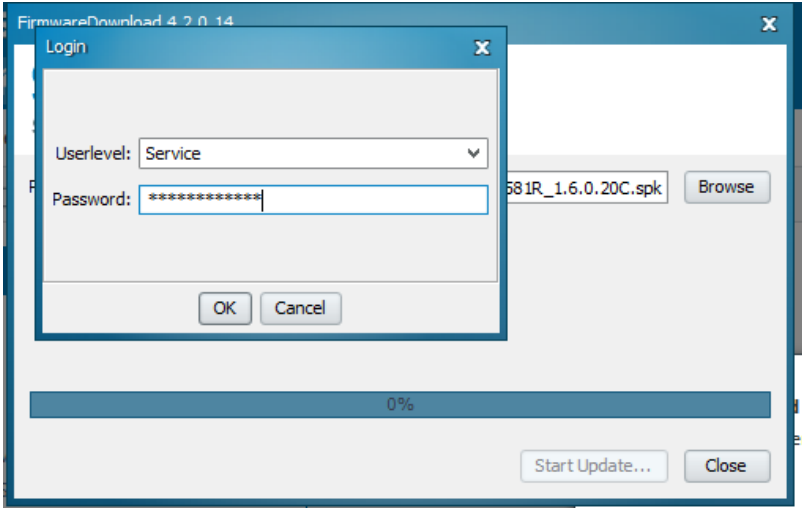
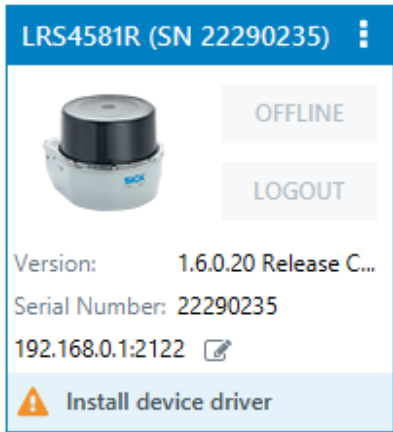
1	Save and unpack the firmware files on your local hard disk (please use full admin rights on your PC).	
2	Make sure your LiDAR is connected via Ethernet to your PC, in the same subnet and booted up. Power supply must remain stable during the update process.	
3	Use SOPAS ET or AppManager for firmware updates. The following instructions refer to SOPAS ET only.	
4	Search for the connected LiDAR and drag and drop the device into the SOPAS project.	
5	Recommendation: Save your parameter file (.sopas file) before you start the update.	

6 Open the settings and choose **Download firmware**.



7 Select the firmware package (.spk) and start the update process.



8	<p>Log-in to the LiDAR with user level: Service and password: servicelevel</p> <p>The update procedure may take up to 2 minutes.</p>	
9	<p>Wait until the reboot is completed and the device LED turns green.</p>	
10	<p>Check the SOPAS window for the correct firmware version.</p> <p>Depending on the firmware update, the SOPAS ET device driver may need to be reinstalled by pressing "install device driver".</p>	
11	<p>Before the LiDAR is used for operation, ensure the device works as expected and that all parameters are set as intended.</p>	
12	<p>In case of uncertainty:</p> <ul style="list-style-type: none"> • Set factory defaults in the device (user level "Service") • Load your parameter file (.sopas) in the device 	
13	<p>Done</p>	

Firmware V1.22.3

New Features

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Improvements

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Bug fixes

Not presenting stored reflector coordinates

To prevent that a corrupted memory causes problems, generated by switching off the power supply while writing the reflector coordinates into the memory, there are two measures introduced in the firmware V1.22.2.

We have speeded up the writing process, to write reflector data into the flash memory and implemented a routine to detect corrupted data in the firmware.

The problem with the version V1.22.2 was that the reflector data are correct in the flash memory but a test routine after booting was not showing reflector data which are assigned to one layer only.

If the used layout is configured after system start directly into RAM the application works properly.

We fixed this problem in the firmware V1.22.3 and now all reflectors are visible.

Known issues

No known issues

Firmware V1.22.1

New Features

Result Port number changeable as SOPAS parameter

Previously port 2113 was a hard coded value and could not be changed. Now it is changeable to customers need.

Flashing of Firmware direct by SOPAS

It is now possible to update the firmware by the Packageloader tool as well as by SOPAS ET directly. The required user level is "service" for the FW-Update

Use serial number as default location name

Usage of "SN xxxxxxxx" (device's serial number) instead "not defined" as default location name.



Network Options

Device ID Device Name

mNLAYGetLandmark with reflector diameter = 0 causes error message in SOPAS-ET

The function mNLAYGetLandmark with reflector diameter = 0 causes error message in SOPAS-ET. The diameter of the reflectors must be 1mm before the change. Now, also 0mm is accepted.

Improvements

Incompatibility problem with the Win10 Home Chinese version to save parameter permanent

The NAV350 had an incompatibility problem with the Win10 Home Chinese version system.

The issue details:

1. Load and save permanent after parameter setting, without any error report but the parameter should back to default with reboot.
 2. Issue only with the Win10 Home Chinese version system. The same operating with another W10 version (like expert version which sick laptop installed) is ok".
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Bug fixes

Problem while importing *.ref landmark files from NAV200

In extremely rare cases the import of an landmark file in the *.ref format of the predecessor NAV200 (E.g. to replace the NAV200) could lead to a problem if the reflector coordinates are matching to the Cola telegram command. For a better stability the RS232 interface could be set now either to Cola A (Default setting) or to the NAV200 telegram.

Serial Interface

Protocol

COLA-ASCII

COLA-ASCII

NAV200

Baudrate

Stopbits

1

Databits / Parity

8 Databits / Even Parity

To enable the parameterization the SOPAS-parameter "SerHostActiveProtocol" had been introduced to configure the protocol, that is active at the serial host interface The commands (from user level "authorized client" on):

- "sWN SIHstActProt 0": CoLa-A
- "sWN SIHstActProt 1": NAV200-protocol

could be used to configure the active protocol. In both cases without automatic saving. The switch is done after Logout ("sMN Run").

First response to mNPOSGetPose sometimes has weird pose coordinates

In combination with "continuous localization" the first response to mNPOSGetPose sometimes has weird pose coordinates. If "initial localization" has finished, the first pose must be valid. This has been fixed.

Firmware V1.22.0

New Features

Improved Cybersecurity

For an improved Cybersecurity the password maybe changed for the access levels Maintenance and Authorized Clients. To reset the passwords it is sufficient to perform a "LoadFactoryDefaults" in SOPAS ET. Attention: This will also reset all other setting as the IP address. Performing "LoadApplicationDefaults" is not sufficient. The best way is to save the settings into a *.sdv file before performing the "LoadFactoryDefaults" . It is possible to perform a "LoadFactoryDefaults" already at the level "Authorized client" if the password is not changed (client) or the current passwort is available. If the password for "Authorized client" is unknown, then the SICK service has to be contacted for further assistance.

Improvements

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Bug fixes

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Known issues

No known issues

Contact us

Product website

<https://www.sick.com/nav3xx>