

# LD-OEM15xx & LD-LRS36xx- Firmware release information 1.X.X

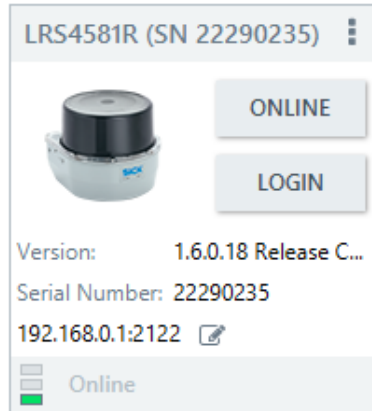
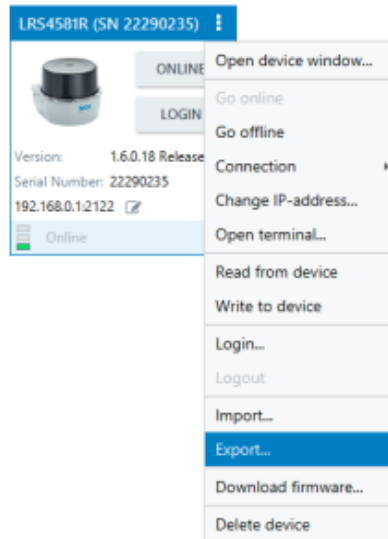
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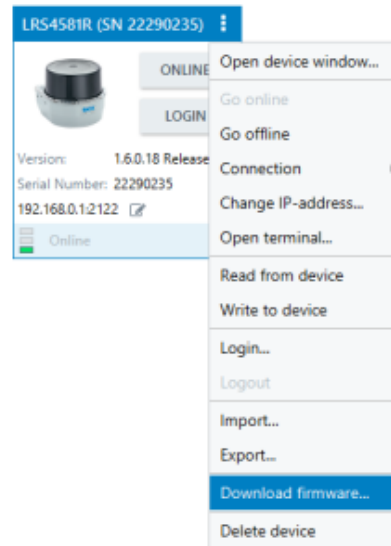


# Update Instructions

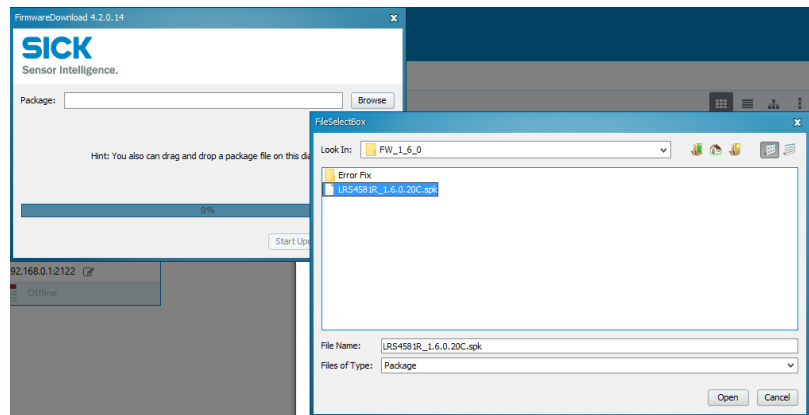
 Downgrade of firmware versions is not allowed and not possible!

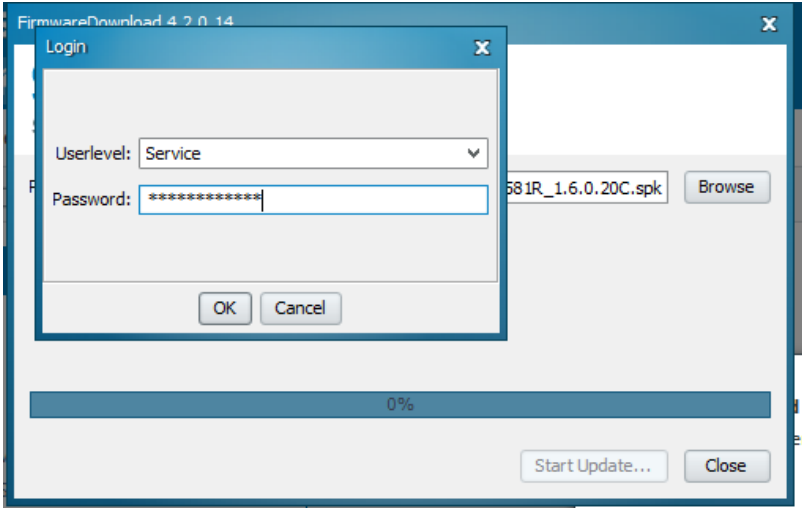
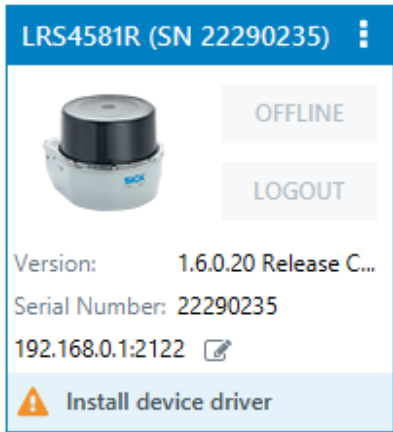
1	Save and unpack the firmware files on your local hard disk (please use full admin rights on your PC).	
2	Make sure your LiDAR is connected via Ethernet to your PC, in the same subnet and booted up. Power supply must remain stable during the update process.	
3	Use SOPAS ET or AppManager for firmware 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.



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

# General Information

This release notes cover the following devices

- LD-OEM15xx
- LD-LRS36xx

If possible try to update the device via Ethernet. A FW-Update via the Serial communication interface (RS232 or 422) takes a long time. Also uploading the sdd file from the device to SOPAS, should be done, if possible, via Ethernet or installing it via Internet or via downloaded sdd file from the TKB. Serial will work, but like by the FW-update , it takes along time.

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# Firmware V1.81.4

## New Features

### Add CoLa parameter to disable USP port

For Cybersecurity reasons it should be possible to deactivate the USP port. For this add new boolean CID parameter "EtherUspEnabled" with CommName ElUspEnable, access level AuthClient, read/write, ParamEEProm, default true. During bootup the USP port is opened depending on this variable. LDxxxx device types without USP port are not affected by this change.

### UI support of USP disable functionality

Implement SOPAS ET Checkbox for disable USP port implemented at page "Ethernet settings" and add also tooltip and info text.

### UDP-Protokoll for LD-LRS36xx

UDP has been implemented for LD-LRS36xxx series. Settings can be done at "Ethernet settings" / "Ethernet UDP/IP"

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## Improvements

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## Bug fixes

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# Firmware V1.81.2

## New Features

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## Improvements

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## Bug fixes

### **Scans distorted at USP protocol in Firmware V1.81 and V1.81.1**

A distorted scan USP protocol which happens mostly with moved scanners, but could also be reproduced with not moved scanners with many invalid scan points. This has been corrected.

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# Firmware V1.81.1

## New Features

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## Improvements

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## Bug fixes

**Very few LD-LRS lost their calibration data, therefore theses preventive measures have been introduced.**

The change comprised:

- After writing of calibration values, the data is re-read and double-checked.
  - A backup of the calibration values is created and will be loaded if necessary.
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# Firmware V1.81.0

## 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 password is available. If the password for "Authorized client" is unknown, then the SICK service has to be contacted for further assistance.

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### Improvements

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### Bug fixes

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## Known issues

- Inaccurate field evaluation swap in SOPAS ET GUI
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## Contact us

### Product website

<https://www.sick.com/ld-oem>

<https://www.sick.com/ld-lrs>