

LabVIEW driver history for the R&S® SLG Satellite Load Generator

Products:

| R&S® SLG



Driver history for LabVIEW

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1 Supported Instruments

In the following table the supported R&S instruments and firmware versions are listed:

| Which instruments are supported? | | |
|--|---------------------------|--|
| Current revision of instrument driver supports these instruments and firmware versions: | | |
| Instrument | Supported Firmware | Remarks |
| SLG | 1.10 | The driver is not suited for firmwares older than 1.10 |

2 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

2.1 Installation on a Windows machine

The driver is distributed as a WinZip self-extracting executable file. Installer supported operation systems: WinXP, Win7, Win8, Win10.

Preconditions:

- LabVIEW 2010 or newer installed
- Any VISA installed – R&S VISA 5.5.4 or newer / NI VISA 5.4 or newer

When you start the driver WinZip installer, the following steps are being performed:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: **C:\temp\rsslg-lv-1.3.0**
The driver is compiled in LabVIEW 2010 32-bit. From there you can copy to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite the data in this temporary folder.
2. After unpacking, the **Installer.vi** is automatically started in the last opened version of LabVIEW.
In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to use the driver. If that's not the case, cancel the installation at this point, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.
3. On the installer options page you have a choice to uncheck the **Mass-compiling** option (**not recommended, because of the driver's performance penalty as well as VIs opening times**) and also you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not function.
On this page you also see the actual LabVIEW version.
Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
4. The LabVIEW is closed and after starting it again the driver is ready for use.

2.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine doesn't need to have LabVIEW installed.**

After the **Step 1** from the previous chapter is finished, copy the content of the temporary folder to your target machine and start the **Installer.vi** manually. From that point onwards, the installation process is the same as described in the previous chapter Steps 2, 3, and 4

3 LabVIEW driver history

| rsslg Instrument Driver | | |
|----------------------------|---------|---|
| Driver history for LabVIEW | | |
| Revision | Date | Note |
| 1.3.0 | 01/2016 | Support for firmware 1.10 Breaking change: Renamed ISDBS2 mode to ISDBS3 |
| 1.2.1 | 11/2016 | Updated: Configure Transmission Mode.vi - New values in Transmission Mode parameter Configure Input Channels.vi - New values in Format parameter |
| 1.2.0 | 10/2016 | Added: Configure Lock.vi Updated: Configure Output.vi - New value in Band parameter Configure Output Channel.vi - New values in Carrier Type parameter Configure Input Channels.vi - New values in FEC Rate parameter |
| 1.1.1 | 01/2015 | Express VI 3.0.1 with the support for Quick Drop SCPI command searcher Updated: Configure Output Channel.vi - Frequency range changed Configure Command Communication.vi Configure Data Communication.vi Bug fixed in repeated capability formatting |
| 1.1.0 | 10/2014 | * Updated for firmware 1.05 * Express VI version 1.50 |
| 1.0.0 | 01/2014 | * Initial release |

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