LabVIEW driver history for the R&S® Vector Network Analyzers

ZNA

ZNB

ZNBT

ZND

ROHDE&SCHWARZ

Make ideas real

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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?		
Instrument	**Supported Firmware**	**Remarks**
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ZNB	3.70	
ZNC	2.94	
ZND	3.70	
ZNBT	3.70	

2 Revision history

Version 3.70.1 / 09 – 2024

Updated:
Calibration Auto Type Simplified.vi - Value PFOP added to range table
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Version 3.70.0 / 07 – 2024

Update for ZNA FW 2.92
Update for ZNB FW 3.70
New Core 7.10.0

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Version 3.46.0 / 01 – 2023

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Version 3.45.0 / 11 – 2022

Update for ZNB FW 3.45
New Core 7.4.0

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Version 3.35.1 / 03 – 2022

Updated:
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Version 3.35.0 / 12 – 2021

Update for ZNA FW 2.30
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Spectrum (Class)
Gain Compression (Class)

Harmonic Measurement (Class)
Linearity Deviation (Class)
Power ALC (Class)
Advanced (Class)
Noise Figure (Class)
Mixer Phase (Class)
Direct Generator Receiver Access (Class)
Rear LO Out (Class)
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Mixer Delay Measurements (Class)
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Version 3.30.0 / 08 – 2021

Update for ZNB FW 3.30
New core 7.4.0
New:
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Version 3.11.0 / 08 – 2020

New core 6.70.x
New:
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Test (Class)
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Fixture Modeling (Class)
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Version 2.50.1 / 07 – 2019

* Fixed OPC-synchronization bug

Version 2.50.0 / 01 – 2019

Added compatibility support for R&S ZNA Network Analyzer
Modified:
Added prefix '_' to all private VI names

Version 2.42.0 / 01 – 2018

Modified:
Changed "Block Data" array parameter to content of a "Touchstone File":
Configure Virtual Network Balanced Data.vi
Configure Virtual Network Differential Match Data.vi
Configure Virtual Network Single Ended Data.vi
Fixed conversion of data array to Single Float in:
Write Calibration Data Port.vi
Write Calibration Data.vi
Write Memory Trace Data Extended.vi
Write Switch Matrix Calibration Data Port.vi
Write Switch Matrix Calibration Data.vi
Fixed bug when sending SCPI commands with parameters in apostrophes e.g. in attribute
RSVNA_ATTR_CHANNEL_NAME

Version 2.41.0 / 11 – 2017

Modified:
Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons
changed all *.mnu palette file names from 'dir.mnu' to '.mnu'
fixed data binary transfer in _Write Trace Data.vi for non-VX-11 interfaces.
added rsvna_queryDataUnknownLengthString_ReadCallback:
RSVNA_ATTR_FILE_RECALL_SET_CATALOG
RSVNA_ATTR_TRACE_CHANNEL_CATALOG
RSVNA_ATTR_TRACE_CHANNEL_CATALOG_BALANCED_PORTS
RSVNA_ATTR_TRACE_CATALOG
RSVNA_ATTR_TRACE_NAME_CATALOG
RSVNA_ATTR_TRACE_RESPONSE_S_DATA_CATALOG
RSVNA_ATTR_CALIBRATION_CONNECTOR_TYPE_CATALOG
RSVNA_ATTR_CHANNEL_CATALOG
RSVNA_ATTR_DISPLAY_DIAGRAM_AREA_CATALOG
RSVNA_ATTR_DISPLAY_TRACE_DIAGRAM_AREA_CATALOG

Version 2.40.0 / 04 – 2017

Exchanged Driver Core 6.7.0 that supports Simulation mode and Logging
Changed Icons strip and Palette Icons
Cleaned up all the Front Panels and Block Diagrams
Fixed Option checking bug
Analyzer port number extended from 8 to 24

New VIs:
Trace Export Data Ports Variable.vi
Write Command with OPC sync.vi
Query with OPC sync.vi

Breaking changes:
Configure Calibration Standard.vi - deleted, replacement is Configure Calibration Standard Extended.vi

Version 2.30.1 / 12 – 2016

Increased port count from 8 to 24

Version 2.30.0 / 11 – 2016

New instrument driver core with full Simulation support and no dynamically called VIs.
Added more rigorous check for Repeated Capabilities
New VIs:
Clear Status.vi
ID Query Response.vi
Process All Previous Commands.vi
Query OPC.vi
Set Fast Sweep Mode.vi
Breaking changes:
Add Calibration Kit Auto.vi - added Timeout to API
Calibration Auto Simplified.vi - added Timeout to API
Calibration Auto Type Simplified.vi - added Timeout to API
Calibration Auto Type.vi - added Timeout to API
Calibration Auto.vi - added Timeout to API
Configure Calibration Kit Auto.vi - added Timeout to API
Modified VIs:
Select Ratios.vi - SCPI command parameters corrected for Ratios 2 (b2/a2 Src Port 2) and 3 (b1/a2 Src Port 2)
Recall Set Manager.vi - when loading Recall Set, dynamic repeated capabilities are synchronized with instrument's state

Version 2.22.0 / 09 – 2016

New driver automatic installer
All VISA resource name inputs are mandatory
Improved error handling
Changed allowed number of ports from 4 to 24
Changed Path Controls in Read To File From Instrument.vi and Write From File To Instrument.vi from Path to String

Version 2.21.0 / 10 – 2015

New VIs:
Select Power Sensor Measurement.vi
Configure Frequency Min Max.vi
Configure Display Update.vi
Display Update Once.vi
Write Instrument Data.vi
Configure Marker State.vi
Modified VIs:

Select Ratios.vi - SCPI command parameter array corrected
Line 3 (MM) Standard SCPI command parameter (value 9) corrected in these VI:
Query Calibration Unit Characterization Data.vi
Configure Calibration Standard.vi
Configure Calibration Standard Ext.vi
Load Calibration Kit.vi
Configure Calibration Standard With Label.vi
Load Calibration Kit With Label.vi
Read Calibration Kit With Label S-Parameter Data.vi

Version 2.20.2 / 01 – 2015

New:
Express VI 3.0.1 with the support for QuickDrop SCPI command searcher
Modified VIs:
Activate Power Calibrations.vi - added Channel control to front panel
Connector Types Catalog.vi - removed repeated capability from attribute
Configure Source Power Calibration Slope.vi - fixed wrong attribute used
Print.vi - bug fixed
Configure User Defined Preset Calibration.vi - bug fixed

Version 2.20.1 / 12 – 2014

Added support for ZND instrument
Attribute Express VI version 2.50

Version 2.20.0 / 07 – 2014

Support for firmware version 2.20

Attribute Express VI version 1.10
New VIs:
Configure Logical Port Reference Impedance Default.vi
Delete Memory Trace All.vi
Delete Memory Trace All Channel.vi
Configure Calibration Standard Exttended.vi
Configure Calibration Delay Mode.vi
Load Calibration Kit With Label.vi
Read Calibration Kit With Label S-Parameter Data.vi
Configure RFFE Settings.vi
Configure RFFE Command.vi
Configure GPIO.vi
Query Sweep Sequencer Count.vi
Delete All Sweep Sequencer Items.vi
Configure Sweep Sequencer RFFE Command .vi
Configure Sweep Sequencer GPIO Voltage.vi
Configure Sweep Sequencer Delay Time.vi
Define Parallel Measurement Port Group.vi
Configure Parallel Measurement Port Group Name.vi
Configure Parallel Measurement Number Of Ports.vi
Configure Parallel Measurement DUT Port .vi
Configure Offset Compensation.vi
Define Virtual Network Port Set.vi

Import Fixture Compensation.vi
Export Fixture Compensation.vi
Configure Remote Encoding.vi
Query Program Return Value.vi

Modified VIs:
Removed range checking of attribute RSVNA_ATTR_STIMULUS_INTERNAL_SOURCE_POWER
Trace Export Data Ports.vi - changed API
Configure Calibration Standard With Label.vi
Configure Virtual NetworkSingleEndedPort.vi
Configure Virtual Network Single Ended Circuit Model.vi
Configure Virtual Network Balanced Port.vi
Configure Virtual Network Balanced Circuit Model.vi
Configure Virtual Network Port Pair.vi
Configure Virtual Network Port Pair Circuit Model.vi
Configure Virtual Network Ground Loop.vi
Configure Virtual Network Ground Loop Circuit Model.vi

Version 1.93.0 / 10 – 2013

Support for firmware version 1.93
New VIs:
Trace Import Data Auto Distribute.vi
Query Calibration Data Parameters Specific.vi
Query Calibration Data Parameters Port Specific.vi
Query Source Power Calibration Data Parameters Switching Matrix.vi
Define Virtual Network Port Pair.vi
Delete Virtual Network Port Pair.vi
Configure Virtual Network Port Pair State.vi
Configure Virtual Network Port Pair.vi
Configure Virtual Network Port Pair Circuit Model.vi
Load Port Pair Circuit Model Data.vi
Configure Virtual Network Ground Loop State.vi
Configure Virtual Network Ground Loop.vi
Configure Virtual Network Ground Loop Circuit Model.vi
Load Ground Loop Circuit Model Data.vi
Configure Virtual Network Differential Match State.vi
Configure Virtual Network Differential Match.vi
Configure Virtual Network Differential Match Data.vi
Configure Virtual Network Differential Match Circuit Model.vi
Load Differential Match Circuit Model Data.vi
Configure Remote Preset.vi
Modified VIs:
Query Source Power Calibration Data Parameters.vi

Version 1.90.0 / 08 – 2013

Support for firmware version 1.90
New VIs:
Select Balanced Ports S-Parameters.vi
Trace List Balanced Ports.vi
Select Calibration Type Extended.vi
Load Calibration Kit By Gender From File.vi
Load Calibration Kit By Gender From Pool.vi
Query Calibration Kit Data.vi

Query Calibration Kit Info.vi
Configure Virtual Network Balanced Data.vi
Configure Virtual Network Single Ended Data.vi
Query Switch Matrix Relay Count.vi
Configure User Defined Physical Port.vi
Delete User Defined Physical Ports.vi
RSVNA_ATTR_INIT_WAIT_STATE
RSVNA_ATTR_LOGICAL_PORT_ALINGMENT
Modified VIs:
Select Calibration Type.vi
Configure Virtual Network Single Ended Port.vi
Configure Sweep Number Of Points.vi - range fixed

Version 1.80.0 / 03 – 2013

Support for firmware version 1.80

New VIs:
Add Calibration Kit Auto.vi
Generate Default Calibration Auto Assignment With Detection.vi
Configure Marker Target Format.vi
Configure User Defined Preset Calibration.vi
Query All Calibration Auto Assignment Count.vi
Save AGC Learning Results.vi
Start AGC Learning Sweep.vi
Configure Calibration Auto Averaging.vi
Modified VIs:
Generate Default Calibration Auto Assignment.vi
RSVNA_ATTR_CALIBRATION_CONNECTOR - bug fixed (affected VI Configure Connector.vi)
Configure Virtual Network Single Ended Port.vi
Configure Virtual Network Single Ended Circuit Model.vi
Create Trace S-Parameters Group.vi

Version 1.70.0 / 12 – 2012

Support for firmware version 1.70

Switch Matrix Support
Calibration Auto Assignment support
Logical Ports
Port Groups
New VIs:
Create Trace S-Parameters Group.vi
Configure Time Gate Offset Activation.vi
Clear Limit Check Results.vi
Clear Ripple Limit Global Check Result.vi
Clear Circle Limit Check Result.vi
Query Sweep Segment Number.vi
Query Calibration Ports State.vi
Configure Port Connector Types.vi
Query Calibration Data Parameters Count.vi
Configure External Power S Parameter Correction.vi
Configure Calibration Kit Auto.vi
Query Source Power Calibration Data Parameters.vi
Query Source Power Calibration Data Parameters Count.vi

Configure Receiver Power Attenuation.vi
Configure Receiver Frequency Conversion.vi
Configure Mixer Input Signal.vi
Configure Calibration Manager State.vi
Configure UI Data Flow Direction.vi
Configure UI Output Ports State.vi
Configure UI Digital Signal.vi
Modified VIs:
Define Balanced Port.vi - calls into new VI Define Logical Port.vi
Delete Balanced Port.vi - calls into new VI Delete Logical Port.vi
Delete All Balanced Ports.vi - calls into new VI Delete All Logical Ports.vi
Select Calibration Type.vi - added new calibration types
Configure Mixer Power.vi

Version 1.61.0 / 05 – 2012

Support for ZNB, ZNC firmware version 1.61

New VIs:
Show Circle Limits.vi
Configure Circle Limit Check.vi
Configure Circle Limit Line.vi
Query Circle Limit Check Result.vi
Configure Zoom Overview.vi
Configure Layout Simplified.vi
Configure Layout.vi
Join Layouts.vi
Configure Calibration Standard With Labels.vi
Configure Calibration Kit With Label.vi
Configure Calibration Kit User Connector Type With Label.vi
Calibration Kit Catalog With Label.vi
Calibration Standards Catalog With Label.vi
Configure Calibration Kit Label With Label.vi
Delete Calibration Kit With Label.vi
Export Kit With Label.vi
Query Available Calibration Data Catalog.vi
Query Available Calibration Data Catalog Port.vi
Configure Sweep Meas Delay Insertion Point.vi
Configure Intermodulation Cal Source Port.vi
Temporary Disable Option.vi
New Attributes Only:
RSVNA_ATTR_CIRCLE_FAIL_BEEP
RSVNA_ATTR_DISPLAY_TRACE_INFO_STATE
RSVNA_ATTR_ADJUST_TIME_GATE
Modified VIs:
Configure AGC.vi
Configure AGC Segment.vi

Version 1.50.0 / 04 – 2012

Support for ZNB, ZNC firmware version 1.50

Support for firmware version 1.50
New subsystems:

Mixer (option K4)
Intermodulation Measurements (option K14)
Fixture Compensation
ENA support (AUX Trigger and Universal Interface)
Automatic Gain Control
Modified VIs:
Start Calibration.vi - added Power Meter
Configure Marker Bandfilter Search Mode.vi - added None search mode
New VIs:
Query Frequency Range.vi
Configure Average Mode.vi
Activate Power Calibrations.vi
System Version.vi
set Check Status.vi
Configure Split Type.vi
Configure Split Grid.vi

Version 1.40.0 / 01 – 2012

Support for ZNB, ZNC firmware version 1.40

Modifications:
New subsystems:
Power Added Efficiency
Source Power Calibration
Reciever Power Calibration
Power Meter Transmission Coefficients
Port Config
External Devices
Modified functions
Configure DC Range.vi - parameters changed
Configure Acquisition.vi - attributeATTR_SWEEP_MODE_CONTINUOUS_ALL_CHANNEL added
Select Calibration Type.vi - bug fixed
Calibration Auto Type.vi - Parameters - Full N-port for SMARTerCal added
Calibration Auto Type Simplified.vi - Parameters - Full N-port for SMARTerCal added
Query Calibration Connection.vi - Channel ignored
Configure Connector.vi - BNC added
Save Calibration Kit.vi - repaired, delete changed to save
New functions:
Trace Delete All.vi
Trace Delete All Channels.vi
Trace Response Data All S-Data.vi
Trace Response S-Data Catalog.vi
Trace Response Single Sweep Data First Last.vi
Configure Power Start Stop.vi
Configure Sweep Stimulus Axis.vi
Configure Sweep Segment X-Axis.vi
Calibration Auto Power.vi
Configure Calibration External Power Meter.vi
Query Calibration Unit Characterizations Standards.vi
Read Calibration Data Port.vi
Write Calibration Data Port.vi
Query Calibration Stimulus Frequencies Port.vi
Query Calibration Data Parameters Port.vi
Configure Calibration Kit Password.vi
Save Calibration Kit.vi
Configure Touchscreen Lock.vi

Configure User Key Function.vi
New Attribute only:
RSVNA_ATTR_LOAD_MATCH_CORRECTION_STATE
RSVNA_ATTR_CALIBRATION_ALL_CHANNELS_STATE
RSVNA_ATTR_DISPLAY_TRACE_COLOR_FOR_LIMIT_LINES
RSVNA_ATTR_DISPLAY_COLORIZE_FAILED_SEGMENTS
RSVNA_ATTR_DISPLAY_SHOW_FAILED_SYMBOLS
RSVNA_ATTR_CALIBRATION_AUTOMATIC_POWER_REDUCTION
RSVNA_ATTR_STATISTICAL_COMPRESSION_POINT_RESULT_STATE
RSVNA_ATTR_DISPLAY_FREQUENCY_INFO_STATE
RSVNA_ATTR_DISPLAY_CHANNEL_INFO_STATE
RSVNA_ATTR_DISPLAY_ALL_MARKERS_SAME_COLOR
RSVNA_ATTR_DISPLAY_TRACE_COLORS_PER_DIAGRAM
RSVNA_ATTR_DISPLAY_FONT_SIZE
RSVNA_ATTR_NUMBER_OF_TEST_PORTS
RSVNA_ATTR_SOURCE_POWER_CALIBRATION_OTHER_SOURCES
RSVNA_ATTR_CALIBRATION_AUTOMATIC_MEMORY_STATE
RSVNA_ATTR_DISPLAY_HARDKEY_PANEL_STATE
RSVNA_ATTR_DISPLAY_MENU_BAR_STATE
RSVNA_ATTR_DISPLAY_STATUS_BAR_STATE
RSVNA_ATTR_DISPLAY_SOFTTOOL_PANEL_STATE
RSVNA_ATTR_DISPLAY_TITLE_BAR_STATE
RSVNA_ATTR_DISPLAY_TOOLBAR_STATE
RSVNA_ATTR_REPEAT_PREVIOUS_CALIBRATION_CURRENT

Version 1.20.0 / 07 – 2011

Support for ZNB, ZNC firmware version 1.20

Version 1.0.0 / 06 – 2011

Initial release

3 Installation of the LabVIEW driver

Before you start the installer, close your LabVIEW application.

Installation on a Windows machine

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

Preconditions:
- LabVIEW 2015 or newer installed
- Any VISA installed – R&S VISA 5.12.3 or newer / NI VISA 18.0 or newer

When you start the driver WinZip installer, it performs the following steps:

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\rsvna-lv2015-3.70.0`**
   The driver is compiled in LabVIEW 2015 64-bit. From there you can copy it 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 all the data in that temporary folder.

2. After unpacking, the **Installer.vi** automatically starts 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 install the driver. If that is not the case, cancel the installation, 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 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 properly function.
   Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.

4. If you have an older rsidr_toolbox, the installer updates it to the last version.
5. The LabVIEW is closed and after starting it again, the driver is ready for use.

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 does not need to have LabVIEW installed.**
After the **Step 1** (see the chapter 2.1), 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 Steps 2, 3, 4 and 5.

To be able to use Rohde & Schwarz **rsvna** Instrument driver in Linux or macOS, the functioning VISA is required. Check out R&S VISA for Linux or macOS.

4 Customer support

Technical support – where and when you need it
For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information
Contact our customer support center at www.rohde-schwarz.com/support
or follow this QR code: