

How to use R&S®CMW500 and R&S®CMW270 Drivers Driver Documentation

Products:

- | R&S®CMW270
- | R&S®CMW500

How to use LabWindows/CVI, LabVIEW
and VXPlug&Play drivers for VEE, C++,
C#, Visual Basic, Visual Basic.NET etc.

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1 LabWindows/CVI

1.1 CVI Version

Use National Instruments LabWindows/CVI 6 or later.

1.2 How to use

Add also following files to your project:

- rsidr_core.c
- rsidr_core.h
- rscmwxx_attributes.c
- rsxmwx_attributes.h
- rsxmwx_utility.c
- rscmwxx_utility.h

1.3 Additional Help

The LabWindows/CVI instrument driver consists of a ZIP archive containing the driver sources. In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources.

2 LabVIEW

2.1 Getting Started

Unpack content of archive into LabVIEW root folder (i.e. \Program Files\LabVIEW 8.0). The driver will then be directly accessible from LabVIEW Instrument Driver function palette menu.

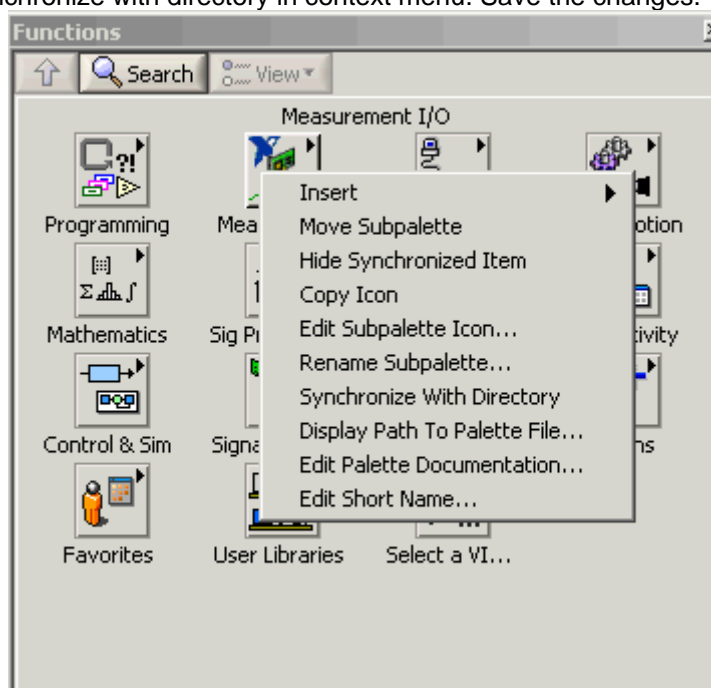
Attribute Browser Express VI is accessible from Express VI User Libraries palette menu.

2.2 LabVIEW settings

For best results please **turn off 'Synchronize with directory'** feature on Instrument Drivers palette before installing any Rohde & Schwarz LabVIEW driver. If this feature is turned on, it overwrites driver's palette files with its own.

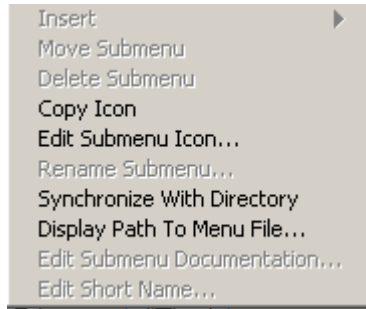
2.2.1 LabVIEW 8 and later

Turn off "Synchronize with directory" feature: Tools => Advanced => Edit palette set. Then find "Instrument I/O" palette, right click on it and clear checkbox besides Synchronize with directory in context menu. Save the changes.



2.2.2 LabVIEW 7

Turn off "Synchronize with directory" feature:
Tools->Advanced->Edit palette views. Then find "Instrument I/O" palette => Instr Drivers right click on it and clear checkbox besides Synchronize with directory in context menu. Save the changes.



2.3 Additional Help for LabVIEW drivers

The LabVIEW instrument driver consists of a ZIP archive containing the driver sources (LLB and MNU files). In addition, the instrument driver documentation is included in compressed HTML format (Windows CHM help file) stored together with the LV driver sources.

Each VI's help is linked to the section in the "CHM" file that describes all the features of the VI.

2.4 LabVIEW 7.1 driver

Please use the LabVIEW 7 driver.

2.5 LabVIEW 8.2 and 8.5 drivers

Please use the LabVIEW 8 driver.

3 VXIplug&play Instrument Driver for VEE, C++, C#, Visual Basic, Visual Basic .NET etc.

3.1 C#

A wrapper is necessary to enable a direct access to the driver DLL. The rscmwxx.cs wrapper for C# is automatically installed in the ~VXIpnP\WinNt\include directory.

3.2 Visual Basic .NET

A wrapper is necessary to enable a direct access to the driver DLL. The rscmwxx.vb wrapper for .NET is automatically installed in the ~VXIpnP\WinNt\include directory.

3.3 VEE Version

Use VEE 6 or later.

3.4 LabWindows/CVI

The driver is supplied as both a source code file and as a dynamic link library file (dll). There are several advantages to using the dll form of the driver. These include:

1. Transportability across different computer platforms
2. Faster load time for your project

LabWindows/CVI by default will attempt to load the source version of the instrument driver. To load the dll you must include the file rscmwxx.fp in your project. This file can be found in the vxipnp\winnt\rscmwxx directory. Do not include rsCMWxx.c in your project. You must also provide an include path for rscmwxx.h. This is done by adding the directory ~vxipnp\winnt\include to the include paths (CVI Project Option menu) if

you have not already done so. The ~ refers to the directory in the VXIPNP variable. By default this is set to C:\.

3.5 Additional Help

In addition, the instrument driver documentation is also included in compressed HTML format (Windows CHM help file) and stored together with the driver sources in the ~\VXIpnP\WinNT\rscmwxx directory.

3.6 Additional Information

For more information regarding the VXIPnP instrument drivers, please read the readme.txt file that comes with each driver.

About Rohde & Schwarz

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