

Products: R&S CompactTSVP, R&S GTSL, NI LabVIEW 8

Deployment of LabVIEW Drivers for the R&S CompactTSVP

Application Note

This application note describes the procedure used to install and deploy the LabVIEW driver libraries for the R&S CompactTSVP.
All available wrapper VIs of *.DLL files from the R&S GTSL (Generic Test Software Library) development framework are now conveniently accessible via the LabVIEW menu item "user.lib".
This common recipe also allows all upcoming versions of the R&S GTSL to be deployed, for safe and seamless updating of future R&S GTSL enhancements.



Subject to change - Daniel Seemann 2007-11 - Application Note 1SP805_2E

Contents

- 2 Introduction
- 3 Copying the “user.lib” Directory
- 4 Accessing the Rohde & Schwarz User Libraries
- 5 List of R&S GTSL Files available via Shared Library Import

Introduction

The R&S GTSL Setup CD provides instrument drivers and programming support for all Rohde & Schwarz modular instrumentation modules of the R&S CompactTSVP product family.

Ordering information: R&S GTSL [Version]
Setup CD for R&S TS-LBAS
ID: 1143.4105.00

The drivers contain all the functions that IVI and VXIplug&play require. In addition, the drivers contain high-level functions that configure the instruments or control the switching paths to interconnect DUT signals. The drivers also contain lower-level functions that initiate acquisition procedures or handle special features of the modules.

All drivers require the VISA 2.5 or later and the IVI engine 1.83 or later.

Please see the file **readme.txt** on the R&S GTSL Setup CD for further installation details.

The National Instruments LabVIEW version used to compile this document:

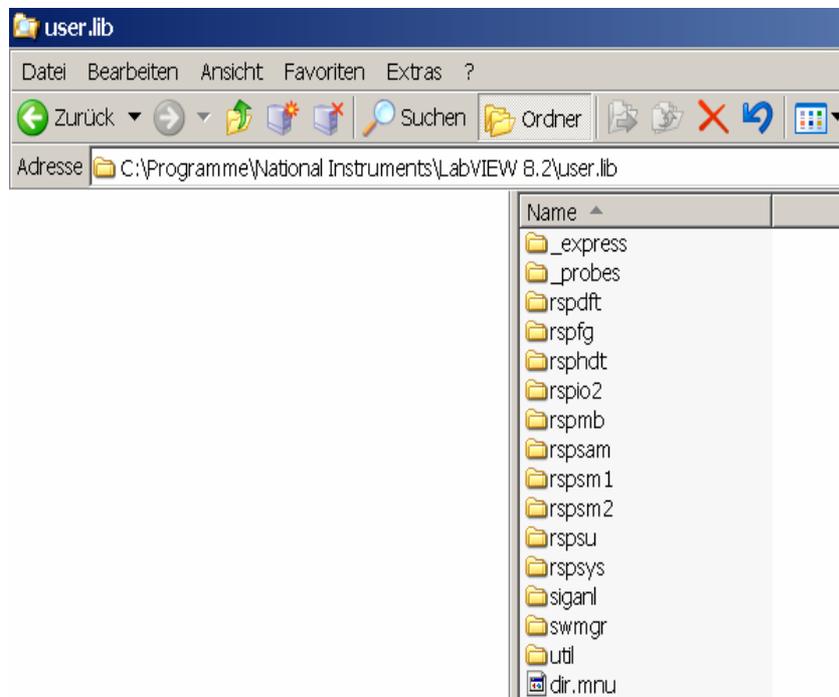


Copying the "user.lib" Directory

The installation of the LabVIEW wrapper VIs is a very simple procedure. Verify the NI installation directories by using MS Windows Explorer. The default location of the NI LabVIEW graphical development platform should be:

X:\Program Files\National Instruments\LabVIEW 8.2

Copy the "user.lib" directory containing all R&S GTSL (Generic Test Software Library) subdirectories for LabVIEW to this location as shown below.

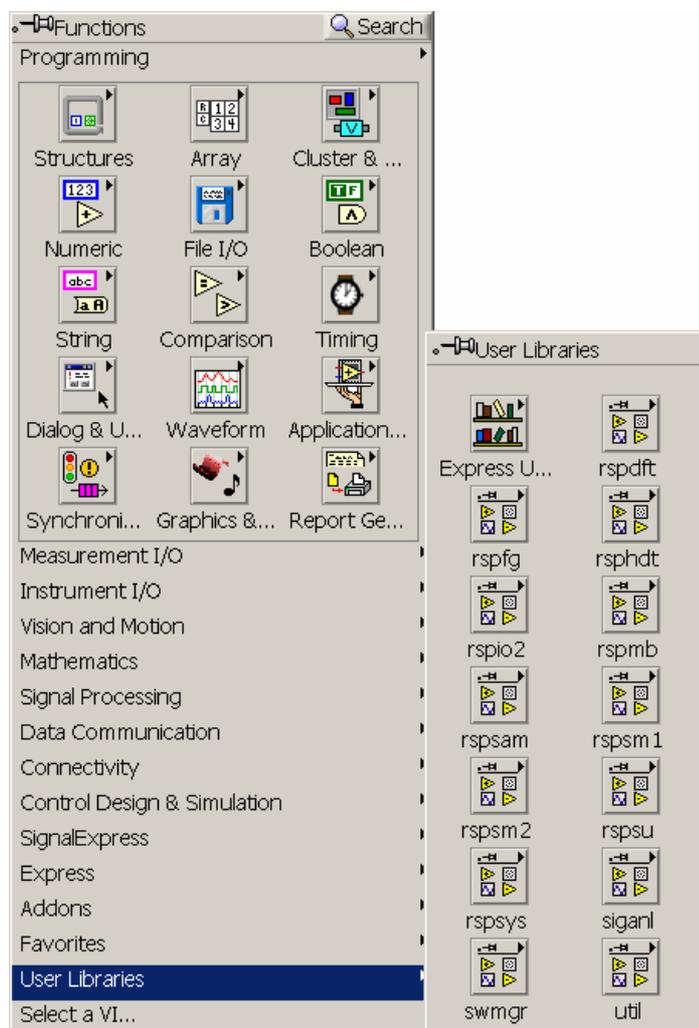


Browse to the destination of the R&S GTSL subdirectories as shown in the above screenshot and copy the contents to "user.lib".

Accessing the Rohde & Schwarz User Libraries

After the next launch of LabVIEW, you can now conveniently access the libraries for the R&S CompactTSVP.

Simply open the "Functions" fly-out menu from the **Block Diagram** panel by right-clicking your mouse. Now open the "User Libraries" menu item and select the appropriate module-specific driver for R&S CompactTSVP test & measurement hardware and analysis tools.



Please note:

The detailed help for every driver VI of the R&S GTSL is provided by a corresponding help file. You may find all related help files inside their default directory of the R&S GTSL installation:

X:\Program Files\Rohde&Schwarz\GTSL\Bin

References

National Instruments LabVIEW Help

Rohde&Schwarz GTSL Online Help

List of R&S GTSL Files available via Shared Library Import

GTSL driver file overview		Ver. 2007-06-26	
Prepared by Daniel Seemann			
Driver library	Help file	HW supported	
1.	audioanl.dll	audioanl.hlp	analyse audio waveform, license TS-LAA
2.	dcpwr.dll	dcpwr.hlp	TS-PSU, IVI_DCPWR
3.	dmm.dll	dmm.hlp	TS-PSAM, NI PXI 4060, IVI_DMM
4.	funcgen.dll	funcgen.hlp	TS-PFG, IVI_FGEN
5.	resmgr.dll	resmgr.hlp	GTSL resource manager, required for IVI based libs
6.	route.dll	route.hlp	Sophisticated switching support for TSVP, TS-LSRL software license
7.	rscan.dll	rscan.hlp	TS-PSYS1, IXXAT CAN controllers, e.g. USB-to-CAN
8.	rspam.dll	rspam.hlp	TS-PAM
9.	rspdft.dll	rspdft.hlp	TS-PDFT
10.	rspfg.dll	rspfg.hlp	TS-PFG
11.	rsphdt.dll	rsphdt.hlp	TS-PHDT
12.	rspio2.dll	rspio2.hlp	TS-PIO2
13.	rspmb.dll	rspmb.hlp	TS-PMB
14.	rspsam.dll	rspsam.hlp	TS-PSAM
15.	rspsm1.dll	rspsm1.hlp	TS-PSM1
16.	rspsm2.dll	rspsm2.hlp	TS-PSM2
17.	rspsu.dll	rspsu.hlp	TS-PSU
18.	rspsys.dll	rspsys.hlp	TS-PSYS1, TS-PSYS2
19.	siganl.dll	siganl.hlp	TS-PAM, IVI_SCOPE
20.	swmgr.dll	swmgr.hlp	Switch manager, for all TSVP switch devices
21.	util.dll	util.hlp	Utility functions for GTSL



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