

# History and release notes for the R&S® SMF100A Microwave Signal Generator

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<b>SMF100A driver history</b>		
Revision	Date	Note
2.04.01	08/2007	Modifications: Fixed ID query parsing in rssmf_init for older firmware version 2.04.154
2.04.00	07/2007	Initial release for SMF FW 2.04.243

## LabWindows/CVI

### CVI Version

Use National Instruments LabWindows/CVI 5.5 or later.

### 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.

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

### VEE Version

Use VEE 6 or later.

### C#

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

### Visual Basic .NET

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

### 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\rssmf directory.

### Additional Information

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

# LabVIEW

## Getting Started

In order to use this driver as a standard LabVIEW driver, please copy the contents of ~\Xlprp\GWinNt\rssmf directory into your LabVIEW directory (~\LabVIEW\instr.lib\rssmf). The driver will then be directly accessible from the LabVIEW Instrument Driver function palette menu.

## Additional Help for LabVIEW drivers

In addition, the instrument driver documentation is included in compressed HTML format (Windows CHM help file) stored together with the LabVIEW driver sources.

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

- **LabVIEW 6.1 and higher** an additional help topic can be accessed directly by pressing "[Click here for more help](#)" in the Context Help

## LabVIEW 7.1 driver

Please use the LabVIEW 7 driver.

## LabVIEW 8.2 driver

Please use the LabVIEW 8 driver.

## Driver Manual and Instrument Operation Manual

The R&S SMF driver and instrument operation manual comprises a comprehensive **info** and **help system**. To merge the context-sensitive helps it is necessary to copy the "Compressed Online Help for R&S SMF100A" (rssmfhelp.chm) to the folder of the driver manual (rssmf.chm).

Download the Compressed Online Help for R&S SMF100A (rssmfhelp.chm) from:  
[http://www.rohde-schwarz.com/product/smf100a/downloads\\_help.html](http://www.rohde-schwarz.com/product/smf100a/downloads_help.html)

After copying the driver manual contains the instrument operating manual.

## Remote control via LAN

### Instrument Name, IP Address and Resource Name

Connect the instrument via VXI-11 build the resource name using the instrument name or the IP address.

The R&S SMF is preconfigured for networks using DHCP (dynamic host configuration protocol). In these networks, the IP address is automatically assigned. The SMF is identified via an unambiguous computer name in the network.

For more Information please see the "Compressed Online Help for R&S SMF100A" (rssmf\_help.chm). Download it from:

[http://www.rohde-schwarz.com/product/smf100a/downloads\\_help.html](http://www.rohde-schwarz.com/product/smf100a/downloads_help.html)

### Using the Instrument Name as Resource Name

By **default** the instrument name is composed of: RSSMF100A <Serial number> (on the rear panel of the instrument)

Example:      Serial Number = 123456  
                 Instrument Name = RSSMF100A12345  
                 Resource Name = TCPIP::RSSMF100A123456::INSTR

### Using the IP Address as Resource Name

Example      IP Address = 192.168.1.33  
                 Resource Name = TCPIP::192.168.1.33:: INSTR