

R&S®SMM100A

Release Notes

Firmware Version 4.80.041.54

PAD-TM: 3574.3288.02/04.00/CI/1/EN

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Contents

1	Information on the current version and history	3
1.1	Version 4.80.041.54.....	3
2	Modifications to the documentation	4
3	Firmware update	5
3.1	Downgrade	5
3.2	Update Information	5
3.3	Updating the Firmware.....	5
3.4	Alternative update procedures.....	6
3.4.1	Firmware update over LAN.....	7
3.4.2	Firmware update using ISO image	7
4	Customer support.....	9

1 Information on the current version and history

1.1 Version 4.80.041.54

Released: January 2021

• New Functionality

Initial firmware release. For a complete list of available functionalities and options refer to the SMM100A datasheet Version 13 released on the R&S web side.

• Modified Functionality / Changed Behavior

None

• Improvements

None

• Known Issues

None

2 Modifications to the documentation

The current documentation is up-to-date.

3 Firmware update

3.1 Downgrade

Generally, it is not recommended to use an earlier version than the latest version available. In some cases, the older versions do not support the hardware used in your instrument. Before installing this firmware, check if this could happen:

- ▶ Start System Config / Setup / Instrument Assembly / Versions/Options
- ▶ In the tab "Firmware", you find the Downgrade Info

Downgrade Info	
Package	Version
Factory Version	4.80.041.48
Min. Version	03.01.009.16

- ▶ If the version to be installed is greater or equal than the "Min.Version", the hardware will be supported after downgrading. (However, this cannot be guaranteed for all software options)
- ▶ If the version to be installed is lesser than the "Min.Version", not all of the modules will be supported. Your instrument will not work after downgrading!
- ▶ Downgrading may fail using standard rsu-Files (eg. due to changes in the instrument configuration file). In this case, press PRESET-Button during power-on or install ISO image available from service department.

3.2 Update Information

The update procedure requires that the instrument is operational. There is no need to uninstall the current firmware. Instrument settings are preserved during the update, including user data and network settings.

NOTICE

To perform this procedure, USB Storage must be enabled in security settings. Press the SETUP key, select Security and check USB Storage setting

3.3 Updating the Firmware

Required equipment

Software:Firmware update file SMM_<version-number>.rsu

Hardware: USB memory stick with enough free space to save the update file (about 630 MByte).

The memory stick does not need to be bootable and previous data on the stick is not affected. Several update files may reside on the stick in parallel. During update procedure the stick is not modified by the instrument.

Prepare Memory Stick

Download update file to a PC

Connect USB stick to PC and copy the update file to the root directory

Wait until copy procedure has finished and remove USB stick

Install new firmware on R&S®SMM100A:

Connect USB stick to instrument

Switch on instrument, if instrument is powered off

Wait a few seconds until "Process Software Update?" message box appears. Confirm by touching the YES Button or pressing the rotary knob.

Select firmware version using the arrow keys and press knob to start update


Wait until "Software update successful" message box appears. This may take several minutes


Remove USB stick and touch the Reboot button

The instrument now reboots.

Execute internal adjustments (only if indicated)

Internal adjustments can be initiated manually (e.g. after warming up) by performing the followings steps:

Press  on the instrument front panel.

Press  and execute "Adjust All". internal instrument adjustments and will take several minutes.internal instrument adjustments and will take several internal instrument adjustments and will take several minutes.internal instrument adjustments and will take several minutes.internal instrument adjustments and will take several minutes.

Adjustments requiring external measurement equipment are not affected by the firmware update and need not to be performed.

3.4 Alternative update procedures

The USB firmware update is recommended for most situations. However, alternative methods for updating the firmware are available:

3.4.1 Firmware update over LAN

Instrument settings are preserved during the update, including user data and network settings.

- Get access to the file system of the instrument using ftp (other methods like samba share is also supported, see application note 1GP72 for details).
Enter `ftp://<ip address or host name>` in file manager
- Copy SMM_<version-number>.rsu to directory update
- The update procedure starts immediately
- Execute internal adjustments, if indicated
-

3.4.2 Firmware update using ISO image

NOTICE

Potential loss of data!

User data and user specific instrument settings will be lost during this procedure. Instrument serial number, software license keys and all adjustments requiring external measuring equipment are not affected.

Required equipment

Software:

ISO image for firmware update SMM_<version-number>.iso
Please contact the service department to get this file!

Hardware:

External USB CD or DVD ROM burner with USB cable.

1 CD Recordable.

PC with burn program that can burn ISO images onto CD.

About ISO image

This is a standardized file format for creating CD images. A CD image is a single file encapsulating the whole data of a CD including directories and files. Unpacking the image to a CD restores the original data. Almost any CD burning program is able to write CDs based on ISO images.

Update procedure

Burn ISO image onto CD

On most computers, burning an ISO image can be initiated by simply double clicking the ISO image file. If this is not the case, the manual procedure is similar to the following instructions. Nero Burning ROM (StartSmart) is used in this example.

Connect the external USB CD/DVD drive to the PC

- Insert CD recordable
- Start Nero StartSmart
- Select medium „CD“
- Select „Create Data CD“
- From the Files menu, open file SMM_<version-number>.iso
- Click "Burn"
- When finished, close Nero and disconnect external USB CD/DVD drive
- Install new firmware on R&S®SMM100A
- Instrument must be switched off
- Connect the external USB CD/DVD drive to the R&S®SMM100A
- Switch on Instrument
- The instrument boots from external drive
- Follow the instructions on screen
- Disconnect the external USB device
- Reboot instrument
- Execute internal adjustments, if indicated

NOTICE

If the CD refuses to boot please ensure that you have burned the ISO-image as an "image" and not as a single file. Check the CD regarding presence of several files.

4 Customer support

Information on support contact is mandatory in each manual. Contact is the R&S Customer Support Center, or a subsidiary for specific projects.

Recommended position in manual:

- At the end of the Troubleshooting chapter
- At the end of the Maintenance chapter
- on highest chapter level in Getting Started manuals, if it has neither Troubleshooting nor Maintenance chapter

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:



Bild 4-1: QR code to the Rohde & Schwarz support page