R&S®TSMA6, R&S®TSMA6B Autonomous Mobile Network Scanner Release Notes

4900800502
Version 22

ROHDE&SCHWARZ
Make ideas real

The software makes use of several valuable open source software packages. For information, see the "Open Source Acknowledgment" provided with the product.

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4900.8005.02 | Version 22 | R&S®TSMA6, R&S®TSMA6B

Throughout this manual, R&S® is indicated as R&S.

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1 Information on the current version and history

Variants: R&S TSMA6, R&S TSMA6B

All described procedures in these release notes are valid for these variants. In this case, the general term “TSMAx” is used. For different procedures, the specific variant is mentioned explicitly.

1.1 Version 04.09.03.00

New features

Version	Contents
04.09.03.00	Deactivation of WiFi in Windows results in a status error message (WLAN and WLAN AP can not be activated via web-GUI)

Improvement

Version	Contents
04.09.03.00	R&S License Server Manager upgrade to version 2.14.0.1781
04.09.03.00	Content of firmware log file extended with an entry for the active BIOS revision
04.09.03.00	Web-GUI reports the error code of a failed R&S TSMA6x installation (firmware, software, Windows upgrade)

Solved problems

n.a

Known issues

n.a

1.2 Version 04.08.10.01

New features

n.a

Improvement

n.a

Solved problems

Version	Contents
04.08.10.01	R&S SmartOne setup failed due to wrong or missing `.NET` and `MS Redist` package

Known issues

Version	Contents
04.08.10.01	ROMES iPhone 13/14 support is not supported on R&S TSMA6/TSMA6B as Bluetooth pairing is not possible

1.3 Version 04.08.10.00

New features

Version	Contents
04.08.10.00	web-GUI: "Install" button for Debian setup (R&S TSMA6B only)

Improvement

Version	Contents
04.08.10.00	Switch to compiler version VS2022
04.08.10.00	Device Footprint: The `HotfixList` section is updated when a Windows update package is installed. The path to the device footprint file is: `C:\ProgramData\Rohde-Schwarz\TSMA\SoftwareData.xml`
04.08.10.00	ViComWeb mode: extended measurement configuration and preparation for future usage of this mode

Solved problems

Version	Contents
04.08.10.00	Power on self-test fails sporadically due to faulty LAN adapter configuration. (R&S TSMA6B only).
04.08.10.00	web-GUI: LAN adapter configuration to "DHCP" sometimes fails during power-on initialization
04.08.10.00	web-GUI: Removal of paired Bluetooth devices is not possible.
04.08.10.00	web-GUI: Option key installation - The status text is not updated and remains at "Installing scanner license key in progress..."
04.08.10.00	web-GUI: LAN configuration - The status text is not updated and remains at "Changing IP settings in progress..."

Known issues

Version	Contents
04.08.10.00	ROMES iPhone 13/14 support is not supported on R&S TSMA6/TSMA6B as Bluetooth pairing is not possible

1.4 Version 04.07.00.03

New features

Version	Contents
04.07.00.03	New mode of operation: R&S ViComWeb

Improvement

Version	Contents
04.07.00.03	WLAN adapter settings initialized with default settings after first boot up as long as no customer settings were applied
04.07.00.03	After switching the measurement mode, the web-GUI browser window is minimized and the measurement application (R&S SmartONE Expert) is in the foreground of the screen
04.07.00.03	Update R&S License Server (v2.10.1.1712) and R&S SmartCard Reader (v1.4.0.0)
04.07.00.03	Update online help
04.07.00.03	Sleep mode disabled for R&S TSMA6
04.07.00.03	One common select box for all the setup files in the web-GUI page "Update"

Solved problems

Version	Contents
04.07.00.03	Wrongly indicated measurement mode in the web-GUI during power-up (the start-up sequence is indicated in the web-GUI status line)
04.07.00.03	WLAN app crash / watchdog-triggered system reboots during periods of high CPU load
04.07.00.03	Failing reset of low battery beep alarm on R&S TSMA6B (555164)
04.07.00.03	Scanner band configuration is not possible in the web-GUI
04.07.00.03	Service sometimes does not start in R&S NESTOR probe mode

Known issues

n.a

1.5 Version 04.06.00.15

New features

Version	Contents
04.06.00.15	R&S SmartONE Debian installer bundle (version 1.12.1.0) added to firmware setup
04.06.00.15	QualiPoc selectable as default operation mode in the web-GUI after power-up
04.06.00.15	Launching Debian installation for Quectel modem from the web-GUI-Restore page with shortkey <CTRL> + <ALT> + <I>

Improvement

Version	Contents
04.06.00.15	Speeded up and reworked mode switching in the web-GUI for R&S SmartONE Standard / Expert / QualiPoc
R&S TSMA6B image stick (https://scdn.rohde-schwarz.com/ur/pws/dl_downloads/pdm/software/4901_4955_00/TSMA6B-NUC8v7PNB-W10_64Bit-ImageStick_1_03.zip)	
v1.03	Debian check added to R&S TSMA6B Image Stick v.1.03
v1.03	R&S TSMA6B Image Stick Creator tool v1.03 requests admin rights per default

Solved problems

Version	Contents
04.06.00.15	Web-GUI not accessible (device not running) after firmware update or after a restart when a Quectel modem is connected
04.06.00.15	Wrong environmental variable RS_OPERATION_MODE set when switched to "QualiPoc" mode

Known issues

n.a

1.6 Version 04.05.00.11

New features

n.a

Improvement

n.a

Solved problems

Version	Contents
04.05.00.11	R&S TSMAx SmartONE setup incomplete due to missing .NET 4.8 installation
04.05.00.11	Timeout for R&S SmartONE mode switches increased
TSMAx-EDGE-Setup	
04.02.02.02	Missing EDGE browser desktop icon

Known issues

n.a

1.7 Version 04.05.00.08

New features

Version	Contents
04.05.00.08	Sleep mode for remote management access in power down mode
04.05.00.08	Extended R&S TSMA6B web-GUI features to archive and restore a Debian installation

Improvement

Version	Contents
04.05.00.08	Blocked firmware setup on R&S TSMA devices
04.05.00.08	Revised watchdog disable feature in the web-GUI
04.05.00.08	Updated online help
04.05.00.08	Status registers of batteries are outputted in the firmware log file via new command in the web-GUI
04.05.00.08	Extended firmware log file entries
04.05.00.08	Firmware log file is accessible from the web-GUI
04.05.00.08	Removal of the obsolete R&S License Key Manager tool

Solved problems

Version	Contents
04.05.00.08	Repower with connected battery pack unit sometimes not possible after batteries were set to shipping mode due to low charge
04.05.00.08	Firmware service crashes with latest Windows updates
04.05.00.08	Wrong registry key in "SmartMonitor" mode

Version	Contents
04.05.00.08	Corrupted file system when recovering master images with a Debian installation
04.05.00.08	WLAN access point select box in the web-GUI sometimes with no entries for a client connection

Known issues

n.a

1.8 Version 04.04.00.04

New features

Version	Contents
04.04.00.04	Support of R&S TSPC-U2L2 USB2LAN adapter
04.04.00.04	Enable/disable hardware watchdog via web-GUI
04.04.00.04	List CPU board type in the web-GUI "Overview" page
04.04.00.04	Switch batteries into shipping mode when reaching critical charge (< 3 %)
04.04.00.04	**Firmware must no longer be installed on the R&S TSMA (product reached end of firmware support)**

Improvement

Version	Contents
04.04.00.04	Update .NET to v6.0
04.04.00.04	Update License Server Manager to v2.5.01660
04.04.00.04	Update R&S TSME Tools to v1.8.0.1
04.04.00.04	Update scanner interface DLLs to v49.40
04.04.00.04	Add "Windows Update" select box in the web-GUI
04.04.00.04	Increase number of firmware log files (20 log files)

Solved problems

Version	Contents
04.04.00.04	Start R&S NESTOR monitoring workspace via web-GUI not possible
04.04.00.04	IPv4 protocol sometimes unselected in network adapter settings
04.04.00.04	Windows cold start via "Power On" button does not work as expected
04.04.00.04	Keep charging LEDs on when device is powered down and battery pack is connected to external DC

Version	Contents
04.04.00.04	Unpower DC AUX output on battery pack unit when R&S TSMA6x is switched off (Ticket 407745)
04.04.00.04	Restart via SCPI command freezes display

Known issues

Version	Contents
04.04.00.04	Restore of an R&S TSMA6B user backup fails if the captured image contains a Debian installation
04.04.00.04	Restore of a captured R&S TSMA6B image fails with R&S TSMAB image stick v1.00 if it contains a Debian installation

1.9 Version 04.03.00.12

New features

Version	Contents
04.03.00.12	web-GUI: WLAN settings configurable (band, mode)
04.03.00.12	web-GUI: shows installed TSMx Windows driver update
04.03.00.12	Utilities: Windows driver update (includes driver for GNSS receiver LS2303x-UDG) and security package for R&S TSMA6 and R&S TSMA6B • https://www.rohde-schwarz.com/firmware/tsma6/ • https://www.rohde-schwarz.com/firmware/tsma6b/
04.03.00.12	Utilities: TSMA6B Image Stick v01.00 (https://www.rohde-schwarz.com/software/tsma6b/)

Improvements

Version	Contents
04.03.00.12	Selected "Mode of operation" (SmartONE Standard/Expert/QualiPoc) will be reselected after R&S SmartONE setup is finished
04.03.00.12	Execution of the R&S TSMAx-SmartONE-Setup from version 22.0 is limited to R&S TSMA6 and R&S TSMA6B platforms
04.03.00.12	web-GUI: NESTOR mode with selectable "Autostart"
04.03.00.12	Extended entries in firmware log file (`C:\ProgramData\Rohde-Schwarz\TSMA\*.log`)
04.03.00.12	Updated online help (v10 with R&S TSMA6B, v03 with R&S TSMA6B)

Solved problems

Version	Contents
04.03.00.12	R&S NESTOR probe mode does not work via TSMA WLAN AP (RTC 917243)
04.03.00.12	Power off in scanner mode
04.03.00.12	Memory leak in firmware service
04.03.00.12	R&S TSMA6x device state indication via "Mode" LED
04.03.00.12	The R&S TSMA6x battery pack LEDs are sometimes on after power down

Known issues

n.a

1.10 Version 04.02.02.02

New features

n.a

Improvements

Version	Contents
04.02.02.02	Update online help TSMA6, TSMA6B.
04.02.02.02	User/factory restore with the option to delete the data partition `D:/`
04.02.02.02	Password confirmation required when changing WLAN key and Windows user password
04.02.02.02	TSMAx EDGE browser version is displayed in the web-GUI
04.02.02.02	SmartONE setup runs independent of PC Mode
TSMAx-EDGE-Setup	
04.02.02.01	Installs EDGE browser as default
04.02.02.01	EDGE version 93.01.961.38

Solved problems

Version	Contents
04.02.02.02	Limitation of displayed license keys in the web-GUI
04.02.02.02	Restart of "SmartONE" mode in the web-GUI via "Submit" button after application was closed
04.02.02.02	Rear panel LED indication aligned with firmware update status
04.02.02.02	Updated driver signature for PSoC MCU driver

Version	Contents
04.02.02.02	Restart after HW watchdog assert
04.02.02.02	Commanding SmartONE Expert mode "IP-Controlled" in the web-GUI

Known issues

n.a

1.11 Version 04.01.00.04

New features

Version	Contents
04.01.00.04	New measurement mode "Smart Monitor"
TSMAx-EDGE-Setup	
04.01.00.05	Dedicated TSMA6/B setup for Microsoft EDGE browser

Improvements

Version	Contents
04.01.00.04	Improved synchronization between "SmartBenchmarker" / "ROMES" launcher and measurement mode selection in the TSMAx web-GUI
04.01.00.04	"Flow Control" for TSMA6B scanner LAN ports disabled to achieve maximum data throughput
04.01.00.04	OSA document update to v03
04.01.00.04	Show paired Bluetooth devices in the web-GUI

Solved problems

Version	Contents
04.01.00.04	Web-GUI upload / download folder mix-up
04.01.00.04	Missing `RemoteViCom.apk` in download folder
04.01.00.04	Sporadic IP address mix-up of internal and external scanner port
04.01.00.04	Interface-DLL does not report controller and RF board temperature

Known issues

n.a

1.12 Version 04.00.14.05

New features

Version	Contents
04.00.14.05	TSMA6B support

Improvements

Version	Contents
04.00.14.05	Microcontroller flash with device restart
04.00.14.05	More detailed error log file
04.00.14.05	TSMA6 online help updated to v08
04.00.14.05	Disclaimer added

Solved problems

Version	Contents
04.00.14.05	Bugfix HW watchdog/freezing (Defect 800077)
04.00.14.05	Bugfix TSMA recovery (Defect 822641)
04.00.14.05	Bugfix IP address conflict (Defect 836789)
04.00.14.05	Bugfix Hang-up with locked scanner access (Defect 768170)
04.00.14.05	Bugfix Power management topics (Defect 783225)
04.00.14.05	Bugfix LAN adapter settings (Defect 783230)
04.00.14.05	Scanner database update (available options TSMA6-K50, TSMA6-K51 were not displayed) (Defect 797434, CTS Ticket 797028)

Known issues

n.a

1.13 Version 04.00.09.04

New features

Version	Contents
04.00.09.04	Web-GUI & firmware integration of "Smart Benchmarker" / "ROMES Expert" mode (679652)
04.00.09.04	TSMAx firmware migration as a 64-bit process (652378)

Improvements

Version	Contents
04.00.09.04	Update R&S SmartCard Service to v1.3.7.0 (710446)
04.00.09.04	Update R&S LicenseServer to v1.19.2 (763346)
04.00.09.04	Glitch detection for remote shut-down command (735495)
04.00.09.04	TSMA6 Online Help updated to v07 (689654)
04.00.09.04	R&S TSME Device Manager utility removed from firmware setup – a dedicated setup is available from R&S internet (https://www.rohde-schwarz.com/software/tsma/) (699751)
04.00.09.04	Firmware data log file (783261)
04.00.09.04	Improved scanner access method and application launch during start-up (783238)
04.00.09.04	Virtual Memory enabled per default (660418)

Solved problems

Version	Contents
04.00.09.04	User-specific WLAN client IP address settings are set to default after restart (677841)
04.00.09.04	Boot problems with connected WiBu USB dongle (767411)
04.00.09.04	LAN adapter settings sometimes mixed or have wrong IP address after power-up - especially for the external UsbToLAN adapters TSPC-U2L / TSPC-U2L2 (783230)

Known issues

n.a

1.14 Version 03.07.03.02

New features

Version	Contents
03.07.03.02	Change password feature added to web-GUI (647173)

Improvements

Version	Contents
03.07.03.02	Restart via web-GUI triggers a power cycle on the output ports AUX 1/2 of the Battery Pack Unit (632077)
03.07.03.02	Low battery power off is triggered with at least one battery falling below 5 % charge. (650756)
03.07.03.02	File upload size increased to 2 GB via web-GUI (667793)
03.07.03.02	Update Online Help v6 (663713)
03.07.03.02	Update .NET Framework v4.8 (644116)

Solved problems

Version	Contents
03.07.03.02	NESTOR license keys not detected after device startup (651490)
03.07.03.02	Blocked Remote Desktop access in ROMES / NESTOR mode (652421)
03.07.03.02	WLAN access point blocked when mobile phone OnePlus 7 is connected (653070)
03.07.03.02	Stability / USB enumeration issues of Mainboard controller (PSoC) (672447)

Known issues

n.a

1.15 Version 03.06.02.01

New features

n.a

Improvements

Version	Contents
03.06.02.01	TSMA – LAN port driver update (394933)

Solved problems

Version	Contents
03.06.02.01	Firmware flash procedure for micro-controller is sometimes started (577735)
03.06.02.01	TSMA6-BP (battery pack unit) - auxiliary power out is not switched off after power down (626415)

Version	Contents
03.06.02.01	TSMA6 - sporadically powers on when battery pack unit is connected with DC power (649082)
03.06.02.01	WLAN off/on cycle via rear panel slider does not start access point again (613383)
03.06.02.01	TSMA - reduced fan speed due to wrong temperature read out (638228)

Known issues

n.a

1.16 Version 03.05.01.05

New features

Version	Contents
03.05.01.05	web-GUI: added TSME30DC info tab (522546)
03.05.01.05	web-GUI: NESTOR licenses are displayed and can be installed (489866)

Improvements

Version	Contents
03.05.01.05	Updated TSME Tools v1.6.0.2
03.05.01.05	Updated TSMA6 Online Help v04

Solved problems

Version	Contents
03.05.01.05	web-GUI: file transfer / set default file path does not work (590601)
03.05.01.05	web-GUI: LAN port IP address configuration was sometimes not stored in LAN adapter settings (589168)
03.05.01.05	TSMA - missing shutdown indication via “Mode” LED (596839)
03.05.01.05	TSMA - scanner only mode not possible (596839)

Known issues

n.a

1.17 Version 03.04.01.04

New features

Version	Contents
03.04.01.04	Support of connected R&S TSME6 in Auto-IP mode when SCAN port is configured to receive IP address automatically (576003)
03.04.01.04	Battery info of the Freerider 3 / 4 environment in the web-GUI and Windows tray icon (511743)
03.04.01.04	Support for NESTOR license key management (installation & query) in the web-GUI for R&S TSMA6 (SD Card) (489866)

Improvements

Version	Contents
03.04.01.04	Extended Device Footprint info including installed Windows patches / C:\ProgramData\Rohde-Schwarz\TSMA\SoftwareData.xml (514184)
03.04.01.04	Default power setting – “Auto Power On” (575793)

Solved problems

Version	Contents
03.04.01.04	Wrong IP address for the WLAN access point in the web-GUI (571706)
03.04.01.04	Scanner access error during power-on / selftest is not indicated via “Mode” LED (535474)
03.04.01.04	Web-GUI displays invalid IP addresses when LAN cable is removed (580280)
03.04.01.04	LAN port IP settings in the web-GUI are sometimes not displayed correctly when configuration was changed (573505)

Known issues

n.a

1.18 Version 03.03.01.03

New features

n.a.

Improvements

Version	Contents
03.03.01.03	Generate Software Device Footprint (514184)
03.03.01.03	Enables 802.11n/ac mode (530267)
03.03.01.03	Update TSMA6 Online Help v03 (561965)

Solved problems

Version	Contents
03.03.01.03	Sporadic auto-power on when switched off and powered from TSMAx-BP (543921)
03.03.01.03	Power On / Selftest 'Mode' LED indication (532166)
03.03.01.03	User IP settings of LAN adapters are kept after firmware setup (571744)
03.03.01.03	Local installation fails on TSMA (583467)
03.03.01.03	Web-GUI shows ghost LAN adapter USB LAN 3 on TSMA (547615)
03.03.01.03	Wrong LAN adapter names on web-GUI overview page (554227)

Known issues

n.a

1.19 Version 03.01.01.04

New features

Version	Contents
03.01.01.04	WLAN switch disables WLAN & Bluetooth module (519103)
03.01.01.04	Extended selftest and selftest result file (542753)

Improvements

Version	Contents
03.01.01.04	Extended LAN configuration features in the web-GUI – "SCAN" port set to receive IP address automatically (295872)
03.01.01.04	Updated Online Help (560374)
03.01.01.04	Updated TsmeTools v1.6.0.0 (560374)

Solved problems

Version	Contents
03.01.01.04	Auto Power Off / delay time overwritten (538845)
03.01.01.04	Power on fails when battery pack is reconnected after previous power off (542695)
03.01.01.04	Wrong registry key for ROMES remote control (556449)

Known issues

Version	Contents
03.01.01.04	Sporadic power on cycles when switched off and “Auto Power On” is enabled in power settings (557375)

1.20 Version 03.00.11.00

New features

Version	Contents
03.00.11.00	R&S TSMA supported / one common firmware R&S TSMA / R&S TSMA6 (431129)
03.00.11.00	ROMES support (from v18.3)
03.00.11.00	QualipocProbe support (from v18.3)

Improvements

Version	Contents
03.00.11.00	OSA document update, OSA V2.0 (491523)

Solved problems

Version	Contents
03.00.11.00	WLAN AP not ended if activated for remote firmware installation via WLAN (528763)
03.00.11.00	Failed microcontroller flash – hang up in boot loader mode – missing PSoC device in Windows Device Manager – TSMAx could not be switched off via "Pwr" button (477236)
03.00.11.00	Restore indication via LED now with correct color (491624)
03.00.11.00	Failed selftest / scanner interface blocked when WLAN switch is in “Off” position (519096)
03.00.11.00	Blocked scanner interface is detected (494456)

Version	Contents
03.00.11.00	HW watchdog assert triggers restart and not a shut-down (499006)
03.00.11.00	Remote ViCom server could not start due to missing VS17 redist / solved with Remote ViCom setup v16.25(47662)

Known issues

Version	Contents
03.00.11.00	NESTOR licenses could not be installed and verified in the web-GUI (489866)
03.00.11.00	rViCom ≤ v16.25 / rViCom server could not be accessed via WLAN connection (476632)
03.00.11.00	R&S TSMA6: A firmware upgrade from version 02.22.00.03 is not possible via WLAN. Choose a different way for upgrade (local, USB stick, reps. remote installation via LAN) (528763)
03.00.11.00	TSMA6 cannot be switched on (autopower on enabled) when a battery pack unit is connected, which has previously been shut down (542695)

1.21 Version 03.00.10.02

New features

Version	Contents
03.00.10.02	R&S TSMA supported / one common firmware R&S TSMA / R&S TSMA6 (431129)
03.00.10.02	ROMES support (from v18.3)
03.00.10.02	QualipocProbe support (from v18.3)

Improvements

Version	Contents
03.00.10.02	OSA document update, OSA V2.0 (491523)

Solved problems

Version	Contents
03.00.10.02	WLAN AP not ended if activated for remote firmware installation via WLAN (528763)
03.00.10.02	Restore indication via LED now with correct color (491624)
03.00.10.02	Failed selftest / scanner interface blocked when WLAN switch is in “Off” position (519096)
03.00.10.02	Blocked scanner interface is detected (494456)

Version	Contents
03.00.10.02	HW watchdog assert triggers restart and not a shut-down (499006)
03.00.10.02	Remote ViCom server could not start due to missing VS17 redist / solved with Remote ViCom setup v16.25(47662)

Known issues

Version	Contents
03.00.10.02	NESTOR licenses could not be installed and verified in the web-GUI (489866)
03.00.10.02	rViCom ≤ v16.25 / rViCom server could not be accessed via WLAN connection (476632)
03.00.10.02	R&S TSMA6: A firmware upgrade from version 02.22.00.03 is not possible via WLAN. Choose a different way for upgrade (local, USB stick, reps. remote installation via LAN)

1.22 Version 02.22.03.00 (initial version)

New features

Version	Contents
02.22.03.00	Initial R&S TSMA6 release
02.22.03.00	Support of R&S NESTOR starting from version v2.7.0
02.22.03.00	Support of R&S ViCom starting from version v16.20
02.22.03.00	User-specific configuration of WLAN SSID & key via web-GUI
02.22.03.00	Revised R&S TSMA Web-GUI

Improvements

n.a.

Solved problems

n.a.

Known issues

Version	Contents
02.22.03.00	Firmware set up not applicable for R&S TSMA
02.22.03.00	rViCom Server – WLAN connection not supported yet
02.22.03.00	R&S NESTOR options cannot be installed and read-out via the web-GUI
02.22.03.00	The restore procedure is indicated by green blinking MODE LED (not blue).

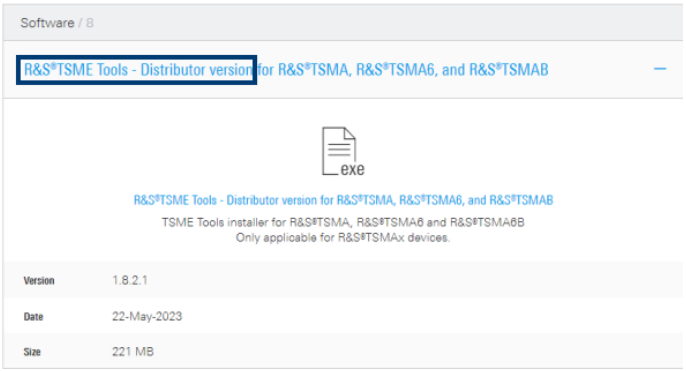
2 Installing firmware and software updates

2.1 Downloading setup files

Firmware and R&S TSMAx Windows operating system update packages for the R&S TSMAx can be downloaded from the Rohde & Schwarz web page https://www.rohde-schwarz.com/us/firmware/tsmx. The firmware setup file can be found under the title *R&S TSMAx Firmware V ww.xx.yy.zz*.

The EDGE browser setup package can be downloaded from the Rohde & Schwarz web page https://www.rohde-schwarz.com/us/software/tsmx.

The R&S TSME Tools setup package must be downloaded as **distributor version** from the Rohde & Schwarz web page https://www.rohde-schwarz.com/us/software/tsmx.



For R&S NESTOR, R&S SmartONE and R&S ViCom, contact the appropriate sales channel.

2.2 Prerequisites

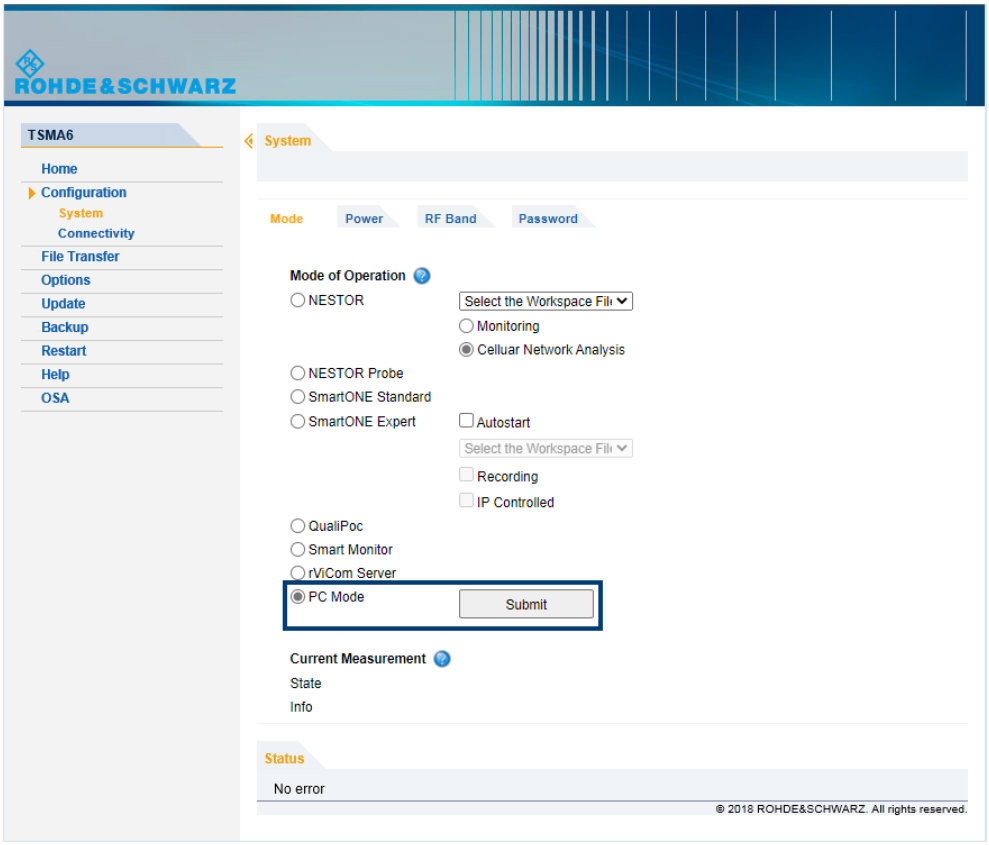
To execute the setup on the R&S TSMAx, the mode of operation has to be "PC Mode".

The PC Mode ist not necessary for the following software packages.

- R&S NESTOR
- R&S SmartONE

1. Open the R&S TSMA6B web GUI.
2. The mode of operation is displayed in the "Overview" page. If the mode is already "PC Mode", you can skip this section.

3. If a different mode is activated, navigate to "Configuration" > "System" > "Mode", select the "PC Mode" and press the "Submit" button.



4. Reload the web GUI after changing the mode, and ensure that the "Mode of Operation" is "PC Mode".

2.3 Preparing installation

There are several ways how to upgrade R&S TSMAx firmware / software. Select the preferred way.

ONLY FOR R&S TSMA: Connection between scanner unit and internal PC unit

1 = SCAN Link connector (CPU port)
2 = SCAN Link connector (Scanner Port)
3 = SCAN Link interconnection cable

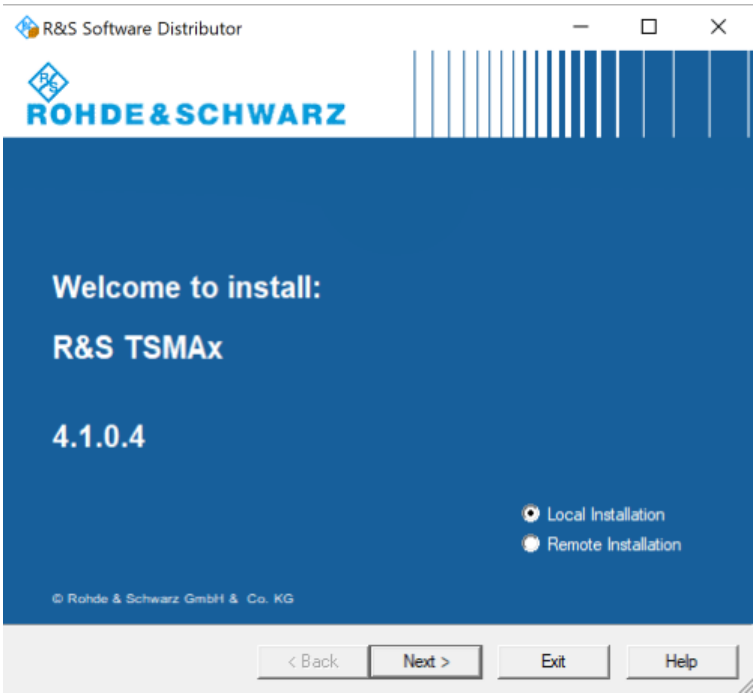
Connect the SCAN ports of scanner and PC unit of the R&S TSMA. Use only the LAN interconnection cable (R&S No. 5016.1890.00) for connecting the SCAN ports.

2.4 Executing setup

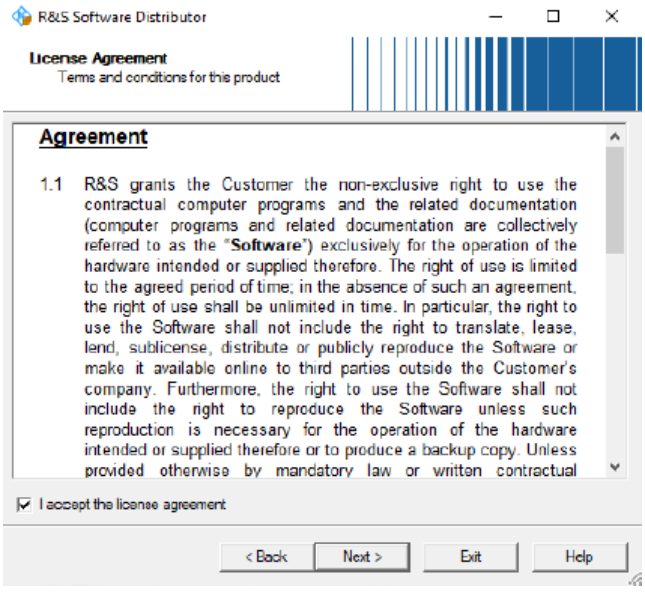
2.4.1 Local execution of the setup file

The local setup is executed from a remote PC and useful, if you have the device at your own workplace. Mouse, monitor and keyboard must be connected to the device directly. A LAN or WLAN connection must be established between the R&S TSMAx and the remote PC.

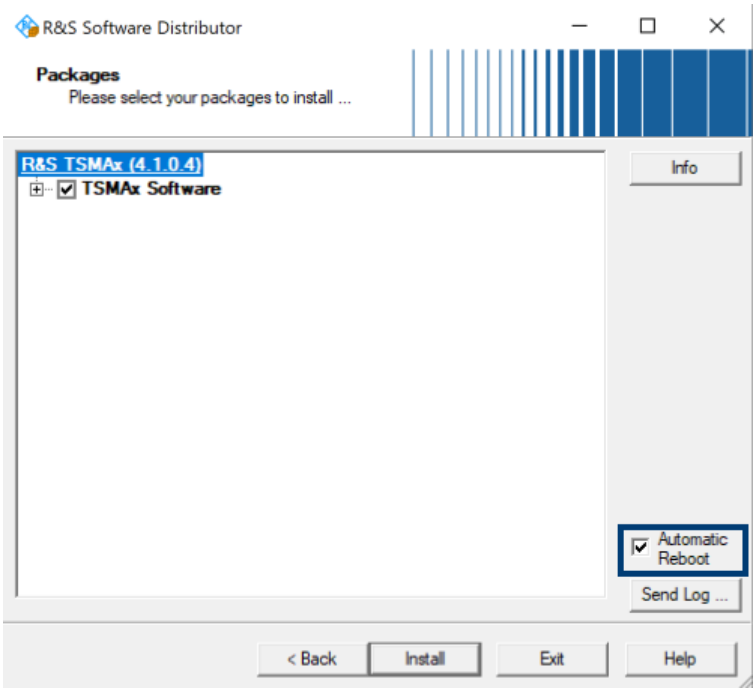
1. Switch on the R&S TSMAx via the power button.
2. Copy the setup file for firmware/software/EDGE/TsmeTools (`.zip` or `.exe`) into a temporary directory on the R&S TSMAx.
3. Check that the R&S TSMAx is in "PC Mode", see Chapter 2.2, "Prerequisites", on page 23.
4. Open the Windows Explorer and execute the setup file `TSMAx-Setup-<Version>.exe`.
5. The "R&S Software Distributor" window comes up. Select "Local Installation" and press "Next".



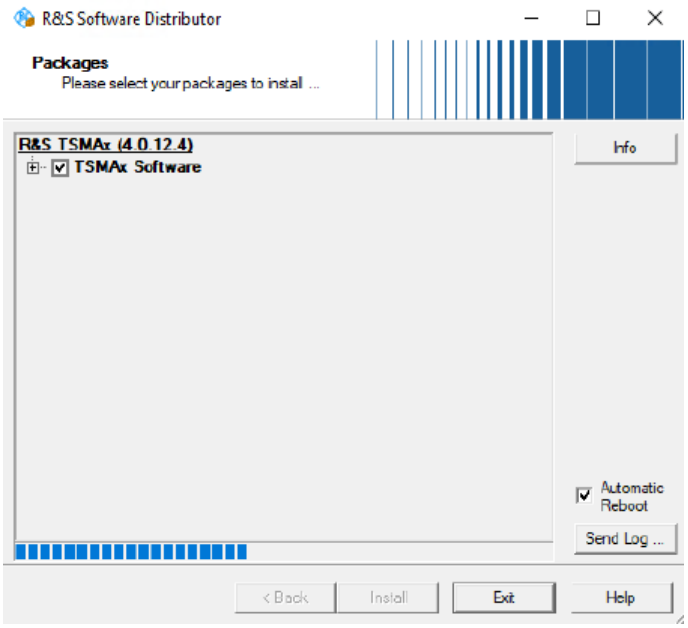
6. In the License Agreement window, check "I accept the license agreement".



7. Click "Next>".
8. The package dialog lists all the available packages in the setup. Normally, this dialog can be skipped without any changes.
   Select "Automatic Reboot".

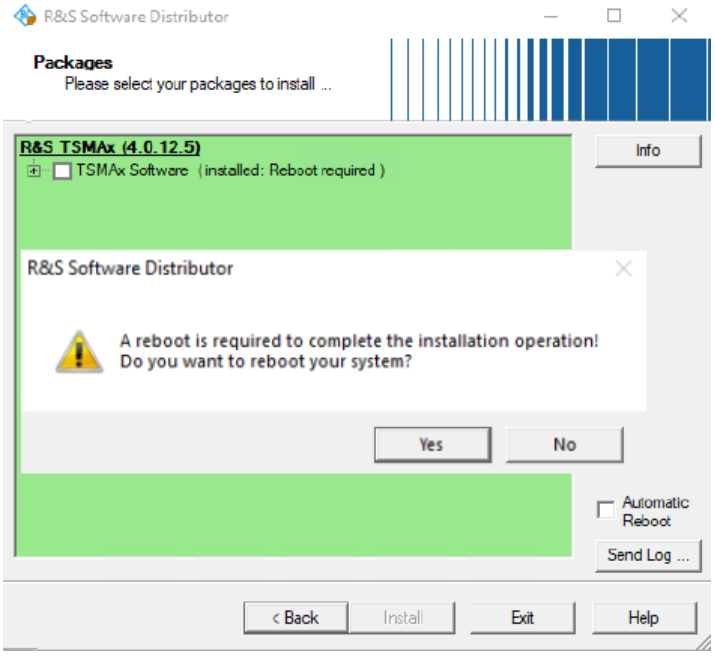


9. Press "Install>" to start setup.
   The progress bar indicates the installation process.



   Note: Do not switch off or unplug from power while running firmware/software update.

10. The device will automatically reboot after the installation is complete.
    If the automatic reboot is not activated, reboot the device manually.



11. If the firmware package contains a new mainboard firmware, a separate flash routine is started in a post process, see Chapter 2.4.4, "Firmware updated - mainboard flash", on page 37.
12. Reload the web GUI and verify the displayed firmware/software version in the "Overview" menu. The installed version needs to be indicated
13. The firmware update is completed successfully and the device is ready for operation when:
    - **TSMA6/TSMA6B**: Mode LED = green resp. blue (depends on the state of the WLAN access point)
    - **TSMA**: WLAN On = amber, WLAN Off = green
14. To configure the required measurement mode, see Chapter 2.2, "Prerequisites", on page 23.

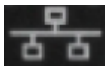
2.4.2 Remote execution of the setup file

The remote setup is the preferred way, if the device is not accessible on site or if multiple TSMAx devices are to be updated simultaneously.

1. Copy the setup file (firmware `TSMAx-Setup-<Version>.exe` or software) into a temporary directory on the remote PC.
2. Establish a LAN respectively WLAN connection between the remote PC and the R&S TSMAx. Make sure the R&S TSMAx is switched on and the "Mode of Operation" is "PC Mode", see Chapter 2.2, "Prerequisites", on page 23.

a) **Using LAN connection**

- Connect the LAN port (R&S TSMAx) with the host PC LAN port.
  TSMA: The LAN port is marked with "LAN".
  TSMA6/TSMA6B: The LAN port is marked with the LAN symbol.

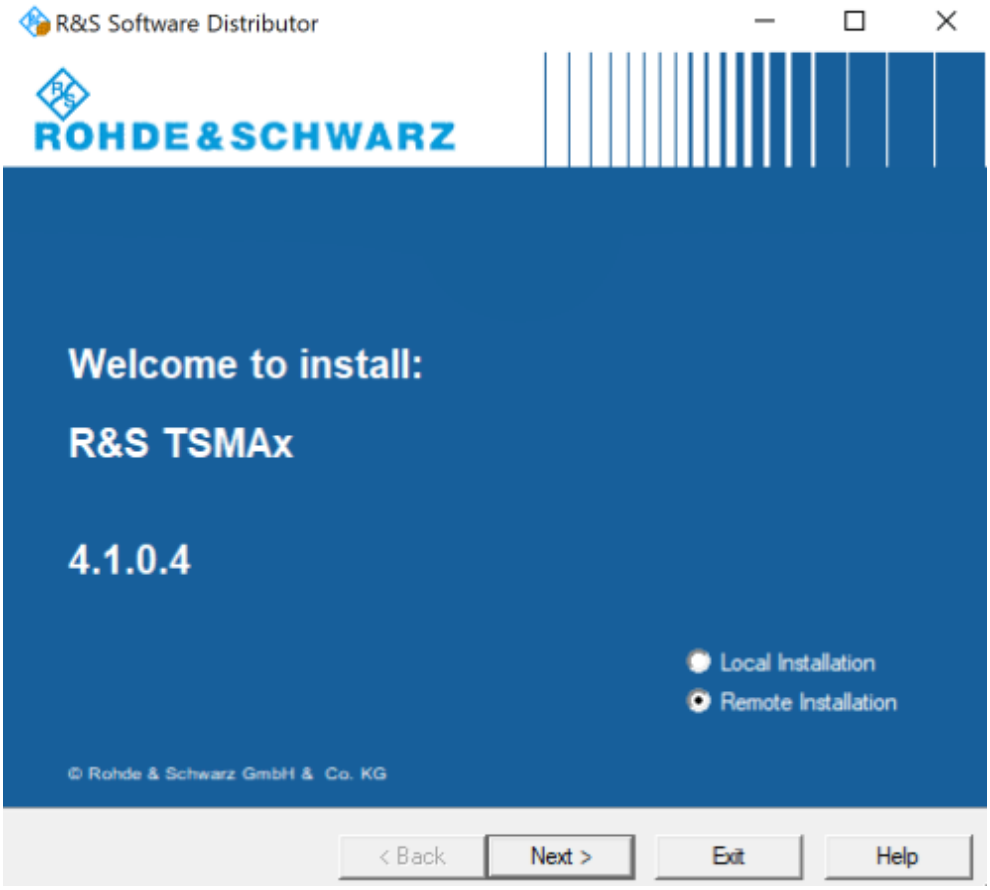
  The default IP setting of this port is "DHCP client". For details on how to configure the remote PC, contact your network administrator.

b) **Using WLAN connection**

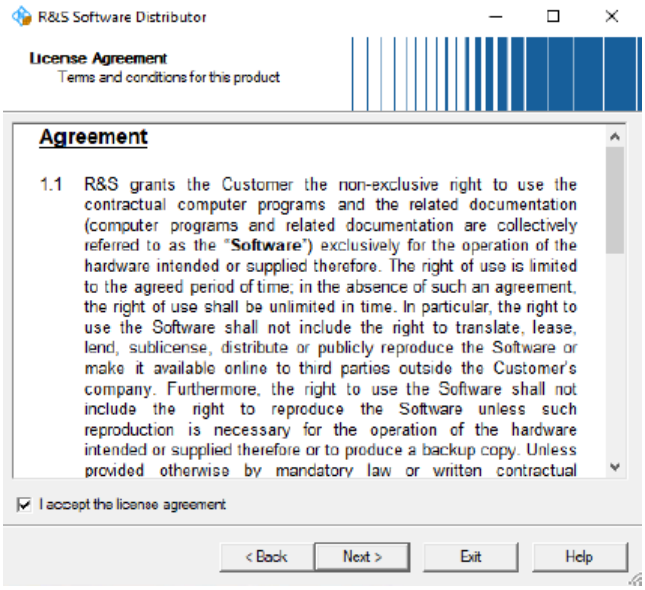
- For R&S TSMA6/TSMA6B, the WLAN/Bluetooth switch must be "On".
- On the remote PC, search for the TSMAx WLAN and connect to the network. You find the parameters for the TSMAx WLAN access on a label at the bottom of the device.
  WLAN SSID:
  – **TSMA**
    TSMA-<xxxxxx> with xxxxxx as individual serial number
  – **TSMA6**
    TSMA6-<xxxxxx> with xxxxxx as individual serial number
  – **TSMA6B**
    TSMA6B-<xxxxxx> with xxxxxx as individual serial number

  WLAN key: *instrument* (default)

3. Execute the firmware/software setup file on the connected remote PC. The "R&S Software Distributor" dialog box is coming up

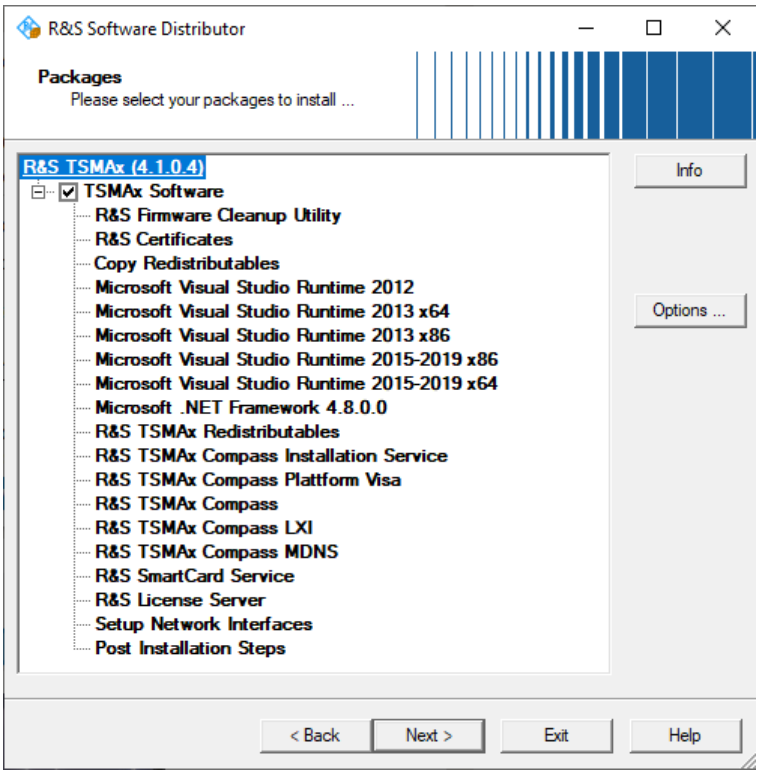


4. Select "Remote Installation" and click "Next>".
5. In the License Agreement window, check "I accept the license agreement".



6. Select "Next>".

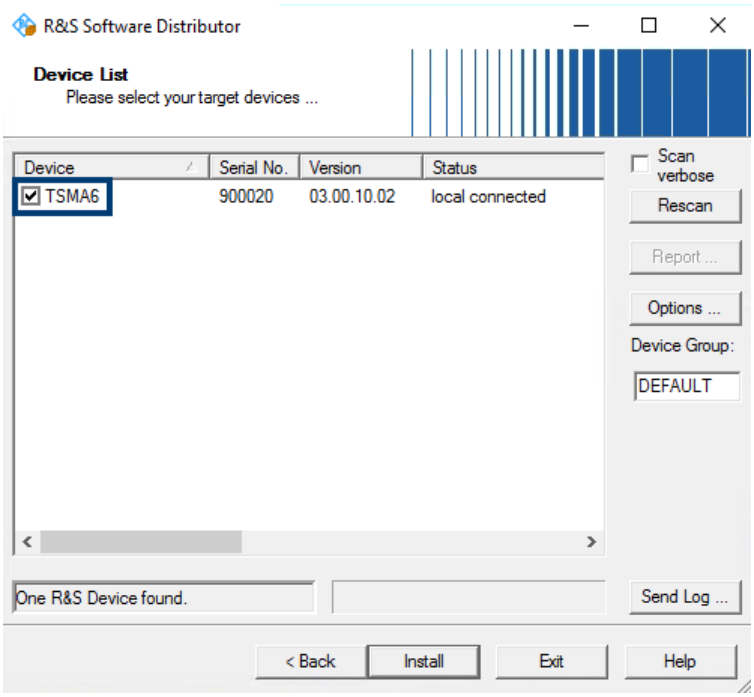
7. The package dialog list all the available packages to install.



All packages, which you need to install are already pre-selected.

8. Click "Next>".

9. After a while, all R&S TSMAx devices in the network are listed in the "Device List" dialog.
Devices are only listed, if the device is in "PC Mode" (see Chapter 2.2, "Prerequisites", on page 23). Tick one or more devices to update. If the column "Serial No." is not filled, move the mouse pointer over the listed items to get related device information.



10. Click "Install".

    Note: Do not switch off or unplug from power while running firmware/software update.

11. The state of the installation process is displayed in the "Status" column. The process is finished when the status indicates "Ready, see report for details!".

    Note: If you are connected via WLAN, a reconnect to the TSMAx WLAN access point may be necessary as the TSMAx reboots after the firmware/software update.

12. Press "Exit" to end the setup program on the remote PC.

13. **Only** for firmware update.
    If the firmware package contains a new mainboard firmware, a separate flash routine is started in a post process, see Chapter 2.4.4, "Firmware updated - mainboard flash", on page 37.

    Note: If you are connected via WLAN, a reconnect to the TSMAx WLAN access point may be necessary as the TSMAx reboots after the mainboard flash.

14. Reload the R&S TSMAx web GUI (see Chapter 2.5, "Calling R&S TSMAx web-GUI", on page 38) and verify the installed firmware /software version in the "Overview".

15. The firmware/software update is completed successfully and the device is ready for operation when the firmware / software is listed correctly in the "Overview" page of the TSMAx web-GUI.
16. To configure the required measurement mode, see Chapter 2.2, "Prerequisites", on page 23.

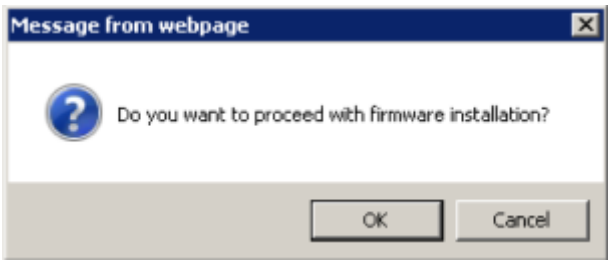
2.4.3 Installation using a USB stick

The setup is initiated via the web GUI of the R&S TSMAx. In this case, the setup file must be available in the root directory of a USB stick, which is connected to the R&S TSMAx. To initiate the setup, usually a tablet or handheld device is used, which is connected via LAN or WLAN with the R&S TSMAx.

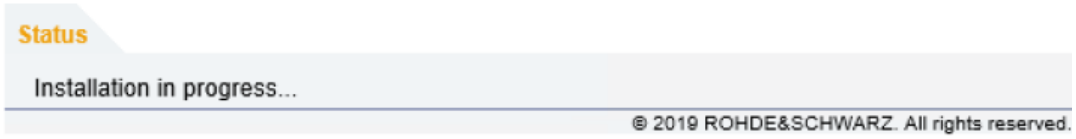
1. Connect mouse, keyboard to the USB ports and a monitor.
2. Switch on the R&S TSMAx via power button.

3. Copy the setup file onto the root directory of a USB memory stick.
   a) For firmware installation: Copy the firmware setup file `TSMAx-Setup-<Version>.exe`.
   b) For software installation: Copy the corresponding software setup file.
4. Open the R&S TSMAx web GUI (see Chapter 2.2, "Prerequisites", on page 23).
5. Make sure, that the "Mode of Operation" is "PC Mode". Otherwise switch the device to "PC Mode" (see Chapter 2.2, "Prerequisites", on page 23).
6. In the R&S TSMAx web GUI, navigate to the menu "Update".
7. Select the appropriate setup file from one of the combo boxes.
   - Firmware: "Select Firmware Setup File"
   - Software/Tools: Select the corresponding software box.
8. Press "Update Firmware/Software" next to the select box.
   The "Update" buttons are only active, if a valid setup file is available on the USB stick and the device is in "PC Mode".

9. A confirmation dialog appears. Confirm with "OK" to start the update.



10. The firmware/software installation starts. The status text in the web GUI displays "Installation in progress…".



TSMA: The STATE LED starts blinking blue.
TSMA6/TSMA6B: The Mode LED starts blinking blue.

Note: Do not switch off or unplug from power while running firmware/software update.

11. When the installation of all firmware/software packages has finished, the R&S TSMAx reboots.
The Mode LED changes to blinking green (selftest).

Note: If you are connected via WLAN, a reconnect to the TSMAx WLAN access point may be necessary.

12. Open the web GUI. After a while, the status text in the web GUI changes to `No error.`
The reboot is finished when the Mode LED changes into steady blue (WLAN AP On) or green (WLAN AP Off) color.

13. **Only** for firmware installation.
If the firmware package contains a new mainboard firmware, a separate flash routine is started in a post process, see Chapter 2.4.4, "Firmware updated - mainboard flash", on page 37.

Note: If you are connected via WLAN, a reconnect to the TSMAx WLAN access point may be necessary as the TSMAx reboots after the mainboard flash.

14. Reload the R&S TSMAx web GUI (see Chapter 2.5, "Calling R&S TSMAx web-GUI", on page 38) and verify the installed firmware /software version in the "Overview".

15. The device is ready for operation when the firmware/software is listed correctly and the TSMAx is in the "Ready" state.
TSMA6/TSMA6B: Mode LED = green resp. blue (depends on the state of the WLAN access point)
TSMA: STATE LED = amber resp. green (depends on the state of the WLAN access point)

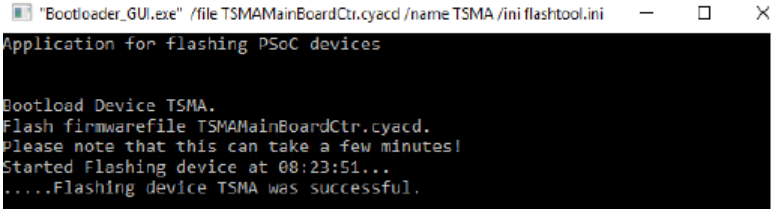
16. To configure the required measurement mode, see Chapter 2.2, "Prerequisites", on page 23.

2.4.4 Firmware updated - mainboard flash

The following steps are only performed, if the firmware package contains a newer mainboard firmware.

1. About one minute after the operating system is up again, the flash of the mainboard firmware starts.

The following dialog appears on the R&S TSMAx device:
NOTE: The dialog is only visible for local installation procedure.



The mainboard flash is indicated via rear panel LEDs like following:

- **TSMA6/TSMA6B**
  - Meas LED = green / red
  - Mode LED = green / blue
- **TSMA**
  - PWR LED = blue
  - STATE LED = white

The internal fans are switched to full speed.

2. After the flash of the mainboard firmware, the device reboots.
3. Proceed with the selected firmware/software update procedure as described in the chapters Chapter 2.4.1, "Local execution of the setup file", on page 26, Chapter 2.4.2, "Remote execution of the setup file", on page 29 and Chapter 2.4.3, "Installation using a USB stick", on page 34.

2.5 Calling R&S TSMAx web-GUI

The R&S TSMAx web-GUI has to be loaded prior to executing firmware / software setup.

- Remote from a WLAN connected device
  Start the web browser and enter the following URL:
  - **TSMA**: *http://192.168.1.10*
  - **TSMA6/TSMA6B**: *http://192.168.137.1*
- Remote from a LAN connected device
  Enter the URL `http://TSMAx-xxxxxx.local` into the browser.
  `TSMAx-xxxxxx` = R&S TSMAx host name
  This information can be found on a label at the bottom.
- Local
  Open the web browser (Microsoft EDGE or Internet Explorer). The web GUI starts automatically. If not, enter the URL `http://localhost` into the browser.

3 R&S TSME Tools installation

The R&S TSME Tools are used for diagnostics and maintenance purposes of the TSMAx devices. It is recommended to always install the latest version on the devices.

For the R&S TSME Tools installation on the TSMAx devices, use only the R&S Distributor version `TSMAx-TsmeTools-<version>.exe`.

Example: `TSMAx-TsmeTools-v1.7.4.1.exe` (current version).

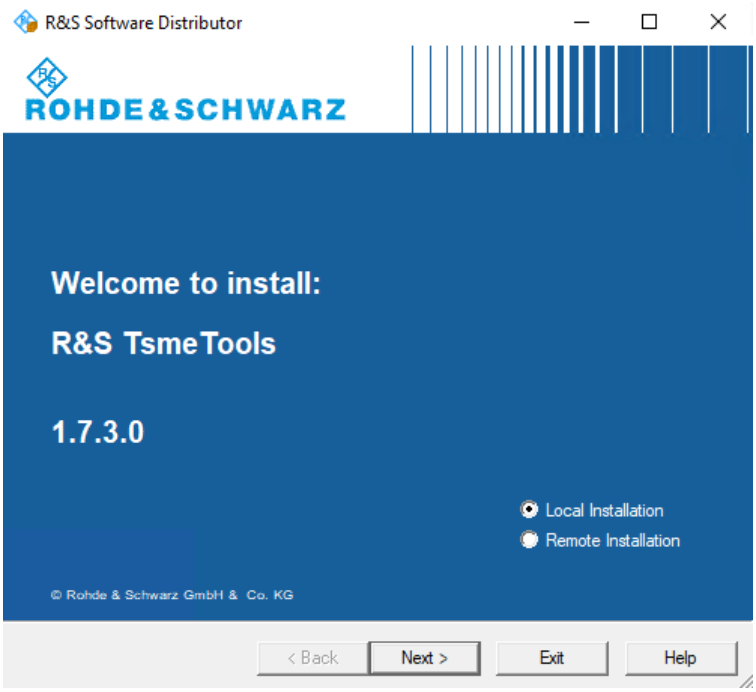
3.1 Preparation

1. Download the R&S TSME Tools setup file `TSMAx-TsmeTools-<version>.exe` from the following source.
   - **TSMA/TSMA6/TSMA6B:** https://www.rohde-schwarz.com/software/tsmx/
2. Choose the way of installation and follow the instructions how to update the R&S TSME Tools.

3.2 R&S TSME Tools local installation

Follow the general instructions in Chapter 2.4.1, "Local execution of the setup file", on page 26, step 1 to step 3.

1. Open the Windows Explorer and execute the setup file `TSMAx-TsmeTools-<version>.exe`.
2. The "R&S Software Distributor" window comes up. Select "Local Installation" and press "Next".



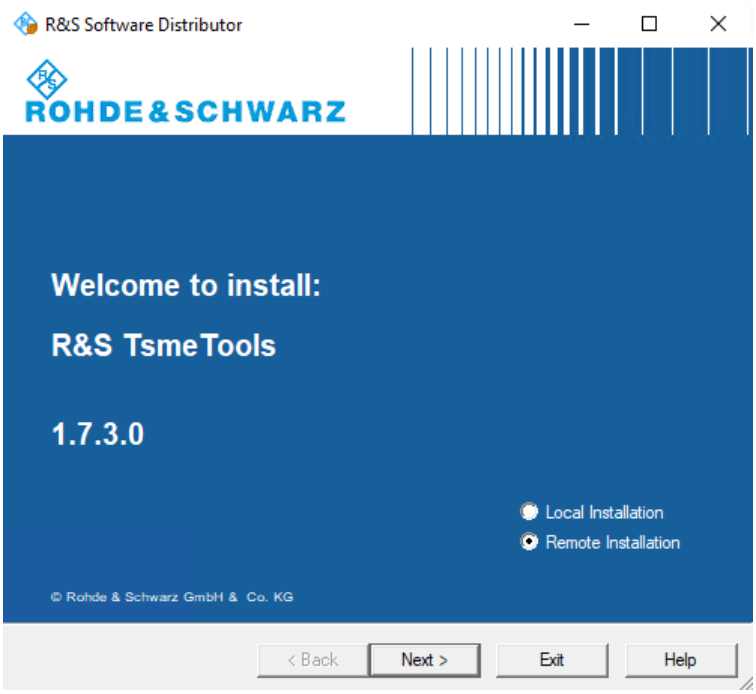
3. All subsequent steps are similar to local firmware installation, see Chapter 2.4.1, "Local execution of the setup file", on page 26, step 6 and following.

Do not switch off or unplug from power while running firmware/software update.

3.3 R&S TSME Tools remote installation

Follow the general instructions in Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 1 to step 2.

1. Execute the setup file `TSMAx-TsmeTools-<version>.exe` on the remote PC.
2. The "R&S Software Distributor" comes up. Select "Remote Installation" and press "Next >".

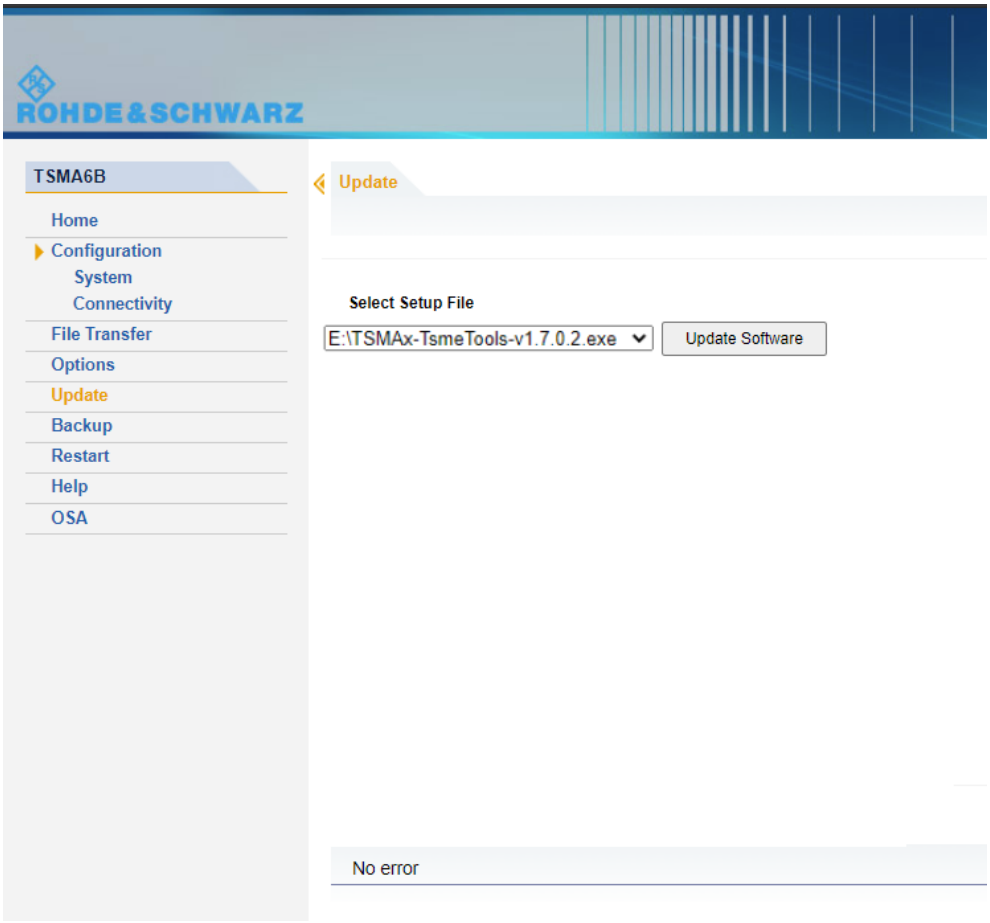


3. All subsequent steps are similar to remote firmware installation, see Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 4 and following.

3.4 R&S TSME Tools installation using a USB stick

Follow the general instructions in Chapter 2.4.3, "Installation using a USB stick", on page 34, step 1 to step 6.

1. Select the appropriate R&S TSME Tools setup file `TSMAx-TsmeTools-<version>.exe` and press the button next to the select box.



2. The following steps are similar to the installation using a USB stick, see Chapter 2.4.3, "Installation using a USB stick", on page 34, step 9 and following.

4 Microsoft EDGE browser installation

Starting with firmware version 4.1.0.4 there is also a Microsoft EDGE browser installation available only for R&S TSMA6/TSMA6B. (Not suitable for R&S TSMA.)

Starting with firmware version 4.1.0.4 there is also a Microsoft EDGE browser installation available for R&S TSMA6/TSMA6B (**not** usable for R&S TSMA).

The Microsoft EDGE browser replaces the former used Internet Explorer for the TSMAx web-GUI as the Internet Explorer is no longer supported by Microsoft. It also brings a better compatibility with the web-based tools R&S SmartBenchmarker and R&S SmartAnalytics as the Internet Explorer is incompatible with these products.

For the Microsoft EDGE browser installation on the R&S TSMA6/TSMA6B use the dedicated TSMAx EDGE setup. `TSMAx-EDGE-Setup-<version>.zip`.

Example: `TSMAx-EDGE-Setup-V4.1.0.5.zip` (current version).

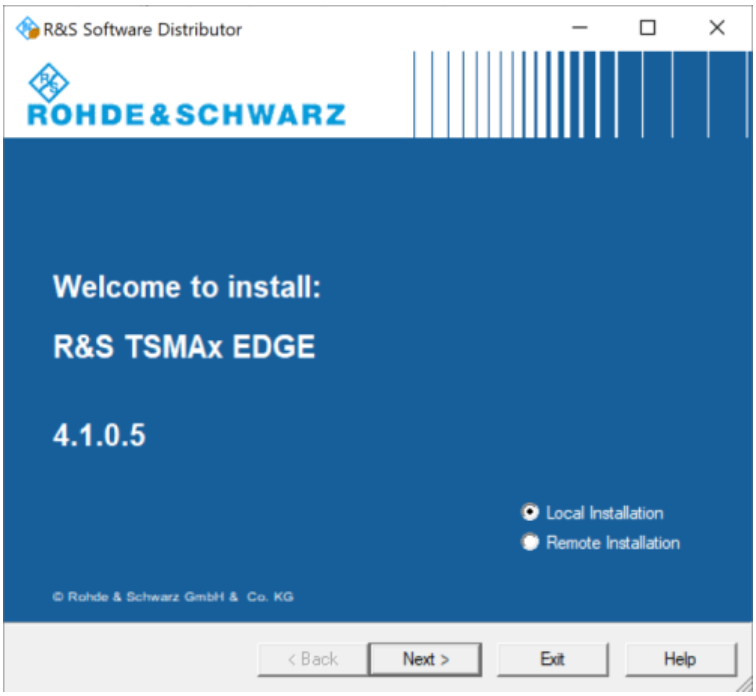
4.1 Preparation

1. Download the Microsoft EDGE browser setup file `TSMAx-EDGE-Setup-<version>.zip` from https://www.rohde-schwarz.com/software/tsma6b/.
2. Choose the way of installation and follow the instructions how to update the browser.

4.2 Microsoft EDGE browser local installation

Follow the general instructions in Chapter 2.4.1, "Local execution of the setup file", on page 26, step 1 to step 3.

1. Open the Windows Explorer and execute the setup file `TSMAx-EDGE-Setup-<version>.exe`.
2. The "R&S Software Distributor" window comes up. Select "Local Installation" and press "Next".



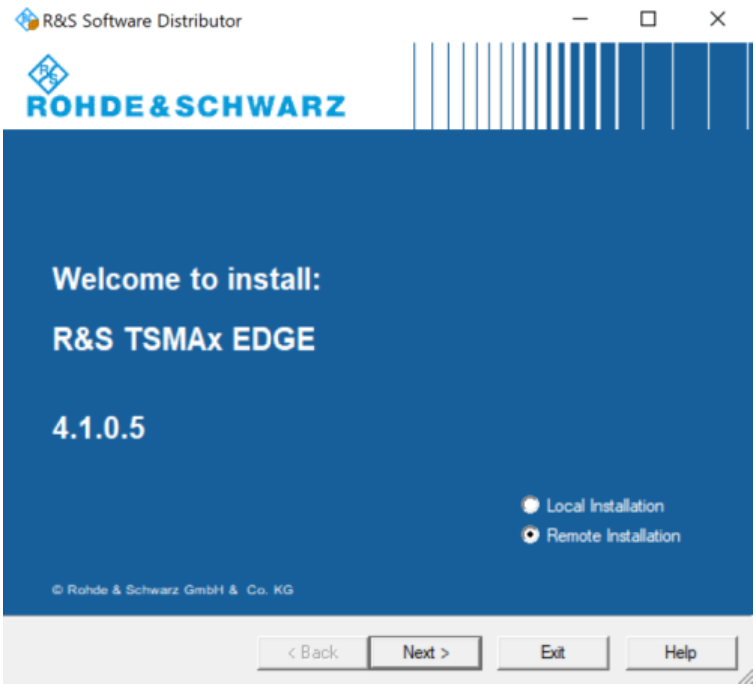
3. All subsequent steps are similar to local firmware installation, see Chapter 2.4.1, "Local execution of the setup file", on page 26, step 6 and following.

Do not switch off or unplug from power while running firmware/software update.

4.3 Microsoft EDGE browser remote installation

Follow the general instructions in Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 1 to step 2.

1. Execute the setup file `TSMAx-EDGE-Setup-<version>.exe` on the remote PC.
2. The "R&S Software Distributor" comes up. Select "Remote Installation" and press "Next >".

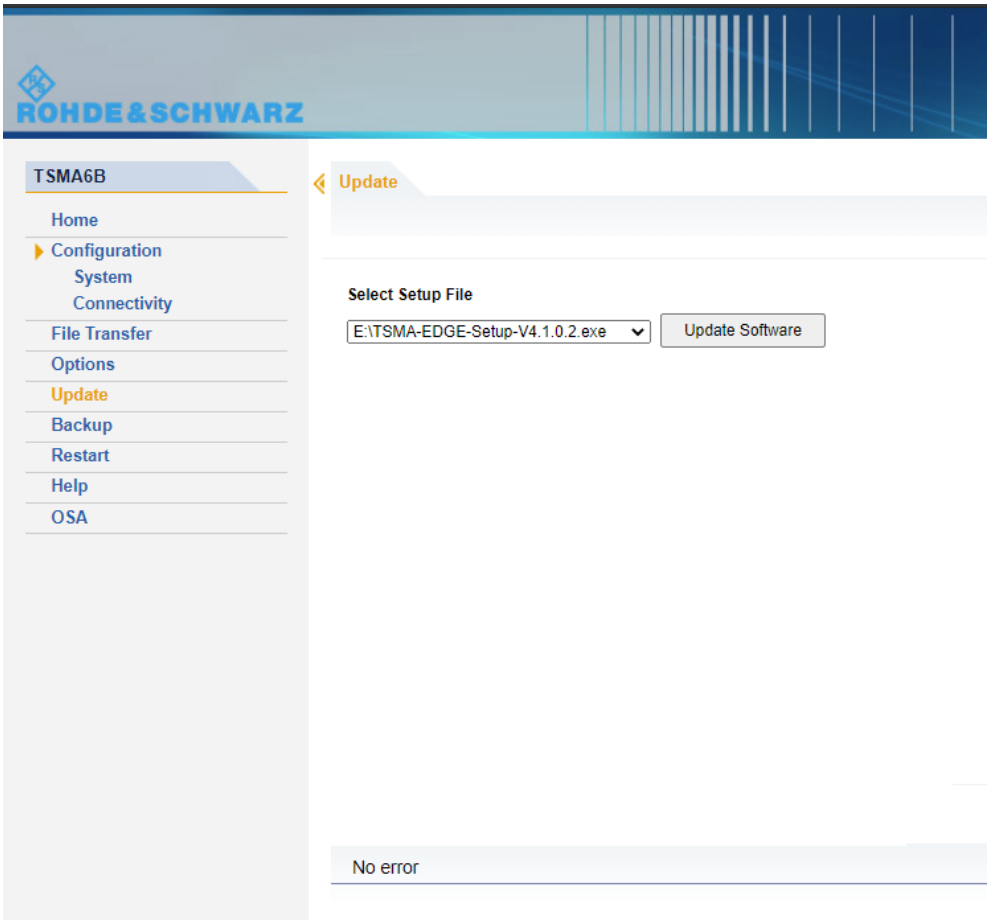


3. All subsequent steps are similar to remote firmware installation, see Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 4 and following.

4.4 Microsoft EDGE browser installation using a USB stick

Follow the general instructions in Chapter 2.4.3, "Installation using a USB stick", on page 34, step 1 to step 6.

1. Select the appropriate Microsoft EDGE setup file `TSMA-EDGE-Setup-<Version>.exe` and press the button next to the select box.



2. The following steps are similar to the installation using a USB stick, see Chapter 2.4.3, "Installation using a USB stick", on page 34, step 9 and following.

5 Software installation

Make sure, that the latest firmware is installed on the device before you start with the installation of software packages.

For software installations (NESTOR, SmartOne, ViCom), use only the TSMAx-specific setup files (`TSMAx-<AppName>-|<version>-setup.exe`).

5.1 Remote ViCom server software

The Remote ViCom server (rViCom) is an additional software package for the R&S TSMAx.

An upgrade of the Remote ViCom package is only recommended when operating the R&S TSMAx in "rViCom Server" mode.

The update of the Remote ViCom package installation could be neglected for other modes of operation (NESTOR, ROMES, QualiPoc).

The installed version of the Remote ViCom server on the R&S TSMAx needs to match with the applied version of rViCom client API on the remote Android device.

In cases of a client / server mismatch, there are the following possibilities:

- Downgrade the rViCom server version on the R&S TSMAx to match with the applied rViCom client version on the Android device.
- Upgrade the rViCom client version on the connected tablet / smartphone to comply with the installed rViCom server version on the R&S TSMAx.

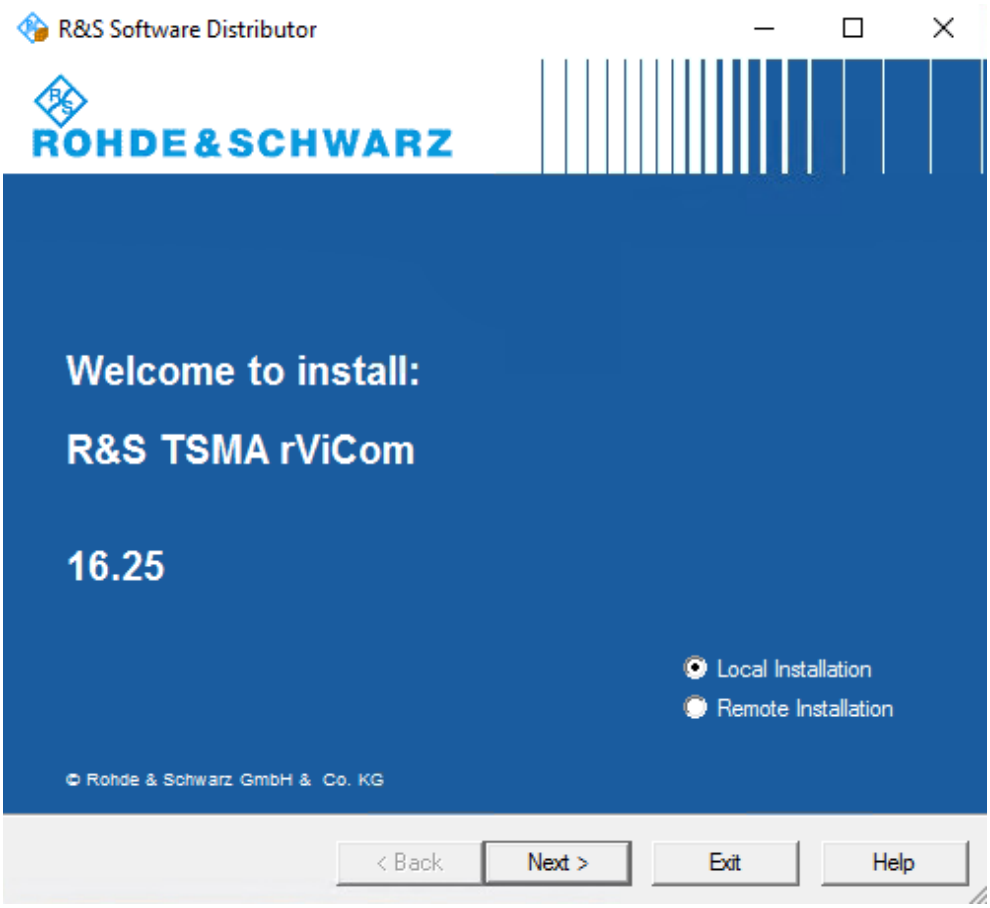
5.1.1 Preparation

1. To get the setup file `TSMAx-rViCom-Setup-<Version>.exe`, contact the R&S customer support.
2. Choose the way of installation and follow the instructions how to prepare.

5.1.2 ViCom server local installation

Follow the general instructions in Chapter 2.4.1, "Local execution of the setup file", on page 26, step 1 to step 3.

1. Open the Windows Explorer and execute the setup file `TSMAx-rViCom-Setup-<Version>.exe`.
2. The "R&S Software Distributor" window comes up. Select "Local Installation" and press "Next".



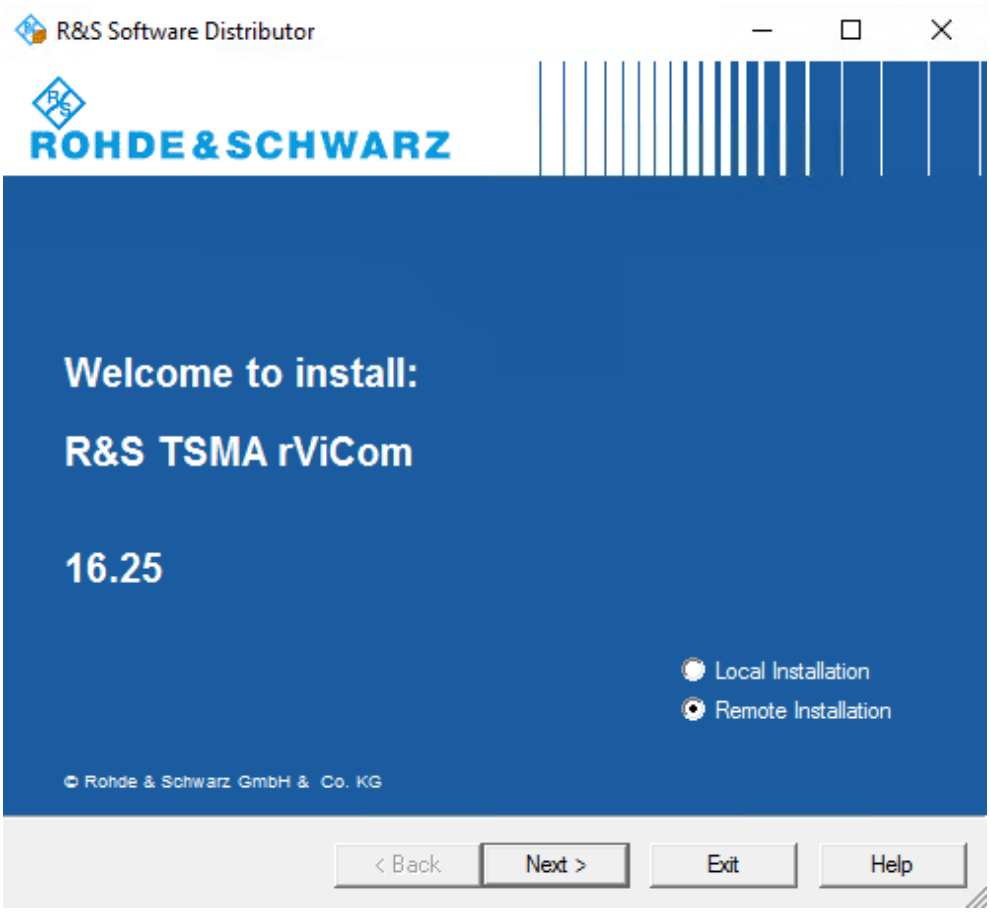
3. All subsequent steps are similar to local firmware installation, see Chapter 2.4.1, "Local execution of the setup file", on page 26, step 6 and following.

Do not switch off or unplug from power while running firmware/software update.

5.1.3 ViCom server remote installation

Follow the general instructions in Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 1 to step 2.

1. Execute the setup file `TSMAx-rViCom-Setup-<Version>.exe` on the remote PC.
2. The "R&S Software Distributor" comes up. Select "Remote Installation" and press "Next >".

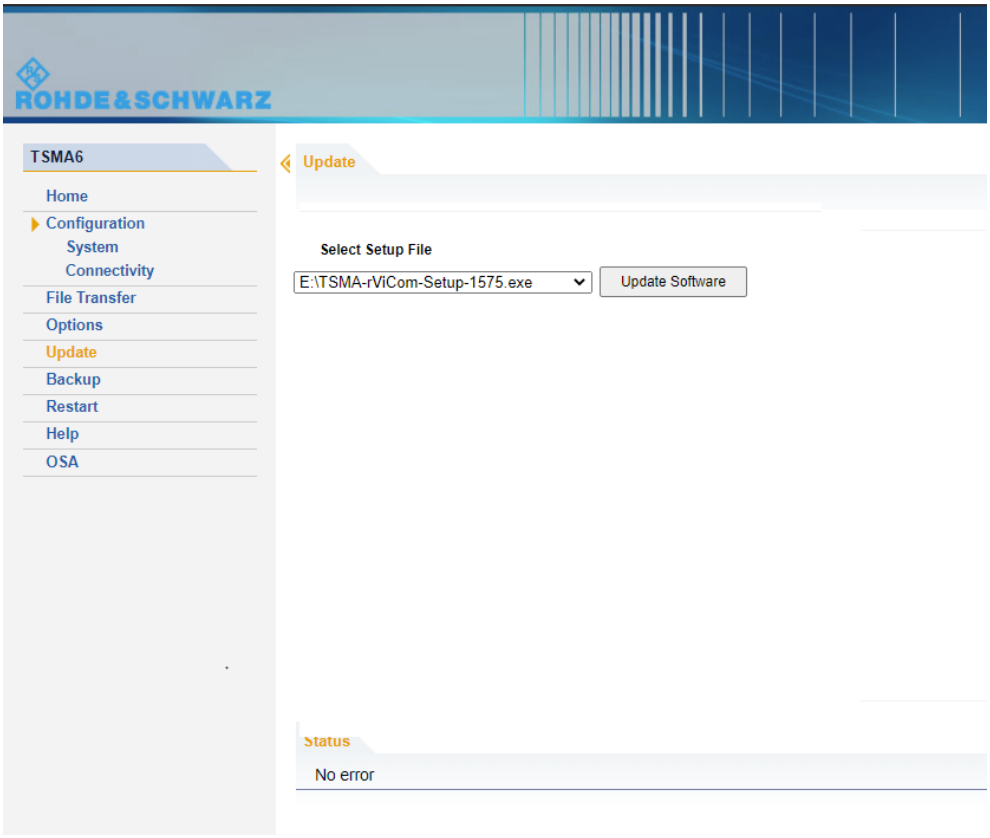


3. All subsequent steps are similar to remote firmware installation, see Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 4 and following.

5.1.4 ViCom server installation using a USB stick

Follow the general instructions in Chapter 2.4.3, "Installation using a USB stick", on page 34, step 1 to step 6.

1. Select the appropriate setup file `TSMAx-rViCom-Setup-<Version>.exe` and press the button next to the select box.
   - Firmware version 01.xx.yy.zz: "Execute Setup"
   - Firmware version from 02.xx.yy.zz: "Update Vicom"



2. The following steps are similar to the installation using a USB stick, see Chapter 2.4.3, "Installation using a USB stick", on page 34, step 8 to step 11.

5.2 R&S NESTOR software

Only execute the dedicated NESTOR setup for R&S TSMAx. The setup file is named `TSMAx_NESTOR_Setup-<Version>.exe`.

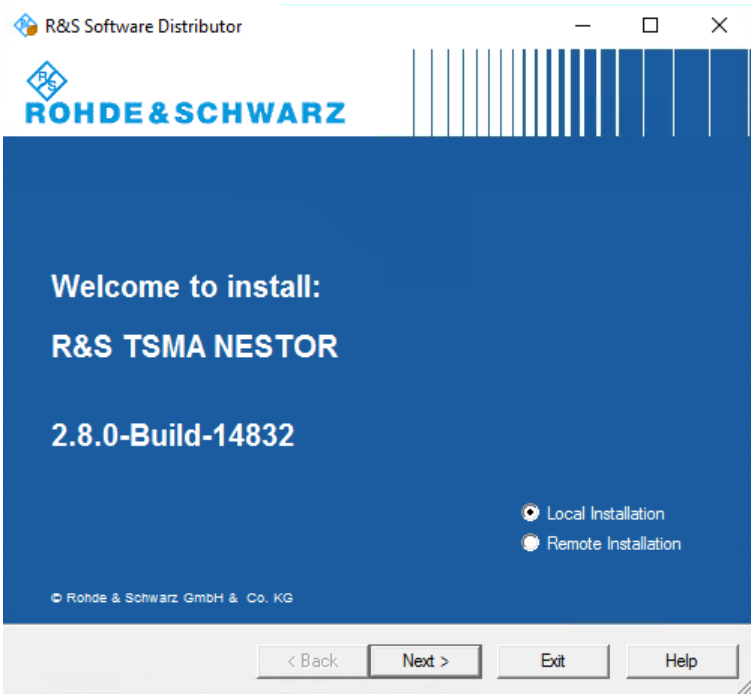
5.2.1 Preparation

1. Download the software setup file `TSMAx_NESTOR_Setup-<Version>.exe` from the Rohde & Schwarz FTP server respectively NESTOR CD-ROM.
2. Choose the way of installation and follow the instructions how to prepare.

5.2.2 NESTOR local installation

Follow the general instructions in Chapter 2.4.1, "Local execution of the setup file", on page 26, step 1 to step 3.

1. Open the Windows Explorer and execute the NESTOR setup file `TSMAx_NESTOR_Setup-<Version>.exe`.
2. The "R&S Software Distributor" comes up. Select "Local Installation" and press "Next".



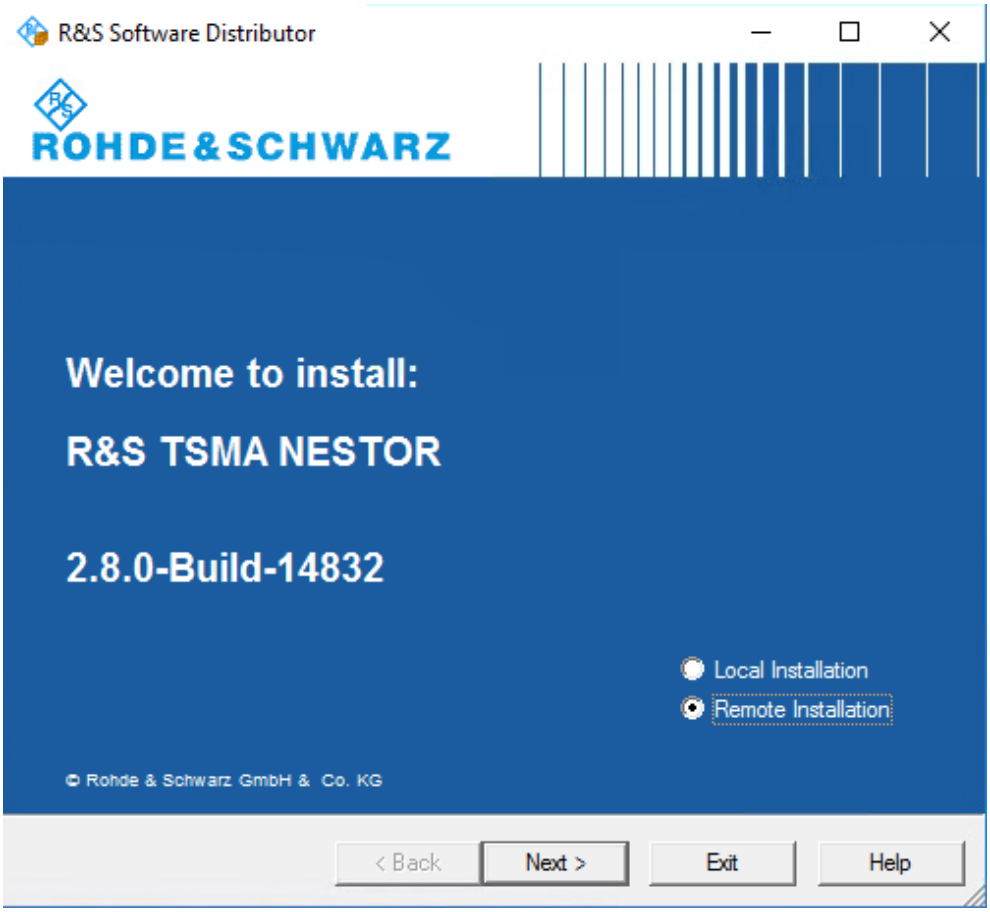
3. All subsequent steps are similar to local firmware installation, see Chapter 2.4.1, "Local execution of the setup file", on page 26, step 6 and following.

Do not switch off or unplug from power while running firmware/software update.

5.2.3 NESTOR remote installation

Follow the general instructions in Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 1 to step 2.

1. Execute the setup file `TSMAx_NESTOR_Setup-<Version>.exe` on the remote PC.
2. The "R&S Software Distributor" comes up. Select "Remote Installation" and press "Next >".

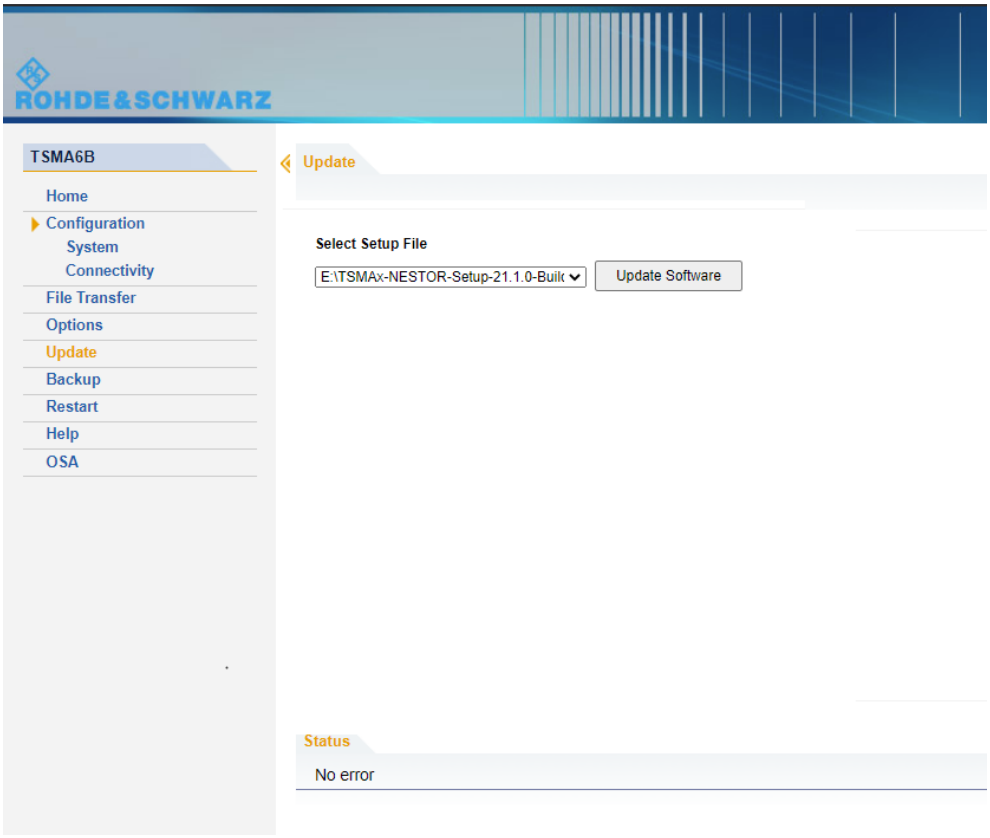


3. All subsequent steps are similar to remote firmware installation, see Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 4 and following.

5.2.4 NESTOR installation using a USB stick

Follow the general instructions in Chapter 2.4.3, "Installation using a USB stick", on page 34, step 1 to step 6.

1. Select the appropriate NESTOR setup file `TSMAx_NESTOR_Setup-<Version>.exe` and press the button next to the select box.



2. The following steps are similar to the installation using a USB stick, see Chapter 2.4.3, "Installation using a USB stick", on page 34, step 8 to step 11.

5.3 R&S SmartONE setup (SmartBenchmarker, ROMES, QualiPoc)

It is recommended to install and use the Microsoft EDGE™ browser with R&S SmartONE.

The setup file is named `TSMAx-SmartONE_x.y.z.exe` (example: `TSMAx-SmartONE_20.3.35.exe`).

The R&S SmartONE installation contains the following applications.

- R&S SmartBenchmarker
- R&S ROMES
- R&S QualiPoc
- R&S SmartMonitor

5.3.1 Preparation

1. Download the SmartONE setup file `TSMAx-SmartONE_x.y.z.exe` from the Rohde & Schwarz FTP server respectively SmartONE CD-ROM.
2. Choose the way of installation and follow the instructions how to prepare.

5.3.2 SmartONE local installation

Follow the general instructions in Chapter 2.4.1, "Local execution of the setup file", on page 26, step 1 to step 3.

1. Open the Windows Explorer and execute the SmartONE setup file `TSMAx-SmartONE_x.y.z.exe`.
2. The "R&S Software Distributor" comes up. Select "Local Installation" and press "Next".

3. All subsequent steps are similar to local firmware installation, see Chapter 2.4.1, "Local execution of the setup file", on page 26, step 6 and following.

5.3.3 SmartONE remote installation

Follow the general instructions in Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 1 to step 2.

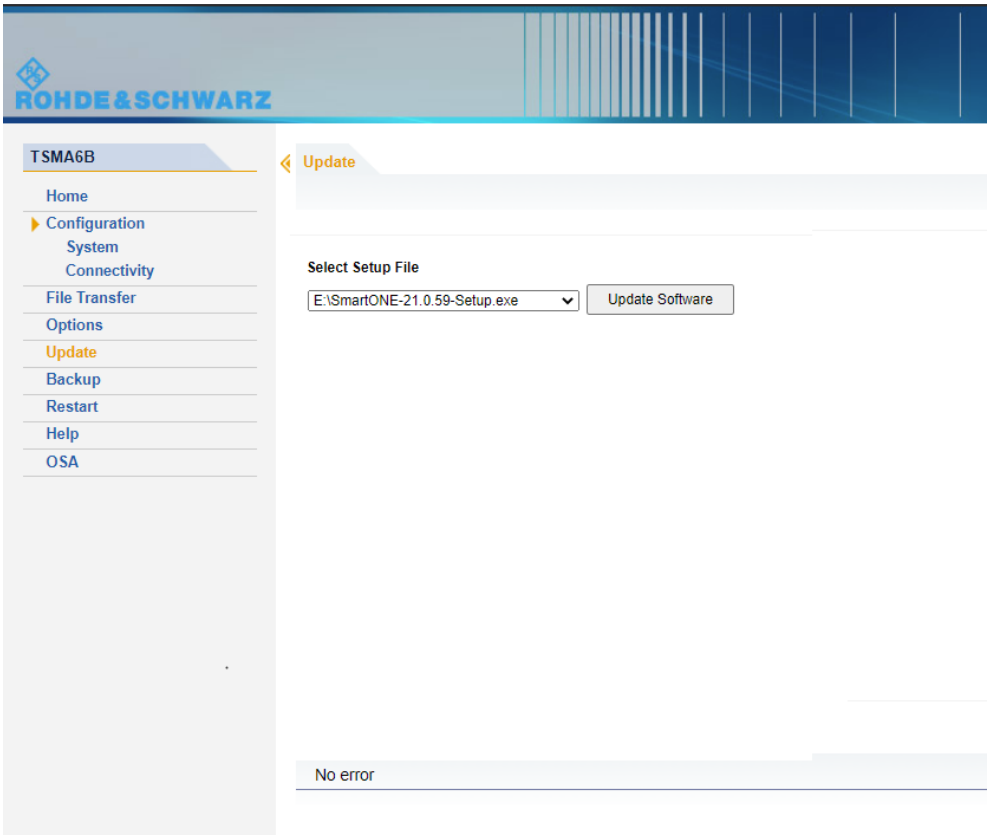
1. Execute the SmartONE setup file `TSMAx-SmartONE_x.y.z.exe` on the remote PC.
2. The "R&S Software Distributor" comes up. Select "Remote Installation" and press "Next >".

3. All subsequent steps are similar to remote firmware installation, see Chapter 2.4.2, "Remote execution of the setup file", on page 29, step 4 and following.

5.3.4 SmartONE installation using a USB stick

Follow the general instructions in Chapter 2.4.3, "Installation using a USB stick", on page 34, step 1 to step 6.

1. Select the appropriate SmartONE setup file `TSMAx-SmartONE_x.y.z.exe` and press the button next to the select box.
   - Firmware version 01.xx.yy.zz: "Execute Setup"
   - Firmware version from 02.xx.yy.zz: "Update SmartONE"



2. The following steps are similar to the installation using a USB stick, see Chapter 2.4.3, "Installation using a USB stick", on page 34, step 8 to step 11.

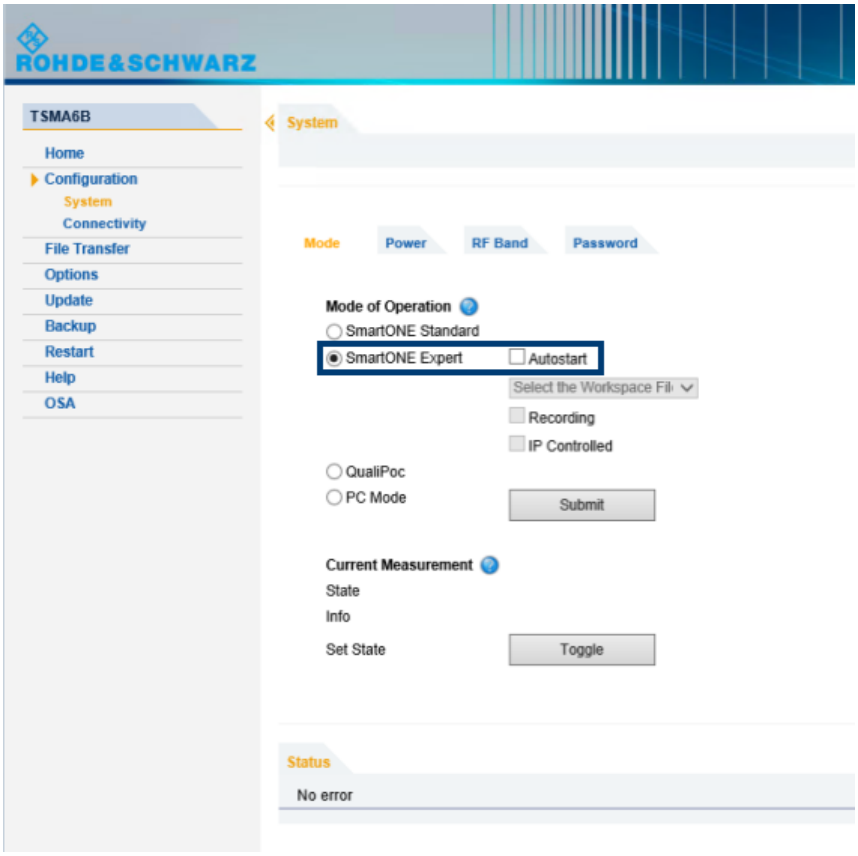
5.3.5 Initial software start / measurement mode selection

After the successful installation of R&S SmartONE, the device is always in the mode "QualiPoc".

Initial starting of SmartONE Expert (R&S ROMES)

1. Install the option key.
2. If used, connect the hardlock to a USB port.
3. Start the web GUI.
4. Navigate to "Configuration" > "System" > "Mode".
5. As "Mode of Operation", select "SmartONE Expert".

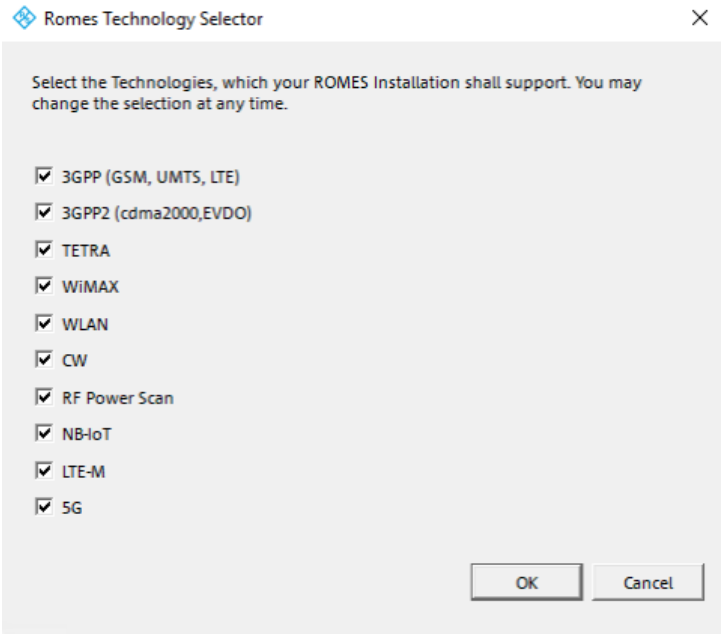
   Make sure, that "Autostart" is deselected and no workspace is selected.



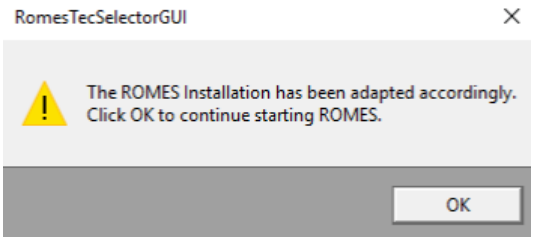
6. Press "Submit".

After starting R&S ROMES, configure the following settings.

1. In the "Romes Technology Selector", select the technologies to be supported by your ROMES installation.

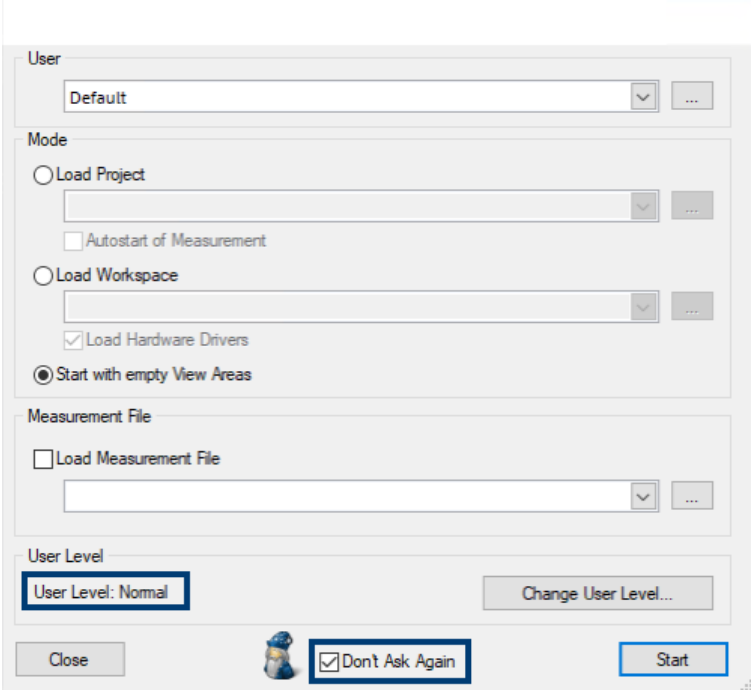


2. Press "OK".
3. In the "ROMESTecSelectorGUI" window, press "OK".

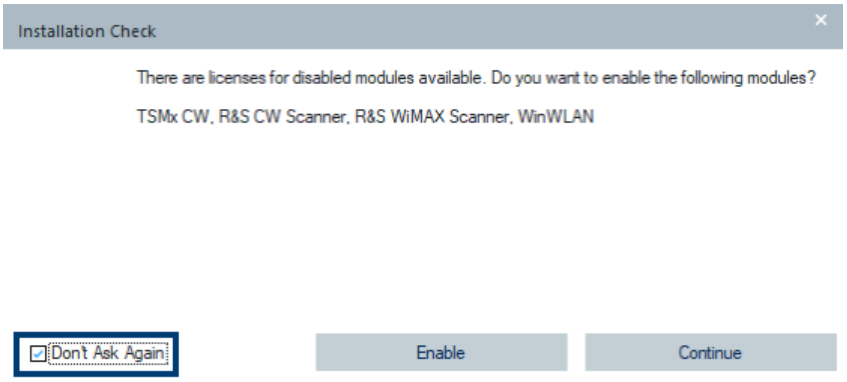


   The current installation is adapted according to your selection and the ROMES start process continues.

4. In the "User" window, check that the "User Level" is "Normal".
5. Select "Don't Ask again".



6. In the "Installation Check", select "Don't Ask again" and press "Continue".



Initial starting of SmartONE Standard (R&S SmartBenchmarker)

1. Start the web GUI.
2. Navigate to "Configuration" > "System" > "Mode".
3. As "Mode of Operation", select "SmartONE Standard".

For further details about using R&S SmartBenchmarker, refer to *SmartBenchmarker - Manual*.

6 Contacting 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:

Figure 6-1: QR code to the Rohde & Schwarz support page