

R&S®ETC

Compact TV Analyzer

Firmware Version 01.00

R&S®ETC View

PC Software

Firmware Version 01.00

Release Notes

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The following abbreviations are used throughout this document:
R&S®XYZ is abbreviated as R&S XYZ.

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1 Information on the Current R&S ETC Version

1.1 Version 1.00

Initial release.

New Functionality

-

Modified Functionality

-

Fixed Issues

-

Known Issues

-

2 Information on the Current R&S ETC View Version and History

2.1 Version 1.00

Initial release

3 Modifications to the Documentation

The latest manual can be downloaded from the R&S® ETC TV Analyzer product web page under: <http://www.rohde-schwarz.com>. Select "DOWNLOADS" and "MANUALS"

4 R&S ETC Firmware Update

The current firmware version is provided for download at <http://www.rohde-schwarz.com/downloads/firmware/etc.html>

In order to install the firmware, it must first be copied a USB memory stick for installing a new firmware version.

For information on updating software options refer to the Quick Reference Guide, chapter 2.

4.1 Preparing the USB Memory Stick

Download the firmware update package from the R&S website into an empty folder on your PC.

The update package comes as a self-extracting *.ZIP file, e.g. "ETC V1.00.EXE" for version 1.00.

Start the *.EXE file.

Select the folder for the extracted files.

Press the OK button to start the file extraction.

Copy all the files into the root directory of the USB memory stick. There is no need to create a subfolder for the files. The update will not work when the files are copied to subfolder.

The root directory of the USB memory stick should now contain the following files:

- bootloader_TA_V1_00.bin
- fpgaloadfile_TA_V1.00.bin
- osimage_TA_V1_00.bin
- updater_TA_V1_00.bin
- splashscreen_TA.bmp

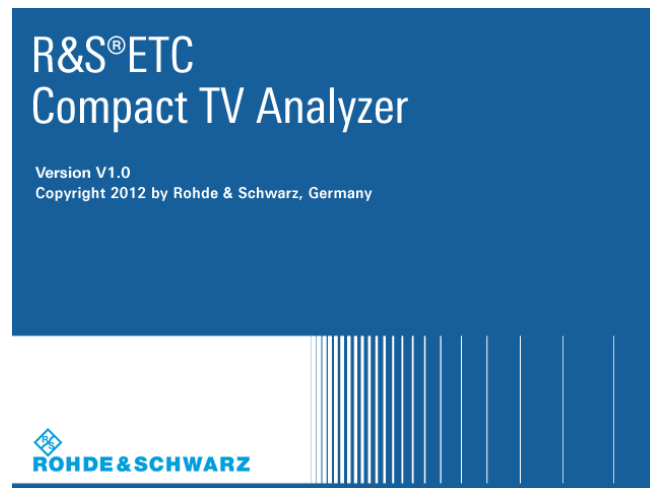
The USB memory stick is now ready for use.

4.2 Performing the Firmware Update

1. Switch off the instrument.
2. Insert the USB stick into the USB slot of the instrument.
3. Connect the instruments to AC mains via its AC power supply.
4. Press the keys PRESET and 8 on the numeric keypad simultaneously



5. Keep the PRESET and 8 keys pressed for at least 2 seconds after the startup screen has appeared on the screen.



6. Release the PRESET and 8 keys.
The R&S ETC will continue its booting process and after a couple of seconds the following information will appear on the screen:
- 7.

Instrument Firmware Update

Searching for firmware update (updater_*.bin)
... ..Found \ Storage Card \ updater ETC_bin
...OK
Checking updater _ETC_bin: ... OK

Update instrument to software version ...
Press [ENTER] to update the firmware.
Press [CANCEL] to abort firmware updating.

8. Press ENTER to start the firmware update process.
The instrument will perform the firmware update. This will take about 5 minutes.

The progress of the update will be displayed in a sequence of messages on the screen.

Notice: Do not switch the instrument off during the update process in order to avoid data corruption of the internal flash memory!
9. As soon as the firmware update is completed, the R&S ETC will display the following message at the bottom of the screen:

Firmware updating is successfully completed.
Please switch off the instrument.

10. Switch the instrument off and on again. The R&S ETC will boot with the new firmware version.

4.3 Loading the Default Files

The new firmware contains additional default files (channel tables, measurement profiles, limit tables, limit lines, cable models, transducers and standards). To load these default files, reset the R&S ETC to the factory settings. The reset to the factory settings deletes or overwrites all data sets and screenshots which you have previously stored on the instrument. The same holds true for all channel tables, measurement profiles, limit tables, limit lines, cable models, transducers, and standards which you have created or modified. Therefore make sure to create a backup with the R&S ETC View PC software of all data sets before calling the "Reset to Factory Settings" function. After the reset to the factory settings, you can reload all your data sets using the R&S ETC View PC software.

To load the additional default files

11. Create a backup with the R&S ETC View PC software of all data sets.
12. Reset the R&S ETC to the factory settings.
All default files are loaded.
13. Reload all your data sets using the R&S ETC View PC software.

5 R&S ETC View Installation

For details on the installation refer to the R&S ETC View Manual.

5.1 System Requirements

The minimum system requirements are the following:

- Pentium® processor or equivalent at 133 MHz or higher
- 64 MB free memory space
- 50 MB free hard disk space
- Display resolution SVGA (800 x 600)
- One free communications port (LAN or USB)
- Windows® 2000/XP/Vista operating system

6 Open Source Acknowledgement

This instrument firmware makes use of valuable open source software packages. The most important of them are listed below together with their corresponding open source license. The verbatim license texts are provided in the following chapters.

Package	Link	License
OpenSSL	http://www.openssl.org	OpenSSL/SSLLeavy
BOOST Library	http://www.boost.org	Boost Software, Version 1.0
ONC/RPC	http://www.plt.rwth-aachen.de	SUN

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com) and software written by Tim Hudson (tjh@cryptsoft.com).

Rohde & Schwarz would like to thank the open source community for their valuable contribution to embedded computing. The source code of the open source packages is available on request.

OpenSSL/SSLLeavy

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```

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Version 1.0 - August 17th, 2003

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