

# R&S® ETL

## TV Analyzer

# ETL Boot Manager (Grub) Update

## Firmware Version 1.02

This update is applicable for R&S® ETL instruments with Windows 8 only.

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

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# 1 ETL Boot Manager (Grub) Update

**Issue:**

With some USB devices (e.g. wireless mouse / keyboard) connected to the R&S ETL, the countdown shown in the ETL's recovery page during startup will stop at zero and will not close the recovery application.

**Related products:**

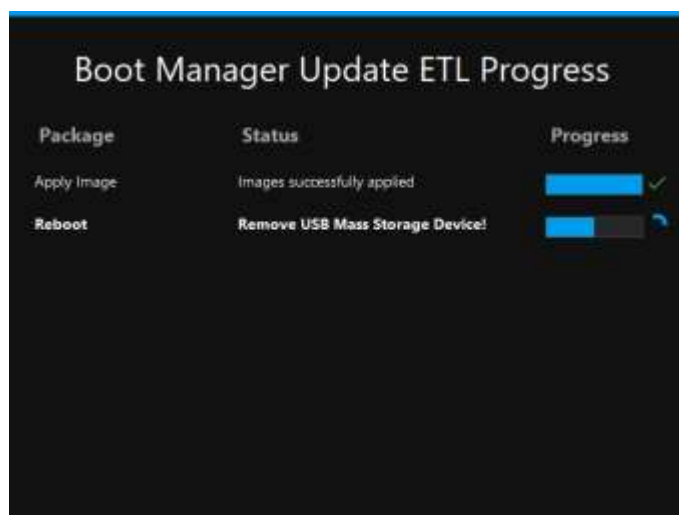
R&S ETL with Windows 8 and ETL image version 3.00 and 3.01. This fix is implemented in all ETLs with ETL image version 3.02 or higher.

This issue can be fixed by installing the Boot Manager Update (Grub Update):

1. Download the file "ETL-LPCA-W8\_32Bit-GrubOnlyRecoveryStick\_x\_xx.zip" from <https://www.rohde-schwarz.com/firmware/etl/> and unpack its contents to a local directory on your PC. Insert a USB stick (at least 8 GB) to your PC and run PrepareWinPEStick.exe to create a bootable USB stick containing the Boot Manager (Grub) Update.  
**Attention!** During this process, all previous data on the stick will be removed.
2. Connect the newly prepared USB stick to one of the USB connectors on the front panel of your ETL.
3. Connect a USB keyboard to the other USB connector.
4. Restart the ETL device.
5. While booting, press the DEL key on the USB keyboard to enter the BIOS setup menu.
6. In the "Boot" folder of the BIOS setup menu, move the cursor to "USB Boot order", and press ENTER.
7. Select "Always" and confirm with ENTER.
8. Exit the BIOS setup with F4 and confirm "Save configuration and exit?" with "Yes", by pressing Enter.
9. When rebooting the Windows PE (Preinstallation Environment) is started. After a while, the "Boot Manager Update ETL Overview" screen is shown.



10. Change your USB keyboard against a USB mouse and press “Start Update” to execute the Boot Manager (Grub) Update. The “Boot Manager Update ETL Progress” screen is shown during the update process.



11. When the message “Remove USB Mass Storage Device!” is shown, change your USB mouse to the USB keyboard. Then, remove your USB Grub Update stick. ETL will automatically reboot.
12. While booting, press the DEL key on the USB keyboard to enter the BIOS setup menu again.
13. In the “Boot” folder of the BIOS setup menu, move the cursor to “USB Boot order”, and press ENTER.
14. Select “Normal Boot Order” and confirm with ENTER.
15. Exit the BIOS setup with F4 and confirm “Save configuration and exit?” with “Yes”, by pressing Enter.

Now, the ETL Boot Manager will perform a proper countdown, even in case USB devices are connected to the ETL USB ports.

## 2 Important information for R&S® ETL instruments with serial number < 105000

R&S® ETL instruments that have been upgraded to Windows 8 by means of the upgrade kits ETL-U80/81/82 may still show an issue, when a mass memory device is connected to the ETL USB port. In this case, booting may take about 17 minutes. The following steps will solve this issue:

1. First, perform the update of the ETL Boot Manager (Grub), as described in section 1.
2. Connect a USB keyboard to the USB connector.
3. Restart the device.
4. While booting, press the DEL key on the USB keyboard to enter the ETL BIOS setup menu.
5. In the “Advanced” folder of the BIOS setup menu, move the cursor to “USB configuration” and press ENTER.
6. Select “Legacy USB Support” and press ENTER.
7. Select “Disabled” and confirm with ENTER.
8. Exit the BIOS setup with key F4 and confirm “Save configuration and exit?” with “Yes” by pressing Enter.

This procedure will still allow you to use the ETL USB port for normal operation like mouse, keyboard, wireless mouse/keyboard, and USB mass storage devices. However, when the “Legacy USB Support” is disabled, it will not be possible to boot from any external USB device. In this case, the “Legacy USB Support” has to be enabled again.

## 3 Customer Support

### **Technical support – where and when you need it**

For quick, expert help with any Rohde & Schwarz equipment, contact one of our Customer Support Centers. A team of highly qualified engineers provides telephone support and will work with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz equipment.

### **Up-to-date information and upgrades**

To keep your instrument up-to-date and to be informed about new application notes related to your instrument, please send an e-mail to the Customer Support Center stating your instrument and your wish. We will take care that you will get the right information.

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