R&S® UPV/UPP UPxSequencing
Release Notes
Software Version 1.2.6

The following abbreviations are used throughout this document:

R&S®UPP is abbreviated as UPP.

Table of Contents

1 Information on the Current Version and History

1.1 Version 1.2.6.0207

Component	FW/SW version
Setup_4.0.30135.exe or later	4.0.3
UPxSequencingSetup_1.2.60207	1.2.6

New Functionality

Now supporting UPV and UPP with newly added package "R&S Extended Audio Measurements"	**UPV UPP**

Modified / Improved Functionality

n/a	**SEQ**

Fixed Issues

Known Issues

Default position of progress bar: move to bottom left if additional text is displayed	**SEQ**
Exit in Simulation mode: Timeout due to attempt to establish a TCP-IP connection	**SEQ**
Remote desktop : during startup of UPX firmware operation via remote desktop might freeze the UPP startup. Workaround: • Do not open remote connection before UPP is "READY" or • Connect an external monitor before turning on UPP or (if UPP already was freezed) • End task via task manager, then restart UPP application and avoid any remote desktop activity before UPP is "READY"	**UPV UPP**

1.2 Version 1.2.5.0178

Component	FW/SW version
Setup_3.3.60833.exe or later	3.3.6
UPxSequencingSetup_1.2.50178	1.2.5

New Functionality

n/a	**SEQ**

Modified / Improved Functionality

n/a	**SEQ**

Fixed Issues

Legacy SDKs: Dolby Digital Plus for Consumer Broadcast Products is now supported by latest version of UPxSequencing.	**SEQ**

Known Issues

Default position of progress bar: move to bottom left if additional text is displayed	**SEQ**
Exit in Simulation mode: Timeout due to attempt to establish a TCP-IP connection	**SEQ**
PDF File: after creating PDF file the required memory is not freed but keeps occupied until next PDF is created or UPxSequencing is terminated.	**SEQ**
Remote desktop : during startup of UPP firmware operation via remote desktop might freeze the UPP startup. Workaround: • Do not open remote connection before UPP is "READY" or • Connect an external monitor before turning on UPP or (if UPP already was freezed) • End task via task manager, then restart UPP application and avoid any remote desktop activity before UPP is "READY"	**UPP**

1.3 Version 1.2.4.0177

Component	FW/SW version
Setup_3.3.60833.exe or later	3.3.6
UPxSequencingSetup_1.2.40177	1.2.4

New Functionality

Supports electrical and listening tests of Dolby MS11 System Test	**SEQ**

Modified / Improved Functionality

Dynamic Tree view: Depending on selections in Core configuration parts of the tree are disabled and collapsed.	**SEQ**
Improvement Closed-loop via SFC: automatic configuration (via remote commands) depending on selected modulator settings; one configuration is selected for programming	**SDK**

Fixed Issues

Listening tests with no operable entry: pressing the Play-button causes a crash due to negative index	**SEQ**

Known Issues

Default position of progress bar: move to bottom left if additional text is displayed	**SEQ**
Exit in Simulation mode: Timeout due to attempt to establish a TCP-IP connection	**SEQ**
PDF File: after creating PDF file the required memory is not freed but keeps occupied until next PDF is created or UPxSequencing is terminated.	**SEQ**

Remote desktop : during startup of UPP firmware operation via remote desktop might freeze the UPP startup. Workaround:
 	
• Do not open remote connection before UPP is "READY"
  or
 	
• Connect an external monitor before turning on UPP
  or (if UPP already was freezed)
 	
• End task via task manager, then restart UPP application and avoid any remote desktop activity before UPP is "READY"
	UPP

Legacy SDKs: Software crashes on loading of SDK "Dolby Digital Plus for Consumer Broadcast Products"; Preview window is empty.	**SEQ**

1.4 Version 1.2.3.0130

Component	FW/SW version
Setup_3.3.20805.exe	3.3.2
UPxSequencingSetup_1.2.30130	1.2.3

New Functionality

n/a	**SDK SEQ**

Modified / Improved Functionality

n/a	**SDK SEQ**

Fixed Issues

Writing database files: if file has been writing protected or (USB) medium has been removed, sequencer crashes. Same problem with backups.	**SEQ**
Closed-Loop measurements with SFC: communication errors; when performing "retry" sometimes stream is not reloaded/restarted	**SEQ**
Tree-View: When selecting a child in an empty test sequence i.e. "Channel Identification [2.2.1]", the parent objects must be checked in order to perform the test. This should be handled automatically.	**SEQ**
Tree-View: While performing a right click on an object, the focus and highlight should change to the current position.	**SEQ**

Known Issues

Default position of progress bar: move to bottom left if additional text is displayed	**SEQ**
Exit in Simulation mode: Timeout due to attempt to establish a TCP-IP connection	**SEQ**
Listening tests with no operable entry: pressing the Play-button causes a crash due to negative index (fixed but not released)	**SEQ**
Improvement Closed-loop via SFC: automatic configuration via remote commands depending on selected modulator settings (clarify: what to do if more than 1 configuration selected)	**SDK**

1.5 Version 1.2.2.0128

Component	FW/SW version
Setup_3.3.20805.exe	3.3.2
UPxSequencingSetup_1.2.20128	1.2.2
ddplus_broadcast_sys_test_v8_1.2.20128	1.2.2
rs_application_controller_1.2.20128	1.2.2

New Functionality

Supports Dolby Digital Plus For Consumer Broadcast Project, Issue 8,	**SDK**

version 2.3.1	**SEQ**

Allows "Open Loop" or "Closed Loop" operation mode:
 	
"Open Loop" mode can be used with any VHF/UHF modulator.
 	
"Closed Loop" mode supports
 	
    • Rohde & Schwarz SFC
 	
    • DekTec DTU-215; requires external PC / notebook with software "streamXpress"
 	
"Closed Loop" mode covers both electrical and listening standard tests; for internet enabled tests the streams must be loaded manually from an external hard disk to the USB port of the tested product (TV or settop box).
	SDK

Supports all analogue and digital interfaces including HDMI ARC (for TVs only)	**SDK**
While a test case is running in "Closed Loop" mode a progress dialog displays progress state (in %) and a list of all stream files played up to now on current output type.	**SDK**
Supports CEC handshake between R&S UPP and TV (required for measurements via HDMI ARC)	**UPP**

Modified / Improved Functionality

n/a	**SDK** **SEQ**

Fixed Issues

n/a	**SDK** **SEQ**

Known Issues

If the measurement result of 2.2.1 Channel Identification tests contain unwanted/wrong frequency components at very low level (< -40 dBr), the result is occasionally "pass" although measurement should "fail"	**SDK**

Abbreviations:

- **SEQ**: Sequencing software
- **SDK**: SDK test software
- **UPP**: UPP firmware

2 Software Update

Local Software Update

The software update is performed directly on the instrument, typically using an USB memory stick which contains the files for the software update.
Mouse and keyboard have to be connected to the instrument. In addition, an external monitor is required (DVI monitor). The appropriate connector is located on the rear.

See chapter 2.1 for details.

Remote Software Update

Alternatively the software update can be performed over LAN or GPIB from an external PC (running Windows XP). Connect the instrument via LAN or GPIB to the PC and run the software update from the PC.

See chapter 2.2 for details.

2.1 Local Software Update

1. **Save the current version (optional)**

   If you have to update the UPP firmware it is recommended to save the currently installed version. This can be done very easily and completely intuitive with the built-in recovery and backup tool. See UPx_FW_Release_Note_331.doc for details.

2. **Install the new software version on the UPP**

   - Switch on the instrument.

   - *Access Windows XP desktop*

     Operating with the mouse

     - Wait until R&S UPP software boot window with the progress bars appears.

     - Click on the ⬛ Cancel ⬛ button in the boot window. Booting of the instrument software is aborted and the Windows XP desktop is displayed.

     Operation with the keyboard

     - Wait until R&S instrument software has booted and the application has started.

     - Press ⬛ Alt ⬛ **+** ⬛ F4 ⬛ to close the application. The Windows XP desktop is displayed.

- *Install new UpxSequencing software version*

  - Plug in the USB memory stick which contains the update files.

  - Double-click the item **UPxSequencingSetup_1.2.60207.exe**

  - Keep the defaults and start the installation by selecting Next > Install.

  - When installation is complete – Tickbox unselected and indicating "(ok)" – select "Exit" to close the R&S Software Distributor.

- *Install new SDK test software version*

  - Plug in the USB memory stick which contains the update files.

  - Double-click the item **ddplus_broadcast_sys_test_v8_1.2.60207.exe**

  - Keep the defaults and start the installation by selecting Next > Install.

  - When installation is complete – Tickbox unselected and indicating "(ok)" – select "Exit" to close the R&S Software Distributor.

- *Install new UPP firmware version (if necessary)*

  - Plug in the USB memory stick which contains the update files.

  - Double-click the item **Setup_3.3.20805.exe**

  - Keep the defaults and start the installation by selecting Next > Install.

  - When installation is completed the instrument automatically shuts down.

  - Switch the instrument on again.

- *Install new R&S-Application-Controller version*

  This software must be installed on the external PC if you want to perform Closed-Loop measurement using DekTec DTU-215 and streamXpress.

  For Open-Loop measurement or when using R&S SFC in Closed-Loop this software is not required

  - Double-click the item **rs_application_controller_1.2.60207.exe**

  - Keep the defaults and start the installation by selecting Next > Install.

  - When installation is complete – Tickbox unselected and indicating "(ok)" – select "Exit" to close the R&S Software Distributor.

Depending on the installed version and the update version of the UPP firmware the installer may request that you run the item **UPxCheckPreconditions.exe** before you can install the new UPP firmware. In this case, please follow the instructions in section 2.3 "Firmware Installation" of UPx_FW_Release_Note_332.doc.

2.2 Remote Software Update

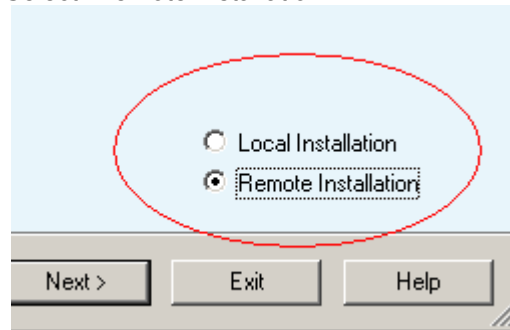1. **Save the current version (optional)**
    If you have to update the UPP firmware it is recommended to save the current version of the remote instrument by the operator, as described in section 2.1.

2. **Connect the remote instrument to your PC**
    The remote instrument may be connected to your PC via GPIB or via a LAN connection.
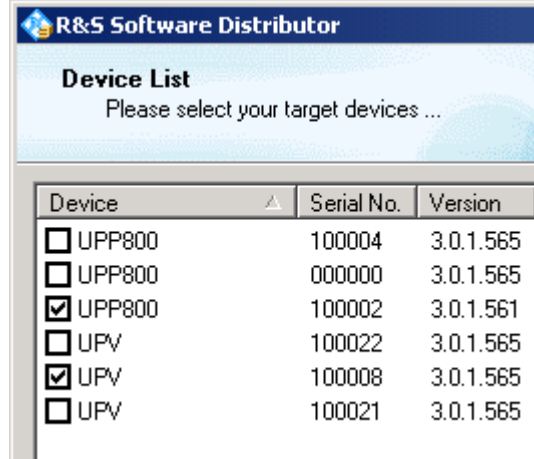
3. **Install the new software version**

    - Run **UPxSequencingSetup_1.2.60207.exe** on your PC
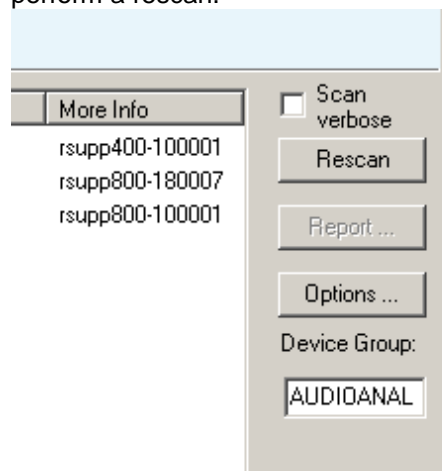
    - Select "Remote Installation"

    and click the button "Next >"

    - After scanning GPIB connections and your LAN subnet all found instruments are listed. Select the instruments you want to update:

    - If no audio analyzers are found even if they are connected to GPIB or LAN, please ensure that the **Device Group** is set to "**AUDIOANALYZER**" and

perform a rescan.

ATTENTION   Please be careful and check twice if you have selected the correct instruments. Depending on your company's network structure also instruments of other departments will show up!

- Additional help will be displayed after clicking the button "Help"
- Start installation by selecting "Install".
- As soon as status indicates "Ready; see report for details!" select "Exit" to close the R&S Software Distributor.
- Run **ddplus_broadcast_sys_test_v8_1.2.60207.exe** on your PC and follow the same procedure as described above. Select only *UPPx00* devices for update.
- If necessary run **Setup_3.3.20805.exe** on your PC to update the UPP firmware and follow the same procedure as described above.
- When installation is completed the instrument automatically shuts down.
- Switch instrument on again.

Depending on the installed version and the update version of the UPP firmware the installer may request that you run the item **UPxCheckPreconditions.exe** before you can install the new UPP firmware. In this case, you are not able to do the update via remote, please follow the instructions in section 2.3 "Firmware Installation" of UPx_FW_Release_Note_332.doc.

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3 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 on the documentation disk delivered with each instrument.

Package	Link	License
OpenSSL	http://www.openssl.org	OpenSSL/SSLeavy
Net-SNMP	http://www.net-snmp.org	NetSnmp-5.0.8
Xitami	http://www.xitami.com	2.5b6
PHP	http://www.php.net	PHP, Version 3
DOJO-AJAX	http://www.dojotoolkit.org	Academic Free License (BSD)
ResizableLib	http://www.geocities.com/ppescher	Artistic License
BOOST Library	http://www.boost.org	Boost Software, v.1
zlib	http://www.zlib.net	zlib, v.1.2.3
Xalan Xerces	http://xalan.apache.org/ http://xerces.apache.org/	Apache, Ver.2
ACE	http://www.cs.wustl.edu/~schmidt/ACE.html	ACE_TAO
TAO (The ACE ORB)	http://www.cs.wustl.edu/~schmidt/TAO.html	ACE_TAO
PC/SC-Lite	http://www.linuxnet.com/	PCSCLite
ONC/RPC	http://www.plt.rwth-aachen.de/index.php?id=258	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.

4 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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