

# History and release notes for the Rohde&Schwarz Audio Analyzer UPL

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<b>UPL driver history</b>		
Revision	Date	Note
3.1.2	11/2007	Modifications: Fixed decimal separator in: - RSUPL Data Write Block.vi - RSUPL Config Analyzer Func DC.vi * Added RSUPL Config Analyzer Single Filter Sel.vi
3.1.1	08/2005	Modifications:  * General changes/corrections: - Fixed palette menu  * Bugfixes: - RSUPL Error Query.vi - RSUPL Error Query (Multiple).vi
3.1	05/2004	Modifications: * General changes/corrections: - renamed VIs with '/' in the name: - RSUPL Config Save/Recall Setup.vi to RSUPL Config Save Recall Setup.vi - RSUPL Config Analyzer Func RMS S/N.vi to RSUPL Config Analyzer Func RMS S N.vi  * Bugfixes: - none -  * Additions: - none -  * deleted VIs: - none -  * new VIs: - none -
3.0	08/1999	Modifications: * General changes/corrections: - cluster inputs in all VIs with more than 6 inputs - connector panes: 5x5 type - improved code of Get* VIs (now in RSUPL_U.Ilb) - improved code of Data Read Block VI  * Bugfixes: - Config Gen Sweep Setup fixed bugs preventing user from loading x and z axis sweep list files - Config Analyzer Func DFD/Mod Dist/THD/THD+N/W+F/Waveform/Filt Sim VIs fixed bug issuing wrong UNIT command when only CH2 active in analyzer - Config Analyzer Func RMS/Peak/QPeak VIs fixed bug erroneously issuing UNIT commands in S/N Sequence mode  * Additions:

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		<ul style="list-style-type: none"> <li>- none -</li> <li>* deleted VIs:               <ul style="list-style-type: none"> <li>- none -</li> </ul> </li> <li>* new VIs:               <ul style="list-style-type: none"> <li>- none -</li> </ul> </li> </ul>
2.0	04/1998	<p>Modifications:</p> <ul style="list-style-type: none"> <li>* General changes/corrections:           <ul style="list-style-type: none"> <li>- Reference Level must not be zero - changed default value in all affected VIs</li> </ul> </li> <li>* Bugfixes:           <ul style="list-style-type: none"> <li>- Cfg Gen Func Sine VI A25 Generator: issue equalizer file load command only if "Equalization" == "on" (added Case Structure)</li> <li>- Cfg Analyzer Analog Setup VI added synchronisation command after instrument selection (wait for analyzer offset calibration)</li> <li>- Cfg Analyzer Trig VI renamed Start Condition 9/10 to "Freq Fast Ch1/2" (changed Front Panel and Description)</li> <li>- Cfg Analyzer Func RMS S/N VI, Cfg Analyzer Func FFT VI issue notch filter freq "FIX" command only if "Notch Gain" &lt;&gt; "off" (added Case Structure)</li> <li>- Cfg Analyzer Func Peak VI, Cfg Analyzer Func W+F VI added cases A22/A110 (Peak/W+F not supported in A110)</li> <li>- Cfg Analyzer Func QPeak VI issue notch filter freq "FIX" command only if "Notch Gain" &lt;&gt; "off" (added Case Structure) added cases A22/A110 (QPeak not supported in A110)</li> <li>- Cfg Analyzer Meas Inp Freq VI added cases A22/D48 (e.g. no Sample Frequency measurement in A22 instrument)</li> <li>- Data Read Block VI read 4n+1 bytes, process 4n bytes (UPL terminates data blocks with + ) added VISA error status check (errors in previous VIs appeared as Block Data Errors)</li> <li>- Application Example VI changed to universal analog generator (to make it run on models without option UPL-B2)</li> </ul> </li> <li>removed trigger VIs (not necessary for generator functions)</li> <li>* Additions:           <ul style="list-style-type: none"> <li>- Get Analyzer Mode VI added query A22/A110 and "instr mode" output (for Cfg Analyzer Func Peak/QPeak/W+F VIs)</li> <li>- Config Instr Display added control for disabling the cursor readout in the instrument's graphic display (enhances measurement speed)</li> </ul> </li> <li>* deleted VIs:           <ul style="list-style-type: none"> <li>- Screen Hardcopy is no longer supported by the driver (not of much use in remote mode)</li> </ul> </li> <li>* new VIs:           <ul style="list-style-type: none"> <li>- Meas Dual Channel VI [Data VIs] Reads the results from both channels at once (added for better consistency of the driver concept)</li> <li>- Set Freq &amp; Level VI [Action VIs] Directly accesses the generator's frequency and/or level controls without overhead</li> </ul> </li> </ul>

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		(useful for fast measurement loops controlled from LabVIEW) - Config Instr Audio Monitor VI [Config Instrument VIs] Configures the instrument's Audio Monitor (Option UPL-B6) - Config Instr Sense [Config Instrument VIs] Allows for disabling the instrument's sense systems 1 (Analyzer Function), 2 (Input Level) and 3 (Input Frequency) (enhances measurement speed)