

# Driver history for R&S®ETL TV Analyzer

## Driver Documentation

### Products:

R&S®ETL



Driver History Notes for LabVIEW,  
LabWindows/CVI and VXIplug&play  
Instrument Driver for C#, C/C++, Visual  
Basic .NET, VEE, etc

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# History for LabVIEW driver

Driver history for LabVIEW		
Revision	Date	Note
3.50.0	08/2018	<ul style="list-style-type: none"> <li>- Removed callback for command CALC:ATV:RES:CARR?</li> <li>- Fixed all VI and Control Description</li> <li>- Fixed and optimized all Palettes</li> <li>- Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons</li> <li>- Exchanged Driver Core 6.20.0 that enables Simulation mode and logging</li> <li>- All Express VI instances changed to new format with new context help</li> <li>- Cleaned up all the Front Panels and Block Diagrams</li> <li>- Changed Palette Icon and ExpressVI icon, Corrected Palette names</li> <li>- Fixed all simulation run-time errors</li> <li>- Several Bug-fixes</li> </ul>
3.40.0	07/2018	<p>New:</p> <ul style="list-style-type: none"> <li>Configure Digital TV T2 Profile.vi</li> <li>Configure Digital TV Shoulder Measurement Guideline.vi</li> <li>Configure Digital TV IQ Carrier Type.vi</li> <li>Query Digital TV Meas Log GPS Status.vi</li> <li>Configure Digital TV Meas Log GPS Device.vi</li> <li>Configure Digital TV Meas Log GPS TSMX.vi</li> <li>Query Digital TV Meas Log GPS TSMX Gyroscope Status.vi</li> <li>Query Digital TV Meas Log GPS TSMX Speed Pulse Status.vi</li> <li>Query Digital TV Meas Log GPS TSMX Gyroscope Calibration Status.vi</li> <li>Query Digital TV Meas Log GPS TSMX Speed Pulse Calibration Status.vi</li> <li>Configure Digital TV DTMB.vi</li> <li>Configure Digital TV DVB ISSY Processing.vi</li> <li>Configure Digital TV ATSC Select Parade By Service.vi</li> <li>Configure Radio Spectrum Mask.vi</li> <li>Configure Radio Stereo Pilot Noise.vi</li> <li>Configure Radio MPX Power Time Span.vi</li> <li>Configure Radio MPX Power Time Span Auto.vi</li> <li>Configure Radio MPX Samples.vi</li> <li>Radio OBW Adjust Settings.vi</li> <li>Configure Radio Marker Probability.vi</li> <li>Configure Radio Marker Probability Value.vi</li> <li>Query Radio Marker Deviation.vi</li> <li>Configure Radio MPX Deviation Limit.vi</li> <li>Configure Radio MPX Deviation Limit Ratio.vi</li> <li>Configure Radio OBW Upper Limit.vi</li> <li>Save CATV Measurement Log Results.vi</li> <li>Query Radio MPX Deviation Violation Result.vi</li> <li>Query Radio MPX Deviation Raw Samples Result.vi</li> </ul>

Driver history for LabVIEW		
Revision	Date	Note
		Query Radio OBW Result.vi Query Radio OBW Upper Limit Result.vi Modified: Configure Digital TV Modulation Errors Limit - new measurements Configure Radio Measurement.vi - new measurements Query Digital TV Modulation Errors Limit Result.vi - new measurements
2.61.0	12/2012	Driver update for TV Analyzer firmware 2.61  New: rsetl Query Digital TV Measurement Result.vi rsetl Query Digital TV DVB-T2 Overview Result.vi rsetl Query Digital TV L1-Pre Stream Type.vi rsetl Query CATV Attenuator State.vi rsetl Configure CATV Drive Test Mode.vi rsetl Query CATV Preamplicifier State.vi rsetl Configure CATV Display Echo Pattern MISO Signals.vi rsetl Configure Digital TV MER Optimization.vi rsetl Query Digital TV Transmitter Identification Information.vi rsetl Query Digital TV DVB-T2 Echo Pattern Peak Values Measurement Result.vi Modified: rsetl_core.lvlib version 4.0.0 rsetl Query Digital TV Overview Result.vi rsetl Query Digital TV ISDB-T Layer Specific Result.vi rsetl Query Digital TV L1-Pre T2 Version.vi rsetl Configure Digital TV Echo Pattern MER Shortened EQ Length.vi rsetl Configure Digital TV DVB-T2 Frame Parameters.vi rsetl Configure Digital TV DVB-T2 PLP.vi rsetl Configure Radio Stereo Decoder.vi rsetl Configure Radio Audio Generator.vi rsetl Configure Radio Audio Generator DUT.vi fixed connector: rsetl Query Digital TV Overview Settings DVBT.vi rsetl Query Digital TV ATSC-MH Overview Services.vi rsetl Query Digital TV TPC All Decoded Parades.vi rsetl Query Digital TV TPC All Subframes Structure.vi rsetl Query Digital TV TPC Decoded Parade.vi rsetl Configure SAN Frequency Center Span.vi - both commands sent at once rsetl Close.vi - GTL changed to LOC
2.40.1	02/2012	Modified VIs: rsetl Configure Instrument Mode.vi rsetl Query Instrument Mode.vi> rsetl Configure Digital TV Coding.vi

Driver history for LabVIEW		
Revision	Date	Note
		rsetl Configure CATV Level.vi rsetl Configure SAN Frequency Center Span.vi rsetl Configure SAN Level.vi rsetl Configure CATV Channel Frequency.vi
2.40.0	12/2011	Driver update for TV Analyzer firmware 2.40.0  New subsystems: Radio ATSC-MH DVB-T2 New VIs: rsetl Configure Analog TV Measurement Mode.vi rsetl Configure CATV Input MPX State.vi rsetl Configure CATV Display MER Phase Noise Reference.vi rsetl Configure CATV Display MER Phase Noise Range.vi rsetl Configure CATV Display GPS Position.vi rsetl Configure CATV Display Echo Pattern Peak List.vi rsetl Configure CATV Display Radio Diagram Full Size.vi rsetl Configure Digital TV MER Start Stop.vi rsetl Configure Digital TV MER Center Span.vi rsetl Configure Digital TV Echo Pattern Offset Threshold.vi rsetl Configure Digital TV Echo Pattern MER Shortened EQ State.vi rsetl Configure Digital TV Echo Pattern MER Shortened EQ Length.vi rsetl Configure Digital TV Echo Pattern Velocity Factor.vi rsetl Configure Digital TV Display Start Symbol.vi rsetl Configure Digital TV Display Frame Count.vi rsetl Configure Digital TV Display Cell Count.vi rsetl Configure Digital TV CN Measurement.vi rsetl Configure Digital TV Measurement Log GPS.vi rsetl Query Digital TV GPS Receiver State.vi rsetl Query Digital TV GPS Signal Quality.vi rsetl Query Digital TV GPS Position.vi rsetl Configure Digital TV Display Carrier.vi rsetl Configure Digital TV Data ID.vi rsetl Query Digital TV Data ID.vi rsetl Configure Digital TV DVBT2 Frame Parameters.vi rsetl Configure Digital TV DVBT2 PLP.vi rsetl Digital TV ATSCMH Scan SLT.vi rsetl Configure Digital TV ATSCMH Overview Limit.vi rsetl Query Digital TV MER Phase Noise Result.vi rsetl Configure Digital TV Echo Pattern Result.vi rsetl Query Digital TV ATSCMH Overview Limit.vi

Driver history for LabVIEW		
Revision	Date	Note
		Modified VIs: rsetl Configure Digital TV Measurement.vi rsetl Configure Digital TV Out Of Band Emissions.vi rsetl Configure Digital TV Measurement Log.vi rsetl Configure Digital TV Overview Zoom.vi rsetl Configure Digital TV Modul Error Zoom.vi rsetl Configure Digital TV Coding.vi rsetl Configure Digital TV Modulation Standard.vi rsetl Configure Digital TV IQ Source.vi rsetl Configure Digital TV Overview Limit.vi rsetl Query Digital TV Overview Limit Result.vi
1.95	08/2009	Support for R&S®ETL firmware 1.95  Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0  New VIs: rsetl Configure Analog TV Measurement Mode.vi rsetl Configure Analog TV Waveform Parameter.vi rsetl Configure Analog TV Waveform Location.vi rsetl Configure Analog TV Waveform Points.vi rsetl Configure Analog TV Waveform Center Width.vi rsetl Configure Digital TV Measurement Mode.vi rsetl Configure Digital TV Out Of Band Emissions.vi rsetl Configure Digital TV Out Of Band Emissions Setup T-DMB DAB.vi rsetl Configure Digital TV Out Of Band Emissions Setup ISDB-T.vi rsetl Configure Digital TV Out Of Band Emissions Setup Noise Floor Correction.vi rsetl Configure Digital TV Out Of Band Emissions Setup External Notch Filter.vi rsetl Configure Digital TV Spectrum Margin List.vi rsetl Configure Digital TV Overview Screen Select.vi rsetl Configure Digital TV Echo Threshold Line.vi rsetl Configure Digital TV Eye Diagram Time Span.vi rsetl Configure Digital TV ISDB-T Const Select.vi rsetl Configure Digital TV ISDB-T Constellation Diagram Data Carriers.vi rsetl Configure Digital TV ISDB-T X-Axis Unit.vi rsetl Configure Digital TV Display TMCC Next Values.vi rsetl Configure Digital TV ISDB-T Code Rate.vi rsetl Configure Digital TV ISDB-T Time Deinterleaver.vi rsetl Configure Digital TV ISDB-T Segments.vi rsetl Query Digital TV ISDB-T Segments.vi rsetl Configure Digital TV ISDB-T Modulation.vi

Driver history for LabVIEW		
Revision	Date	Note
		rsetl Configure Digital TV ISDB-T PartialReception.vi rsetl Configure Digital TV ISDB-T FFTWindow.vi rsetl Configure Digital TV ISDB-T Limit.vi rsetl Query Digital TV IQ Imbalance Result.vi rsetl Query Digital TV Ingress Diagram Equivalent Noise Bandwidth Result.vi rsetl Query Digital TV ISDB-T Layer Specific Result.vi rsetl Query Digital TV ISDB-T Overview TMCC System Information.vi rsetl Query Digital TV ISDB-T Overview TMCC Parameter Switching Indicator.vi rsetl Query Digital TV ISDB-T Overview TMCC Emergency Alarm Broadcasting.vi rsetl Query Digital TV ISDB-T Overview TMCC Current Partial Reception.vi rsetl Query Digital TV ISDB-T Overview TMCC Next Partial Reception.vi rsetl Query Digital TV ISDB-T Overview TMCC Phase Shift Correction.vi rsetl Query Digital TV ISDB-T Overview TMCC Reserved Bits.vi rsetl Query Digital TV ISDB-T Overview TMCC Modulation.vi rsetl Query Digital TV ISDB-T Overview TMCC Code Rate.vi rsetl Query Digital TV ISDB-T Overview TMCC Time Deinterleaver.vi rsetl Query Digital TV ISDB-T Overview TMCC Number Of Segments.vi rsetl Query Digital TV ISDB-T Limit Result.vi  Modified VIs: rsetl Configure Analog TV Measurement.vi rsetl Configure Analog TV Modulation Standard.vi rsetl Configure Digital TV Measurement.vi rsetl Configure Digital TV Modulation Standard.vi rsetl Configure Digital TV Modul Error Zoom.vi rsetl Configure Digital TV Overview Zoom.vi rsetl Configure Digital TV Measurement Log.vi rsetl Configure Digital TV MPEG TS Output.vi rsetl Query Digital TV Overview Result.vi rsetl Query Digital TV Modulation Errors Result.vi rsetl Configure SAN Hardcopy Device.vi
1.91	03/2009	Driver update for TV Analyzer firmware 1.91  New VIs: rsetl Configure CATV Frequency Center Span.vi rsetl Configure CATV Reference Level Auto.vi rsetl Configure CATV Level Display.vi rsetl Configure CATV Attenuation Mode.vi rsetl Configure CATV Input Selection.vi rsetl Configure CATV Audio State.vi rsetl Configure CATV Special Settings.vi rsetl CATV Copy Trace.vi

Driver history for LabVIEW		
Revision	Date	Note
		rsetl Configure CATV Display Set Window To Foreground.vi rsetl Configure Analog TV Averaging Depth.vi rsetl Configure Analog TV Reset Averaging Depth.vi rsetl Configure Analog TV Residual Picture Carrier.vi rsetl Configure Analog TV Video Generator.vi rsetl Configure Analog TV Test Signals.vi rsetl Configure Analog TV Test Lines.vi rsetl Query Analog TV Test Lines.vi rsetl Configure Analog TV Analysis Measurement Limit.vi rsetl Configure Analog TV Vision Modulation Unit.vi rsetl Configure Digital TV SFN Frequency Offset.vi rsetl Configure Digital TV Reference Frequency.vi rsetl Configure Digital TV Echo Pattern Measurement Sorting.vi rsetl Configure Digital TV Equalizer NTSC Rejection Filter.vi rsetl Configure Digital TV Frequency Range.vi rsetl Digital TV FIC Retrieve Data Set.vi rsetl Configure Digital TV T-DMB DAB Subchannel Settings.vi rsetl Configure Digital TV T-DMB DAB Synchronization Settings.vi rsetl Query Digital TV T-DMB DAB Number Of Subchannels.vi rsetl Query Digital TV T-DMB DAB Subchannel Organization.vi rsetl Query Digital TV T-DMB DAB Number Of Services.vi rsetl Query Digital TV T-DMB DAB Ensemble Information Services.vi rsetl Query Digital TV T-DMB DAB Number Of Service Components.vi rsetl Query Digital TV T-DMB DAB Ensemble Information Service Components.vi rsetl Configure Digital TV Transmission Mode.vi rsetl Configure Digital TV Guard Interval PN.vi rsetl Read Analog TV Achieved Averaging Depth.vi rsetl Query Analog TV Carrier Continuous Results.vi rsetl Query Analog TV Analysis Measurement Result.vi rsetl Query Analog TV Analysis Measurement Limit Result.vi rsetl Query Digital TV FIC Sync Status.vi rsetl Query Digital TV Margin List.vi rsetl Configure PWM Reference Level Offset State.vi rsetl Configure PWM Averaging.vi rsetl Query Power Supply.vi Modified VIs: rsetl Configure Analog TV Measurement.vi rsetl Configure Analog TV Modulation Standard.vi rsetl Configure Analog TV Vision Modulation Limit.vi rsetl Configure Digital TV Measurement.vi rsetl Configure Digital TV Modulation Standard.vi rsetl Configure Digital TV Channel Bandwidth.vi



Driver history for LabVIEW		
Revision	Date	Note
		rsetl Configure Digital TV Modul Error Zoom.vi rsetl Configure Digital TV System Optimization.vi rsetl Configure Digital TV Modulation Errors Limit.vi rsetl Read CATV Measurement Log Results.vi rsetl Query Analog TV Vision Modulation Result.vi rsetl Query Analog TV Vision Modulation Limit Result.vi rsetl Query Digital TV Overview Result.vi rsetl Query Digital TV Modulation Errors Result.vi rsetl Query Digital TV Modulation Errors Limit Result.vi rsetl Configure SAN IQ State.vi
1.77.1	08/2008	Driver for R&S®ETL TV Analyzer firmware version 1.77  - New VIs: - rsetl Error Checking.vi - Modified VIs: - rsetl Configure Digital TV Channel Bandwidth.vi
1.77	02/2008	Driver for R&S®ETL TV Analyzer firmware version 1.77  Initial revision - Initial Release

# History for LabWindows/CVI and VXIplug&play Driver

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
3.60.0	04/2021	<ul style="list-style-type: none"> <li>* New driver core 4.0</li> <li>* Improved help for rsetl_init(), rsetl_InitWithOptions()</li> <li>* Optimized help texts for status codes</li>   <li>* New:               <ul style="list-style-type: none"> <li>- rsetl_GetOPCTimeout</li> <li>- rsetl_SetOPCTimeout</li> <li>- rsetl_SetVisaTimeout</li> <li>- rsetl_GetVisaTimeout</li> <li>- rsetl_ClearStatus</li> <li>- rsetl_IDQueryResponse</li> <li>- rsetl_ProcessAllPreviousCommands</li> <li>- rsetl_QueryOpc</li> <li>- rsetl_ConfigureAutoSystemErrQuery</li> <li>- rsetl_ConfigureMultiThreadLocking</li> <li>- rsetl_WriteCommandWithOPCSync</li> <li>- rsetl_QueryWithOPCSync</li> </ul> </li>   <li>* Updated:               <ul style="list-style-type: none"> <li>- rsetl_QuerySANHDistHarmonicsList - API changed</li> <li>- rsetl_QuerySANTDomPowerPulseSequenceResult - API changed</li> <li>- rsetl_QueryCATVACarrierContinuousResults - API changed</li> </ul> </li>   <li>* Deleted:               <ul style="list-style-type: none"> <li>- rsetl_CheckAttributeViInt32</li> <li>- rsetl_CheckAttributeViInt64</li> <li>- rsetl_CheckAttributeViReal64</li> <li>- rsetl_CheckAttributeViBoolean</li> <li>- rsetl_CheckAttributeViSession</li> <li>- rsetl_CheckAttributeViString</li> <li>- rsetl_ReadInstrData</li> <li>- rsetl_GetAttributeViSession</li> <li>- rsetl_SetAttributeViSession</li> <li>- rsetl_ReadSANMemoryQLargeData</li> <li>- rsetl_ReadSANMemoryQLargeDataBlock</li> </ul> </li> </ul>
3.50.0	07/2018	- removed callback for CALC:ATV:RES:CARR? command

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
3.40.0	07/2018	<ul style="list-style-type: none"> <li>* Added functions/attributes:</li> <li>- rsetl_ConfigureDigitalTVT2Profile</li> <li>- rsetl_ConfigureDigitalTVShoulderMeasurementGuideline</li> <li>- rsetl_ConfigureDigitalTVIQCarrierType</li> <li>- rsetl_QueryDigitalTVMeasLogGPSStatus</li> <li>- rsetl_ConfigureDigitalTVMeasLogGPSDevice</li> <li>- rsetl_ConfigureDigitalTVMeasLogGPSTSMX</li> <li>- rsetl_QueryDigitalTVMeasLogGPSTSMXGyroscopeStatus</li> <li>- rsetl_QueryDigitalTVMeasLogGPSTSMXSpeedPulseStatus</li> <li>- rsetl_QueryDigitalTVMeasLogGPSTSMXGyroscopeCalibrationStatus</li> <li>- rsetl_QueryDigitalTVMeasLogGPSTSMXSpeedPulseCalibrationStatus</li> <li>- rsetl_ConfigureDigitalTVDTMB</li> <li>- rsetl_ConfigureDigitalTVDVBISSYProcessing</li> <li>- rsetl_ConfigureDigitalTVATSCSortList</li> <li>- rsetl_ConfigureDigitalTVATSCSelectParadeByService</li> <li>- rsetl_ConfigureRadioSpectrumMask</li> <li>- rsetl_ConfigureRadioStereoPilotNoise</li> <li>- rsetl_ConfigureRadioMPXPowerTimeSpan</li> <li>- rsetl_ConfigureRadioMPXPowerTimeSpanAuto</li> <li>- rsetl_ConfigureRadioMPXSamples</li> <li>- rsetl_RadioOBWAdjustSettings</li> <li>- rsetl_ConfigureRadioMarkerProbability</li> <li>- rsetl_ConfigureRadioMarkerProbabilityValue</li> <li>- rsetl_QueryRadioMarkerDeviation</li> <li>- rsetl_ConfigureRadioMPXDeviationLimit</li> <li>- rsetl_ConfigureRadioMPXDeviationLimitRatio</li> <li>- rsetl_ConfigureRadioOBWUpperLimit</li> <li>- rsetl_SaveCATVMeasurementLogResults</li> <li>- rsetl_QueryRadioMPXDeviationViolationResult</li> <li>- rsetl_QueryRadioMPXDeviationRawSamplesResult</li> <li>- rsetl_QueryRadioOBWResult</li> <li>- rsetl_QueryRadioOBWUpperLimitResult</li> <li>* Updates and fixes:</li> <li>- rsetl_ConfigureCATVModErrLimit - new measurements</li> <li>- rsetl_ConfigureRadioMeasurement - new measurements</li> <li>- rsetl_QueryCATVModulationErrorsLimitResult - new measurements</li> </ul>
2.61.0	12/2012	<p>Driver update for TV Analyzer firmware 2.61</p> <p>Modifications:</p> <ul style="list-style-type: none"> <li>* Added functions/attributes:</li> <li>- rsetl_QueryCATVDVBT2EPPVMeasurementResult</li> </ul>

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsetl_QueryCATVDTransmitterIdentificationInformation</li> <li>- rsetl_ConfigureCATVDisplayEchoPatternMISOSignals</li> <li>- rsetl_QueryCATVAttenuatorState</li> <li>- rsetl_ConfigureCATVDriveTestMode</li> <li>- rsetl_QueryCATVPreamplifierState</li> <li>- rsetl_ConfigureCATVDMEROptimization</li> <li>* Updates and fixes:</li> <li>- rsetl_ConfigureRadioAudioGeneratorDUT</li> <li>- rsetl_ConfigureSANFrequencyCenterSpan - both commands sent at once</li> <li>- rsetl_RsClose - GTL changed to LOC</li> </ul>
2.40.1	02/2012	<p>Modifications:</p> <ul style="list-style-type: none"> <li>- limits.h included into rsetl.c</li> <li>- rsetl_QueryRadioRDSService ... parameter PI renamed to PID (since LabWindows/CVI 8 is PI reserved as constant)</li> <li>- rsetl_ConfigureInstrumentMode .... mode TSAN, TSG, RAD added</li> <li>- rsetl_QueryInstrumentMode ... mode TSAN, TSG, RAD added</li> <li>- rsetl_ConfigureCATVDCoding ... help fixed</li> <li>- rsetl_ConfigureCATVLevel ... command order changed</li> <li>- rsetl_ConfigureSANFrequencyCenterSpan ... command order changed</li> <li>- rsetl_ConfigureSANLevel ... command order changed</li> <li>- rsetl_ConfigureCATVChannelFrequency ... help changed</li> </ul>
2.40.0	12/2011	<p>Driver update for TV Analyzer firmware 2.40</p> <p>* New subsystems:</p> <ul style="list-style-type: none"> <li>- Radio</li> <li>- ATSC-MH</li> <li>- DVB-T2</li> </ul> <p>* Added functions/attributes:</p> <p>* Updates:</p> <ul style="list-style-type: none"> <li>- rsetl_ConfigureCATVDMMeasurement - Added L1, MER Phase Noise, CFD, CPD, FIC, TPC, H/M measurements</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissions - command chanded OOBemissions -&gt; OOBemissions</li> <li>- rsetl_ConfigureCATVDMMeasurementLog - trace count increased to 4</li> <li>- rsetl_ConfigureCATVDOverviewZoom - added: BER before BCH decoder, BBFRAME error ratio, FIB errors, LDPC decoder Average count, MER(L1, RMS), MER(PLP, RMS), Legacy TS bit rate Main MPEG TS bit rate, MPEG TS bit rate</li> <li>- rsetl_ConfigureCATVDMModulErrorZoom - added: EVM(PLP, Peak), EVM(PLP, RMS), MER(L1, Peak), MER(L1, RMS), MER(PLP, Peak), MER(PLP, RMS)</li> <li>- rsetl_ConfigureCATVDCoding FFT modes added: F1K, F8KE, F16K, F16E, F32K, F32E Guard intervals added: 1/128, 19/128, 19/256</li> </ul>

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsetl_ConfigureCATVModulStandard - added DVB-T2, added ATSCM/MH, added BPSK modulation</li> <li>- rsetl_ConfigureCATVDIQSource - added P1 Symbol, OFDM Symbol, L1, PLP</li> <li>- rsetl_ConfigureCATVDOverLimit - added BER Before BCH Decoder, L1, PLP</li> <li>- rsetl_QueryCATVDOverviewLimitResult - added BER Before BCH Decoder, L1, PLP</li> <li>* New functions:</li> <li>- rsetl_ConfigureCATVInputMPXState</li> <li>- rsetl_ConfigureCATVDisplayMERPhaseNoiseReference</li> <li>- rsetl_ConfigureCATVDisplayMERPhaseNoiseRange</li> <li>- rsetl_ConfigureCATVDisplayGPSPosition</li> <li>- rsetl_ConfigureCATVDisplayEchoPatternPeakList</li> <li>- rsetl_ConfigureCATVDisplayRadioDiagramFullSize</li> <li>- rsetl_ConfigureCATVDMERStartStop</li> <li>- rsetl_ConfigureCATVDMERCenterSpan</li> <li>- rsetl_ConfigureCATVDEchoPatternOffsetThreshold</li> <li>- rsetl_ConfigureCATVDEchoPatternMERShortenedEQState</li> <li>- rsetl_ConfigureCATVDEchoPatternMERShortenedEQLength</li> <li>- rsetl_ConfigureCATVDEchoPatternVelocityFactor</li> <li>- rsetl_ConfigureCATVDDisplayStartSymbol</li> <li>- rsetl_ConfigureCATVDDisplayFrameCount</li> <li>- rsetl_ConfigureCATVDDisplayCellCount</li> <li>- rsetl_ConfigureCATVDCNMeasurement</li> <li>- rsetl_ConfigureCATVDMMeasurementLogGPS</li> <li>- rsetl_QueryCATVDGPSReceiverState</li> <li>- rsetl_QueryCATVDGPSSignalQuality</li> <li>- rsetl_QueryCATVDGPSPosition</li> <li>- rsetl_ConfigureCATVDDisplayCarrier</li> <li>- rsetl_ConfigureCATVDDataID</li> <li>- rsetl_QueryCATVDDataID</li> <li>- rsetl_ConfigureCATVDDVBT2FrameParameters</li> <li>- rsetl_ConfigureCATVDDVBT2PLP</li> <li>- rsetl_DigitalTVATSCMHScanSLT</li> <li>- rsetl_ConfigureCATVDATSCMHOverviewLimit</li> <li>- rsetl_QueryCATVDMERPhaseNoiseResult</li> <li>- rsetl_ConfigureCATVDEchoPatternResult</li> <li>- rsetl_QueryCATVDATSCMHOverviewLimit</li> </ul>
1.95	08/2009	<p>Support for R&amp;S®ETL firmware 1.95</p> <p>Initial Release for Linux, support for:</p> <ul style="list-style-type: none"> <li>- Mandriva Linux 2008 and Mandriva Linux 2009</li> <li>- openSUSE 10.3 and openSUSE 11.0</li> </ul>

## History for LabWindows/CVI and VXIplug&amp;play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.

Revision	Date	Note
		<ul style="list-style-type: none"> <li>* Added functions/attributes:</li> <li>- rsetl_ConfigureCATVAVMeasurementMode</li> <li>- rsetl_ConfigureCATVAVWaveformParameter</li> <li>- rsetl_ConfigureCATVAVWaveformLocation</li> <li>- rsetl_ConfigureCATVAVWaveformPoints</li> <li>- rsetl_ConfigureCATVAVWaveformCenterWidth</li> <li>- rsetl_ConfigureCATVDMMeasurementMode</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissions</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissionsSetupTDMBDAB</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissionsSetupISDBT</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissionsSetupNoiseFloorCorrection</li> <li>- rsetl_ConfigureCATVDOutOfBandEmissionsSetupExternalNotchFilter</li> <li>- rsetl_ConfigureCATVDSpectrumMarginList</li> <li>- rsetl_ConfigureCATVDOverviewScreenSelect</li> <li>- rsetl_ConfigureCATVDEchoThresholdLine</li> <li>- rsetl_ConfigureCATVDEyeDiagramTimeSpan</li> <li>- rsetl_ConfigureCATVDISDBTConstSelect</li> <li>- rsetl_ConfigureCATVDISDBTConstellationDiagramDataCarriers</li> <li>- rsetl_ConfigureCATVDISDBTAxisUnit</li> <li>- rsetl_ConfigureCATVDDisplayTMCCNextValues</li> <li>- rsetl_ConfigureCATVDISDBTCodeRate</li> <li>- rsetl_ConfigureCATVDISDBTTimeDeinterleaver</li> <li>- rsetl_ConfigureCATVDISDBTSegments</li> <li>- rsetl_QueryCATVDISDBTSegments</li> <li>- rsetl_ConfigureCATVDISDBTModulation</li> <li>- rsetl_ConfigureCATVDISDBTPartialReception</li> <li>- rsetl_ConfigureCATVDISDBTFFTWindow</li> <li>- rsetl_ConfigureCATVDISDBTLimit</li> <li>- rsetl_QueryCATVDIQImbalanceResult</li> <li>- rsetl_QueryCATVDIngressDiagramEquivalentNoiseBandwidthResult</li> <li>- rsetl_QueryCATVDISDBTLayerSpecificResult</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCSystemInformation</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCParameterSwitchingIndicator</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCEmergencyAlarmBroadcasting</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCCurrentPartialReception</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCNextPartialReception</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCPhaseShiftCorrection</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCReservedBits</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCModulation</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCCodeRate</li> <li>- rsetl_QueryCATVDISDBTOverviewTMCCTimeDeinterleaver</li> </ul>

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsetl_QueryCATVDISDBTOverviewTMCCNumberOfSegments</li> <li>- rsetl_QueryCATVDISDBTLimitResult</li> </ul> <p>* Updates and fixes:</p> <ul style="list-style-type: none"> <li>- rsetl_ConfigureCATVAMeasurement</li> <li>- rsetl_ConfigureCATVAModulStandard</li> <li>- rsetl_ConfigureCATVDMeasurement</li> <li>- rsetl_ConfigureCATVDModulStandard</li> <li>- rsetl_ConfigureCATVDModulErrorZoom</li> <li>- rsetl_ConfigureCATVDOverviewZoom</li> <li>- rsetl_ConfigureCATVDMeasurementLog</li> <li>- rsetl_ConfigureCATVDMPEGTSOutput</li> <li>- rsetl_QueryCATVDOverviewResult</li> <li>- rsetl_QueryCATVDModulationErrorsResult</li> <li>- rsetl_ConfigureSANHardcopyDevice</li> <li>- rsetl_GetError</li> </ul>
1.91	03/2009	<p>Driver update for TV Analyzer firmware 1.91</p> <p>Added functions/attributes:</p> <ul style="list-style-type: none"> <li>- rsetl_ConfigureCATVFrequencyCenterSpan</li> <li>- rsetl_ConfigureCATVReferenceLevelAuto</li> <li>- rsetl_ConfigureCATVLevelDisplay</li> <li>- rsetl_ConfigureCATVAttenuationMode</li> <li>- rsetl_ConfigureCATVInputSelection</li> <li>- rsetl_ConfigureCATVAudioState</li> <li>- rsetl_ConfigureCATVSpecialSettings</li> <li>- rsetl_CATVCopyTrace</li> <li>- rsetl_ConfigureCATTDisplaySetWindowToForeground</li> <li>- rsetl_ConfigureCATVAAveragingDepth</li> <li>- rsetl_ConfigureCATVAResetAveragingDepth</li> <li>- rsetl_ConfigureCATVAResidualPictureCarrier</li> <li>- rsetl_ConfigureCATVAVideoGenerator</li> <li>- rsetl_ConfigureCATVATestSignals</li> <li>- rsetl_ConfigureCATVATestLines</li> <li>- rsetl_QueryCATVATestLines</li> <li>- rsetl_ConfigureCATVAAAnalysisMeasurementLimit</li> <li>- rsetl_ConfigureCATVAVisionModulationUnit</li> <li>- rsetl_ConfigureCATVDSFNFrequencyOffset</li> <li>- rsetl_ConfigureCATVDRferenceFrequency</li> <li>- rsetl_ConfigureCATVDEchoPatternMeasurementSorting</li> <li>- rsetl_ConfigureCATVDEqualizerNTSCRejectionFilter</li> </ul>

History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsetl_ConfigureCATVDFrequencyRange</li> <li>- rsetl_CATVDFICRetrieveDataSet</li> <li>- rsetl_ConfigureCATVDTDMBDABSubchannelSettings</li> <li>- rsetl_ConfigureCATVDTDMBDABSynchronizationSettings</li> <li>- rsetl_QueryCATVDTDMBDABNumberOfSubchannels</li> <li>- rsetl_QueryCATVDTDMBDABSubchannelOrganization</li> <li>- rsetl_QueryCATVDTDMBDABNumberOfServices</li> <li>- rsetl_QueryCATVDTDMBDABEnsembleInformationServices</li> <li>- rsetl_QueryCATVDTDMBDABNumberOfServiceComponents</li> <li>- rsetl_QueryCATVDTDMBDABEnsembleInformationServiceComponents</li> <li>- rsetl_ConfigureCATVDTransmissionMode</li> <li>- rsetl_ConfigureCATVDGuardIntervalPN</li> <li>- rsetl_ReadCATVAAchievedAveragingDepth</li> <li>- rsetl_QueryCATVACarrierContinuousResults</li> <li>- rsetl_QueryCATVAAAnalysisMeasurementResult</li> <li>- rsetl_QueryCATVAAAnalysisMeasurementLimitResult</li> <li>- rsetl_QueryCATVDFICSyncStatus</li> <li>- rsetl_QueryCATVDMarginList</li> <li>- rsetl_ConfigurePWMReferenceLevelOffsetState</li> <li>- rsetl_ConfigurePWMAveraging</li> <li>- rsetl_QueryPowerSupply</li> <li>* Updates and fixes:</li> <li>- rsetl_ConfigureCATVAMeasurement</li> <li>- rsetl_ConfigureCATVAModulStandard</li> <li>- rsetl_ConfigureCATVAVisionModLimit</li> <li>- rsetl_ConfigureCATVDMeasurement</li> <li>- rsetl_ConfigureCATVDModulStandard</li> <li>- rsetl_ConfigureCATVDChannelBandwidth</li> <li>- rsetl_ConfigureCATVDModulErrorZoom</li> <li>- rsetl_ConfigureCATVDSystemOptimization</li> <li>- rsetl_ConfigureCATVDModErrLimit</li> <li>- rsetl_ReadCATVMeasurementLogResults</li> <li>- rsetl_QueryCATVAVisionModulationResult</li> <li>- rsetl_QueryCATVAVisionModulationLimitResult</li> <li>- rsetl_QueryCATVDOverviewResult</li> <li>- rsetl_QueryCATVDModulationErrorsResult</li> <li>- rsetl_QueryCATVDEPPVMeasurementResult</li> <li>- rsetl_QueryCATVDModulationErrorsLimitResult</li> <li>- rsetl_ConfigureSANIQState</li> <li>* Fixed rsidr_core - see rsidr_core.c for list of changes</li> </ul>



History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
1.77.1	08/2008	Driver for R&S®ETL TV Analyzer firmware version 1.77  New functions/attributes: - rsetl_setCheckStatus - Modified functions/attributes: - rsetl_ConfigureCATVDChannelBandwidth - rsetl_InitAttributes (Instrument Status Query enabled, set to ON)
1.77	02/2008	Driver for R&S®ETL TV Analyzer firmware version 1.77  Initial revision

### **About Rohde & Schwarz**

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