

History and release notes for the R&S EMI Test Receiver R&S ESCI, ESU and R&S Test Receiver R&S ESPI

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Driver history		
Revision	Date	Note
4.40.1	04/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * New features <ul style="list-style-type: none"> - Added support for R&S □ ESPI-K50 Firmware Option * New <ul style="list-style-type: none"> - RSESCI Set Channel List.vi - RSESCI Get Channel List.vi - RSESCI Set Channel List Scan.vi - RSESCI Get Channel List Scan.vi - RSESCI Set Channel List Store.vi - RSESCI Get Channel List Store.vi - RSESCI Set Trace Single.vi - RSESCI Get Trace Single.vi - RSESCI Set Trace Scan.vi
4.40.0	05/2010	<p>Driver update for R&S EMI Test Receivers firmware 4.4x</p> <p>Added support for ESPI instruments</p> <p>New features</p> <ul style="list-style-type: none"> - ACP User Standard * New VIs <ul style="list-style-type: none"> - rseSCI Set PLL Bandwidth Synchronization.vi - rseSCI Get PLL Bandwidth Synchronization.vi - rseSCI SetThirdOrder Intercept Function.vi - rseSCI GetThirdOrder Intercept Function.vi - rseSCI Get Harmonic BandwidthResolution.vi <p>Updates and fixes</p> <ul style="list-style-type: none"> - rseSCI Set External Reference Oscillator.vi - rseSCI Automatic Signal Search.vi - added wait for *OPC
4.30.0	05/2009	<p>Driver update for ESCI Firmware 4.32 and ESU Firmware 4.33</p> <ul style="list-style-type: none"> - New features <ul style="list-style-type: none"> Rectangular Calibration Signal Gated Ranges - New VIs <ul style="list-style-type: none"> RSESCI Set Scan Low Noise Preamplifier State.vi RSESCI Get Scan Low Noise Preamplifier State.vi RSESCI Set Scan Input.vi RSESCI Get Scan Input.vi RSESCI Set Scan Points.vi RSESCI Set Auto Marker Search.vi RSESCI Get Auto Marker Search.vi RSESCI Set Spurious Emissions Sweep Limit.vi RSESCI Get Spurious Emissions Sweep Limit.vi RSESCI Set Spurious Emissions Sweep Limit State.vi RSESCI Get Spurious Emissions Sweep Limit State.vi RSESCI Set Peak Search Auto.vi RSESCI Get Peak Search Auto.vi RSESCI Set Peak Search Addition.vi RSESCI Clear Peak Search List.vi RSESCI Send External Generator Command.vi RSESCI Query External Generator Command.vi RSESCI Get Active Limit Lines.vi RSESCI Get Active Window.vi RSESCI Set X Axis Display Spacing.vi RSESCI Get X Axis Display Spacing.vi RSESCI Set X Axis Display Zoom.vi

Driver history

Revision	Date	Note
		<p>RSESCI Get Active Transducer Factor.vi RSESCI Get Transducer Set Catalog.vi RSESCI Set IF Shift.vi RSESCI Get IF Shift.vi RSESCI Store Peak List.vi RSESCI Store Markers.vi</p> <p>- Updates and fixes RSESCI Data Set Items.vi - added new items RSESCI Set Hardcopy Output.vi - fixed command for REPORT mode</p>
3.8.0	08/2006	<p>Driver update for ESCI Firmware 3.82 and ESU Firmware 3.83</p> <p>- ESU support added</p> <p>New VIs:</p> <p>RSESCI Adjust Harmonic Distortion Settings.vi RSESCI Append Test Report.vi RSESCI Automatic Signal Search.vi RSESCI Check Before Read.vi RSESCI Check Model.vi RSESCI Clear Before Read.vi RSESCI Configure Analog Demodulation Filter.vi RSESCI Configure Input Mixer Level.vi RSESCI Configure Spurious Emissions Sweep List.vi RSESCI Configure Spurious Emissions Sweep Range.vi RSESCI Configure Spurious Emissions Sweep List.vi RSESCI Configure Test Report Page Settings.vi RSESCI Configure Tracking Generator Power Sweep.vi RSESCI Create New Test Report.vi RSESCI Data Set Catalog Long.vi RSESCI Get AM Modulation Measurement.vi RSESCI Get Analog Demodulation Filter Deemphasis.vi RSESCI Get Analog Demodulation Filter Frequency.vi RSESCI Get Analog Demodulation Filter State.vi RSESCI Get Analog Demodulation Phase Wrap.vi RSESCI Get Analog Demodulation Zero Phase Ref Point.vi RSESCI Get Calibration Signal Baseband Source.vi RSESCI Get Calibration Signal Destination.vi RSESCI Get Calibration Signal Pulse Frequency.vi RSESCI Get Calibration Signal Voltage.vi RSESCI Get Current Results.vi RSESCI Get Current Y Result.vi RSESCI Get Demodulation Bandwidth.vi RSESCI Get External Reference Oscillator Frequency.vi RSESCI Get FFT Filter Mode.vi RSESCI Get Hardcopy Output.vi RSESCI Get Harmonic Distortion Bandwidth State.vi RSESCI Get Harmonic Distortion Harmonics List.vi RSESCI Get Harmonic Distortion State.vi RSESCI Get Harmonic Distortion.vi RSESCI Get IF Bandwidth.vi RSESCI Get Input Mixer Level State.vi RSESCI Get Input Mixer Power.vi RSESCI Get Limit Line Catalog.vi RSESCI Get Link Marker And Delta Marker State.vi RSESCI Get Main PLL Bandwidth.vi RSESCI Get Marker Coupling.vi</p>

Driver history

Revision	Date	Note
		<p> RSESCI Get Multiple Power Measurement Averaging.vi RSESCI Get Number Of Harmonic Distortion.vi RSESCI Get Power Mode.vi RSESCI Get Power Unit.vi RSESCI Get RF Input Type.vi RSESCI Get Spurious Emissions Mode.vi RSESCI Get Spurious Emissions Number Of List Ranges.vi RSESCI Get Spurious Emissions Preamplifier State.vi RSESCI Get Spurious Emissions Sweep Attenuator Auto.vi RSESCI Get Spurious Emissions Sweep Attenuator Value.vi RSESCI Get Spurious Emissions Sweep Detector.vi RSESCI Get Spurious Emissions Sweep Filter.vi RSESCI Get Spurious Emissions Sweep Points.vi RSESCI Get Spurious Emissions Sweep RBW.vi RSESCI Get Spurious Emissions Sweep Ref Level.vi RSESCI Get Spurious Emissions Sweep Start.vi RSESCI Get Spurious Emissions Sweep Stop After Sweep.vi RSESCI Get Spurious Emissions Sweep Stop.vi RSESCI Get Spurious Emissions Sweep Time Auto.vi RSESCI Get Spurious Emissions Sweep Time.vi RSESCI Get Spurious Emissions Sweep Transducer Factor.vi RSESCI Get Spurious Emissions Sweep VBW.vi RSESCI Get Squelch Analyzer.vi RSESCI Get Squelch Receiver.vi RSESCI Get Statistics Y-Axis Unit.vi RSESCI Get Test Report Catalog.vi RSESCI Get Test Report Header Line State.vi RSESCI Get Test Report Header Line Text.vi RSESCI Get Test Report Header Line Title.vi RSESCI Get Test Report Header Logo State.vi RSESCI Get Trace Reset Behavi RSESCI Get Tracking Generator Power Sweep Mode.vi RSESCI Get Tracking Generator Power Sweep Start.vi RSESCI Get Tracking Generator Power Sweep Stop.vi RSESCI Get Transducer Factor Catalog.vi RSESCI Get Trigger Offset Adjust.vi RSESCI Get V-network High Pass.vi RSESCI Get V-network Phase Additional.vi RSESCI Get V-network Protection Earth Additional.vi RSESCI Get Y-Axis Scale Divi RSESCI Get YIG Correction State.vi RSESCI Initiate EMI Test.vi RSESCI Initiate Final Measurement Test.vi RSESCI Initiate Spurious.vi RSESCI Load Logo.vi RSESCI Query Signal Statistic CCDF Level.vi RSESCI Query Test Report Page Settings.vi RSESCI Read Additional Measurement Data.vi RSESCI Read IQ Trace Data Memory AIQ.vi RSESCI Read Spurious Emissions Peak List.vi RSESCI Reset RF Input Attenuation Protection.vi RSESCI Set AF Full Span.vi RSESCI Set Analog Demodulation Filter Deemphasis.vi RSESCI Set Analog Demodulation Filter Frequency.vi RSESCI Set Analog Demodulation Filter State.vi RSESCI Set Analog Demodulation Phase Wrap.vi RSESCI Set Analog Demodulation Zero Phase Ref Point.vi </p>

Driver history

Revision	Date	Note
		RSESCI Set Calibration Signal Baseband Source.vi RSESCI Set Calibration Signal Destination.vi RSESCI Set Calibration Signal Pulse Frequency.vi RSESCI Set Calibration Signal Voltage.vi RSESCI Set Demodulation Bandwidth.vi RSESCI Set External Reference Oscillator Frequency.vi RSESCI Set FFT Filter Mode.vi RSESCI Set Frequency Full Span.vi RSESCI Set Hardcopy Output.vi RSESCI Set Harmonic Distortion Bandwidth State.vi RSESCI Set Harmonic Distortion State.vi RSESCI Set IF Bandwidth.vi RSESCI Set Input Mixer Level State.vi RSESCI Set Input Mixer Power.vi RSESCI Set Link Marker And Delta Marker State.vi RSESCI Set Main PLL Bandwidth.vi RSESCI Set Marker Coupling.vi RSESCI Set Multiple Power Measurement Averaging.vi RSESCI Set Number Of Harmonic Distortion.vi RSESCI Set Power Mode.vi RSESCI Set Power Unit.vi RSESCI Set RF Input Type.vi RSESCI Set Spurious Emissions Mode.vi RSESCI Set Spurious Emissions Preamp State.vi RSESCI Set Spurious Emissions Sweep Attenuator Auto.vi RSESCI Set Spurious Emissions Sweep Attenuator Value.vi RSESCI Set Spurious Emissions Sweep Detector.vi RSESCI Set Spurious Emissions Sweep Filter.vi RSESCI Set Spurious Emissions Sweep Points.vi RSESCI Set Spurious Emissions Sweep RBW.vi RSESCI Set Spurious Emissions Sweep Ref Level.vi RSESCI Set Spurious Emissions Sweep Start.vi RSESCI Set Spurious Emissions Sweep Stop After Sweep.vi RSESCI Set Spurious Emissions Sweep Stop.vi RSESCI Set Spurious Emissions Sweep Time Auto.vi RSESCI Set Spurious Emissions Sweep Time.vi RSESCI Set Spurious Emissions Sweep Transducer Factor.vi RSESCI Set Spurious Emissions Sweep VBW.vi RSESCI Set Squelch Analyzer.vi RSESCI Set Squelch Receiver.vi RSESCI Set Statistics Y-Axis Unit.vi RSESCI Set Test Report Default Settings.vi RSESCI Set Test Report Header Line State.vi RSESCI Set Test Report Header Line Text.vi RSESCI Set Test Report Header Line Title.vi RSESCI Set Test Report Header Logo State.vi RSESCI Set Trace Reset Behavi RSESCI Set Tracking Generator Power Sweep Mode.vi RSESCI Set Tracking Generator Power Sweep Start.vi RSESCI Set Tracking Generator Power Sweep Stop.vi RSESCI Set Trigger Offset Adjust.vi RSESCI Set V-network High Pass.vi RSESCI Set V-network Phase Additional.vi RSESCI Set V-network Protection Earth Additional.vi RSESCI Set Y-Axis Scale Divi RSESCI Set YIG Correction State.vi RSESCI Spurious Emissions Delete Range.vi

Driver history

Revision	Date	Note
		<p>RSESCI State Checking.vi RSESCI Store Spurious Emissions to File.vi RSESCI Test Report Operations.vi RSESCI Tracking Generator Save As Transducer Factor.</p> <p>- Modified VIs:</p> <p>RSESCI Set Instrument Mode.vi RSESCI Get Instrument Mode.vi RSESCI Set Frequency Mode.vi RSESCI Get Frequency Mode.vi RSESCI Set Level Axis Unit.vi RSESCI Get Level Axis Unit.vi RSESCI Set Trace Detector.vi RSESCI Get Trace Detector.vi RSESCI Set CP ACP Standard.vi RSESCI Get CP ACP Standard.vi RSESCI Set Number of TX Channels.vi RSESCI Set TX ACP Channel Bandwidth.vi RSESCI Get TX ACP Channel Bandwidth.vi RSESCI Set ACP Channel Spacing.vi RSESCI Get ACP Channel Spacing.vi RSESCI Set ACP Limits.vi RSESCI Get ACP Limits.vi RSESCI Get ACP Limit Checking Result.vi RSESCI Get Signal Amplitude Statistics.vi RSESCI Set Final Receiver Detector.vi RSESCI Get Final Receiver Detector.vi RSESCI Set V-network Type.vi RSESCI Get V-network Type.vi RSESCI Set Limit Line Unit.vi RSESCI Get Limit Line Unit.vi RSESCI Reset Display Bargraph Maxhold.vi RSESCI Set Transducer Factor Unit.vi RSESCI Get Transducer Factor Unit.vi RSESCI Data Set Items.vi RSESCI Write Trace Data.vi RSESCI Read Trace Data.vi RSESCI Set External Generator Power.vi RSESCI Get External Generator Power.vi RSESCI Set Trigger Level.vi RSESCI Get Trigger Level.vi RSESCI Get Limit Line Threshold.vi RSESCI Multiple Burst Power Measurement Result.vi RSESCI Multiple Burst Power Measurement Result Minimum.vi RSESCI Get External FM.vi RSESCI Set Status Register.vi RSESCI Get Status Register.vi RSESCI Set Analog Demodulator Result Display.vi RSESCI Set Time Domain Result Types.vi RSESCI Get Time Domain Result Values.vi RSESCI Set Trigger Source.vi RSESCI Get Trigger Source.vi RSESCI Set Trace Detector Auto.vi RSESCI Get Trace Detector Auto.vi RSESCI Set Sweep Points.vi RSESCI Get Sweep Points.vi RSESCI Set Marker Zoom.vi RSESCI Error Message.vi</p>

Driver history		
Revision	Date	Note
		RSESCI Get Receiver Detector.vi RSESCI Set Transducer Set Values.vi RSESCI Set Mixed Instrument Mode.vi RSESCI Get Mixed Instrument Mode.vi
1.0.4	02/2006	Modifications - FORM ASCII restored after setting binary transfer
1.0.3	12/2005	Modifications: - fixed RSESCI Read Trace Data.vi - fixed RSESCI Read IQ Trace Data.vi - fixed RSESCI Read IQ Trace Data Memory.vi
1.0.2	09/2004	Modifications: - New function: rsesci_InitiateHardcopyToFile
1.0.1	08/2004	Modifications: - Remote-control command's description modified (removed colon ":" at begin) - Saving and Recalling Data Sets group is splitted (added File Group) - Group Firmware Update is extended with Compatibility Mode - New RSESCI Compatibility Mode.vi - Default instrument string is extended by "SYST:PRES:COMP OFF" command
1.0	07/2004	Created.

Additional Help for LabVIEW drivers

The LabVIEW instrument driver consists of a ZIP archive containing the driver sources (LLB and MNU files). In addition, the instrument driver documentation is included in compressed HTML format (Windows CHM help file) stored together with the LV driver sources.

Each VI's help is linked to the section in the "CHM" file that describes all the features of the VI.

- **LabVIEW 8.2 and higher** an additional help topic can be accessed directly by pressing "[Click here for more help](#)" in the Context Help