

History of the rsspecan 1.2x.x Driver for R&S®Spectrum Analyzers and R&S®ESL EMI Test Receiver Driver Documentation

Products:

R&S®FSW	R&S®FSL
R&S®FSV	R&S®ESL
R&S®FSVR	R&S®FSH4/8
R&S®FSP	R&S®FSC
R&S®FSU	R&S®FSUP
R&S®FSQ	R&S®FSMR
R&S®FMU	R&S®ZVH
R&S®FSG	

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

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1 Preamble

The R&S attribute-based Spectrum Analyzer instrument driver (rsspecan) gives great flexibility and ease of use by combining low-level access to nearly every SCPI command via attribute and well balanced high level functions and VIs, combining several attributes. For those who don't want to learn new attribute concept, complete functionality of instrument is covered by high level commands. In other words, you may use attributes, but you don't have to. Of course it is possible to combine both low level attributes and high level functions together exactly according to needs of every specific application.

Comparing to older family instrument drivers, the rsspecan driver supports a continuously growing number of R&S Spectrum Analyzers. Furthermore the source code rsspecan driver is divided into modules/folders according to personalities. This gives opportunity to easily get rid of non-used functions and VIs.

Rohde & Schwarz recommends the rsspecan driver for developing new and future-proof T&M applications.

2 Supported Instruments

In the following tables the supported R&S instruments and firmware versions, as well as the supported options, are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
FSW	1.10	
FSV	1.60SP1	
FSVR	1.57	
FSUP	4.67	
FSMR	4.76	
FSP	4.50	
FSU	4.71	
FSQ	4.75	
FMU	4.78	
FSG	4.79	
FSL	2.0	
ESL	1.82	
FSH4/8	2.40	
FSC	1.30	
ZVH	2.40	

3 LabVIEW

rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
1.23	02/2014	Added support for R&S FSH4/8, ZVH firmware 2.40 New: rsspecan System Time Shift.vi rsspecan Calibration Start.vi rsspecan Calibration Continue.vi rsspecan Configure Electrical Cable Time.vi rsspecan Query Electrical Cable Time.vi Modified: rsspecan System Reboot.vi - updated help
1.22.0	10/2013	Added support for R&S FSH4/8 firmware 2.30 New: rsspecan Configure SSA Spurious Emission Carrier.vi rsspecan Query LTE Downlink Measurement EVM Peak Current.vi rsspecan Query LTE Downlink Measurement RSRP.vi rsspecan Query LTE Downlink Measurement RSRQ.vi rsspecan Query LTE Downlink Measurement RSSI.vi rsspecan Query LTE Downlink Measurement SINR.vi Data Capture Saving Events Modified: rsspecan Move Marker.vi, rsspecan Marker Search.vi, rsspecan Query Marker.vi - fixed order of repeated capability identifiers rsspecan Instrument Status Checking.vi, rsspecan Set OPC Timeout.vi - fixed FGV action
1.21.1	07/2013	Cosmetic changes in help texts Modified: rsspecan Read Trace IQ Data.vi - removed byte swap rsspecan Transducer Select.vi - fixed callback
1.21.0	04/2013	Added support for R&S FSH4/8 firmware 2.20 New rsspecan Configure Trace Style.vi rsspecan Define Limit Line Shape.vi rsspecan Read SEM Peak List Portable.vi rsspecan Configure GSM K10 Training Sequence.vi rsspecan Configure GSM K10 Time Slot.vi rsspecan Fetch GSM K10 Base Station Id Code.vi rsspecan Fetch GSM K10 Modulation Type.vi rsspecan Fetch GSM K10 Burst Power.vi rsspecan Fetch GSM K10 RF Channel Power.vi rsspecan Fetch GSM K10 Analyzed Slot.vi rsspecan Fetch GSM K10 Traffic Activity.vi rsspecan Configure TDS BS Switching Point.vi rsspecan Configure TDS BS Scrambling Code.vi rsspecan Configure TDS BS Scrambling Code Auto Search.vi rsspecan Query C2K BST Code Domain Analyzer PN Scanner Results.vi rsspecan Configure LTE Downlink Cell Under Test Identity.vi Modified rsspecan Fetch GSM K10 Measurement Results.vi - EVM Slot rsspecan C2K BST Mode.vi - new command string for FSH rsspecan Configure LTE Downlink TDD Allocation.vi - range for FSH rsspecan Configure C2K BST Code Domain Analyzer Results.vi - added PN Scanner

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
1.20.0	12/2012	<p>Modifications:</p> <p>Added support for R&S FSH FW V. 2.0 and R&S FSMR 4.76</p> <p>New</p> <p>rsspecan Auto Search 3GPP FDD BS Scrambling Code.vi rsspecan Configure 3GPP FDD BS Frequency Error Units.vi rsspecan Configure Antenna Direction.vi rsspecan Configure Channel Table Link Direction.vi rsspecan Configure Channel Table UL DL Signal.vi rsspecan Configure Ethernet Remote Desktop Port.vi rsspecan Configure VSWR Y Scale Min Max.vi rsspecan Query LTE Downlink Measurement Sync Signal.vi rsspecan Query LTE Downlink Measurement Traffic Activity.vi rsspecan Query LTE Downlink Measurement Power.vi rsspecan Query LTE Downlink Measurement EVM.vi rsspecan Query Store Memory Info.vi rsspecan Query System Memory Info.vi rsspecan System Reboot.vi rsspecan Configure Measuring Receiver Autotune Threshold.vi rsspecan Measuring Receiver Clear Calibration Values.vi rsspecan Configure Measuring Receiver PWM Manual Value.vi rsspecan Configure Measuring Receiver ALC Fixed.vi</p> <p>Modified</p> <p>rsspecan Configure Marker Search Limits.vi rsspecan Get 3GPP FDD BS WCDP Result.vi</p>
1.19.0	03/2012	<p>Modifications:</p> <p>Added support for R&S FSH K43 - Receiver Mode</p> <p>Modified</p> <p>rsspecan Fetch TETRA ACP - added Average measurement type rsspecan Configure Scan Table Start Stop.vi rsspecan Configure Transducer Factor.vi rsspecan Select Transducer Factor.vi RSSPECAN_ATTR_AMPL_PREAMPLIFIER - options removed</p> <p>Modified Attributes for FSH</p> <p>RSSPECAN_ATTR_RECEIVER_MODE RSSPECAN_ATTR_MARKER_AOFF RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_STATE RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_LEFT RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_RIGHT RSSPECAN_ATTR_RECEIVER_SCAN_START RSSPECAN_ATTR_RECEIVER_SCAN_STOP RSSPECAN_ATTR_RECEIVER_SCAN_STEP_SIZE RSSPECAN_ATTR_DISP_REF_POSITION RSSPECAN_ATTR_ATTENUATION_MODE RSSPECAN_ATTR_FREQUENCY_MODE</p> <p>Added</p> <p>rsspecan Configure Receiver CISPR Bandwidth.vi rsspecan Read Receiver Trace Data.vi rsspecan Transducer Select.vi</p>
1.18.3	02/2012	<p>Modifications:</p> <p>rsspecan Fetch TETRA ACP - fixed</p> <p>Fixed co-existence with other core based drivers</p>
1.18.2	12/2011	<p>Modifications:</p> <p>rsspecan Configure Marker Band Power.vi (commands corrected)</p>

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsspecan Query Marker Band Power.vi (command corrected)
1.18.1	11/2011	Modifications: Fixed callbacks Fixed option checking
1.18.0	10/2011	<p>Modifications: Support for ZVH version 1.20 added, support of FSH network analyzer (v1.56) updated Support for dual trace (dual window) added for ZVH and FSH Support for FSQ version 4.75 added Support for FSH4/8 version 1.56 added</p> <p>Modified VIs: rsspecan Configure LTE Downlink PDSCH Configurable Subframes.vi - Range updated. rsspecan Configure WLAN FFT Start Offset.vi - now uses attribute RSSPECAN_ATTR_WLAN_FFT_START_OFFSET rsspecan Configure WLAN Spectrum Measurement.vi - now uses attribute RSSPECAN_ATTR_WLAN_SPEC_SEL rsspecan Configure WiMAX Trigger.vi - now uses attribute RSSPECAN_ATTR_WIMAX_TRIG_MODE rsspecan Query LTE Downlink Measurement Crest Factor.vi - now uses attribute RSSPECAN_ATTR_LTE_DOWNLINK_CREST_FACTOR_RESULT rsspecan Query LTE Uplink Measurement Crest Factor.vi - now uses attribute RSSPECAN_ATTR_LTE_UPLINK_CREST_FACTOR_RESULT rsspecan Query LTE Uplink Measurement Result Summary.vi - now uses attributes: RSSPECAN_ATTR_LTE_UPLINK_EVM_PUSCH_16QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PUSCH_64QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_QPSK_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_16QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PUCCH_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PRACH_RESULT rsspecan_ConfigureMarkerZoomPortable - window control added RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT rsspecan_ConfigureMagnitudeSpacing RSSPECAN_ATTR_NAN_MAGN_SPACING rsspecan_ConfigureSmithChartReferenceImpedance RSSPECAN_ATTR_NAN_SMITH_REF_IMPEDANCE rsspecan_ConfigureReflectionCoefficientUnit RSSPECAN_ATTR_NAN_REFL_COEFFICIENT_UNIT rsspecan_ConfigureTrackingGeneratorReferenceLevel RSSPECAN_ATTR_NAN_CABLE_REF_LEVEL RSSPECAN_ATTR_NAN_MAGN_REF_LEVEL RSSPECAN_ATTR_NAN_PHASE_REF_LEVEL RSSPECAN_ATTR_NAN_CABLE_REF_POSITION RSSPECAN_ATTR_NAN_MAGN_REF_POSITION RSSPECAN_ATTR_NAN_PHASE_REF_POSITION rsspecan_ConfigureGroupDelay RSSPECAN_ATTR_GDEL_REF_LEVEL RSSPECAN_ATTR_GDEL_REF_POSITION RSSPECAN_ATTR_GDEL_Y_SCALE rsspecan_ConfigureMarkerOutputFormat</p>

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Revision	Date	Note
		<p>RSSPECAN_ATTR_NETWORK_ANALYZER_MARKER_OUTPUT_FORMAT</p> <p>rsspecan_ConfigurePhaseUnwrap RSSPECAN_ATTR_NAN_PHASE_UNWRAP</p> <p>rsspecan_ConfigureNetworkAnalyzerMeasurement RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT</p> <p>rsspecan_ConfigureTrackingGeneratorYScale RSSPECAN_ATTR_USER_CALIBRATE_LENGTH - command changed rsspecan_ConfigureMarker - range checking modified according to ZVH and FSH rsspecan_ConfigureTrace rsspecan_MarkerSearch rsspecan_MoveMarker rsspecan_QueryMarker RSSPECAN_ATTR_GDEL_Y_SCALE - added range checking RSSPECAN_ATTR_NAN_CABLE_Y_SCALE RSSPECAN_ATTR_NAN_MAGN_Y_SCALE RSSPECAN_ATTR_NAN_PHASE_Y_SCALE RSSPECAN_ATTR_NAN_MAGN_REF_LEVEL RSSPECAN_ATTR_NAN_PHASE_REF_LEVEL RSSPECAN_ATTR_NAN_CABLE_REF_LEVEL RSSPECAN_ATTR_NAN_CABLE_REF_POSITION - increased value range RSSPECAN_ATTR_USER_CALIBRATE_OFFS - Port selection added rsspecan_ConfigureDistancetoFaultThreshold rsspecan_ConfigureMarkerOutputFormat - values label updated rsspecan_ConfigureTrackingGeneratorYScale - units forced to dB for magnitude rsspecan_ConfigureCATMeasurementMode - option checking added for "Transmission" rsspecan_ConfigureUserCaliyabrate - offset legth units changed from mm to m RSSPECAN_ATTR_USER_CALIBRATE_OFFS</p> <p>rsspecan_ConfigurePhaseUnwrap - command changed DISPlay:PHASe:Y:UNWRap to DISPlay:PHASe:UNWRap RSSPECAN_ATTR_NAN_PHASE_UNWRAP</p> <p>rsspecan_ConfigureNetworkAnalyzerMeasurement - new formats added (Reflection Coefficient, Smith Chart, VSWR, Vector Voltmeter), Magnitude phase (M Phase) format removed from GUI RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT</p> <p>rsspecan_ConfigureGroupDelay - unit changed from ns to s, data type of "Reference Level" control changed to Real, range updated RSSPECAN_ATTR_GDEL_REF_LEVEL</p> <p>Added: rsspecan Set LTE Downlink Mode FSH.vi rsspecan Set LTE Uplink Mode FSH.vi rsspecan Configure LTE Downlink Demodulation Calculation State.vi rsspecan Configure LTE Downlink Carrier Frequency Error Units.vi rsspecan Query LTE Downlink Measurement Power Result Summary.vi rsspecan Query LTE Downlink Measurement Channel.vi rsspecan Query LTE Downlink Measurement Reference Signal.vi rsspecan Query LTE Downlink Cell Identity.vi rsspecan Configure LTE Uplink Carrier Frequency Error Units.vi rsspecan Query LTE Uplink Measurement Power Result Summary.vi rsspecan Query LTE Uplink Measurement Channel.vi rsspecan Query LTE Uplink Measurement Reference Signal.vi rsspecan Query LTE Uplink Cell Identity.vi</p>

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsspecan Query TPIS Time Offset.vi RSSPECAN_ATTR_QUERY_TPIS_TIME_OFFSET rsspecan Configure 3GPP TAER BTS Carrier.vi RSSPECAN_ATTR_3GPP_TAER_CPICH_CODE_NUMBER RSSPECAN_ATTR_3GPP_TAER_ANTENNA_PATTERN RSSPECAN_ATTR_3GPP_TAER_FREQUENCY_OFFSET RSSPECAN_ATTR_3GPP_TAER_SCRAMBLING_CODE rsspecan Query 3GPP TAER BTS Number.vi RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER rsspecan 3GPP TAER BTS Operation.vi RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_INSERT RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_DELETE RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_DELETE_ALL rsspecan Query 3GPP TAER Table Catalog.vi RSSPECAN_ATTR_3GPP_TAER_TABLE_CATALOG rsspecan 3GPP TAER Table Operation.vi RSSPECAN_ATTR_3GPP_TAER_TABLE_DELETE RSSPECAN_ATTR_3GPP_TAER_TABLE_SAVE rsspecan 3GPP TAER Table Preset.vi RSSPECAN_ATTR_3GPP_TAER_TABLE_PRESET rsspecan Configure WLAN Number Of Antennas.vi RSSPECAN_ATTR_WLAN_NUMBER_OF_ANTENNAS rsspecan Configure WLAN MIMO DUT Configuration.vi RSSPECAN_ATTR_WLAN_MIMO_DUT_CONFIGURATION rsspecan Configure WLAN MIMO Antenna Signal Capture.vi RSSPECAN_ATTR_WLAN_MIMO_ANT_SIGNAL_CAPTURE_TYPE rsspecan Configure WLAN STC MIMO.vi RSSPECAN_ATTR_WLAN_ANALYZER_STATE RSSPECAN_ATTR_WLAN_ANALYZER_ADDRESS RSSPECAN_ATTR_WLAN_ANTENNA_CONFIGURATION rsspecan Configure WLAN MIMO Sequential Capture Setup.vi RSSPECAN_ATTR_WLAN_MIMO_OSP_IP_ADDRESS RSSPECAN_ATTR_WLAN_MIMO_OSP_SWITCH_MODULE rsspecan Configure WLAN RBW Filter.vi RSSPECAN_ATTR_WLAN_RBW_FILTER rsspecan Configure WLAN Bursts To Analyze Settings.vi RSSPECAN_ATTR_WLAN_BURST_TYPE_TO_MEASURE RSSPECAN_ATTR_WLAN_CHANNEL_BANDWIDTH_TO_MEAS RSSPECAN_ATTR_WLAN_GUARD_INTERVAL_LEGTH RSSPECAN_ATTR_WLAN_STBC RSSPECAN_ATTR_WLAN_EXT_SPATIAL_STREAMS RSSPECAN_ATTR_WLAN_SOURCE_OF_PAYLOAD_LENGTH rsspecan Configure WLAN MCS.vi RSSPECAN_ATTR_WLAN_MCS_INDEX_TO_USE_FBUR RSSPECAN_ATTR_WLAN_MCS_INDEX rsspecan Configure WLAN MIMO Spatial Mapping Configuration.vi RSSPECAN_ATTR_WLAN_MIMO_SPATIAL_MAPPING_MODE RSSPECAN_ATTR_WLAN_MIMO_POWER_NORMALISE rsspecan Configure WLAN MIMO UDF Spatial Mapping Antenna.vi rsspecan Configure WLAN MIMO UDF Spatial Mapping Stream.vi RSSPECAN_ATTR_WLAN_MIMO_UDFSPATIAL_MAPPING_TIME_SHIFT rsspecan Configure WLAN Channel Select.vi RSSPECAN_ATTR_WLAN_SPEC_CSEL rsspecan Fetch WLAN Burst Error Rate For Pilots.vi RSSPECAN_ATTR_WLAN_FETC_BERPILOT

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsspecan Configure WiMAX Constellation Diagram Normalization.vi RSSPECAN_ATTR_LTE_DOWNLINK_CONSTELLATION_DIAGRAM rsspecan Configure LTE Downlink Data Analysis Settings.vi RSSPECAN_ATTR_LTE_DOWNLINK_PDSCH_SUBFRAME_DETECT RSSPECAN_ATTR_LTE_DOWNLINK_BOOSTING_ESTIMATION RSSPECAN_ATTR_LTE_DOWNLINK_PDSCH_REFERENCE_DATA RSSPECAN_ATTR_LTE_DOWNLINK_MULTICARRIER_FILTER rsspecan Query LTE Downlink Measurement RSTP.vi RSSPECAN_ATTR_LTE_DOWNLINK_RSTP_RESULT rsspecan Configure LTE Uplink Suppressed Interference Synchronization.vi RSSPECAN_ATTR_LTE_UPLINK_SUPPRESSED_INTERFERENCE_SYNC rsspecan Configure LTE Uplink Slot Selection.vi RSSPECAN_ATTR_LTE_UPLINK_SLOT_SELECTION rsspecan Applications Versions.vi RSSPECAN_ATTR_APPLICATIONS_VERSIONS rsspecan_ConfigureEthernetGateway rsspecan_ConfigureCalibrationDiscard rsspecan_ConfigureUserPreset rsspecan_ConfigureMarkerZoomYPortable rsspecan_ConfigureInterferenceSuppressionState rsspecan_ConfigureInterferenceSuppressionApertureSize rsspecan_ConfigureNetworkAnalyzerSMeasurementResult rsspecan_QueryComplexMarker rsspecan_ConfigurePortOffsetLength
1.17.0	09/2011	Modifications: Support for FSUP version 4.67 added Support for FSW version 1.10 added Modified rsspecan Get Transducer Factor Catalog.vi - added FSUP support rsspecan Configure SSA VCO Loop Premeasurement.vi - added attribute: RSSPECAN_ATTR_SSA_PREMEAS_NEW rsspecan Configure IF Output Source.vi - added FSW support rsspecan Configure Trigger Source.vi - added: Trigger Source - External 2, External 3, IQ Power rsspecan Configure External Gate.vi - added: Gate Source - External 2, External 3, IQ Power rsspecan Configure Display Zoom.vi - added FSW support rsspecan Configure Auto Adjust.vi - added FSW support Added DISPLAY/LAYOUT Subsystem TRIGGER/OUTPUT Subsystem rsspecan Create Transducer Factor.vi RSSPECAN_ATTR_TFAC_CREATE rsspecan Configure SSA Phase Frequency Axis Truncation.vi RSSPECAN_ATTR_SSA_FREQUENCY_AXIS_TRUNCATION rsspecan Configure SSA Phase Spot Noise List.vi RSSPECAN_ATTR_SSA_SPOT_NOISE_LIST rsspecan Configure SSA Phase Spur List.vi RSSPECAN_ATTR_SSA_SPUR_LIST rsspecan Configure SSA Phase Spurs Highlight.vi RSSPECAN_ATTR_SSA_SPURS_HIGHLIGHT rsspecan Configure SSA VCO Marker Coupling.vi RSSPECAN_ATTR_SSA_MARKER_COUPLING rsspecan Configure SSA VCO Loop Frequency Band.vi RSSPECAN_ATTR_SSA_ADET_GAIN rsspecan Configure SSA VCO Loop DUT Type.vi

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		RSSPECAN_ATTR_SSA_DUT_TYPE rsspecan Configure IF Out Frequency.vi RSSPECAN_ATTR_IF_OUTPUT_FREQUENCY rsspecan Configure Noise Source.vi RSSPECAN_ATTR_NOISE_SOURCE_STATE rsspecan Configure Trigger Dropout Time.vi RSSPECAN_ATTR_TRIGGER_DROPOUT_TIME rsspecan Configure External Trigger Port.vi RSSPECAN_ATTR_EXTERNAL_TRIGGER_LEVEL_PORT rsspecan Configure Highpass Filter.vi RSSPECAN_ATTR_AMPL_HIGHPASS_FILTER rsspecan Configure Display Multiple Zoom.vi rsspecan Configure SE Sweep List Preamplifier Level.vi RSSPECAN_ATTR_SE_LIST_RANG_INP_GAIN_LEVEL rsspecan Configure SEM Range RF Preamplifier Level.vi RSSPECAN_ATTR_SEM_RANGE_PREAMPLIFIER_LEVEL rsspecan Configure Reciever Preamplification Level.vi RSSPECAN_ATTR_AMPL_PREAMPLIFIER_LEVEL
1.16.0	07/2011	Modifications: Support for FSV version 1.60 added Modified RSSPECAN_ATTR_ACP_USER_STD_SET - added FSV support rsspecan Configure GSM K10 Burst.vi - added: Access Burst Type, TS 0, TS 1, TS 2 rsspecan Configure GSM K10 Measurement.vi - added Trigger to Sync measurement rsspecan Read GSM K10 Measurement Results.vi - added results for Trigger to Sync measurement RSSPECAN_ATTR_READ_GSM_K10_TRIGGER_TO_SYNC_RESULTS rsspecan Load Wlan IQ Data.vi - now uses attribute RSSPECAN_ATTR_LOAD_IQ_DATA rsspecan Load WiMAX IQ Data.vi - now uses attribute RSSPECAN_ATTR_LOAD_IQ_DATA rsspecan Store Wlan IQ Data.vi - now uses attribute RSSPECAN_ATTR_SAVE_IQ_DATA rsspecan Store WiMAX IQ Data.vi - now uses attribute RSSPECAN_ATTR_SAVE_IQ_DATA RSSPECAN_ATTR_IQ_DATA_EXPORT_FILE_DESCRIPTION - added FSV support rsspecan Configure Trigger Source.vi - Baseband power added (RSSPECAN_ATTR_TRIGGER_SOURCE) rsspecan Configure External Gate.vi - Power Sensor as Gate Source is available for FSV rsspecan Configure WiMAX Trigger.vi - added Power Sensor, RF Power trigger mode (RSSPECAN_ATTR_WIMAX_TRIG_MODE) rsspecan Configure Wlan Trigger.vi - added Power Sensor, RF Power trigger mode (RSSPECAN_ATTR_WLAN_TRIG_MODE) RSSPECAN_ATTR_VSA_RESULT_FORMAT - added None, IQCorr RSSPECAN_ATTR_VSA_TX_FILTER_TYPE - added user defined filter type RSSPECAN_ATTR_VSA_MEASUREMENT_FILTER_TYPE - added user defined filter type rsspecan Read VSA Trace Data.vi - new traces added rsspecan File Directory.vi - fixed portable instruments support Added RSSPECAN_ATTR_GSM_K10_MEAS_TRIGGER_TO_SYNC rsspecan Configure GSM K10 Trigger To Sync.vi RSSPECAN_ATTR_GSM_K10_TRIGGER_TO_SYNC_BINS_COUNT RSSPECAN_ATTR_GSM_K10_TRIGGER_TO_SYNC_ADAPTIVE_DATA_SIZE rsspecan Configure GSM K10 Wide Spectrum Results Unit.vi RSSPECAN_ATTR_GSM_K10_WIDE_SPECTRUM_UNIT rsspecan Read GSM K10 Spectrum Reference Power.vi rsspecan Fetch GSM K10 Spectrum Reference Power.vi rsspecan Assign Marker To Trace.vi RSSPECAN_ATTR_NOISE_ASSIGN_MARKER_TO_TRACE

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		rsspecan Configure 3GPP BS Mode.vi RSSPECAN_ATTR_3GPP_BS_STANDARD rsspecan Configure PWM External Power Trigger Advanced.vi RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_HYSTERESIS RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_DROPOUT_TIME RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_HOLDOFF_TIME RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_SLOPE rsspecan VSA Refresh Captured Data.vi RSSPECAN_ATTR_VSA_REFRESH_CAPTURED_DATA rsspecan Configure VSA User Defined TX Filter.vi RSSPECAN_ATTR_VSA_TX_FILTER_USER_FILE rsspecan Configure VSA User Defined Measurement Filter.vi RSSPECAN_ATTR_VSA_MEASUREMENT_FILTER_USER_FILE rsspecan set VSA Modulation Status Register.vi rsspecan get VSA Modulation Status Register.vi RSSPECAN_ATTR_VSA_MODULATON_QUESTIONABLE_REGISTER rsspecan Configure VSA Limits Default.vi RSSPECAN_ATTR_VSA_LIMIT_MODULATION_ACCURACY_DEFAULTS RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_STATE rsspecan Configure VSA Limits EVM.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_EVM rsspecan Configure VSA Limits Phase Error.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_PHASE_ERROR rsspecan Configure VSA Limits Magnitude Error.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_MAGNITUDE_ERROR rsspecan Configure VSA Limits Carrier Frequency Error.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_CARRIER_FREQUENCY_ERROR rsspecan Configure VSA Limits RHO.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_RHO rsspecan Configure VSA Limits IQ Offset.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_IQ_OFFSET rsspecan Configure VSA Limits Frequency Error.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_FREQUENCY_ERROR rsspecan Configure VSA Limits Frequency Deviation Error.vi RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_FREQUENCY_DEVIATION_ERROR rsspecan VSA Refresh Captured Data.vi RSSPECAN_ATTR_VSA_REFRESH_CAPTURED_DATA rsspecan Query VSA Modulation Accuracy Limits Check Results.vi RSSPECAN_ATTR_VSA_QUERY_MOD_ACC_LIMIT_CHECK_RESULT rsspecan Query VSA Modulation Accuracy Statistic Results.vi
1.15.0	05/2011	Modifications: Support for FSV version 1.55 added Support for FSVR version 1.54 added Support for FSP version 4.60 added Support for FSU version 4.61 added Support for FSQ version 4.65 added Support for FSP New Vector Signal Analysis API K54 support added Better FSC and ZVH support New: rsspecan Configure Spectrum Display.vi rsspecan Trace IQ Record Length.vi rsspecan Configure Reference Marker.vi rsspecan Query Trigger PositionIn Sample.vi

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Driver history for LabVIEW		
Revision	Date	Note
		rsspecan Configure External Generator Frequency.vi rsspecan Configure ADemod Filter AWeighting.vi rsspecan Configure Spectrogram FFT Window.vi rsspecan Store Spectrogram To File.vi rsspecan Configure Frequency Mask Trigger Source.vi rsspecan Configure VSA Include IQ Data.vi rsspecan Lock Local Key.vi rsspecan Activate Marker Peak Search.vi rsspecan Configure Marker Peak List Settings.vi rsspecan Configure GSM K10 Trace.vi rsspecan Configure GSM K10 Access Burst.vi rsspecan Configure GSM K10 AQPSK Burst.vi rsspecan Configure GSM K10 Demodulation.vi rsspecan Configure GSM K10 Multi Measurement.vi rsspecan Fetch GSM K10 Wide Spectrum Results.vi rsspecan Configure Persistence Spectrum Marker Position.vi rsspecan Load IQ Data.vi rsspecan Store IQ Data.vi rsspecan Configure IQ Data Export File Description.vi rsspecan Configure Analog Demod Squelch.vi rsspecan Configure FM Stereo Squelch.vi rsspecan Configure Spectrogram Continuous Trigger.vi rsspecan Configure Spectrogram TimeDomain Trigger.vi rsspecan Configure Persistence Spectrum Marker Position.vi rsspecan Query Persistence Marker Z Axis.vi rsspecan Configure Persistence Spectrum Delta Marker Position.vi rsspecan Configure Frequency Mask Directory.vi rsspecan Configure Noise Generator Auto Switch Off.vi rsspecan InitNoiseGenerator.vi rsspecan Configure TDS BS Sync To Slot Rotate Code Channels.vi rsspecan Configure LTE Downlink PRB Symbol Offset.vi rsspecan Trace Clear.vi rsspecan Configure Marker Peak List Annotation.vi rsspecan Configure Marker Peak List State.vi rsspecan Read Marker Peak List.vi rsspecan Spurious Emissions Standard Catalog.vi rsspecan Spurious Emissions Standard Save.vi rsspecan Spurious Emissions Standard Load.vi rsspecan Spurious Emissions Standard Delete.vi rsspecan SEM Standard Save.vi rsspecan SEM Standard Delete.vi rsspecan Configure WLAN Peak Vector Error.vi Modified: rsspecan Configure YIG Filter.vi rsspecan Configure FM Stereo AF Filter.vi rsspecan Configure Power Measurement.vi - added ZVH support rsspecan Configure Power Channel Bandwidth.vi - added FSC support rsspecan Fetch PWM Result.vi - fixed rsspecan Configure GSM K10 Burst.vi - added new burst types and modulations rsspecan Configure Trigger Source.vi rsspecan Configure External Gate.vi rsspecan Configure External Mixer.vi rsspecan Create External Mixer Conversion Loss Table.vi rsspecan Fetch X Trace.vi rsspecan Spectrogram Marker Search.vi

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rsspecan Instrument Driver		
Driver history for LabVIEW		
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		rsspecan Spectrogram Delta Marker Search.vi rsspecan Configure Spectrogram Result Display Mode.vi rsspecan Configure VSA Trace Evaluation.vi rsspecan Configure BDO Advanced Settings.vi rsspecan Configure MDO Code Domain Analyzer Results.vi rsspecan Query MDO Code Domain Analyzer Result Summary.vi rsspecan Configure Wlan Meas Range.vi rsspecan Configure WiMAX Demodulation.vi rsspecan Configure Marker Peak List.vi - added two new arguments rsspecan Set Instrument From Marker.vi - fixed
1.14.0	04/2011	Modifications: Support for LTE Uplink added (FSV-K101, FSV-K105) Modified VIs: rsspecan Configure Level.vi (Amplitude Units update for FSH4/8) rsspecan Query Power Results.vi rsspecan Configure Acquisition.vi rsspecan Read To File From Instrument.vi
1.13.0	03/2011	Modifications: Support for ZVH added
1.12.0	02/2011	Modifications: Support for FSH 4/8 version 1.40 added New VIs: rsspecan Configure Antenna Settings.vi rsspecan Set Channel Number.vi rsspecan Configure Relative Delta Marker Position.vi rsspecan Configure External Gate Time.vi rsspecan Get GPS Altitude.vi rsspecan Configure SEM Preset Settings.vi rsspecan Configure 3GPP FDD BS Scrambling Code.vi rsspecan Configure EV-DO BST Power Reference.vi Modified VIs: rsspecan Set Instrument From Marker.vi rsspecan Select Power Measurement.vi rsspecan Configure External Gate.vi rsspecan Configure Hardcopy Device.vi rsspecan Query Power Results.vi rsspecan Configure SEM Preset Standard.vi rsspecan Configure 3GPP FDD BS WCDP Measurement.vi rsspecan Configure 3GPP FDD BS WCDP Results.vi rsspecan Search 3GPP FDD BS Scrambling Code.vi rsspecan Get 3GPP FDD BS WCDP Result.vi rsspecan Get 3GPP FDD BS CDP Result.vi rsspecan Get 3GPP FDD BS CDP Scrambling Code Results.vi rsspecan Configure C2K Basic Settings.vi rsspecan Configure C2K BST Advanced Settings.vi rsspecan Configure C2K BST Antenna Settings.vi rsspecan Configure C2K BST Code Domain Analyzer Results.vi rsspecan Configure C2K BST Code Domain Analyzer Settings.vi rsspecan Query C2K BST Code Domain Analyzer Result Summary.vi rsspecan Configure EV-DO BST Code Domain Analyzer Results.vi rsspecan Configure EV-DO BST Code Domain Analyzer Settings.vi rsspecan Configure EV-DO BST Advanced Settings.vi rsspecan Query EV-DO BST Code Domain Analyzer General Results.vi RSSPECAN_ATTR_SERVICE_NOISE_SOURCE - remove B5 option checking

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		RSSPECAN_ATTR_FFT_FILTER_MODE - supported instrument models updated RSSPECAN_ATTR_SWEEP_TYPE - supported instrument models and range table updated
1.11.1	01/2011	Modifications: rsspecan Configure Occupied Bandwidth.vi rsspecan Configure SSA Spurs Display Settings.vi - Show All, Suppress All interchanged
1.11.	12/2010	Modifications: Added support for FSVR Added support for FSV-K14. Old K14 renamed to Realtime Spectrum Analysis Multiple power sensors support (FSV and FSVR) New VIs: rsspecan Configure GSM K10 Correlation Threshold.vi rsspecan Configure GSM K10 Swap IQ.vi rsspecan Configure GSM K10 Marker Zoom.vi rsspecan Configure GSM K10 Result Display.vi rsspecan Configure GSM K10 User TSC.vi rsspecan Configure GSM K10 Power vs Time Alignment.vi rsspecan Read GSM K10 Burst Slot Delta To Sync.vi rsspecan Fetch GSM K10 Burst Slot Delta To Sync.vi rsspecan Read GSM K10 Wide Spectrum Results.vi rsspecan Read GSM K10 Wide Spectrum Gating.vi rsspecan Configure Trace IQ Data Analyzer Enabled.vi rsspecan Configure Power Channel Name.vi rsspecan Configure Display Focused Area.vi rsspecan Get Selected Subwindow.vi rsspecan Configure Delta Marker Band Power.vi rsspecan Query Delta Marker Band Power.vi rsspecan Configure Marker Band Power.vi rsspecan Query Marker Band Power.vi rsspecan System Shutdown.vi rsspecan Configure Digital Baseband Input Coupling.vi rsspecan Configure Digital Baseband Input Parameters Auto.vi rsspecan Configure 3GPP FDD BS WCDP Single Antenna MIMO Mode.vi rsspecan Get 3GPP FDD BS Time Alignment Error Result.vi rsspecan Configure TDS BS Channel Table Max Modulation.vi rsspecan Configure TDS UEChannel Table Max Modulation.vi rsspecan Configure TDS BS Sync To Slot Mode.vi rsspecan Configure TDS UE SEM Limits.vi rsspecan Configure TDS UE Sync To Slot Mode.vi rsspecan Configure WiMAX STC MIMO.vi rsspecan Configure WiMAX Auto Demodulation.vi rsspecan Configure WiMAX STC MIMO Demodulation.vi rsspecan Configure WiMAX Burst Boosting.vi rsspecan Configure WiMAX Zone STC Mode.vi rsspecan Configure WiMAX Zone Burst STC Mode.vi rsspecan Configure WiMAX TTC Subframe Length Measure.vi rsspecan Configure WiMAX TTC Subframe Length.vi Modified VIs: rsspecan Configure GSM K10 Burst.vi - added possibility to define user TSC rsspecan Configure GSM K10 Measurement.vi - added Wide Spectrum rsspecan Configure Noise Measurement Mode.vi - added Single Frequency Single Sweep Measurement and Single Frequency Continuous Measurement rsspecan Calibration Abort.vi - fixed rsspecan Configure Reference Fixed Point.vi - fixed

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rsspecan Instrument Driver		
Driver history for LabVIEW		
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		rsspecan Configure Hardcopy Device.vi - fixed rsspecan Configure Trigger Source.vi - added RFP rsspecan Configure External Gate.vi - added RFP rsspecan Query FM Stereo Channel Type Results.vi - fixed, added Cross Talk rsspecan Configure VSA Marker Search.vi - added Magnitude rsspecan Set 3GPP FDD BS Measurement.vi - added Time Alignment Error rsspecan Get TDS BS Result.vi - added Average RCDE of active channels rsspecan Get TDS UE Result.vi - added Average RCDE of active channels rsspecan Configure WiMAX Demodulation.vi - added new modulation detection modes rsspecan Configure WiMAX Zone Space Time Coding.vi - added One Antenna (MIMO only) rsspecan Create WiMAX New Zone Burst.vi - added Modulation Auto rsspecan Configure WiMAX Zone Burst.vi - added Modulation Auto rsspecan Configure WiMAX Spectrum Measurement.vi - added ETSI30254401,BW10M; ETSI30254401,BW5M rsspecan Configure WiMAX SEM Measurement.vi - added ETSI EN 30254401 standard for 5MHz BW and ETSI EN 30254401 standard for 10MHz BW rsspecan File Manager Operations.vi - added Delete File Immediate
1.10.3	07/2010	Modifications: Initial Release for Mac OS X support for: - Snow Leopard (10.5.x) Distance to Fault measurement is no longer available for FSC Power meter mode is no longer available for FSC Fixed attributes: RSSPECAN_ATTR_FREQUENCY_CENTER_LINK - added DIVT option RSSPECAN_ATTR_PMET_MODE - added wait for OPC
1.10.2	07/2010	Modifications: Fixed global variable - incorrect ranges of floating point values
1.10.1	06/2010	Modifications: Edit support of K40 option for FSV instrument
1.10.0	06/2010	Modifications: Support for FSQ-K110 version 4.50 added New VIs: rsspecan DTF Mode.vi Updates and fixes: rsspecan PWM Mode.vi - now supports FSH and FSC rsspecan Read SSA Trace Data.vi - fixed rsspecan Configure SSA DC Ports Settings.vi - fixed rsspecan Fetch SSA VCO Pulling Result.vi - fixed
1.9.0	03/2010	Modifications: Support for FSV-K70 version 1.40 added New VIs: rsspecan Configure Digital Baseband Input Trigger Parameters.vi rsspecan Configure Digital Baseband Input Trigger Source.vi rsspecan Configure Display Zoom.vi rsspecan Configure VSA Burst Search Auto Configuration.vi rsspecan Configure VSA Burst Search Auto.vi rsspecan Configure VSA Capture Oversampling.vi rsspecan Configure VSA Compensation.vi rsspecan Configure VSA Display Points Per Symbol.vi

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		rsspecan Configure VSA Display Window State.vi rsspecan Configure VSA Full Scale Level Unit.vi rsspecan Configure VSA Marker Peak Search.vi rsspecan Configure VSA Marker Search.vi rsspecan Configure VSA Measurement Filter.vi rsspecan Configure VSA Modulation Accuracy.vi rsspecan Configure VSA Pattern Offset.vi rsspecan Configure VSA Pattern Search Auto Configuration.vi rsspecan Configure VSA Pattern Search Auto.vi rsspecan Configure VSA Pattern Signal State.vi rsspecan Configure VSA Screen Coupling.vi rsspecan Configure VSA Signal Type.vi rsspecan Configure VSA Trace Evaluation.vi rsspecan Configure VSA TX Filter.vi rsspecan Get VSA All Results.vi rsspecan Preset VSA Screens.vi rsspecan VSA Adjust Reference Level To Full Scale Level.vi rsspecan Y-Axis Auto Scale.vi rsspecan Configure WiMAX Frame ID Cell Auto.vi rsspecan Configure WiMAX Frame Predefined Map.vi Updated VIs: rsspecan Get VSA Result.vi rsspecan Set VSA Factory Defaults.vi rsspecan Configure VSA Burst Search.vi rsspecan Configure VSA Burst Search Hysteresis.vi rsspecan Configure VSA Equalizer.vi rsspecan Configure VSA Equalizer Mode.vi rsspecan VSA Equalizer Operations.vi rsspecan Configure VSA Display Alignment.vi rsspecan Configure VSA Display X-Axis.vi rsspecan Configure VSA Force WB Path.vi rsspecan Get VSA Digital Standard Catalog.vi rsspecan VSA Digital Standard Save.vi rsspecan Configure VSA File Export.vi rsspecan Configure VSA File Import.vi rsspecan VSA Export.vi rsspecan VSA Import.vi rsspecan Configure VSA EVM Modulation.vi rsspecan Configure VSA Modulation.vi rsspecan Configure VSA Modulation Filters.vi rsspecan Get VSA Modulation Filter Catalog.vi rsspecan Configure VSA Multiple Evaluation.vi rsspecan Configure VSA Multiple Evaluation Zoom.vi rsspecan VSA Search Burst in Capture RAM.vi rsspecan Trace IQ Set.vi rsspecan Run Receiver Measurement.vi
1.8.0	01/2010	Modification: Support for FSH 4/8 FW 1.20 & 1.21 K10 (GSM Measurement) no longer limited to FSV instrument Instrument checking (FSC) added to attributes Updated VIs: rsspecan GSM K10 Mode
1.7.0	11/2009	Modifications: - Support for FSV version 1.40 added - Support for K7S (FM Stereo) added

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rsspecan Instrument Driver		
Driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - Support for K100 and K102 added - Support for FSMR version 4.36 added, tested and debugged - Support for FSH4/8 version 1.10 added - Support for FSV version 1.20 added <p>New VIs:</p> <ul style="list-style-type: none"> Added support for LTE Downlink (K100) rsspecan All FM Stereo AF Filters Off.vi rsspecan Configure Digital Baseband Full Scale Level.vi rsspecan Configure Digital Baseband Output.vi rsspecan Configure External Mixer Handover Frequency.vi rsspecan Configure External Mixer High Harmonic.vi rsspecan Configure External Mixer Preset Band.vi rsspecan Configure External Mixer RF Overrange.vi rsspecan Configure FM Stereo AF Auto Scale.vi rsspecan Configure FM Stereo AF Filter.vi rsspecan Configure FM Stereo AF Range Dev Unit.vi rsspecan Configure FM Stereo AF Range THD Unit.vi rsspecan Configure FM Stereo AF Range.vi rsspecan Configure FM Stereo Difference Frequency Distortion.vi rsspecan Configure FM Stereo Display Config.vi rsspecan Configure FM Stereo Intermodulation Distortion.vi rsspecan Configure FM Stereo Meas To Ref.vi rsspecan Configure FM Stereo Measurement Time.vi rsspecan Configure FM Stereo Phase Noise Marker.vi rsspecan Configure FM Stereo Reference Deviation.vi rsspecan Configure FM Stereo Result Summary Setup.vi rsspecan Configure FM Stereo Time Domain Zoom Length.vi rsspecan Configure FM Stereo Time Domain Zoom.vi rsspecan Configure FM Stereo Trace Modes.vi rsspecan Configure FM Stereo Trigger.vi rsspecan Configure GSM K10 Demodulation Equal Timeslot Length.vi rsspecan Configure GSM K10 Modulation Transient Spectrum.vi rsspecan Configure GSM K10 Multi Carrier.vi rsspecan Configure GSM K10 Power vs Time Filter.vi rsspecan Configure GSM K10 Synchronization.vi rsspecan Configure Preamplifier Auto.vi rsspecan Configure PWM Duty Cycle.vi rsspecan Configure SSA DC Measurement.vi rsspecan Configure Trace IQ Data Display Type.vi rsspecan Configure Trace IQ Gate.vi rsspecan Configure WLAN FFT Start Offset.vi rsspecan Error Query.vi rsspecan FM Stereo Difference Frequency Distortion Search Signal.vi rsspecan FM Stereo Intermodulation Distortion Search Signal.vi rsspecan FM Stereo Mode.vi rsspecan Get OPC Timeout.vi rsspecan Input Protection State.vi rsspecan Instrument Options.vi rsspecan Load LTE Downlink Demodulation Settings.vi rsspecan Query External Mixer RF Start Stop.vi rsspecan Query FM Stereo Carrier Frequency.vi rsspecan Query FM Stereo Channel Type All Results.vi rsspecan Query FM Stereo Channel Type Results.vi rsspecan Query FM Stereo Difference Frequency Distortion Result.vi

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rsspecan Instrument Driver		
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		<p>rsspecan Query FM Stereo Intermodulation Distortion Result.vi rsspecan Query FM Stereo Measurement Results.vi rsspecan Query FM Stereo Phase Noise Result.vi rsspecan Query FM Stereo Result Values.vi rsspecan Query Trace IQ Filter Bandwidth.vi rsspecan Set FM Stereo State.vi rsspecan Set LTE Downlink Mode.vi rsspecan Set OPC Timeout.vi rsspecan Update IQ Results.vi</p> <p>Updated VIs: rsspecan Trace IQ Extended Bandwidth.vi rsspecan Configure External Mixer Enabled.vi rsspecan Configure External Mixer Number Of Ports.vi rsspecan Configure External Mixer.vi rsspecan Configure External Mixer Signal ID Mode.vi rsspecan Configure External Mixer Bias.vi (function API redesigned) rsspecan Configure External Mixer Conversion Loss.vi (function API redesigned) rsspecan Configure External Mixer Conversion Loss Table.vi (function removed) rsspecan Configure External Mixer Low Power.vi rsspecan Create External Mixer Conversion Loss Table.vi rsspecan External Mixer Conversion Loss Table Select.vi rsspecan External Mixer Conversion Loss Table Delete.vi rsspecan External Mixer Conversion Loss Table Catalog.vi rsspecan Phase Noise Peak Search Auto.vi rsspecan Configure Measuring Receiver Relative Level Measurement.vi rsspecan Read GSM K10 Measurement Results.vi rsspecan Fetch GSM K10 Measurement Results.vi rsspecan Configure 3GPP FDD BS Channel Table Data.vi rsspecan Get 3GPP BS CDP Scrambling Code Result.vi rsspecan Get 3GPP BS CDP List Evaluation Result.vi rsspecan Configure Wlan Baseband Signal Level.vi</p>
1.4.0	06/2009	<p>Modifications: Support for FSUP (Signal Source Analyzer) instrument added</p> <p>Updated VIs: rsspecan LXI Info.vi (deleted) rsspecan LXI Instrument Description.vi (deleted) rsspecan LXI LAN Reset.vi (deleted) rsspecan LXI Password.vi (deleted) rsspecan Configure Filter Type.vi rsspecan Configure Level.vi rsspecan Configure Unit Power.vi rsspecan Trace IQ Averaging.vi rsspecan Configure Subtract Traces.vi rsspecan Store Marker Peak List.vi rsspecan Configure Reference Oscillator.vi rsspecan Configure External Mixer Signal ID Mode.vi rsspecan Configure Spurious Emissions Sweep List Filter Type.vi rsspecan Configure Spurious Emissions Sweep List Preamplifier.vi rsspecan Configure WiMAX Zone Matrix.vi (renamed) rsspecan Configure WiMAX Zone Burst Matrix.vi (renamed) rsspecan Configure Service Pulsed Input.vi rsspecan Data Set File Select Items.vi rsspecan Set Status Register.vi</p>

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rsspecan Instrument Driver		
Driver history for LabVIEW		
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		rsspecan Get Status Register.vi
1.3.0	05/2009	<p>Driver update for Spectrum Analyzer firmware 4.40: Modifications:</p> <p>New VIs: rsspecan Configure Frequency Zero Span.vi rsspecan Query Selected Reference Oscillator Source.vi rsspecan Configure Reference Oscillator External PLL Bandwidth.vi rsspecan Query Channel Power Standard Catalog.vi rsspecan Configure Channel Power User Standard.vi rsspecan ACP Channel Power Adjust Ref Level Offset.vi rsspecan ACP Adjust Reference Level To Channel Power.vi rsspecan Configure Signal Statistic Mean Power Position.vi rsspecan Configure TOI Positioning.vi rsspecan Query Harmonic Distortion Bandwidth List.vi rsspecan Query Digital Baseband Input Output Configuration.vi rsspecan Configure VSA File Import.vi rsspecan Configure WiMAX Zone Matrix.vi rsspecan Configure WiMAX Zone Burst Matrix.vi rsspecan Configure WiMAX TTC Start.vi rsspecan Configure PWM Bar Graph View.vi (added to VI Tree)</p> <p>Updated VIs: rsspecan Configure IF Power Trigger Parameters.vi rsspecan Configure Marker Zoom State.vi rsspecan Configure Reference Oscillator.vi rsspecan Initiate Spurious.vi rsspecan Initiate Spectrum Emission Mask Measurement.vi rsspecan Configure Channel Power Standard.vi rsspecan Configure Power Channel Weighting Filters.vi rsspecan Configure Harmonic Distortion Measurement.vi rsspecan Configure Spurious Emissions Sweep List Limits.vi rsspecan Configure VSA File Export.vi rsspecan Configure VSA Modulation.vi rsspecan Get 3GPP FDD BS WCDP Result.vi rsspecan Get 3GPP FDD UE WCDP Result.vi rsspecan Fetch WLAN Burst All.vi rsspecan Configure WiMAX Spectrum Measurement.vi rsspecan Configure WiMAX SEM Measurement.vi rsspecan Fetch WiMAX EVM.vi rsspecan Write From File To Instrument.vi rsspecan Set Status Register.vi rsspecan Get Status Register.vi</p>
1.2.1	04/2009	<p>Modifications: Support for R&S ESL FW 1.82 added</p> <p>Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0</p> <p>New VIs: rsspecan Read Receiver Detector Extended.vi rsspecan Read Scan Measurement Status.vi rsspecan Read Peak Results.vi</p> <p>Updated VIs:</p>

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Revision	Date	Note
		rsspecan Configure Limit Line.vi rsspecan Configure Final Receiver Detector.vi rsspecan Configure Receiver Detector.vi rsspecan Configure PWM Measurement.vi rsspecan Data Set File Select Items.vi rsspecan Configure WLAN SEM Measurement.vi _rsspecan Clear Before Read.vi
1.2.0	03/2009	Modifications: Support for FSH4/FSH8 FW 1.0 added Updated VIs: rsspecan Configure Level.vi rsspecan Configure Trace Detector.vi rsspecan Configure Delta Marker.vi rsspecan Configure Delta Marker Position.vi rsspecan Delta Marker Search.vi rsspecan Query Delta Marker.vi rsspecan Configure Trigger.vi rsspecan Configure Display Line State.vi rsspecan Configure Display Line Position.vi rsspecan Initiate.vi rsspecan Initialize.vi rsspecan Instrument Options.vi _rsspecan Default Instrument Setup.vi rsspecan_core_range.vi - error output string modified rsspecan Read VSA Trace Data.vi - question mark in command added Help updated in: rsspecan_TraceIQAveraging
1.1.1	01/2009	Bug fixed when reading out the trace I/Q data Updated VIs: rsspecan Read Trace IQ Data.vi rsspecan Fetch Trace IQ Data.vi
1.1.0	01/2009	Modifications: Driver update for Spectrum Analyzer firmware 4.30: New VIs: rsspecan Trace IQ Extended Bandwidth.vi rsspecan Application Setup Recovery.vi rsspecan Application Setup Recovery.vi rsspecan Configure IF Shift.vi rsspecan Configure VSA EVM Offset State.vi rsspecan Configure TDS BS Sync To Slot.vi rsspecan Configure TDS BS Sync To Slot.vi rsspecan Configure TDS UE Sync To Slot.vi rsspecan Configure TDS UE User Defined CPICH.vi rsspecan Configure WiMAX Number Of Antennas.vi rsspecan Configure WiMAX Zone Space Time Coding.vi Updated VIs: rsspecan Configure Filter Type.vi rsspecan Configure Spurious Emissions Sweep List Filter Type.vi rsspecan Trace Phase Settings.vi rsspecan Get 3GPP FDD BS WCDP Result.vi rsspecan Get 3GPP FDD UE WCDP Result.vi

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rssipecan Instrument Driver		
Driver history for LabVIEW		
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		rssipecan Configure WiMAX Standard.vi rssipecan Create WiMAX New Zone Burst.vi rssipecan Configure WiMAX Zone Burst.vi rssipecan Fetch WiMAX Burst Power.vi Added support for FSV Signal and Spectrum Analyzer (FW 1.10): New VIs: rssipecan Configure Frequency Step Size Auto.vi rssipecan Configure Frequency Mode.vi rssipecan Configure Horizontal Scale.vi rssipecan Configure Sweep Type.vi rssipecan Configure Marker Search Limits Zoom.vi rssipecan LXI Info.vi rssipecan LXI Instrument Description.vi rssipecan LXI LAN Reset.vi rssipecan LXI Password.vi rssipecan Configure External Gate Trace.vi rssipecan Configure Display Settings.vi rssipecan Get Display Theme Catalog.vi rssipecan Configure Display Theme Select.vi rssipecan Configure Display Marker Table.vi rssipecan Hardcopy Print Next.vi rssipecan Hardcopy Time Date.vi rssipecan Configure Auto Adjust.vi rssipecan Query N dB Q Factor.vi rssipecan Configure Power Channel Weighting Filters.vi rssipecan TOI Signal Search.vi rssipecan Configure Fast SEM.vi rssipecan Store SEM Preset Settings.vi rssipecan Configure SEM Used Power Classes.vi rssipecan Configure SEM Power Class Count.vi rssipecan Configure SEM Power Class Limits.vi rssipecan Configure SEM Power Class All Limits.vi rssipecan Query SEM Power Class All Limits.vi rssipecan Configure Analog Demod Zoom Length.vi Updated VIs: rssipecan Query Delta Marker.vi rssipecan Configure Trigger Source.vi rssipecan Configure IF Power Trigger Parameters.vi rssipecan Configure TV Trigger.vi rssipecan Configure External Gate.vi rssipecan Configure RF Input Coupling.vi rssipecan Configure Electronic Attenuator.vi rssipecan Configure Preamplifier State.vi rssipecan Input Protection Reset.vi rssipecan Configure Limit Line.vi rssipecan Configure Transducer Factor.vi rssipecan Get Transducer Factor Catalog.vi rssipecan Read Y Trace.vi rssipecan Fetch Y Trace.vi rssipecan Get Current Results.vi rssipecan Initiate Spectrum Emission Mask Measurement.vi rssipecan onfigure Marker Noise Measurement.vi rssipecan Query Marker Noise Measurement Result.vi rssipecan Configure Marker Frequency Counter.vi

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rsspecan Instrument Driver		
Driver history for LabVIEW		
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		<p> rsspecan Query Marker Frequency Counter Result.vi rsspecan Configure List Power Average Type.vi rsspecan Configure Channel Power Trace.vi rsspecan Configure Channel Power Standard.vi rsspecan Query Signal Statistic Result.vi rsspecan Modulation Depth Signal Search.vi rsspecan Configure Harmonic Distortion Measurement.vi rsspecan Configure PWM External Power Trigger.vi rsspecan Configure 3GPP FDD BS WCDP Result Type.vi rsspecan Configure WLAN Standard.vi rsspecan Create WiMAX New Zone.vi rsspecan Configure WiMAX Zone.vi rsspecan Configure Service Input.vi rsspecan Configure Service Pulsed Input.vi rsspecan Memory Size.vi rsspecan Configure Vertical Scale.vi rsspecan Configure Sweep Points.vi rsspecan Configure Signal Track.vi rsspecan Marker Search.vi rsspecan Move Marker.vi rsspecan Set Instrument From Marker.vi rsspecan Link Marker And Delta Marker.vi rsspecan Query Marker.vi rsspecan Probability Marker Position.vi rsspecan Configure IF Output Source.vi rsspecan Configure Unit Power.vi rsspecan Configure Marker.vi rsspecan Configure Marker Demodulation.vi rsspecan Configure Marker Peak List.vi rsspecan Store Marker Peak List.vi rsspecan Query Marker Peak List Found.vi rsspecan Query Marker Peak List.vi rsspecan Configure Delta Marker.vi rsspecan Configure Delta Marker Position.vi rsspecan Delta Marker Search.vi rsspecan Configure Spurious Emissions Sweep List Sweep.vi rsspecan Configure Spurious Emissions Sweep List Limits.vi rsspecan SEM Mark All Peaks.vi rsspecan Configure SEM Reference Range.vi rsspecan Query SEM Reference Range Position.vi rsspecan Configure SEM Preset Standard.vi rsspecan Restore SEM Standard Files.vi rsspecan SEM Save List to File.vi rsspecan Configure Analog Demod AF Param.vi </p> <p> Driver update for FSL Spectrum Analyzer firmware 1.90: New VIs: rsspecan Configure Attenuation Mode.vi rsspecan Service Version Info.vi rsspecan Network Map Drive.vi rsspecan Network Disconnect Drive.vi rsspecan Network Unused Drives List.vi rsspecan Network Used Drives List.vi rsspecan Network Show Folder Info.vi Updated VIs: </p>

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rsspecan Instrument Driver		
Driver history for LabVIEW		
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		rsspecan Configure Averaging Type.vi rsspecan Configure Subtract Traces.vi rsspecan Configure Hardcopy Device.vi rsspecan Configure SEM.vi rsspecan File Directory Path.vi
1.0.1	11/2008	New functions: - rsspecan_ReadScanMeasurement - rsspecan_RunReceiverMeasurement
1.0	10/2008	Initial revision

4 LabWindows/CVI and VXIplug&play

rsspecan Instrument Driver		
History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
1.23	02/2014	<ul style="list-style-type: none"> * Added support for R&S FSH4/8 version 2.40, ZVH version 1.43 * New - rsspecan_SystemTimeShift - rsspecan_CalibrationStart - rsspecan_CalibrationContinue - rsspecan_ConfigureElectricalCableTime - rsspecan_QueryElectricalCableTime * Updated - rsspecan_SystemReboot
1.22.0	10/2013	<ul style="list-style-type: none"> * Added support for R&S FSH4/8 firmware 2.30 * New - ConfigureSSASpuriousEmissionCarrier - QueryLTEDownlinkMeasurementEVMPeakCurrent - QueryLTEDownlinkMeasurementRSRP - QueryLTEDownlinkMeasurementRSRQ - QueryLTEDownlinkMeasurementRSSI - QueryLTEDownlinkMeasurementSINR - Data Capture - Saving Events
1.21.1	07/2013	Cosmetic changes in help texts
1.21.0	04/2013	<ul style="list-style-type: none"> * Added support for R&S FSH4/8 firmware 2.20 * New - rsspecan_ConfigureTraceStyle - rsspecan_DefineLimitLineShape - rsspecan_ConfigureGSMK10TrainingSequence - rsspecan_ConfigureGSMK10TimeSlot - rsspecan_FetchGSMK10BaseStationIdCode - rsspecan_FetchGSMK10ModulationType - rsspecan_FetchGSMK10OccupiedBandwidth - rsspecan_FetchGSMK10BurstPower - rsspecan_FetchGSMK10RFChannelPower - rsspecan_FetchGSMK10AnalyzedSlot - rsspecan_FetchGSMK10TrafficActivity - rsspecan_ConfigureTDSBSSwitchingPoint - rsspecan_ConfigureTDSBSScramblingCode - rsspecan_ConfigureTDSBSScramblingCodeAutoSearch - rsspecan_QueryC2KBSTCodeDomainAnalyzerPNScannerResults - rsspecan_ConfigureLTEDownlinkCellUnderTestIdentity * Modified - rsspecan_FetchGSMK10MeasurementResults - EVM Slot - rsspecan_BC2KMode - new command string for FSH - rsspecan_ConfigureLTEDownlinkTDDAllocation - range for FSH - rsspecan_ConfigureBC2KCodeDomainAnalyzerResults - added PN Scanner
1.20.0	12/2012	<p>Modifications: Added support for R&S FSH FW V. 2.0 and R&S FSMR 4.76</p> <ul style="list-style-type: none"> * New - rsspecan_ConfigureChannelTableLinkDirection - rsspecan_ConfigureChannelTableULDLSignal

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		<ul style="list-style-type: none"> - rssipecan_ConfigureAntennaDirection - rssipecan_QuerySystemMemoryInfo - rssipecan_QueryStoreMemoryInfo - rssipecan_ConfigureVSWRYScaleMinMax - rssipecan_AutoSearch3GPPBSScramblingCode - rssipecan_Configure3GPPFDDBSFrequencyErrorUnits - rssipecan_QueryLTEDownlinkMeasurementSyncSignal - rssipecan_QueryLTEDownlinkMeasurementTrafficActivity - rssipecan_ConfigureRemoteDesktopPort - rssipecan_QueryLTEDownlinkMeasurementPower - rssipecan_QueryLTEDownlinkMeasurementEVM - rssipecan_SystemReboot - rssipecan_ConfigureMeasuringReceiverAutotuneThreshold - rssipecan_MeasuringReceiverClearCalibrationValues - rssipecan_ConfigureMeasuringReceiverPWMMANUALValue - rssipecan_ConfigureMeasuringReceiverALCFixed * Modified - rssipecan_ConfigureMarkerSearchLimits - rssipecan_Get3GPPBSResult
1.19.0	03/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Added support for R&S FSH K43 - Receiver Mode * Modified - rssipecan_FetchTETRAACP - added Average measurement type - rssipecan_ConfigureScanTableStartStop - rssipecan_SelectTransducerFactor - rssipecan_ConfigureTransducerFactor - RSSPECAN_ATTR_AMPL_PREAMPLIFIER - options removed * Modified Attributes for FSH - RSSPECAN_ATTR_RECEIVER_MODE - RSSPECAN_ATTR_MARKER_AOFF - RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_STATE - RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_LEFT - RSSPECAN_ATTR_MARKER_SEARCH_LIMITS_RIGHT - RSSPECAN_ATTR_RECEIVER_SCAN_START - RSSPECAN_ATTR_RECEIVER_SCAN_STOP - RSSPECAN_ATTR_RECEIVER_SCAN_STEP_SIZE - RSSPECAN_ATTR_DISP_REF_POSITION - RSSPECAN_ATTR_ATTENUATION_MODE - RSSPECAN_ATTR_FREQUENCY_MODE * Added - rssipecan_ConfigureReceiverCISPRBandwidth - rssipecan_ReadReceiverTraceData - rssipecan_TransducerSelect
1.18.2	01/2012	<p>Modifications:</p> <ul style="list-style-type: none"> - Fixed data type of callback addresses in rssipecan_attributes.c
1.18.1	12/2011	<p>Modifications:</p> <ul style="list-style-type: none"> - rssipecan_ConfigureMarkerBandPower (commands corrected) - rssipecan_QueryMarkerBandPower (command corrected)
1.18.0	10/2011	<p>Modifications:</p> <ul style="list-style-type: none"> - Support for FSQ version 4.75 added - Support for ZVH version 1.20 added, support of FSH network analyzer (v1.56) updated - Support for dual trace (dual window) added for ZVH and FSH

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		<ul style="list-style-type: none"> * Modified - rssipecan_ConfigureLTEDownlinkPDSCHConfigurableSubframes - Range updated - ConfigureWLANFFTStartOffset RSSPECAN_ATTR_WLAN_FFT_START_OFFSET - ConfigureWlanSpectrumMeasurement RSSPECAN_ATTR_WLAN_SPEC_SEL - ConfigureWiMAXTrigger RSSPECAN_ATTR_WIMAX_TRIG_MODE - QueryLTEDownlinkMeasurementCrestFactor RSSPECAN_ATTR_LTE_DOWNLINK_CREST_FACTOR_RESULT - QueryLTEUplinkMeasurementCrestFactor RSSPECAN_ATTR_LTE_UPLINK_CREST_FACTOR_RESULT - QueryLTEUplinkMeasurementResultSummary RSSPECAN_ATTR_LTE_UPLINK_EVM_PUSCH_16QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PUSCH_64QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_QPSK_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_16QAM_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_DMRS_PUSCH_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PUCCH_RESULT RSSPECAN_ATTR_LTE_UPLINK_EVM_PRACH_RESULT - rssipecan_ConfigureMarkerZoomPortable - window control added RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT - rssipecan_ConfigureMagnitudeSpacing RSSPECAN_ATTR_NAN_MAGN_SPACING - rssipecan_ConfigureSmithChartReferenceImpedance RSSPECAN_ATTR_NAN_SMITH_REF_IMPEDANCE - rssipecan_ConfigureReflectionCoefficientUnit RSSPECAN_ATTR_NAN_REFL_COEFFICIENT_UNIT - rssipecan_ConfigureTrackingGeneratorReferenceLevel RSSPECAN_ATTR_NAN_CABLE_REF_LEVEL RSSPECAN_ATTR_NAN_MAGN_REF_LEVEL RSSPECAN_ATTR_NAN_PHASE_REF_LEVEL RSSPECAN_ATTR_NAN_CABLE_REF_POSITION RSSPECAN_ATTR_NAN_MAGN_REF_POSITION RSSPECAN_ATTR_NAN_PHASE_REF_POSITION - rssipecan_ConfigureGroupDelay RSSPECAN_ATTR_GDEL_REF_LEVEL RSSPECAN_ATTR_GDEL_REF_POSITION RSSPECAN_ATTR_GDEL_Y_SCALE - rssipecan_ConfigureMarkerOutputFormat RSSPECAN_ATTR_NETWORK_ANALYZER_MARKER_OUTPUT_FORMAT - rssipecan_ConfigurePhaseUnwrap RSSPECAN_ATTR_NAN_PHASE_UNWRAP - rssipecan_ConfigureNetworkAnalyzerMeasurement RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT - rssipecan_ConfigureTrackingGeneratorYScale RSSPECAN_ATTR_USER_CALIBRATE_LENGTH - command changed - rssipecan_ConfigureMarker - range checking modified according to ZVH and FSH - rssipecan_ConfigureTrace - rssipecan_MarkerSearch - rssipecan_MoveMarker

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		<ul style="list-style-type: none"> - rssipecan_QueryMarker - RSSPECAN_ATTR_GDEL_Y_SCALE - added range checking - RSSPECAN_ATTR_NAN_CABLE_Y_SCALE - RSSPECAN_ATTR_NAN_MAGN_Y_SCALE - RSSPECAN_ATTR_NAN_PHASE_Y_SCALE - RSSPECAN_ATTR_NAN_MAGN_REF_LEVEL - RSSPECAN_ATTR_NAN_PHASE_REF_LEVEL - RSSPECAN_ATTR_NAN_CABLE_REF_LEVEL - RSSPECAN_ATTR_NAN_CABLE_REF_POSITION - increased value range - RSSPECAN_ATTR_USER_CALIBRATE_OFFS - Port selection added - rssipecan_ConfigureDistancetoFaultThreshold - rssipecan_ConfigureMarkerOutputFormat - values label updated - rssipecan_ConfigureTrackingGeneratorYScale - units forced to dB for magnitude - rssipecan_ConfigureCATMeasurementMode - option checking added for "Transmission" - rssipecan_ConfigureUserCaliyabrate - offset legth units changed from mm to m RSSPECAN_ATTR_USER_CALIBRATE_OFFS - rssipecan_ConfigurePhaseUnwrap - command changed DISPlay:PHASe:Y:UNWRap -> DISPlay:PHASe:UNWRap RSSPECAN_ATTR_NAN_PHASE_UNWRAP - rssipecan_ConfigureNetworkAnalyzerMeasurement - new formats added (Reflection Coefficient, Smith Chart, VSWR, Vector Voltmeter), Magnitude & phase (M Phase) format removed from GUI RSSPECAN_ATTR_NAN_MEAS_MODE RSSPECAN_ATTR_NAN_MEAS_FORMAT - rssipecan_ConfigureGroupDelay - unit changed from ns to s, data type of "Reference Level" control changed to Real, range updated RSSPECAN_ATTR_GDEL_REF_LEVEL * Added - rssipecan_SetLTEDownlinkModeFSH - RSSPECAN_ATTR_LTE_DOWNLINK_MODE_FSH - rssipecan_ConfigureLTEDownlinkDemodulationCalculationState - RSSPECAN_ATTR_LTE_DOWNLINK_DEMODULATION_CALCULATION_STATE - rssipecan_ConfigureLTEDownlinkCarrierFrequencyErrorUnits - RSSPECAN_ATTR_LTE_DOWNLINK_CARRIER_FREQUENCY_ERROR_UNITS - rssipecan_QueryLTEDownlinkMeasurementPowerResultSummary - RSSPECAN_ATTR_LTE_DOWNLINK_POWER_QPSK_RESULT - RSSPECAN_ATTR_LTE_DOWNLINK_POWER_16QAM_RESULT - RSSPECAN_ATTR_LTE_DOWNLINK_POWER_64QAM_RESULT - rssipecan_QueryLTEDownlinkMeasurementChannel - RSSPECAN_ATTR_LTE_DOWNLINK_CHANNEL - rssipecan_QueryLTEDownlinkMeasurementReferenceSignal - RSSPECAN_ATTR_LTE_DOWNLINK_REFERENCE_SIGNAL - rssipecan_QueryLTEDownlinkCellIdentity - RSSPECAN_ATTR_LTE_DOWNLINK_IDENTITY - rssipecan_SetLTEUplinkModeFSH - RSSPECAN_ATTR_LTE_UPLINK_MODE_FSH - rssipecan_ConfigureLTEUplinkCarrierFrequencyErrorUnits - RSSPECAN_ATTR_LTE_UPLINK_CARRIER_FREQUENCY_ERROR_UNITS - rssipecan_QueryLTEUplinkMeasurementPowerResultSummary - RSSPECAN_ATTR_LTE_UPLINK_POWER_QPSK_RESULT - RSSPECAN_ATTR_LTE_UPLINK_POWER_16QAM_RESULT - RSSPECAN_ATTR_LTE_UPLINK_POWER_64QAM_RESULT - rssipecan_QueryLTEUplinkMeasurementChannel - RSSPECAN_ATTR_LTE_UPLINK_CHANNEL

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		<ul style="list-style-type: none"> - rsspecan_QueryLTEUplinkMeasurementReferenceSignal - RSSPECAN_ATTR_LTE_UPLINK_REFERENCE_SIGNAL - rsspecan_QueryLTEUplinkCellIdentity - RSSPECAN_ATTR_LTE_UPLINK_IDENTITY - QueryTPISTimeOffset <ul style="list-style-type: none"> RSSPECAN_ATTR_QUERY_TPIS_TIME_OFFSET - Configure3GPPTAERBTSCarrier <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_CPICH_CODE_NUMBER RSSPECAN_ATTR_3GPP_TAER_ANTENNA_PATTERN RSSPECAN_ATTR_3GPP_TAER_FREQUENCY_OFFSET RSSPECAN_ATTR_3GPP_TAER_SCRAMBLING_CODE - Query3GPPTAERBTSNumber <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER - Set_3GPPTAERBTSOperation <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_INSERT RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_DELETE RSSPECAN_ATTR_3GPP_TAER_BTS_NUMBER_DELETE_ALL - Query3GPPTAERTableCatalog <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_TABLE_CATALOG - Set_3GPPTAERTableOperation <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_TABLE_DELETE RSSPECAN_ATTR_3GPP_TAER_TABLE_SAVE - Set_3GPPTAERTablePreset <ul style="list-style-type: none"> RSSPECAN_ATTR_3GPP_TAER_TABLE_PRESET - ConfigureWLANNumberOfAntennas <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_NUMBER_OF_ANTENNAS - ConfigureWLANMIMODUTConfiguration <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MIMO_DUT_CONFIGURATION - ConfigureWLANMIMOAntennaSignalCapture <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MIMO_ANT_SIGNAL_CAPTURE_TYPE - ConfigureWLANSTCMIMO <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_ANALYZER_STATE RSSPECAN_ATTR_WLAN_ANALYZER_ADDRESS RSSPECAN_ATTR_WLAN_ANTENNA_CONFIGURATION - ConfigureWLANMIMOSequentialCaptureSetup <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MIMO_OSP_IP_ADDRESS RSSPECAN_ATTR_WLAN_MIMO_OSP_SWITCH_MODULE - ConfigureWLANRBWFilter <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_RBW_FILTER - ConfigureWLANBurstsToAnalyzeSettings <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_BURST_TYPE_TO_MEASURE RSSPECAN_ATTR_WLAN_CHANNEL_BANDWIDTH_TO_MEAS RSSPECAN_ATTR_WLAN_GUARD_INTERVAL_LENGTH RSSPECAN_ATTR_WLAN_STBC RSSPECAN_ATTR_WLAN_EXT_SPATIAL_STREAMS RSSPECAN_ATTR_WLAN_SOURCE_OF_PAYLOAD_LENGTH - ConfigureWLANMCS <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MCS_INDEX_TO_USE_FBUR RSSPECAN_ATTR_WLAN_MCS_INDEX - ConfigureWLAN_MIMOSpatialMappingConfiguration <ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MIMO_SPATIAL_MAPPING_MODE RSSPECAN_ATTR_WLAN_MIMO_POWER_NORMALISE - ConfigureWLAN_MIMO_UDFSpatialMappingAntenna - ConfigureWLAN_MIMO_UDFSpatialMappingStream

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		<ul style="list-style-type: none"> RSSPECAN_ATTR_WLAN_MIMO_UDFSPATIAL_MAPPING_TIME_SHIFT - ConfigureWLANChannelSelect RSSPECAN_ATTR_WLAN_SPEC_CSEL - FetchWlanBurstErrorRateForPilots RSSPECAN_ATTR_WLAN_FETC_BERPILOT - ConfigureWiMAXConstellationDiagram RSSPECAN_ATTR_LTE_DOWNLINK_CONSTELLATION_DIAGRAM - ConfigureLTEDownlinkDataAnalysisSettings RSSPECAN_ATTR_LTE_DOWNLINK_PDSCH_SUBFRAME_DETECT RSSPECAN_ATTR_LTE_DOWNLINK_BOOSTING_ESTIMATION RSSPECAN_ATTR_LTE_DOWNLINK_PDSCH_REFERENCE_DATA RSSPECAN_ATTR_LTE_DOWNLINK_MULTICARRIER_FILTER - QueryLTEDownlinkMeasurementRSTP RSSPECAN_ATTR_LTE_DOWNLINK_RSTP_RESULT - ConfigureLTEUplinkSuppressedInterferenceSynchronization RSSPECAN_ATTR_LTE_UPLINK_SUPPRESSED_INTERFERENCE_SYNC - ConfigureLTEUplinkSlotSelection RSSPECAN_ATTR_LTE_UPLINK_SLOT_SELECTION - ApplicationsVersions RSSPECAN_ATTR_APPLICATIONS_VERSIONS - rssipecan_ConfigureEthernetGateway - rssipecan_ConfigureCalibrationDiscard - rssipecan_ConfigureUserPreset - rssipecan_ConfigureMarkerZoomYPortable - rssipecan_ConfigureInterferenceSuppressionState - rssipecan_ConfigureInterferenceSuppressionApertureSize - rssipecan_ConfigureNetworkAnalyzerSMeasurementResult - rssipecan_QueryComplexMarker - rssipecan_ConfigurePortOffsetLength
1.17.0	09/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Support for FSUP version 4.67 added * Support for FSW version 1.10 added * Modified - rssipecan_GetTransducerFactorCatalog - added FSUP support - rssipecan_ConfigureSSAVCOLoopPremeasurement - added attribute: RSSPECAN_ATTR_SSA_PREMEAS_NEW * Added - rssipecan_CreateTransducerFactor RSSPECAN_ATTR_TFAC_CREATE - rssipecan_ConfigureSSAPhaseFrequencyAxisTruncation RSSPECAN_ATTR_SSA_FREQUENCY_AXIS_TRUNCATION - rssipecan_ConfigureSSAPhaseSpotNoiseList RSSPECAN_ATTR_SSA_SPOT_NOISE_LIST - rssipecan_ConfigureSSAPhaseSpurList RSSPECAN_ATTR_SSA_SPUR_LIST - rssipecan_ConfigureSSAPhaseSpursHighlight RSSPECAN_ATTR_SSA_SPURS_HIGHLIGHT - rssipecan_ConfigureSSAVCOMarkerCoupling RSSPECAN_ATTR_SSA_MARKER_COUPLING - rssipecan_ConfigureSSAVCOLoopFrequencyBand RSSPECAN_ATTR_SSA_ADET_GAIN - rssipecan_ConfigureSSAVCOLoopDUTType RSSPECAN_ATTR_SSA_DUT_TYPE

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1.16.0	07/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Support for FSV version 1.60 added * Modified - RSSPECAN_ATTR_ACP_USER_STD_SET - added FSV support - rsspecan_ConfigureGSMK10Burst - added: Access Burst Type, TS 0, TS 1, TS 2 - rsspecan_ConfigureGSMK10Measurement - added Trigger to Sync measurement - rsspecan_ReadGSMK10MeasurementResults - added results for Trigger to Sync measurement RSSPECAN_ATTR_READ_GSM_K10_TRIGGER_TO_SYNC_RESULTS - rsspecan_LoadWlanIQData - now uses attribute RSSPECAN_ATTR_LOAD_IQ_DATA - rsspecan_LoadWiMAXIQData - now uses attribute RSSPECAN_ATTR_LOAD_IQ_DATA - rsspecan_StoreWlanIQData - now uses attribute RSSPECAN_ATTR_SAVE_IQ_DATA - rsspecan_StoreWiMAXIQData - now uses attribute RSSPECAN_ATTR_SAVE_IQ_DATA - RSSPECAN_ATTR_IQ_DATA_EXPORT_FILE_DESCRIPTION - added FSV support - rsspecan_ConfigureTriggerSource - Baseband power added RSSPECAN_ATTR_TRIGGER_SOURCE - rsspecan_ConfigureExternalGate - Power Sensor as Gate Source is available for FSV - rsspecan_ConfigureWiMAXTrigger - added Power Sensor, RF Power trigger mode RSSPECAN_ATTR_WIMAX_TRIG_MODE - rsspecan_ConfigureWlanTrigger - added Power Sensor, RF Power trigger mode RSSPECAN_ATTR_WLAN_TRIG_MODE - RSSPECAN_ATTR_VSA_RESULT_FORMAT - added None, IQCorr - RSSPECAN_ATTR_VSA_TX_FILTER_TYPE - added user defined filter type - RSSPECAN_ATTR_VSA_MEASUREMENT_FILTER_TYPE - added user defined filter type - rsspecan_ReadVSATraceData - new traces added <ul style="list-style-type: none"> - rsspecan_FileDirectory - fixed portable instruments support * Added - RSSPECAN_ATTR_GSM_K10_MEAS_TRIGGER_TO_SYNC - rsspecan_rsspecan_ConfigureGSMK10TriggerToSync RSSPECAN_ATTR_GSM_K10_TRIGGER_TO_SYNC_BINS_COUNT RSSPECAN_ATTR_GSM_K10_TRIGGER_TO_SYNC_ADAPTIVE_DATA_SIZE - rsspecan_rsspecan_ConfigureGSMK10WideSpectrumResultsUnit RSSPECAN_ATTR_GSM_K10_WIDE_SPECTRUM_UNIT - rsspecan_rsspecan_ReadGSMK10SpectrumReferencePower - rsspecan_rsspecan_FetchGSMK10SpectrumReferencePower - rsspecan_rsspecan_AssignMarkerToTrace RSSPECAN_ATTR_NOISE_ASSIGN_MARKER_TO_TRACE - rsspecan_rsspecan_Configure3GPPBSMode RSSPECAN_ATTR_3GPP_BS_STANDARD - rsspecan_rsspecan_ConfigurePWMEExternalPowerTriggerAdvanced RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_HYSTERESIS RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_DROPOUT_TIME RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_HOLDOFF_TIME RSSPECAN_ATTR_PWM_EXTERNAL_POWER_TRIGGER_SLOPE - rsspecan_VSARefreshCapturedData RSSPECAN_ATTR_VSA_REFRESH_CAPTURED_DATA - rsspecan_ConfigureVSAUserDefinedTXFilter RSSPECAN_ATTR_VSA_TX_FILTER_USER_FILE - rsspecan_ConfigureVSAUserDefinedMeasurementFilter RSSPECAN_ATTR_VSA_MEASUREMENT_FILTER_USER_FILE - rsspecan_setVSAModulationStatusRegister - rsspecan_getVSAModulationStatusRegister RSSPECAN_ATTR_VSA_MODULATION_QUESTIONABLE_REGISTER - rsspecan_ConfigureVSALimitsDefault

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		<ul style="list-style-type: none"> RSSPECAN_ATTR_VSA_LIMIT_MODULATION_ACCURACY_DEFAULTS - RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_STATE - rssipecan_ConfigureVSALimitsEVM RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_EVM - rssipecan_ConfigureVSALimitsPhaseError RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_PHASE_ERROR - rssipecan_ConfigureVSALimitsMagnitudeError RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_MAGNITUDE_ERROR - rssipecan_ConfigureVSALimitsCarrierFrequencyError RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_CARRIER_FREQUENCY_ERROR - rssipecan_ConfigureVSALimitsRHO RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_RHO - rssipecan_ConfigureVSALimitsIQOffset RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_IQ_OFFSET - rssipecan_ConfigureVSALimitsFrequencyError RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_FREQUENCY_ERROR - rssipecan_ConfigureVSALimitsFrequencyDeviationError RSSPECAN_ATTR_VSA_LIMIT_MOD_ACC_FREQUENCY_DEVIATION_ERROR - rssipecan_VSARefreshCapturedData RSSPECAN_ATTR_VSA_REFRESH_CAPTURED_DATA - rssipecan_QueryVSAModulationAccuracyLimitsCheckResults RSSPECAN_ATTR_VSA_QUERY_MOD_ACC_LIMIT_CHECK_RESULT - rssipecan_QueryVSAModulationAccuracyStatisticResults
1.15.0.	07/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Support for FSV version 1.55 added * Support for FSVR version 1.54 added * Support for FSU version 4.61 added * Support for FSQ version 4.65 added * New Vector Signal Analysis API * K54 support added * Better FSC and ZVH support * New: <ul style="list-style-type: none"> - rssipecan_ConfigureSpectrumDisplay - rssipecan_TraceIQRecordLength - rssipecan_ConfigureReferenceMarker - rssipecan_QueryTriggerPositionInSample - rssipecan_ConfigureExternalGeneratorFrequency - rssipecan_ConfigureADemodFilterAWeighting - rssipecan_ConfigureSpectrogramFFTWindow - rssipecan_StoreSpectrogramToFile - rssipecan_ConfigureFrequencyMaskTriggerSource - rssipecan_ConfigureVSAIncludeIQData - rssipecan_LockLocalKey - rssipecan_ActivateMarkerPeakSearch - rssipecan_ConfigureMarkerPeakListSettings - rssipecan_ConfigureGSMK10Trace - rssipecan_ConfigureGSMK10AccessBurst - rssipecan_ConfigureGSMK10AQPskBurst - rssipecan_ConfigureGSMK10Demodulation - rssipecan_ConfigureGSMK10MultiMeasurement - rssipecan_FetchGSMK10WideSpectrumResults - rssipecan_ConfigurePersistenceSpectrumMarkerPosition - rssipecan_LoadIQData - rssipecan_StoreIQData

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		<ul style="list-style-type: none"> - rsspecan_ConfigureIQDataExportFileDescription - rsspecan_ConfigureAnalogDemodSquelch - rsspecan_ConfigureFMStereoSquelch - rsspecan_ConfigureSpectrogramContinuousTrigger - rsspecan_ConfigureSpectrogramTimeDomainTrigger - rsspecan_ConfigurePersistenceSpectrumMarkerPosition - rsspecan_QueryPersistenceMarkerZAxis - rsspecan_ConfigurePersistenceSpectrumDeltaMarkerPosition - rsspecan_ConfigureFrequencyMaskDirectory - rsspecan_ConfigureNoiseGeneratorAutoSwitchOff - rsspecan_InitNoiseGenerator - rsspecan_ConfigureTDSBSSyncToSlotRotateCodeChannels - rsspecan_ConfigureLTEDownlinkPRBSymbolOffset - rsspecan_TraceClear - rsspecan_ConfigureMarkerPeakListAnnotation - rsspecan_ConfigureMarkerPeakListState - rsspecan_ReadMarkerPeakList - rsspecan_SEStandardCatalog - rsspecan_SEStandardSave - rsspecan_SEStandardLoad - rsspecan_SEStandardDelete - rsspecan_SEMStandardSave - rsspecan_SEMStandardDelete * Modified: - rsspecan_ConfigureYIGFilter - rsspecan_ConfigureFMStereoAFFilter - rsspecan_ConfigurePowerMeasurement - added ZVH support - rsspecan_ConfigurePowerChannelBandwidth - added FSC support - rsspecan_FetchPWMResult - fixed - rsspecan_ConfigureGSMK10Burst - added new burst types and modulations - rsspecan_ConfigureTriggerSource - rsspecan_ConfigureExternalGate - rsspecan_ConfigureExternalMixer - rsspecan_CreateExternalMixerConversionLossTable - rsspecan_FetchXTrace - rsspecan_SpectrogramMarkerSearch - rsspecan_SpectrogramDeltaMarkerSearch - rsspecan_ConfigureSpectrogramResultDisplayMode - rsspecan_ConfigureVSATraceEvaluation - rsspecan_ConfigureBDOAdvancedSettings - rsspecan_ConfigureMDOCCodeDomainAnalyzerResults - rsspecan_QueryMDOCCodeDomainAnalyzerResultSummary - rsspecan_ConfigureWlanMeasRange - rsspecan_ConfigureWiMAXDemodulation - rsspecan_ConfigureMarkerPeakList - added 2 new arguments - rsspecan_SetInstrumentFromMarker - fixed
1.14.0	04/2011	Modifications: * Support for LTE Uplink added (FSV-K101, FSV-K105) * Modified functions: - rsspecan_ConfigureLevel (Amplitude Units update for FSH4/8) - rsspecan_QueryPowerResults - rsspecan_ConfigureAcquisition
1.13.0	03/2011	Modifications:

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rsspecan Instrument Driver		
History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		Support for ZVH added
1.12.0	02/2011	<p>Modifications:</p> <p>Support for FSH 4/8 version 1.40 added</p> <p>* New functions:</p> <ul style="list-style-type: none"> - rsspecan_ConfigureAntennaSettings - rsspecan_SetChannelNumber - rsspecan_ConfigureRelativeDeltaMarkerPosition - rsspecan_ConfigureExternalGateTime - rsspecan_getGPSAltitude - rsspecan_ConfigureSEMPresetSettings - rsspecan_Configure3GPPFDDBSScramblingCode - rsspecan_ConfigureEVDOBSTPowerReference <p>* Modified functions:</p> <ul style="list-style-type: none"> - rsspecan_SelectPowerMeasurement - rsspecan_SetInstrumentFromMarker - rsspecan_ConfigureExternalGate - rsspecan_ConfigureHardcopyDevice - rsspecan_QueryPowerResults - rsspecan_ConfigureSEMPresetStandard - rsspecan_Configure3GPPBSMeasurement - rsspecan_Configure3GPPBSResults - rsspecan_Search3GPPBSScramblingCode - rsspecan_Get3GPPBSResult - rsspecan_Get3GPPBSCDPResult - rsspecan_Get3GPPBSCDPScramblingCodeResult - rsspecan_ConfigureC2KBasicSettings - rsspecan_ConfigureBC2KAdvancedSettings - rsspecan_ConfigureBC2KAntennaSettings - rsspecan_ConfigureBC2KCodeDomainAnalyzerResults - rsspecan_ConfigureBC2KCodeDomainAnalyzerSettings - rsspecan_QueryBC2KCodeDomainAnalyzerResultSummary - rsspecan_ConfigureBDOCodeDomainAnalyzerResults - rsspecan_ConfigureBDOCodeDomainAnalyzerSettings - rsspecan_ConfigureBDOAdvancedSettings - rsspecan_QueryBDOCodeDomainAnalyzerGeneralResults - RSSPECAN_ATTR_SERVICE_NOISE_SOURCE - remove B5 option checking - RSSPECAN_ATTR_FFT_FILTER_MODE - supported instrument models updated - RSSPECAN_ATTR_SWEEP_TYPE - supported instrument models and range table updated
1.11.1	01/2011	<p>Modifications:</p> <ul style="list-style-type: none"> - RSSPECAN_ATTR_PMET_SELECT - removed option and instrument checking - rsspecan_ConfigurePowerSensorAssignment - interface parameter renamed to intfc in header file
1.11.	12/2010	<p>Modifications:</p> <ul style="list-style-type: none"> * Added support for FSVR * Added support for FSV-K14. Old K14 renamed to Realtime Spectrum Analysis * Multiple power sensors support (FSV and FSVR) * New functions: <ul style="list-style-type: none"> - rsspecan_ConfigureGSMK10CorrelationThreshold - rsspecan_ConfigureGSMK10SwapIQ - rsspecan_ConfigureGSMK10MarkerZoom - rsspecan_ConfigureGSMK10ResultDisplay - rsspecan_ConfigureGSMK10UserTSC - rsspecan_ConfigureGSMK10PVTAlignment - rsspecan_ReadGSMK10BurstSlotDeltaToSync

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rsspecan Instrument Driver		
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"> - rsspecan_FetchGSMK10BurstSlotDeltaToSync - rsspecan_ReadGSMK10WideSpectrumResults - rsspecan_ReadGSMK10WideSpectrumGating - rsspecan_ConfigureTraceIQDataAnalyzerEnabled - rsspecan_ConfigurePowerChannelName - rsspecan_ConfigureDisplayFocusedArea - rsspecan_GetSelectedSubwindow - rsspecan_ConfigureDeltaMarkerBandPower - rsspecan_QueryDeltaMarkerBandPower - rsspecan_ConfigureMarkerBandPower - rsspecan_QueryMarkerBandPower - rsspecan_SystemShutdown - rsspecan_ConfigureDigitalBasebandInputCoupling - rsspecan_ConfigureDigitalBasebandInputParameters Auto - rsspecan_Configure3GPPFDDBSWCDPSingleAntennaMIMOMode - rsspecan_Get3GPPFDDBSTimeAlignmentErrorResult - rsspecan_ConfigureTDSBSChannelTableMaxModulation - rsspecan_ConfigureTDSUEChannelTableMaxModulation - rsspecan_ConfigureTDSBSSyncToSlotMode - rsspecan_ConfigureTDSUESEMLimits - rsspecan_ConfigureTDSUESyncToSlotMode - rsspecan_ConfigureWiMAXSTCMIMO - rsspecan_ConfigureWiMAXAutoDemodulation - rsspecan_ConfigureWiMAXSTCMIMODemodulation - rsspecan_ConfigureWiMAXBurstBoosting - rsspecan_ConfigureWiMAXZoneSTCMode - rsspecan_ConfigureWiMAXZoneBurstSTCMode - rsspecan_ConfigureWiMAXTTCSubframeLengthMeasure - rsspecan_ConfigureWiMAXTTCSubframeLength <p>* Modified functions:</p> <ul style="list-style-type: none"> - rsspecan_ConfigureGSMK10Burst - added possibility to define user TSC - rsspecan_ConfigureGSMK10Measurement - added Wide Spectrum - rsspecan_ConfigureNoiseMeasurementMode - added Single Frequency Single Sweep Measurement and Single Frequency Continuous Measurement - rsspecan_ConfigureReferenceFixedPoint - fixed - rsspecan_QueryPowerResults - added AOB - rsspecan_ConfigureTriggerSource - added RFP - rsspecan_ConfigureExternalGate - added RFP - rsspecan_QueryFMStereoChannelTypeResults - added Cross Talk - rsspecan_ConfigureVSAMarkerSearch - added Magnitude - rsspecan_Set3GPPFDDBSMeasurement - added Time Alignment Error - rsspecan_GetTDSBSResult - added Average RCDE of active channels - rsspecan_GetTDSUEResult - added Average RCDE of active channels - rsspecan_ConfigureWiMAXDemodulation - added new modulation detection modes - rsspecan_ConfigureWiMAXZoneSpaceTimeCoding - added One Antenna (MIMO only) - rsspecan_CreateWiMAXNewZoneBurst - added Modulation Auto - rsspecan_ConfigureWiMAXZoneBurst - added Modulation Auto - rsspecan_ConfigureWiMAXSpectrumMeasurement - added ETSI30254401,BW10M; ETSI30254401,BW5M - rsspecan_ConfigureWiMAXSEMMeasurement - added ETSI EN 30254401 standard for 5MHz BW and ETSI EN 30254401 standard for 10MHz BW - rsspecan_FileManagerOperations - added Delete File Immediate
1.10.2	07/2010	Modifications:

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rsspecan Instrument Driver		
History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		<p>Initial Release for Mac OS X support for:</p> <ul style="list-style-type: none"> - Snow Leopard (10.5.x) <p>Distance to Fault measurement is no longer available for FSC Power meter mode is no longer available for FSC Fixed attributes: RSSPECAN_ATTR_FREQUENCY_CENTER_LINK - added DIVT option RSSPECAN_ATTR_PMET_MODE - added wait for OPC</p>
1.10.1	06/2010	<p>Modifications:</p> <ul style="list-style-type: none"> Added support of K40 option for FSV instrument Fixed for 64-bit support
1.10.0	06/2010	<p>Modifications:</p> <ul style="list-style-type: none"> Support for FSQ-K110 version 4.50 added <p>Added Functions:</p> <ul style="list-style-type: none"> - rsspecan_DTFMode <p>Updates and fixes:</p> <ul style="list-style-type: none"> - rsspecan_setStatusRegister - rsspecan_getStatusRegister - rsspecan_PWMMode - now supports FSH and FSC
1.9.0	03/2010	<p>Modifications:</p> <ul style="list-style-type: none"> * Support for FSV-K70 version 1.40 added <p>Added functions/attributes:</p> <ul style="list-style-type: none"> - rsspecan_ConfigureDisplayZoom - rsspecan_YAxisAutoScale - rsspecan_ConfigureDigitalBasebandInputTriggerSource - rsspecan_ConfigureDigitalBasebandInputTriggerParameters - rsspecan_ConfigureVSAScreenCoupling - rsspecan_ConfigureVSAMarkerSearch - rsspecan_ConfigureVSAMarkerPeakSearch - rsspecan_VSAAadjustReferenceLevelToFullScaleLevel - rsspecan_ConfigureVSAPatternSearchAutoConfiguration - rsspecan_PresetVSAScreens - rsspecan_ConfigureVSABurstSearchAuto - rsspecan_ConfigureVSABurstSearchAutoConfiguration - rsspecan_ConfigureVSAPatternSearchAutoConfiguration - rsspecan_ConfigureVSASignalType - rsspecan_ConfigureVSAPatternSignalState - rsspecan_ConfigureVSAPatternOffset - rsspecan_ConfigureVSATXFilter - rsspecan_ConfigureVSACompensation - rsspecan_ConfigureVSAMeasurementFilter - rsspecan_ConfigureVSADisplayPointPerSymbol - rsspecan_ConfigureVSACaptureOversampling - rsspecan_ConfigureVSATraceEvaluation - rsspecan_ConfigureVSADisplayWindowState - rsspecan_ConfigureVSAModulationAccuracy - rsspecan_GetVSAAllResults - rsspecan_ConfigureWiMAXFrameIDCellAuto - rsspecan_ConfigureWiMAXFramePredefinedMap <p>* Updates and fixes:</p> <ul style="list-style-type: none"> - rsspecan_GetVSAResult

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rssipecan Instrument Driver		
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"> - rssipecan_ConfigureVSADisplayAlignment - rssipecan_VSAImport - rssipecan_VSAExport - rssipecan_ConfigureVSAFileExport - rssipecan_ConfigureVSAFileImport - rssipecan_ConfigureVSAEVMModulation - rssipecan_ConfigureVSAEqualizerMode - rssipecan_ConfigureVSAEqualizer - rssipecan_VSAEqualizerOperations - rssipecan_GetVSAModulationFilterCatalog - rssipecan_ConfigureVSAModulationFilters - rssipecan_ConfigureVSACompressionPointMeasurement - rssipecan_GetVSACompressionPointResults - rssipecan_ConfigureVSABurstSearchHysteresis - rssipecan_ConfigureVSABurstSearch - rssipecan_ConfigureVSAMultipleEvaluation - rssipecan_VSASearchBurstInCaptureRam - rssipecan_ConfigureVSAMultipleEvaluationZoom - rssipecan_GetVSADigitalStandardCatalog - rssipecan_VSADigitalStandardSave - rssipecan_ConfigureVSAForceWBPath - rssipecan_SetVSAFactoryDefaults - rssipecan_ConfigureVSAModulation - rssipecan_ConfigureVSADisplayYAxis - rssipecan_ConfigureVSADisplayXAxis - rssipecan_GetVSAPatternCatalog - rssipecan_TraceIQSet - rssipecan_RunReceiverMeasurement - rssipecan_ConfigurePowerSensorPowerDisplay (panel modified)
1.8.0	01/2010	<p>Modifications:</p> <p>Support for FSH 4/8 version 1.20 & 1.21 added K10 (GSM Measurement) no longer limited to FSV instrument</p> <p>Updates and fixes</p> <ul style="list-style-type: none"> - rssipecan_GSMK10Mode - added instrument checking (FSC) to attributes
1.7.0	11/2009	<p>Modifications:</p> <ul style="list-style-type: none"> - Support for FSV version 1.40 added - Support for K7S (FM Stereo) added - Support for K100 and K102 added - Support for FSMR version 4.36 added, tested and debugged - Support for FSH4/8 version 1.10 added - Support for FSV version 1.20 added <p>Added functions/attributes:</p> <ul style="list-style-type: none"> - rssipecan_ConfigureTraceIQGate - rssipecan_ConfigureTraceIQDataDisplayType - rssipecan_QueryTraceIQFilterBandwidth - rssipecan_QueryExternalMixerRFStartStop - rssipecan_ConfigureExternalMixerHandoverFrequency - rssipecan_ConfigureExternalMixerRFOverrange - rssipecan_ConfigureExternalMixerPresetBand - rssipecan_ConfigureExternalMixerHighHarmonic - rssipecan_ConfigureDigitalBasebandOutput

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rsspecan Instrument Driver		
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"> - rsspecan_ConfigureDigitalBasebandFullScaleLevel - rsspecan_ConfigurePWMDDutyCycle - rsspecan_ConfigureGSMK10Synchronization - rsspecan_ConfigureGSMK10DemodulationEqualTimeslotLength - rsspecan_ConfigureGSMK10PVTFilter - rsspecan_ConfigureGSMK10ModulationTransientSpectrum - rsspecan_ConfigureGSMK10MultiCarrier - rsspecan_ConfigureWLANFFTStartOffset * Updates and fixes - rsspecan_TraceIQExtendedBandwidth - rsspecan_ConfigureExternalMixerEnabled - rsspecan_ConfigureExternalMixerNumberOfPorts - rsspecan_ConfigureExternalMixer - rsspecan_ConfigureExternalMixerSignalIDMode - rsspecan_ConfigureExternalMixerBias (function API redesigned) - rsspecan_ConfigureExternalMixerConversionLoss (function API redesigned) - rsspecan_ConfigureExternalMixerConversionLossTable (function removed) - rsspecan_ConfigureExternalMixerLowPower - rsspecan_CreateExternalMixerConversionLossTable - rsspecan_ExternalMixerConversionLossTableSelect - rsspecan_ExternalMixerConversionLossTableDelete - rsspecan_ExternalMixerConversionLossTableCatalog - rsspecan_PhaseNoisePeakSearchAuto - rsspecan_ConfigureMeasuringReceiverRelativeLevelMeasurement - rsspecan_ReadGSMK10MeasurementResults - rsspecan_FetchGSMK10MeasurementResults - rsspecan_Configure3GPPFDDBSChannelTableData - rsspecan_Get3GPPBSCDPScramblingCodeResult - rsspecan_Get3GPPBSCDPListEvaluationResult - rsspecan_ConfigureWlanBasebandSignalLevel <p>2009-10-30 Jiri Kominek * Version 1.6.0 * Support for K100 and K102 added * Fixed rsspecan_ConfigureSEMRRangeRFAttenuation</p> <p>2009-10-01 Petr Kominek, Jiri Kominek * Version 1.5.1 * Support for FSMR version 4.36 added, tested and debugged</p> <p>2009-08-10 Petr Kominek * Version 1.5.0 * Support for FSH4/8 version 1.10 added * Support for FSV version 1.20 added * Support for FSMR version 4.36 added (untested betaversion)</p>
1.4.0	06/2009	<p>Modifications: Support for FSUP (Signal Source Analyzer) instrument added</p> <p>Updates and fixes</p> <ul style="list-style-type: none"> - rsspecan_LXIIInfo (deleted) - rsspecan_LXIInstrumentDescription (deleted) - rsspecan_LXILANReset (deleted) - rsspecan_LXIPassword (deleted) - rsspecan_ConfigureFilterType

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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"> - rssipecan_ConfigureLevel - rssipecan_ConfigureUnitPower - rssipecan_TraceIQAveraging - rssipecan_ConfigureSubtractTraces - rssipecan_StoreMarkerPeakList - rssipecan_ConfigureReferenceOscillator - rssipecan_ConfigureExternalMixerSignalIDMode - rssipecan_ConfigureSESweepListFilterType - rssipecan_ConfigureSESweepListPreamplifier - rssipecan_ConfigureWiMAXZoneMatrix (renamed from rssipecan_ConfigureWiMAXZoneMartix) - rssipecan_ConfigureWiMAXZoneBurstMatrix (renamed from rssipecan_ConfigureWiMAXZoneBurstMartix) - rssipecan_ServiceConfigurePulsedInput - rssipecan_DataSetFileSelectItems - rssipecan_setStatusRegister - rssipecan_getStatusRegister - rssipecan_ReadGsmModSpectrum (Status control help fixed) - rssipecan_FetchGsmModSpectrum (Status control help fixed) - rssipecan_ReadGsmTransSpectrum (Status control help fixed) - rssipecan_FetchGsmTransSpectrum (Status control help fixed)
1.3.0	05/2009	<p>Driver update for Spectrum Analyzer firmware 4.40: Modifications:</p> <p>Added functions/attributes:</p> <ul style="list-style-type: none"> - rssipecan_ConfigureFrequencyZeroSpan - rssipecan_QuerySelectedReferenceOscillatorSource - rssipecan_ConfigureReferenceOscillatorExternalPLLBandwidth - rssipecan_QueryChannelPowerStandardCatalog - rssipecan_ConfigureChannelPowerUserStandard - rssipecan_ACPChannelPowerAdjustRefLevelOffset - rssipecan_ACPAdjustReferenceLevelToChannelPower - rssipecan_ConfigureSignalStatisticMeanPowerPosition - rssipecan_ConfigureTOIPositioning - rssipecan_QueryHDistBandwidthList - rssipecan_QueryDigitalBasebandInputOutputConfiguration - rssipecan_ConfigureVSAFileImport - rssipecan_ConfigureWiMAXZoneMartix - rssipecan_ConfigureWiMAXZoneBurstMartix - rssipecan_ConfigureWiMAXTTCCStart - rssipecan_ConfigurePWMBBarGraphView <p>* Updates and fixes:</p> <ul style="list-style-type: none"> - rssipecan_ConfigureMarkerZoomState - rssipecan_ConfigureReferenceOscillator - rssipecan_ConfigureIFPowerTriggerParameters - rssipecan_InitiateSpurious - rssipecan_InitiateSEMMeasurement - rssipecan_ConfigureChannelPowerStandard - rssipecan_ConfigurePowerChannelWeightingFilters - rssipecan_ConfigureHDistMeasurement - rssipecan_ConfigureSESweepListLimits - rssipecan_ConfigureVSAModulation - rssipecan_ConfigureVSAFileExport - rssipecan_Get3GPPBSResult - rssipecan_Get3GPPUEResult

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rsspecan Instrument Driver		
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"> - rsspecan_FetchWlanBurstAll - rsspecan_ConfigureWiMAXSpectrumMeasurement - rsspecan_ConfigureWiMAXSEMMeasurement - rsspecan_FetchWiMAXBurstAll - rsspecan_FetchWiMAXEVM - rsspecan_WriteFromFileToInstrument - rsspecan_setStatusRegister - rsspecan_getStatusRegister - rsspecan_ConfigureTransducerFactor
1.2.1	04/2009	<p>Modifications: Support for R&S ESL FW 1.82 added</p> <p>Initial Release for Linux, support for:</p> <ul style="list-style-type: none"> - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 <p>Added functions:</p> <ul style="list-style-type: none"> - rsspecan_ReadReceiverDetectorExt - rsspecan_ReadScanMeasurementStatus - rsspecan_ReadPeakResults <p>Updates and fixes:</p> <ul style="list-style-type: none"> - rsspecan_ConfigureLimitLine - rsspecan_ConfigureFinalReceiverDetector - rsspecan_ConfigureReceiverDetector - rsspecan_ConfigurePWMMeasurement - rsspecan_DataSetFileSelectItems - rsspecan_ConfigureWlanSEMMeasurement <p>* Fixed rsidr_core - see rsidr_core.c for list of changes</p>
1.2.0	03/2009	<p>Modifications: Support for FSH4/FSH8 FW 1.0 added</p> <p>Updates and fixes:</p> <ul style="list-style-type: none"> - rsspecan_SetSANMode - rsspecan_ConfigureFrequencyStepSize - rsspecan_ConfigureLevel - rsspecan_ConfigureTraceDetector - rsspecan_MarkerSearch - rsspecan_ConfigureDeltaMarker - rsspecan_ConfigureDeltaMarkerPosition - rsspecan_DeltaMarkerSearch - rsspecan_QueryDeltaMarker - rsspecan_ConfigureTrigger - rsspecan_ConfigureDisplayLineState - rsspecan_ConfigureDisplayLinePosition - rsspecan_Initiate - rsspecan_TraceIQAveraging <p>Help updated</p> <ul style="list-style-type: none"> - rsspecan_InitAttributes <p>* Fixed rsidr_core - see rsidr_core.c for list of changes</p>
1.1.1	01/2009	Bug fixed when reading out the trace I/Q data

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History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		Updated functions: rssipecan_ReadTraceIQData rssipecan_FetchTraceIQData
1.1.0	01/2009	<p>Driver update for Spectrum Analyzer firmware 4.30:</p> <p>New functions: rssipecan_TraceIQExtendedBandwidth rssipecan_ApplicationSetupRecovery rssipecan_ConfigureIFShift rssipecan_ConfigurePhaseFrequencyTolerance rssipecan_ConfigureVSAEVMOffsetState rssipecan_ConfigureTDSBSSyncToSlot rssipecan_ConfigureTDSBSUCPICH rssipecan_ConfigureTDSUESyncToSlot rssipecan_ConfigureTDSUEUCPICH rssipecan_ConfigureWiMAXNumberOfAntennas rssipecan_ConfigureWiMAXZoneSpaceTimeCoding</p> <p>Updated functions: rssipecan_ConfigureFilterType rssipecan_ConfigureSESweepListFilterType rssipecan_TracePhaseSettings rssipecan_Get3GPPBSResult rssipecan_Get3GPPUERResult rssipecan_ConfigureWiMAXStandard rssipecan_CreateWiMAXNewZoneBurst rssipecan_ConfigureWiMAXZoneBurst rssipecan_FetchWiMAXBurstPower</p> <p>Added support for FSV Signal and Spectrum Analyzer (FW 1.10):</p> <p>New functions: rssipecan_ConfigureFrequencyStepSizeAuto rssipecan_ConfigureFrequencyMode rssipecan_ConfigureHorizontalScale rssipecan_ConfigureSweepType rssipecan_ConfigureMarkerSearchLimitsZoom rssipecan_LXIInfo rssipecan_LXIInstrumentDescription rssipecan_LXILANReset rssipecan_LXIPassword rssipecan_ConfigureExternalGateTrace rssipecan_ConfigureDisplaySettings rssipecan_GetDisplayThemeCatalog rssipecan_ConfigureDisplayThemeSelect rssipecan_ConfigureDisplayMarkerTable rssipecan_HardcopyPrintNext rssipecan_HardcopyTimeDate rssipecan_ConfigureAutoAdjust rssipecan_QueryNdbBQFactor rssipecan_ConfigurePowerChannelWeightingFilters rssipecan_TOISignalSearch rssipecan_ConfigureFastSEM rssipecan_StoreSEMPresetSettings</p>

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rsspecan Instrument Driver		
History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rsspecan_ConfigureSEMUsedPowerClasses rsspecan_ConfigureSEMPowerClassCount rsspecan_ConfigureSEMPowerClassLimits rsspecan_ConfigureSEMPowerClassAllLimits rsspecan_QuerySEMPowerClassAllLimits rsspecan_ConfigureADemodZoomLength Updated functions: rsspecan_QueryDeltaMarker rsspecan_ConfigureTriggerSource rsspecan_ConfigureIFPowerTriggerParameters rsspecan_ConfigureTVTrigger rsspecan_ConfigureExternalGate rsspecan_ConfigureRFInputCoupling rsspecan_ConfigureElectronicAttenuator rsspecan_ConfigurePreamplifierState rsspecan_InputProtectionReset rsspecan_ConfigureLimitLine rsspecan_ConfigureTransducerFactor rsspecan_GetTransducerFactorCatalog rsspecan_ReadYTrace rsspecan_FetchYTrace rsspecan_GetCurrentResults rsspecan_InitiateSEMMeasurement rsspecan_ConfigureMarkerNoiseMeasurement rsspecan_QueryMarkerNoiseMeasurementResult rsspecan_ConfigureMarkerFrequencyCounter rsspecan_QueryMarkerFrequencyCounterResult rsspecan_ConfigureListPowerAverageType rsspecan_ConfigureChannelPowerTrace rsspecan_ConfigureChannelPowerStandard rsspecan_QuerySignalStatisticResult rsspecan_ModulationDepthSignalSearch rsspecan_ConfigureHDistMeasurement rsspecan_ConfigurePWMExternalPowerTrigger rsspecan_Configure3GPPBSResultType rsspecan_ConfigureWlanStandard rsspecan_CreateWiMAXNewZone rsspecan_ConfigureWiMAXZone rsspecan_ServiceConfigureInput rsspecan_ServiceConfigurePulsedInput rsspecan_MemorySize rsspecan_ConfigureVerticalScale rsspecan_ConfigureSweepPoints rsspecan_ConfigureSignalTrack rsspecan_MarkerSearch rsspecan_MoveMarker rsspecan_SetInstrumentFromMarker rsspecan_LinkMarkerAndDeltamarker rsspecan_QueryMarker rsspecan_ProbabilityMarkerPosition rsspecan_ConfigureIFOutputSource rsspecan_ConfigureUnitPower rsspecan_ConfigureMarker rsspecan_ConfigureMarkerDemodulation

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Revision	Date	Note
		rsspecan_ConfigureMarkerPeakList rsspecan_StoreMarkerPeakList rsspecan_QueryMarkerPeakListFound rsspecan_QueryMarkerPeakList rsspecan_ConfigureDeltaMarker rsspecan_ConfigureDeltaMarkerPosition rsspecan_DeltaMarkerSearch rsspecan_ConfigureSESweepListSweep rsspecan_ConfigureSESweepListLimits rsspecan_SEMMarkAllPeaks rsspecan_ConfigureSEMReferenceRange rsspecan_QuerySEMReferenceRangePosition rsspecan_ConfigureSEMPresetStandard rsspecan_RestoreSEMStandardFiles rsspecan_SEMSaveListToFile rsspecan_ConfigureADemodAFParam Driver update for FSL Spectrum Analyzer firmware 1.90: New functions: rsspecan_ConfigureAttenuationMode rsspecan_ServiceVersionInfo rsspecan_NetworkMapDrive rsspecan_NetworkDisconnectDrive rsspecan_NetworkUnusedDrivesList rsspecan_NetworkUsedDrivesList rsspecan_NetworkShowFolderInfo Updated functions: rsspecan_ConfigureAveragingType rsspecan_ConfigureSubtractTraces rsspecan_ConfigureHardcopyDevice rsspecan_ConfigureSEM rsspecan_FileDirectoryPath
1.0.1	11/2008	New functions: - rsspecan_ReadScanMeasurement - rsspecan_RunReceiverMeasurement
1.0	10/2008	Initial revision

About Rohde & Schwarz

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established 75 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

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