

Driver history for R&S®SFE Broadcast Tester and R&S®SFE100 Test Transmitter Driver Documentation

Products:

- | R&S®SFE Broadcast Tester
- | R&S®SFE100 Test Transmitter

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

Table of Contents

| | |
|--|-----------|
| 1History for LabVIEW Instrument Driver | 4 |
| 2History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc..... | 14 |

1 History for LabVIEW Instrument Driver

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|--|
| Revision | Date | Note |
| 2.80.1 | 01/2014 | * Modified: rssfe Configure Gen Noise.vi - AWGN is no longer available |
| 2.80.0 | 01/2013 | Driver update for firmware version 02.80 * New: rssfe Configure DVBT2 Input T2 MI SID.vi rssfe Configure DVBT2 Transmission System Network.vi rssfe Configure DVBT2 Transmission Profile Mode.vi rssfe Configure DVBT2 Transmission Future Extension Payload.vi rssfe Configure DVBT2 Transmission L Parameters L1T2.vi rssfe Read DVBT2 T2 System Tx ID Availability.vi rssfe Configure DVBT2 SFN Timestamp Offset.vi rssfe Configure DVBT2 SFN Update Timestamp.vi rssfe Read DVBT2 SFN Timestamp Mode.vi rssfe Read DVBT2 SFN Timestamp Parameters.vi rssfe Read DVBC2 Data Slice Frequency Values.vi rssfe Configure DVBC2 Number Of Notches.vi rssfe Read DVBC2 Notch Type.vi rssfe Configure DVBC2 Notch Values.vi rssfe Read DVBC2 Notch Frequency Values.vi rssfe Configure DVBC2 Framing OFDM C2 Bandwidth.vi rssfe Configure DVBC2 Framing OFDM Baseband Filter.vi rssfe Configure DVBC2 Framing OFDM Adjust RF Frequency.vi * Modified: rssfe_core.lvlib version 4.0.0 DVB-C2: Notches 1-4 are supported DVB-C2: Data Slice 1-4 are supported rssfe Configure DVBT2 BICM Parameters.vi rssfe Configure DVBT2 Transmission System.vi rssfe Configure DVBT2 Transmission L Parameters.vi rssfe Read DVBC2 Data Slice Values.vi rssfe Read DVBC2 Notch Values.vi rssfe Configure DVBC2 Framing OFDM Parameters.vi - 'Num Bundled CH' not used rssfe Configure DVBT2 P1p.vi - 'Stuffing' not used rssfe Close.vi - remove GTL * Deleted: RSSFE_ATTR_DVBC2_FRAMING_NUM_BUNDLED_CH |
| 2.60.2 | 08/2012 | * Modified: - new driver revision |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|---|
| Revision | Date | Note |
| 2.60.1 | 05/2012 | - Modified VIs: rssfe Configure DTMB Coding.vi RSSFE_ATTR_IQC_DTMB_CONS - added QAM-NR, 32QAM parameters |
| 2.60.0 | 03/2012 | Driver update for firmware version 2.60 * New: rssfe Configure ISDBT Input Parameters.vi rssfe Configure ISDBT Coding Control.vi rssfe Configure DVBT2 MISO Group Mode.vi rssfe Configure DVBT2 SFN Delay Parameters.vi rssfe Configure DVBT2 SFN Mute P1 Symbol.vi rssfe Read DVBT2 SFN Delay Parameters.vi - Added DVB-C2 transmission standard: rssfe Configure DVBC2 Number Of PLP.vi rssfe Configure DVBC2 Input Signal.vi rssfe Read DVBC2 Values.vi rssfe Configure DVBC2 Test Signal.vi rssfe Configure DVBC2 Mode Stream Adaptation.vi rssfe Read DVBC2 Mode Stream Adaptation PLP Type.vi rssfe Configure DVBC2 BICM PLP Mapping Parameters.vi rssfe Read DVBC2 BICM XFEC Frame Length.vi rssfe Read DVBC2 Data Slice Min Max.vi rssfe Configure DVBC2 Number Of Data Slices.vi rssfe Configure DVBC2 Data Slice Parameters.vi rssfe Read DVBC2 Data Slice Num PLP.vi rssfe Configure DVBC2 Current Data Slice Parameters.vi rssfe Read DVBC2 Data Slice Values.vi rssfe Read DVBC2 Number Of Notches.vi rssfe Read DVBC2 Notch Values.vi rssfe Configure DVBC2 Framing OFDM Parameters.vi rssfe Read DVBC2 Framing OFDM Used Bandwidth.vi rssfe Read DVBC2 Framing OFDM Parameters.vi rssfe Configure DVBC2 C2 System Parameters.vi rssfe Configure DVBC2 Settings.vi * Modified: rssfe Configure Modulation.vi rssfe Configure DVBT2 Transmission System Identification.vi - renamed control, changed data type rssfe Initialize.vi - VISA timeout set to 20 sec RS_ATTR_QUERY_INSTRUMENT_STATUS - enable RS_ATTR_OPC_CALLBACK, RS_ATTR_CHECK_STATUS_CALLBACK - fixed attribute data type * Deleted: RSSFE_ATTR_DVBT2_T2_SYSTEM_TRANSMITTER_ID_STATE |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|--|
| Revision | Date | Note |
| 2.40.0 | 05/2011 | <p>Driver update for firmware version 2.40</p> <ul style="list-style-type: none"> - MediaFLO modulation standard completely redesigned - Changed range table names to prevent conflicts when used with other drivers - Modified VIs: <ul style="list-style-type: none"> rssfe Configure DVBT2 Input Signal.vi rssfe Read ISDBT Values.vi rssfe Configure MediaFLO Input Signal.vi - Added VIs: <ul style="list-style-type: none"> rssfe Read MediaFLO Values rssfe Read Status MediaFLO Delay Parameters.vi rssfe Read Status MediaFLO Count Parameters.vi rssfe Configure MediaFLO Coding rssfe Configure MediaFLO Coding Parameters.vi rssfe Configure MediaFLO PID Settings.vi rssfe Configure MediaFLO Local OIS System Settings.vi rssfe Configure MediaFLO Position Pilot Settings.vi rssfe Enable MediaFLO TX Position Settings.vi rssfe Configure MediaFLO TX Settings.vi rssfe Configure DVBT2 Input T2 MI PID.vi rssfe Reset DVBT2 T2 MI Analyzer Log File.vi rssfe Read DVBT2 T2 MI Analyzer.vi rssfe Configure DVBT2 Framing OFDM Bandwidth Variation.vi rssfe Configure DVBT2 Mode Stream Adaptation In Band Signal.vi - Obsoleted VIs: <ul style="list-style-type: none"> rssfe Read MediaFLO Measured Data Rate.vi rssfe Configure MediaFLO Delay Settings.vi rssfe Read MediaFLO Delay SSF Arrival Time.vi rssfe Set MediaFLO Channel Bandwidth.vi rssfe Configure MediaFLO Area Settings.vi rssfe Configure MediaFLO ID Settings.vi rssfe Read MediaFLO Length Settings.vi |
| 2.20.0 | 06/2010 | <p>Driver update for firmware version 2.20</p> <ul style="list-style-type: none"> - Modified VIs: <ul style="list-style-type: none"> rssfe Configure Modulation.vi rssfe Configure J83B Coding.vi rssfe Read MediaFLO Measured Data Rate.vi rssfe Configure Gen Noise.vi - Added VIs: <ul style="list-style-type: none"> rssfe Configure DVBT2 Input Signal.vi rssfe Configure DVBT2 PLP.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|---|
| Revision | Date | Note |
| | | rssfe Read DVBT2 Values.vi rssfe Configure DVBT2 Test Signal.vi rssfe Configure DVBT2 Mode Stream Adaptation.vi rssfe Read DVBT2 Mode Stream Adaptation Values.vi rssfe Configure DVBT2 BICM Parameters.vi rssfe Configure DVBT2 BICM Time Interleaver Parameters.vi rssfe Read DVBT2 BICM FEC Blocks Per IF.vi rssfe Configure DVBT2 Framing OFDM Parameters.vi rssfe Read DVBT2 Framing OFDM Used Bandwidth.vi rssfe Read DVBT2 Framing OFDM Symbols Per T2 Frame.vi rssfe Configure DVBT2 Framing OFDM.vi rssfe Configure DVBT2 Transmission System.vi rssfe Configure DVBT2 Transmission Future Extension Frames.vi rssfe Configure DVBT2 Transmission L Parameters.vi rssfe Configure DVBT2 Transmission System Identification.vi rssfe Configure DVBT2 Settings.vi rssfe Noise Configuration.vi rssfe Enable Fading.vi rssfe Query Fading Source.vi rssfe Restart Fading.vi rssfe Configure Fading Profile File.vi rssfe Fading Catalog.vi rssfe Configure Fading Standard Set.vi rssfe Enable Fading Path.vi rssfe Configure Fading Path Profile.vi rssfe Configure Fading Path Profile Table Numeric.vi rssfe Read Fading Path Profile Table Results.vi rssfe Configure Fading Common Settings.vi rssfe Configure Fading Insertion Loss Settings.vi rssfe Read Fading Clipped Sample.vi rssfe Set Fading Settings To Default.vi |
| 2.00.0 | 01/2010 | Driver update for firmware version 2.00 - Modified VIs: rssfe Configure Analog TV Special VSB Characteristic.vi |
| 1.50.0 | 12/2009 | Driver update for firmware version 1.50 - Added VIs: rssfe Configure ATSM Input Signal.vi rssfe Configure ATSM Test Signal.vi rssfe Read ATSM Packed Length.vi rssfe Read ATSM Values.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|---|
| Revision | Date | Note |
| | | rssfe Configure ATSM Coding.vi rssfe Read ATSM Constellation.vi rssfe Read ATSM Roll Off.vi rssfe Configure ATSM Settings.vi rssfe Configure ATSM Watermark.vi rssfe Configure ATSM MTXID Transmission.vi rssfe ARB Memory Size.vi rssfe ARB Samples Maximum.vi - Modified VIs: rssfe Configure Modulation.vi rssfe Configure Audio BC Open Format GroupA.vi rssfe Audio BC Open Format Group Data Transfer Status.vi |
| 1.40.1 | 07/2009 | Driver update for firmware version 1.40 - Added VIs: rssfe Configure DVBS2 Input Signal.vi rssfe Configure DVBS2 Test Signal.vi rssfe Configure DVBS2 Coding.vi rssfe Configure DVBS2 Settings.vi rssfe Configure DVBS2 Payload Test Stuff.vi rssfe Read DVBS2 Packed Length.vi rssfe Read DVBS2 Values.vi - Modified VIs: rssfe Configure CMMB Input Signal. |
| 1.40 | 05/2009 | Driver update for firmware version 1.40 Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 - Added VIs: rssfe Configure DVBT Payload Test Stuff.vi rssfe Configure DTMB Payload Test Stuff.vi rssfe Configure DVBC Payload Test Stuff.vi rssfe Configure DVBS Payload Test Stuff.vi rssfe Configure 8VSB Payload Test Stuff.vi rssfe Configure J83B Payload Test Stuff.vi rssfe Configure ISDBT Special Settings.vi rssfe Configure ISDBT Payload Test Stuff.vi rssfe Configure CMMB Input Signal.vi rssfe Read CMMB Values.vi rssfe Set CMMB Number Of Services.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|------|--|
| Revision | Date | Note |
| | | rssfe Configure CMMB Coding.vi rssfe Read CMMB OFDM Mode.vi rssfe Configure CMMB PLCH Table.vi rssfe Configure CMMB Settings.vi rssfe Load Analog TV Audio Library.vi rssfe Analog TV Audio Library Catalog.vi rssfe Analog TV Audio Library Catalog Length.vi rssfe Configure Audio BC FM RDS RBDS.vi rssfe Read Audio BC FM RDS RBDS Radio Text Status.vi rssfe Configure Audio BC FM RDS RBDS Decoder Identification.vi rssfe Set Audio BC FM AF A Number Of Freq.vi rssfe Configure Audio BC FM AF A Frequency.vi rssfe Set Audio BC FM AF B Number Of Lists.vi rssfe Set Audio BC FM AF B Number Of Freq.vi rssfe Configure Audio BC FM AF B Frequency.vi rssfe Configure Audio BC FM EON Parameters.vi rssfe Set Audio BC FM EON AF A Number Of Freq.vi rssfe Configure Audio BC FM EON AF A Frequency.vi rssfe Set Audio BC FM EON AF Mapped Freq Number Of Freq.vi rssfe Configure Audio BC FM EON AF Mapped Frequency.vi rssfe Enable Audio BC FM TMC.vi rssfe Audio BC FM TMC Send Data.vi rssfe Set Audio BC TMC Group 3A VAR Parameters.vi rssfe Set Audio BC TMC Number Of 8A Groups.vi rssfe Configure Audio BC FM TMC 8A Block.vi rssfe Enable Audio BC FM Open Format.vi rssfe Audio BC FM Open Format Send Data.vi rssfe Configure Audio BC Open Format Group A.vi rssfe Configure Audio BC Open Format Group B.vi rssfe Audio BC Open Format Group Data Transfer Status.vi rssfe TSGen Nullpacket Stuffing.vi rssfe TSGen Packed Length.vi rssfe TSGen Configure Seamless Loop.vi rssfe Set TS Byte Rate.vi rssfe Configure CMMB Test Signal.vi - Modified VIs: rssfe Configure Modulation.vi rssfe TDMB Configuration.vi rssfe Configure Directv Input Signal.vi rssfe Configure Analog TV Audio Input Signal.vi rssfe Configure Analog TV NICAM Source.vi rssfe Select Play File.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|---|
| Revision | Date | Note |
| | | <ul style="list-style-type: none"> - Removed VIs: rssfe Read DVBT Coder Status.vi rssfe Read DTMB Coder Status.vi |
| 1.30 | 11/2008 | <p>Driver update for firmware version 1.30</p> <ul style="list-style-type: none"> - added VIs: rssfe Read Digital IQ Symbol Rate.vi rssfe Configure Audio BC FM Input Signal.vi rssfe Configure Audio BC FM Source.vi rssfe Read Audio BC FM External Source.vi rssfe Configure Audio BC FM Audio Modulation.vi rssfe Configure Audio BC FM Modulation RDS.vi rssfe Configure Audio BC FM MPX Freq Deviation.vi rssfe Read Audio BC FM Modulation Values.vi rssfe Enable Audio BC FM Special Settings.vi rssfe Configure Audio BC FM Special Settings.vi rssfe Configure Audio BC AM Input Signal.vi rssfe Configure Audio BC AM Source.vi rssfe Read Audio BC AM External Source.vi rssfe Configure Audio BC AM Modulation Depth.vi rssfe Read Audio BC AM Mode Depth.vi rssfe Run BER Measurement.vi rssfe Select BER Input.vi rssfe Configure BER Serial Clock Data Input.vi rssfe Configure BER Inputs.vi rssfe Configure BER Gating Time.vi rssfe Configure BER Settings.vi rssfe Get BER Measurement.vi rssfe TSGen Seek Position rssfe Configure J83B Input Signal.vi rssfe Configure J83B Test Signal.vi rssfe Read J83B Packed Length.vi rssfe Read J83B Values.vi rssfe Configure J83B Coding.vi rssfe Read J83B Roll Off.vi rssfe Enable J83B Special Settings.vi rssfe Configure J83B Special Reed Solomon.vi rssfe Configure J83B Settings.vi rssfe Configure MediaFLO Input Signal.vi rssfe Read MediaFLO Measured Data Rate.vi rssfe Configure MediaFLO Delay Settings.vi rssfe Read MediaFLO Delay SSF Arrival Time.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|---|
| Revision | Date | Note |
| | | rssfe Set MediaFLO Channel Bandwidth.vi rssfe Configure MediaFLO Area Settings.vi rssfe Configure MediaFLO ID Settings.vi rssfe Read MediaFLO Length Settings.vi rssfe Configure Directv Input Signal.vi rssfe Read Directv Packed Length.vi rssfe Read Directv Values.vi rssfe Configure Directv Coding.vi rssfe Configure Directv Settings.vi - modified VIs: rssfe Configure DTMB Test Signal.vi |
| 1.20 | 07/2008 | Driver update for SFE Broadcast Tester firmware version 1.20 - added VIs: rssfe Modulation Signal Info and Statistics.vi rssfe Modulation IQ Input Refresh.vi rssfe Configure DVBC Input Signal.vi rssfe Configure DVBC Test Signal.vi rssfe Read DVBC Packed Length.vi rssfe Read DVBC Values.vi rssfe Configure DVBC Coding.vi rssfe Enable DVBC Special Settings.vi rssfe Configure DVBC Special Reed Solomon.vi rssfe Configure DVBC Settings.vi rssfe Configure DVBS Input Signal.vi rssfe Configure DVBS Test Signal.vi rssfe Read DVBS Packed Length.vi rssfe Read DVBS Values.vi rssfe Configure DVBS Coding.vi rssfe Enable DVBS Special Settings.vi rssfe Configure DVBS Special Reed Solomon.vi rssfe Configure DVBS Settings.vi rssfe Configure 8VSB Input Signal.vi rssfe Configure 8VSB Test Signal.vi rssfe Read 8VSB Packed Length.vi rssfe Read 8VSB Values.vi rssfe Set 8VSB Symbol Rate.vi rssfe Read 8VSB Constellation.vi rssfe Read 8VSB Roll Off.vi rssfe Configure 8VSB Settings.vi rssfe Configure DTMB Channel Bandwidth.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|--|
| Revision | Date | Note |
| | | - modified VIs/attributes: rssfe Configure Modulation.vi, RSSFE_ATTR_MOD_DM_SPECTRUM - added *OPC |
| 1.10 | 03/2008 | <p>Driver update for SFE Broadcast Tester firmware version 1.10</p> <p>Modifications:</p> <p>- added VIs:</p> <ul style="list-style-type: none"> rssfe Configure ISDBT Input Signal.vi rssfe Configure ISDBT Test Signal.vi rssfe Read ISDBT Input Data Rate rssfe Read ISDBT Values.vi rssfe Configure ISDBT System.vi rssfe Configure ISDBT Layer Coding.vi rssfe Configure ISDBT Coding.vi rssfe Configure ISDBT Sub Channel.vi rssfe Configure ISDBT Segments.vi rssfe Read ISDBT Bandwidth.vi rssfe Enable ISDBT Special Settings.vi rssfe Configure ISDBT Special AC Data Settings.vi rssfe Enable ISDBT Special Alert Broadcast.vi rssfe Configure ISDBT Settings.vi rssfe Configure Analog TV Video Input Signal.vi rssfe Configure Analog TV Video.vi rssfe Configure Analog TV Video Level.vi rssfe Load Analog TV Video Library.vi rssfe Analog TV Video Library Catalog.vi rssfe Analog TV Video Library Catalog Length.vi rssfe Configure Analog TV Audio Input Signal.vi rssfe Configure Analog TV Audio.vi rssfe Configure Analog TV Audio AF.vi rssfe Read External Audio Input Level.vi rssfe Configure Analog TV NICAM Source.vi rssfe Configure Analog TV NICAM AF.vi rssfe Configure Analog TV NICAM.vi rssfe Configure Analog TV Video Vision Picture.vi rssfe Read Analog TV Values.vi rssfe Enable Analog TV Special Settings.vi rssfe Configure Analog TV Preemphasis.vi rssfe Configure Analog TV Pilot.vi rssfe Configure Analog TV Subcarrier Settings.vi rssfe Configure Analog TV Special Settings.vi rssfe Configure Analog TV Special Video and Carrier.vi |

| History for LabVIEW Instrument Driver | | |
|---------------------------------------|---------|--|
| Revision | Date | Note |
| | | <p>rssfe Configure Analog TV Special VSB Characteristic.vi rssfe Set Analog TV Special AM Modulation Depth.vi rssfe Configure Analog TV Special NICAM.vi rssfe Configure Modulation ATV Transmission Standard.vi rssfe Read Analog TV External Input Level.vi</p> <p>- Removed VIs: rssfe Configure DTMBH Coding.vi</p> <p>- Modified VIs: rssfe Configure DTMB Control.vi rssfe Configure DTMB Network Mode.vi rssfe Configure DTMB Coding.vi</p> |
| 1.02.1 | 11/2007 | <p>Modifications:</p> <p>- Minor fixes in express VI</p> |
| 1.02 | 10/2007 | <p>Driver for SFE Broadcast Tester firmware version 1.02</p> <p>Initial revision!</p> |

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

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| 2.80.1 | 01/2014 | * Modified: rssf_e_confNoise - AWGN is no longer available rssf_e_writeFromFile - removed not supported SYSTEM scipi commands, added termination character setting |
| 2.80.0 | 01/2013 | Driver update for firmware version 02.80 * New: rssf_e_ConfigureDVBT2InputT2MISID rssf_e_ConfigureDVBT2TransmissionProfileMode rssf_e_ConfigureDVBT2TransmissionFutureExtensionPayload rssf_e_confDVBT2TransmissionLParametersL1T2 rssf_e_ReadDVBT2T2SystemTxIDAvailability rssf_e_ConfigureDVBT2SFNTimestampOffset rssf_e_ConfigureDVBT2SFNUdateTimestamp rssf_e_ReadDVBT2SFNTimestampMode rssf_e_ReadDVBT2SFNTimestampParameters rssf_e_ReadDVBC2DataSliceFrequencyValues rssf_e_ConfigureDVBC2NumberOfNotches rssf_e_ReadDVBC2NotchType rssf_e_ConfigureDVBC2NotchValues rssf_e_ReadDVBC2NotchFrequencyValues rssf_e_ConfigureDVBC2FramingOFDMC2Bandwidth rssf_e_ConfigureDVBC2FramingOFDMBasebandFilter rssf_e_ConfigureDVBC2FramingOFDMAadjustRFFrequency rssf_e_ConfigureDVBT2TransmissionSystemNetwork rssf_e_ConfigureDVBT2TransmissionFutureExtensionPayload * Modified: DVB-C2: Notches 1-4 are supported DVB-C2: Data Slice 1-4 are supported rssf_e_configureDVBT2Plp rssf_e_confDVBT2BICMPParameters rssf_e_confDVBT2TransmissionSystem rssf_e_confDVBT2TransmissionLParam rssf_e_ReadDVBC2DataSliceValues |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| | | rssfe_ReadDVBC2NotchValues rssfe_ConfigureDVBC2FramingOFDMPParameters - 'Num Bundled CH' not used rssfe_configureDVBT2Plp - 'Stuffing' not used rssfe_close - remove GTL * Deleted: RSSFE_ATTR_DVBC2_FRAMING_NUM_BUNDLED_CH |
| 2.60.2 | 08/2012 | * Modified functions: rssfe_confAnalogTvSubcarrierSettings - switch parameter fixed |
| 2.60.1 | 05/2012 | - Modified functions: rssfe_confDTMBCoding RSSFE_ATTR_IQC_DTMB_CONS - added QAM-NR, 32QAM parameters |
| 2.60.0 | 03/2012 | Driver update for firmware version 2.60 * New: rssfe_ConfigureISDBTInputParameters rssfe_ConfigureISDBTCodingControl rssfe_ConfigureDVBT2MISOGroupMode rssfe_ConfigureDVBT2SFNDelayParameters rssfe_ConfigureDVBT2SFNMuteP1Symbol rssfe_ReadDVBT2SFNDelayParameters - Added DVB-C2 transmission standard: rssfe_ConfigureDVBC2NumberOfPLP rssfe_configureDVBC2InputSignal rssfe_ReadDVBC2Values rssfe_ConfigureDVBC2TestSignal rssfe_ConfigureDVBC2ModeStreamAdaptation rssfe_ReadDVBC2ModeStreamAdaptationPLPType rssfe_ConfigureDVBC2BICMPLPMappingParameters rssfe_ReadDVBC2BICMXFECFrameLength rssfe_ReadDVBC2DataSliceMinMax rssfe_ConfigureDVBC2NumberOfDataSlices rssfe_ConfigureDVBC2DataSliceParameters rssfe_ReadDVBC2DataSliceNumPLP rssfe_ConfigureDVBC2CurrentDataSliceParameters rssfe_ReadDVBC2DataSliceValues rssfe_ReadDVBC2NumberOfNotches rssfe_ReadDVBC2NotchValues rssfe_ConfigureDVBC2FramingOFDMPParameters rssfe_ReadDVBC2FramingOFDMUsedBandwidth rssfe_ReadDVBC2FramingOFDMPParameters rssfe_ConfigureDVBC2C2SystemParameters |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|--|
| Revision | Date | Note |
| | | <p>rssfe_ConfigureDVBC2Settings</p> <p>* Modified:</p> <p>rssfe_confTxModulation</p> <p>rssfe_confDVBT2TransmissionSystemIdentification - renamed control, changed data type</p> <p>rssfe_InitWithOptions - VISA timeout set to 20 sec</p> <p>RS_ATTR_QUERY_INSTRUMENT_STATUS - enable</p> <p>RS_ATTR_OPC_CALLBACK, RS_ATTR_CHECK_STATUS_CALLBACK - fixed attribute data type</p> <p>* Deleted:</p> <p>RSSFE_ATTR_DVBT2_T2_SYSTEM_TRANSMITTER_ID_STATE</p> |
| 2.40.0 | 05/2011 | <p>Driver update for firmware version 2.40</p> <p>MediaFLO modulation standard completely redesigned</p> <p>Changed range table names to prevent conflicts when used with other drivers</p> <p>- Modified functions:</p> <p>rssfe_confMfloInputSignal</p> <p>rssfe_confDVBT2InputSignal</p> <p>- New functions:</p> <p>rssfe_ReadMediaFLOValues</p> <p>rssfe_ReadStatusMediaFLODelayParameters</p> <p>rssfe_ReadStatusMediaFLOCountParameters</p> <p>rssfe_ConfigureMediaFLOCoding</p> <p>rssfe_ConfigureMediaFLOCodingParameters</p> <p>rssfe_ConfigureMediaFLOPIDSettings</p> <p>rssfe_ConfigureMediaFLOLocalOISSystemSettings</p> <p>rssfe_ConfigureMediaFLOPositionPilotSettings</p> <p>rssfe_EnableMediaFLOTXPositionSettings</p> <p>rssfe_ConfigureMediaFLOTXSettings</p> <p>rssfe_ConfigureDVBT2InputT2MIPID</p> <p>rssfe_ResetDVBT2T2MIAnalyzerLogFile</p> <p>rssfe_ReadDVBT2T2MIAnalyzer</p> <p>rssfe_ConfigureDVBT2ModeStreamAdaptationInBandSignal</p> <p>rssfe_ConfigureDVBT2FramingOFDMBandwidthVariation</p> <p>- Obsoleted functions:</p> <p>rssfe_readMfloMeasDataRate</p> <p>rssfe_confMfloDelaySettings</p> <p>rssfe_readMfloDelaySsfArrivalTime</p> <p>rssfe_setMfloChannelBandwidth</p> <p>rssfe_confMfloAreaSettings</p> <p>rssfe_confMfoldSettings</p> <p>rssfe_readMfloLengthSettings</p> |
| 2.20.0 | 06/2010 | Driver update for firmware version 2.20 |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| | | <ul style="list-style-type: none"> - Modified functions: rssfe_confTxModulation rssfe_confJ83BCoding rssfe_confNoise rssfe_readMfloMeasDataRate - New functions: rssfe_confDVBT2InputSignal rssfe_configureDVBT2Plp rssfe_readDVBT2Values rssfe_confDVBT2TestSignal rssfe_confDVBT2ModeStreamAdaptation rssfe_ReadDVBT2ModeStreamAdaptationValues rssfe_confDVBT2BICMPParameters rssfe_confDVBT2BICMTimelInterleaverParameters rssfe_readDVBT2BICMFECBlocksPerIF rssfe_confDVBT2BICMFramingOFDMPParameters rssfe_readDVBT2FramingOFDMUsedBandwidth rssfe_readDVBT2FramingOFDMSymbolsPerT2Frame rssfe_confDVBT2FramingOFDM rssfe_confDVBT2TransmissionSystem rssfe_ConfigureDVBT2TransmissionFutureExtensionFrames rssfe_confDVBT2TransmissionLParam rssfe_confDVBT2TransmissionSystemIdentification rssfe_confDVBT2Settings rssfe_NoiseConfiguration rssfe_actEnableFading rssfe_QueryFadingSource rssfe_actRestartFading rssfe_ConfigureFadingProfileFile rssfe_fadingCatalog rssfe_confFadingStandardSet rssfe_actEnableFadingPath rssfe_confFadingPathProfile rssfe_confFadingPathProfileTableNumeric rssfe_readFadingPathProfileTableResults rssfe_confFadingCommonSettings rssfe_confFadingInsertionLossSettings rssfe_readFadingClippedSample rssfe_actFadingSettingsDefault |
| 2.00.0 | 01/2010 | Driver update for firmware version 2.00 |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|--|
| Revision | Date | Note |
| | | - Modified functions: rssfe_confAnalogTvSpecialVsbCharacteristic |
| 1.50.0 | 12/2009 | Driver update for firmware version 1.50 - New functions: rssfe_confATSMInputSignal rssfe_confATSMTestSignal rssfe_readATSM PackedLength rssfe_readATSMValues rssfe_confATSMCoding rssfe_ReadATSMConstellation rssfe_ReadATSMRollOff rssfe_confATSMSettings rssfe_confATSMWatermark rssfe_confATSMMTXIDTransmission rssfe_ARBMemorySize rssfe_ARBSamplesMaximum - Modified functions: rssfe_confTxModulation rssfe_ConfigureAudioBCOpenFormatGroupA rssfe_AudioBCOpenFormatGroupDataTransferStatus |
| 1.40.1 | 07/2009 | Driver update for firmware version 1.40 - New functions: rssfe_confDVBS2InputSignal rssfe_confDVBS2TestSignal rssfe_readDVBS2PackedLength rssfe_readDVBS2Values rssfe_confDVBS2Coding rssfe_confDVBS2Settings rssfe_confDVBS2PayloadTestStuff - Modified functions: rssfe_confCMMBInputSignal |
| 1.40 | 05/2009 | Driver update for firmware version 1.40 Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|------|--|
| Revision | Date | Note |
| | | <p>- New functions:</p> <p>rssfe_ConfigureDVBTPayloadTestStuff</p> <p>rssfe_ConfigureDTMBPayloadTestStuff</p> <p>rssfe_ConfigureDVBCPayloadTestStuff</p> <p>rssfe_ConfigureDVBSPayloadTestStuff</p> <p>rssfe_Configure8VSBPayloadTestStuff</p> <p>rssfe_ConfigureJ83BPayloadTestStuff</p> <p>rssfe_ConfigureISDBTSpecialSettings</p> <p>rssfe_ConfigureISDBTPayloadTestStuff</p> <p>rssfe_confCMMBInputSignal</p> <p>rssfe_readCMMBValues</p> <p>rssfe_SetCMMBNumberOfServices</p> <p>rssfe_confCMMBCoding</p> <p>rssfe_ReadCMMBOFDMMMode</p> <p>rssfe_confCMMBPLCHTable</p> <p>rssfe_confCMMBSettings</p> <p>rssfe_loadAnalogTvAudioLibrary</p> <p>rssfe_analogTvAudioLibraryCatalog</p> <p>rssfe_analogTvAudioLibraryCatalogLength</p> <p>rssfe_configAudioBCFMRDSRBDS</p> <p>rssfe_ReadAudioBCFMRDSRBDSRadioTextStatus</p> <p>rssfe_configAudioBCFMRDSRBDSDecoderIdn</p> <p>rssfe_SetAudioBCFMAFAFreq</p> <p>rssfe_ConfigureAudioBCFMAFAFrequency</p> <p>rssfe_SetAudioBCFMAFBList</p> <p>rssfe_SetAudioBCFMAFBFreq</p> <p>rssfe_ConfigureAudioBCFMAFBFrequency</p> <p>rssfe_configAudioBCFMEONParameters</p> <p>rssfe_SetAudioBCFMEONAFAFreq</p> <p>rssfe_ConfigureAudioBCFMEONAFAFrequency</p> <p>rssfe_SetAudioBCFMEONAFMappedFreqNumberOfFreq</p> <p>rssfe_ConfigureAudioBCFMEONAFMappedFrequency</p> <p>rssfe_EnableAudioBCFMTMC</p> <p>rssfe_AudioBCFMTMCSendData</p> <p>rssfe_SetAudioBCTMCGroup3AVARParameters</p> <p>rssfe_SetAudioBCTMCNumberOf8AGroups</p> <p>rssfe_ConfigureAudioBCFMTMC8ABlock</p> <p>rssfe_EnableAudioBCFMOpenFormat</p> <p>rssfe_AudioBCFMOpenFormatSendData</p> <p>rssfe_ConfigureAudioBCOpenFormatGroupA</p> <p>rssfe_ConfigureAudioBCOpenFormatGroupB</p> |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| | | rssfe_AudioBCOpenFormatGroupDataTransferStatus rssfe_TSGenNullpacketStuffing rssfe_TSGenPackedLength rssfe_TSGenConfigureSeamlessLoop rssfe_setTsByteRate rssfe_configureCMMBTestSignal - Modified functions: rssfe_confTxModulation rssfe_confTDMBConfiguration rssfe_confDirectvInputSignal rssfe_confAnalogTvAudioInputSignal rssfe_confAnalogTvNICAMSource rssfe_confTsgenPlayfile - Removed functions: rssfe_readDTMBCoderStatus rssfe_readDVBTCoderStatus |
| 1.30 | 11/2008 | Driver update for firmware version 1.30 - New functions: rssfe_readDigitalIqSymbolRate rssfe_configAudioBCFMInputSignal rssfe_confAudioBCFMSource rssfe_readAudioBCFMExternalSource rssfe_configAudioBCFMAudioModulation rssfe_configureAudioBCModulationRDS rssfe_configureAudioMPXFreqDeviation rssfe_readAudioBCFMModulationValues rssfe_enableAudioBCFMSpecialSettings rssfe_confAudioBCFMSpecialSettings rssfe_configAudioBCAMInputSignal rssfe_confAudioBCAMSource rssfe_readAudioBCAMExternalSource rssfe_confAudioBCAMModulationDepth rssfe_readAudioBCAMModeDepth rssfe_actBER rssfe_actBERSelect rssfe_confBERSerial rssfe_confBERInputs rssfe_confBERGatingTime rssfe_confBERSettings rssfe_readBER |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|--|
| Revision | Date | Note |
| | | rssfe_readTSGenSeekPosition rssfe_confJ83BInputSignal rssfe_confJ83BTestSignal rssfe_readJ83BPackedLength rssfe_readJ83BValues rssfe_confJ83BCoding rssfe_readJ83BRollOff rssfe_actEnableJ83BSpecial rssfe_confJ83BSpecialReedSolomon rssfe_confJ83BSettings rssfe_confMfloInputSignal rssfe_readMfloMeasDataRate rssfe_confMfloDelaySettings rssfe_readMfloDelaySsfArrivalTime rssfe_setMfloChannelBandwidth rssfe_confMfloAreaSettings rssfe_confMfloIdSettings rssfe_readMfloLengthSettings rssfe_confDirectvInputSignal rssfe_readDirectvPackedLength rssfe_readDirectvValues rssfe_confDirectvCoding rssfe_confDirectvSettings - modified functions: rssfe_confDTMBTestSignal |
| 1.20 | 07/2008 | Driver update for SFE Broadcast Tester firmware version 1.10 Modifications: - New functions: rssfe_readModulationSigInfoStat rssfe_confTxModlqInputRefreshgs rssfe_confDVBCInputSignal rssfe_confDVBCTestSignal rssfe_readDVBCPackedLength rssfe_readDVBCValues rssfe_confDVBCCoding rssfe_actEnableDVBCSpecial rssfe_confDVBCSpecialReedSolomon rssfe_confDVBCSettings rssfe_confDVBSInputSignal |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| | | <p> rssfe_confDVBSTestSignal rssfe_readDVBSpackedLength rssfe_readDVBSValues rssfe_confDVBSCoding rssfe_actEnableDVBSspecial rssfe_confDVBSspecialReedSolomon rssfe_confDVBSSettings rssfe_conf8VSBInputSignal rssfe_conf8VSBTestSignal rssfe_read8VSBpackedLength rssfe_read8VSBValues rssfe_set8VSBsymbolRate rssfe_read8VSBConstellation rssfe_read8VSBRollOff rssfe_conf8VSBSettings </p> <p> modified functions/attributes: rssfe_confTxModulation, RSSFE_ATTR_MOD_DM_SPECTRUM - added *OPC </p> |
| 1.10 | 03/2008 | <p>Driver update for SFE Broadcast Tester firmware version 1.10</p> <p>Modifications:</p> <p>- New functions:</p> <p> rssfe_confISDBTInputSignal rssfe_confISDBTTestSignal rssfe_readISDBTInputDataRate rssfe_readISDBTValues rssfe_confISDBTSystem rssfe_confISDBTLayerCoding rssfe_confISDBTCoding rssfe_confISDBTSubChannel rssfe_confISDBTSegments rssfe_readISDBTBandwidth rssfe_actEnableISDBTspecial rssfe_confISDBTspecialAcDataSettings rssfe_EnableISDBTspecialAlertBroadcast rssfe_confISDBTSettings rssfe_confAnalogTvVideoInputSignal rssfe_confAnalogTvVideo rssfe_confAnalogTvVideoLevel rssfe_loadAnalogTvVideoLibrary rssfe_analogTvVideoLibraryCatalog </p> |

| History for LabWindows/CVI and VXIplug&play Instrument Driver for C#, Visual Basic .NET, VEE, etc. | | |
|--|---------|---|
| Revision | Date | Note |
| | | rssfe_analogTvVideoLibraryCatalogLength rssfe_confAnalogTvAudioInputSignal rssfe_configAnalogTvAudio rssfe_configAnalogTvAudioAf rssfe_readExternalAudioInputLevel rssfe_confAnalogTvNICAMSource rssfe_configAnalogTvNICAMAf rssfe_configAnalogTvNICAM rssfe_confAnalogTvVideoVisionPicture rssfe_readAnalogTvValues rssfe_actEnableAnalogTvSpecial rssfe_confAnalogTvPreemphasis rssfe_confAnalogTvPilot rssfe_confAnalogTvSubcarrierSettings rssfe_confAnalogTvSpecialSettings rssfe_confAnalogTvSpecialVideoCarrier rssfe_confAnalogTvSpecialVsbCharacteristic rssfe_setAnalogTvSpecialAmModulationDepth rssfe_setAnalogTvSpecialNICAM rssfe_confAtvTransStandard rssfe_readAnalogTvExternalInputLevel - Removed functions: rssfe_confDTMBHCoding - Modified functions: rssfe_confDTMBControl rssfe_confDTMBNetworkMode rssfe_confDTMBCoding |
| 1.02.1 | 11/2007 | Modifications: - New rsidr_core version |
| 1.02 | 10/2007 | Driver for SFE Broadcast Tester firmware version 1.02 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.

Regional contact

Europe, Africa, Middle East

+49 89 4129 123 45

customersupport@rohde-schwarz.com

North America

1-888-TEST-RSA (1-888-837-8772)

customer.support@rsa.rohde-schwarz.com

Latin America

+1-410-910-7988

customersupport.la@rohde-schwarz.com

Asia/Pacific

+65 65 13 04 88

customersupport.asia@rohde-schwarz.com

Certified Quality System
ISO 9001
DQS REG. NO 1954 QM

Rohde & Schwarz GmbH & Co. KG

Mühlendorfstraße 15 | D - 81671 München

Phone + 49 89 4129 - 0 | Fax + 49 89 4129 - 13777

www.rohde-schwarz.com