

LabWindows/CVI, VXIplug driver history for the R&S® SFU Broadcast Test System Driver Documentation

Products:

| R&S® SFU



| R&S®SFC (compatible functionality)



| R&S®BTC (compatible functionality)



Driver history for LabWindows/CVI and VXIplug&play
Instrument Driver for C/C++, VEE, etc.

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2 Supported Instruments

In the following table, the supported R&S instruments and firmware versions are listed:

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
SFU	2.90	
SFC	2.90	Compatible functionality
BTC	1.62	Compatible functionality

3 LabWindows/CVI and VXIplug&play History

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
2.80.14	11/2017	No changes
2.80.13	10/2017	<p>* Version 2.80.13</p> <p>* Updated:</p> <ul style="list-style-type: none"> - rssfu_confJ83BInputSignal - removed BTC checking, PID is sent only if pidTestPacket == Variable - RSSFU_ATTR_IQC_J83B_SOURCE - removed instrument checking
2.80.12	09/2017	<p>* Updated:</p> <ul style="list-style-type: none"> - rssfu_confTxModulationInterfererSignal - further fixes for BTC - rssfu_confTxModulationInterferer - fixed - RSSFU_ATTR_NOISE_PULSES_PER_BURST - removed range checking
2.80.11	09/2017	<p>* Updated:</p> <ul style="list-style-type: none"> - rssfu_confNoisePulse(RSSFU_ATTR_NOISE_CI) - changed range to -35.0 to 60.0 - rssfu_confTxModulationInterferer - ARB inteferer for BTC functionality added - RSSFU_ATTR_ARB_LOAD_WAVEFORM and RSSFU_ATTR_ARB are waiting for Operation Complete <p>* Added:</p> <ul style="list-style-type: none"> - RSSFU_ATTR_MOD_DM_INTERFERER_ARB_ATTENUATION - RSSFU_ATTR_MOD_DM_INTERFERER_ARB_FREQ_OFFSET
2.80.10	08/2017	<p>* Updated:</p> <ul style="list-style-type: none"> - RSSFU_ATTR_IQC_DVBT_SOUR - added BTC as supported instrument - RSSFU_ATTR_IQC_DVBT_SOUR_LOW - added BTC as supported instrument - RSSFU_ATTR_IQC_DVBT_INP - added BTC as supported instrument - RSSFU_ATTR_IQC_DVBT_INP_LOW - added BTC as supported instrument - RSSFU_ATTR_MODULATOR_IMPAIRMENTS - added BTC as supported instrument - RSSFU_ATTR_MODULATOR_I_OFFSET - added BTC as supported instrument - RSSFU_ATTR_MODULATOR_Q_OFFSET - added BTC as supported instrument - RSSFU_ATTR_MODULATOR_QUADRATURE_ERROR - added BTC as supported instrument - RSSFU_ATTR_MODULATOR_AMPLITUDE_IMBALANCE - added BTC as supported instrument - rssfu_confDVBTInputSignal() - removed instrument checking - rssfu_confTxModulatorLevel() - modified to support BTC with this parameter mapping: <ul style="list-style-type: none"> AUTO -> DB4 DBM3 -> DBM4 DB0 -> DB0 DB3 -> DB4 DB6 -> DB8 - rssfu_confDVBT2Settings() - if pidTestPacket == NULL, PID is not being set to prevent BTC from throwing an error

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2.80.9	09/2015	<ul style="list-style-type: none"> * Updated: rssfu_getCalDate - fixed missing null termination of string RSSFU_ATTR_FADING_PAR_DEL_SPEED - removed option checking
2.80.8	02/2015	<ul style="list-style-type: none"> - Support for R&S BTC Broadcast Test Center 1.62.0 * Updated: rssfu_confDVBTSpecialCarriers - bug fix rssfu_confTxLevel - added attribute for voltage units rssfu_confTxModulationInterferer - "Interferer Addition" added control ring values - New attribute RSSFU_ATTR_TX_VOLTAGE_LEVEL
2.80.7	01/2015	<ul style="list-style-type: none"> * Updated: rssfu_writeFromFile - fixed limited size of buffer - Option checking turned off by default - Support for R&S BTC Broadcast Test Center 1.62.0 rssfu_actEnableFrequencySweep rssfu_confTxLevel rssfu_confAtvTransStandard rssfu_confTxModulationInterferer rssfu_confTxModulatorLevel rssfu_confISDBTmmInputSignal rssfu_confDirectvPhaseNoise rssfu_ConfigureDTMBSFNSettings rssfu_readCMMBValues rssfu_ConfigureDVBT2InputT2MISID rssfu_ReadDVBC2FramingOFDMPParameters rssfu_confAnalogTvVideoInputSignal rssfu_confAnalogTvAudioInputSignal rssfu_configAudioBCFMInputSignal rssfu_configAudioBCAMInputSignal rssfu_confNoisePulse rssfu_confFadingReferenceSettings rssfu_confBERInputs rssfu_actTsgenStatus rssfu_confTsgenPlayfile rssfu_confTsgenTimingSettings rssfu_confTsgenInterfaceSetGen rssfu_getCalDate rssfu_setUserDefStatusRegister rssfu_getUserDefStatusRegister rssfu_confReferenceOscillator

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		<ul style="list-style-type: none"> - New attribute for R&S BTC compatibility RSSFU_ATTR_FREQ_MODE_BTC RSSFU_ATTR_MOD_MODULATOR_LEVEL_BTC RSSFU_ATTR_BER_SEL_MEAS_BTC RSSFU_ATTR_FADING_REFERENCE_BTC RSSFU_ATTR_IQC_DVBS_ROLL_BTC RSSFU_ATTR_IQC_DVBC_ROLL_BTC RSSFU_ATTR_TSGEN_COMMAND_BTC RSSFU_ATTR_NOISE_FRAME_DURATION_BTC
2.80.6	09/2014	<ul style="list-style-type: none"> * Updated: Increase the allowed ranges to +/-40 MHz for: RSSFU_ATTR_MOD_DM_INTERFERER_FREQ_OFFSET (rssf_rngDmInterferFreqOffs) RSSFU_ATTR_MOD_DM_SIGNAL_FREQ_OFFSET (rssf_rngDmSigFreqOffs)
2.80.5	03/2014	<ul style="list-style-type: none"> * Updated: rssf_confTxModulatorLevel - not support for R&S SFC - changed Wait for OPC flags: RSSFU_ATTR_CAL_LOCAL RSSFU_ATTR_CAL_LOCAL_RESULT
2.80.4	11/2013	<ul style="list-style-type: none"> Updated: rssf_confAnalogTvSubcarrierSettings - fixed switch selector value
2.80.3	08/2013	<ul style="list-style-type: none"> * New: RSSFU_ATTR_ERROR_LIST RSSFU_ATTR_PRESET * Updated: - Support for R&S BTC Broadcast Test Center rssf_confTxFreq rssf_confTxLevel rssf_confTxALC rssf_confTxModulationInterferer rssf_confTxModulationSettings rssf_readModulationSigInfoStat rssf_confTxModIqInputRefresh rssf_confDVBTInputSignal rssf_confDVBTSpecial rssf_confDVBTpacketsPayload rssf_confDVBCInputSignal rssf_confDVBCSpecial rssf_confDVBSInputSignal rssf_confDVBSpecial

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		rssfu_confDVBSSettings rssfu_conf8VSBInputSignal rssfu_conf8VSBSettings rssfu_confJ83BInputSignal rssfu_confJ83BSpecial rssfu_confJ83BSettings rssfu_ConfigureISDBTInputParameters rssfu_confISDBTCoding rssfu_confISDBTSettings rssfu_confDVBS2InputSignal rssfu_confDVBS2Coding rssfu_confDVBS2Special rssfu_confDVBS2PhaseNoise rssfu_confDirectvInputSignal rssfu_confDirectvSpecial rssfu_confTDMBConfiguration rssfu_confDTMBInputSignal rssfu_ConfigureDTMBSpecialSettings rssfu_confCMMBInputSignal rssfu_ConfigureDVBT2InputT2MIInterface rssfu_confDVBT2InputSignal rssfu_configureDVBT2Plp rssfu_confDVBT2Settings rssfu_configureDVBC2InputSignal rssfu_ConfigureDVBC2Settings rssfu_confATSCMHInputSignal rssfu_confATSCMHSettings rssfu_configAudioBCFMInputSignal rssfu_readAudioBCFModulationValues rssfu_configAudioBCAMInputSignal rssfu_confImpBaseband rssfu_confNoisePulse rssfu_GetLevelOfPhaseNoise rssfu_confFadingCommonCoupledSettings rssfu_confFadingDelaySettings rssfu_confFadingReferenceSettings rssfu_confFadingCouplingSettings rssfu_ARBWaveformSamples rssfu_confARBClock rssfu_confTsgenTimingSettings

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		rssfu_confTsgenInterfaceSetGen rssfu_actCal rssfu_confReferenceOscillator * Removed: - RSSFU_ATTR_FADING_HOPPING_MODE
2.80.2	06/2013	* Updated: rssfu_confTxModulation - removed Internal Source Signal
2.80.1	05/2013	*Added compatible functionality with R&S SFC * New: RSSFU_ATTR_READ_DVBS2_CODING_REQUIRED_SOURCE_DATA_RATE * Updated: - added ASI1, ASI2 Input - Support for R&S SFC Compact Modulator rssfu_confTxFreq rssfu_confTxLevel rssfu_readModulationSigInfoStat rssfu_confTxModIqInputRefresh rssfu_confDVBTCoding rssfu_confDVBTSpecial rssfu_confDVBTPayload rssfu_confDVBCSpecial rssfu_confDVBSpecial rssfu_confDVBCSettings rssfu_confDVBSSettings rssfu_conf8VBSSettings rssfu_confJ83BSpecial rssfu_confJ83BSettings rssfu_confISDBTCoding rssfu_confISDBTSpecial rssfu_confISDBTSpecialSegmentSettings rssfu_confISDBTSettings rssfu_readDVBS2Values rssfu_confDVBS2Coding rssfu_confDVBS2Settings rssfu_confTDMBCConfiguration rssfu_readDTMBSFNValues rssfu_confDTMBSettings rssfu_confDVBT2Settings rssfu_ConfigureDVBC2Settings rssfu_confATSCMHSettings

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		rssfu_configAudioBCFMInputSignal rssfu_configAudioBCAMInputSignal rssfu_readAudioBCFMModulationValues rssfu_confNoise rssfu_GetLevelOfPhaseNoise rssfu_confTsgenTimingSettings rssfu_confTsgenInterfaceSetGen rssfu_actCal rssfu_getCalDate rssfu_confReferenceOscillator rssfu_ConfigureDVBC2NumberOfNotches - Number Of Notches 0 to 4
2.80.0	01/2013	Driver for SFU Broadcast Test System firmware version 2.80 * New: rssfu_ReadDVBC2DataSliceFrequencyValues rssfu_ConfigureDVBC2NumberOfNotches rssfu_ReadDVBC2NotchType rssfu_ConfigureDVBC2NotchValues rssfu_ReadDVBC2NotchValues rssfu_ReadDVBC2NotchFrequencyValues rssfu_ConfigureDVBC2FramingOFDMC2Bandwidth * Updated: DVB-C2 (R&S SFU-K17): Notches 1-4 are supported DVB-C2 (R&S SFU-K17): Data Slice 1-4 are supported rssfu_ReadDVBC2DataSliceValues rssfu_ConfigureDVBC2FramingOFDMParameters - control 'Num Bundled CH' not used rssfu_close - remove >L * Removed: RSSFU_ATTR_DVBC2_FRAMING_NUM_BUNDLED_CH
2.72.0	11/2012	Driver for SFU Broadcast Test System firmware version 2.72 - New: rssfu_confISDBTmmInputSignal rssfu_confISDBTmmTestSignal rssfu_readISDBTmmInputDataRate rssfu_readISDBTmmValues rssfu_actEnableISDBTmmSpecial rssfu_confISDBTmmSpecialSettings rssfu_ConfigureISDBTmmTmccSpecialSettings rssfu_confISDBTmmSettings

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		<p>rssfu_ConfigureDVBT2InputT2MISID rssfu_ConfigureDVBT2TransmissionProfileMode rssfu_ConfigureDVBT2TransmissionFutureExtensionPayload rssfu_confDVBT2TransmissionLParametersL1T2 rssfu_ReadDVBT2T2SystemTxIDAvailability rssfu_ConfigureDVBT2SFNTimestampOffset rssfu_ConfigureDVBT2SFNUdateTimestamp rssfu_ReadDVBT2SFNTimestampMode rssfu_ReadDVBT2SFNTimestampParameters rssfu_ConfigureDVBC2FramingOFDMBasebandFilter rssfu_ConfigureDVBC2FramingOFDMAadjustRFFrequency rssfu_ReadDVBC2FramingOFDMCalculateCenterFrequency</p> <p>- Updated: rssfu_ConfigureISDBTmmCodingParameters - Added repeated capability rssfu_ConfigureISDBTmmCodingLayerParameters - Changed repeated capability and remote control commands rssfu_confDVBT2BICMPParameters - Added Code Rate values R1_3 R2_5 rssfu_confDVBT2TransmissionSystem - Added transmission System parameters: NONT2 T2LS T2LM rssfu_ConfigureDVBT2TransmissionL1T2Version - Added V131 parameter rssfu_confDVBT2TransmissionSystemIdentification - Transmitter ID State parameter not used</p>
2.60.0	02/2012	<p>Driver for SFU Broadcast Test System firmware version 2.60</p> <p>* New: - Added ISDB-Tmm transmission standard rssfu_ConfigureISDBTCodingControl rssfu_ConfigureISDBTmmCodingParameters rssfu_ConfigureISDBTmmCodingSegmentParameters rssfu_ConfigureISDBTmmCodingLayerParameters rssfu_ConfigureISDBTmmCoding rssfu_ReadISDBTmmRFBandwidth rssfu_ConfigureDVBT2TransmissionMISOGGroupMode rssfu_ConfigureDVBT2SFNDelayParameters rssfu_ConfigureDVBT2SFNMuteP1Symbol rssfu_ReadDVBT2SFNDelayParameters</p> <p>* Updated: rssfu_confTxLevel rssfu_confTxModulation rssfu_confNoiseBwSettings Fixed attribute flags constant values</p> <p>* Removed:</p>

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		AVSB transmission standard DVB-SH transmission standard
2.40.0	03/2011	<p>Driver for SFU Broadcast Test System firmware version 2.40</p> <p>Modifications:</p> <ul style="list-style-type: none"> - Added DVB-C2 transmission standard - New functions: <ul style="list-style-type: none"> rssfu_ConfigureISDBTChannelBandwidth rssfu_ConfigureDTMBGuardIntervalPN rssfu_ConfigureDTMBSFNSettings rssfu_ConfigureDTMBSpecialSettings rssfu_ConfigureDVBT2InputT2MIPID rssfu_ResetDVBT2T2MIAnalyzerLogFile rssfu_ReadDVBT2T2MIAnalyzer rssfu_ConfigureDVBT2ModeStreamAdaptationInBandSignal rssfu_ConfigureDVBT2FramingOFDMBandwidthVariation - Updated functions: <ul style="list-style-type: none"> rssfu_confTxModulation rssfu_readDTMBSFNValues rssfu_readDMBTHSFNValues rssfu_confDMBTHCoding rssfu_configAudioBCFMRDSRBDS - Removed functions: <ul style="list-style-type: none"> rssfu_confDMBTHCodingHandheld rssfu_confDTMBSpecial rssfu_confDTMBHCoding rssfu_actEnableDMBModeDTMBSpecial
2.20.1	02/2011	<p>Modifications:</p> <ul style="list-style-type: none"> - Default timeout set to 30s - Changed range table names to prevent conflicts when used with other drivers
2.20.0	06/2010	<p>Driver for SFU Broadcast Test System firmware version 2.20</p> <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> rssfu_ConfigureMediaFLOInputSignal rssfu_ReadMediaFLOValues rssfu_ReadStatusMediaFLODelayParameters rssfu_ReadStatusMediaFLOCountParameters rssfu_ConfigureMediaFLOCoding rssfu_ConfigureMediaFLOCodingParameters rssfu_EnableMediaFLOSpecialSettings

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		<p> rssfu_ConfigureMediaFLOSpecialSettings rssfu_ConfigureMediaFLOPIDSettings rssfu_ConfigureMediaFLOLocalOISSystemSettings rssfu_ConfigureMediaFLOPositionPilotSettings rssfu_EnableMediaFLOTXPositionSettings rssfu_ConfigureMediaFLOTXSettings rssfu_ConfigureDVBT2InputT2MIInterface rssfu_ConfigureDVBT2ModeStreamAdaptationCM rssfu_ReadDVBT2ModeStreamAdaptationValues rssfu_readDVBT2BICMMaxFECBlocksPerIF rssfu_readDVBT2FramingOFDMSymbolsPerT2Frame rssfu_ConfigureDVBT2TransmissionSystemNetwork rssfu_ConfigureDVBT2TransmissionSystemMISO rssfu_ConfigureDVBT2TransmissionFutureExtensionFrames rssfu_ConfigureDVBT2TransmissionL1T2Version rssfu_ReadDVBT2T2SystemL1SignallingFrequency rssfu_ARBMemorySize rssfu_ARBSamplesMaximum - Updated functions/attributes: rssfu_confDVBT2BICMParameters rssfu_confDVBT2ModeStreamAdaptation rssfu_confDVBT2InputSignal - CM Type control not used rssfu_configureDVBT2Plp rssfu_confDVBT2FramingOFDM - changed attribute (RSSFU_ATTR_DVBT2_FRAMING_DATA_SYMBOLS_PER_T2_FRAME) rssfu_confDVBT2TransmissionSystem rssfu_confDVBT2TransmissionL1Param rssfu_confDVBS2Coding rssfu_confAnalogTvSpecialVsbCharacteristic rssfu_ConfigureAudioBCOpenFormatGroupA rssfu_AudioBCOpenFormatGroupDataTransferStatus rssfu_confFadingStandardSet rssfu_confBERInputs rssfu_storeLoadFadingSettings RSSFU_ATTR_DVBT2_MODE_STREAM_ADAPT_ISSY - changed data type to Vilnt32 - Removed function/attributes: - MediaFLO modulation standard completely redesigned RSSFU_ATTR_DVBT2_INPUT_SIGNAL_CM_TYPE RSSFU_ATTR_IQC_MFLO_WIDE_PID_DATA_RATE RSSFU_ATTR_IQC_MFLO_LOCAL_PID_DATA_RATE RSSFU_ATTR_IQC_MFLO_SSF_ARRIVAL_TIME </p>

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		RSSFU_ATTR_IQC_MFLO_FRAME_LENGTH RSSFU_ATTR_IQC_MFLO_WIDE_AREA_LENGTH RSSFU_ATTR_IQC_MFLO_POSITION_PILOT_LENGTH RSSFU_ATTR_IQC_MFLO_GAIN RSSFU_ATTR_IQC_MFLO_SINUSOID_TEST RSSFU_ATTR_IQC_MFLO_SINUSOID_TEST_FREQ
2.10.2	10/2009	Modifications: - New functions: rssfu_confFadingCommonCoupledSettings - Updated functions: rssfu_confISDBTInputSignal rssfu_confNoiseBwSettings rssfu_confFadingCommonSettings rssfu_confNoise_obs - removed parameter rssfu_confNoiseParameters - removed parameter - Removed attributes: RSSFU_ATTR_NOISE_CN_OFFSET RSSFU_ATTR_NOISE_MODE
2.10.1	08/2009	Modifications: - Fixed GetError function - small array issue
2.10.0	07/2009	Driver for SFU Broadcast Test System firmware version 2.10 Initial Release for Linux, support for: - Mandriva Linux 2008 and Mandriva Linux 2009 - openSUSE 10.3 and openSUSE 11.0 New functions: rssfu_storeLoadDVBTCarriers rssfu_ConfigureISDBTmccSpecialSettings rssfu_ConfigureISDBTPayloadTestStuff rssfu_configureCMMBTestSignal rssfu_readNoiseEbN0 rssfu_setTsByteRate rssfu_TSGenNullpacketStuffing rssfu_confTsgenInterfaceStopData rssfu_confTSGENPacketSettings rssfu_configureTSGenSeamlessLoop rssfu_readPowerSensorType rssfu_confDVBT2InputSignal rssfu_configureDVBT2Plp

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Revision	Date	Note
		rssfu_readDVBT2Values rssfu_confDVBT2TestSignal rssfu_confDVBT2ModeStreamAdaptation rssfu_confDVBT2BICMPParameters rssfu_confDVBT2BICMTimeInterleaverParameters rssfu_readDVBT2BICMFECBlocksPerIF rssfu_confDVBT2BICMFramingOFDMParameters rssfu_readDVBT2FramingOFDMUsedBandwidth rssfu_confDVBT2FramingOFDM rssfu_readDVBT2FramingOFDMDataSymbols rssfu_confDVBT2TransmissionSystem rssfu_confDVBT2TransmissionL1Param rssfu_confDVBT2TransmissionSystemIdentification rssfu_confDVBT2Settings rssfu_confATSCMHInputSignal rssfu_confATSCMHTestSignal rssfu_readATSCMHPackedLength rssfu_readATSCMHValues rssfu_confATSCMHCodingParameters rssfu_readATSCMHConstellation rssfu_readATSCMHRollOff rssfu_enableATSCMHSpecial rssfu_confATSCMHSpecial rssfu_setAtscmhMhePid rssfu_confATSCMHRWatermarkSettings rssfu_configATSCMHMTXIDTransmission rssfu_confATSCMHSSettings - Updated function: rssfu_confTxModulationSettings rssfu_confTxModulation rssfu_confTsgenInterfaceSetRec rssfu_readTDMBInfo rssfu_confAVSBRfWatermarkSettings rssfu_confCMMBInputSignal rssfu_confFadingPathProfileTableNumeric rssfu_confFadingPathProfileResultDopplerFreq rssfu_confFadingInsertionLossSettings
2.00.2	04/2009	Updated functions: - status checking enabled after driver initialization - Updated function:

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		rssfu_confAnalogTvNICAMSignal RSSFU_ATTR_IQC_DVBS2_AMC - added *OPC
2.00.1	04/2009	Updated functions: rssfu_confAnalogTvVideoVisionPicture - added parameters FMSK and FMDK
2.00	03/2009	Driver for SFU Broadcast Test System firmware version 2.00 Modifications: <ul style="list-style-type: none"> rssfu_confTxModulation rssfu_confAtvTransStandard rssfu_confTxModInterfAtvPredefStd rssfu_loadAnalogTvVideoLibrary rssfu_confAnalogTvAudioInputSignal rssfu_confFadingCommonSettings rssfu_close rssfu_readTDMBInfo - SCID - changed data type to ViInt32 rssfu_confISDBTLayerCoding - bug fix - New functions: <ul style="list-style-type: none"> rssfu_loadAnalogTvAudioLibrary rssfu_analogTvAudioLibraryCatalog rssfu_analogTvAudioLibraryCatalogLength rssfu_confCMMBInputSignal rssfu_readCMMBValues rssfu_SetCMMBNumberOfServices rssfu_confCMMBCoding rssfu_ReadCMMBOFDMMMode rssfu_confCMMBPLCHTable rssfu_actEnableCMMBSpecial rssfu_confCMMBSpecial rssfu_confCMMBSettings rssfu_confDVBSHInputSignal rssfu_confDVBSHTestSignal rssfu_readDVBSHPackedLength rssfu_readDVBSHValues rssfu_confIDVBSHMode rssfu_confDVBSHChannelBandwidth rssfu_readDVBSHUsedBandwidth rssfu_confDVBSHCoding rssfu_confDVBSHTimeInterleaver rssfu_confDVBSHSettings rssfu_configAudioBCFMRDSRBDS rssfu_ReadAudioBCFMRDSRBDSRadioTextStatus

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		rssfu_configAudioBCFMRDSRBDSDecoderIdn rssfu_SetAudioBCFMAFAFreq rssfu_ConfigureAudioBCFMAFAFrequency rssfu_SetAudioBCFMAFBList rssfu_SetAudioBCFMAFBFreq rssfu_ConfigureAudioBCFMAFBFrequency rssfu_configAudioBCFMEONParameters rssfu_SetAudioBCFMEONAFAFreq rssfu_ConfigureAudioBCFMEONAFAFrequency rssfu_SetAudioBCFMEONAFMappedFreqNumberOfFreq rssfu_ConfigureAudioBCFMEONAFMappedFrequency rssfu_EnableAudioBCFMTMC rssfu_AudioBCFMTMCSendData rssfu_SetAudioBCTMCGroup3AVARParameters rssfu_SetAudioBCTMCNumberOf8AGroups rssfu_ConfigureAudioBCFMTMC8ABlock rssfu_EnableAudioBCFMOpenFormat rssfu_AudioBCFMOpenFormatSendData rssfu_ConfigureAudioBCOpenFormatGroupA rssfu_ConfigureAudioBCOpenFormatGroupB rssfu_AudioBCOpenFormatGroupDataTransferStatus rssfu_confFadingSignalDelayShift rssfu_SetOPCTimeout rssfu_GetOPCTimeout
1.90	11/2008	Driver for SFU Broadcast Test System firmware version 1.90 - new functions: rssfu_audioTransmissionStandard rssfu_readDitallqSymbolRate rssfu_configAudioBCFMInputSignal rssfu_confAudioBCFMSource rssfu_readAudioBCFMEExternalSource rssfu_configAudioBCFMAudioModulation rssfu_configureAudioBCModulationRDS rssfu_configureAudioMPXFreqDeviation rssfu_readAudioBCFMModulationValues rssfu_enableAudioBCFMSpecialSettings rssfu_confAudioBCFMSpecialSettings rssfu_configAudioBCAMInputSignal rssfu_confAudioBCAMSource

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		rssfu_readAudioBCAMExternalSource rssfu_confAudioBCAMModulationDepth rssfu_readAudioBCAMModeDepth rssfu_configureFadingSource rssfu_confBERGatingTime rssfu_readTSGenSeekPosition - modified functions: rssfu_confTxModulation rssfu_confDTMBTestSignal rssfu_confBERInputs
1.80.1	08/2008	Driver for SFU Broadcast Test System firmware version 1.80 - modified functions/attributes: rssfu_readModulationSigInfoStat - added *OPC rssfu_confTxModulation, RSSFU_ATTR_MOD_DM_SPECTRUM rssfu_confTxModulation, RSSFU_ATTR_MOD_DM_TRANSMISSION_STANDARD - added rangetable: rssfu_readDVBCValues, RSSFU_ATTR_IQC_DVBC_PACKET_LENGTH rssfu_readDVBSValues, RSSFU_ATTR_IQC_DVBS_PACKET_LENGTH rssfu_readDMBTVValues, RSSFU_ATTR_IQC_DMBT_PACKET_LENGTH rssfu_readDVBTValues, RSSFU_ATTR_IQC_DVBT_PACKET_LENGTH rssfu_readDVBTValues, RSSFU_ATTR_IQC_DVBT_PACKET_LENGTH_LOW rssfu_readDTMBValues, RSSFU_ATTR_IQC_DTMB_CODING_PACKED_LENGTH
1.80.0	06/2008	Driver for SFU Broadcast Test System firmware version 1.80 Modifications: - new functions: rssfu_confTxModulationInterfererSignal rssfu_confTxModIqInputRefresh rssfu_confDTMBDualPilotTone rssfu_confDVBS2ACMMode rssfu_confDVBS2FecFrame rssfu_confDirectvPhaseNoise rssfu_readAVSBCoderStatus rssfu_confAVSBInputSignal rssfu_confAVSBTestSignal rssfu_readAVSBPackedLength

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Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_readAVSBValues rssfu_setAVSBSymbolRate rssfu_readAVSBConstellation rssfu_readAVSBRollOff rssfu_confAVSBCodingVSBState rssfu_actEnableAVSBSpecial rssfu_confAVSBSpecial rssfu_confAVSBRfWatermarkSettings rssfu_confAVSBSrsSettings rssfu_confAVSBSettings rssfu_setImpOptimizationMode rssfu_confFadingMaxPaths rssfu_confFadingCouplingSettings rssfu_actEnablePowerMeter rssfu_powerMeterConfiguration rssfu_confPowerMeterFrequency rssfu_relativePowerState rssfu_readAbsoluteOutputPower rssfu_actPowerMeterM2Ref rssfu_actPowerMeterZero rssfu_confAverageFilter rssfu_actAverageAutoOnce - modified: rssfu_confDVBCoding - Roll Off - changed data type rssfu_confTxModulation rssfu_confDTMBHCoding rssfu_confDTMBCoding rssfu_confDTMBSettings rssfu_confFadingPathProfile rssfu_confFadingDelaySettings
1.70.01	03/2008	Driver for SFU Broadcast Test System firmware version 1.70 Modifications: rssfu_confTxModulation - fixed attenuation range
1.70.0	02/2008	Driver update for SFU Broadcast Test System firmware version 1.70 Modifications: - new functions: rssfu_confISDBTSystem rssfu_confISDBTSubChannel

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_readDTMBCoderStatus rssfu_confDTMBInputSignal rssfu_confDTMBTestSignal rssfu_readDTMBValues rssfu_confDTMBNetworkMode rssfu_confDTMBChannelBandwidth rssfu_confDTMBCoding rssfu_confDTMBHCoding rssfu_readDTMBSFNValues rssfu_actEnableDTMBSpecial rssfu_actEnableDMBModeDTMBSpecial rssfu_confDTMBSpecial rssfu_confDTMBSSettings rssfu_confFadingPathProfileResultDopplerFreq rssfu_confFadingBirthDeathDopplerFrequency rssfu_confFading2pathDynamicDelayDopplerShift - modified: rssfu_confTxModulation rssfu_confTDMBInputSignal rssfu_confDVBS2TestSignal rssfu_confDMBTTTestSignal rssfu_confDVBS2TestSignal rssfu_confDVBS2Special rssfu_configAnalogTvAudio rssfu_readTsgenPlayerParam rssfu_WaitForOPCCallback - fixed, bad OPC mask - DMB-TH transmission standard moved to obsolete functions
1.60.2	11/2007	Modifications: Added wait for OPC when loading/storing fading profile Fixed rssfu_confDMBTHCoding New rsidr_core
1.60.1	09/2007.	Modifications: Added rssfu.sub to LabWindows/CVI ZIP archive
1.60	03/2007.	Driver update for SFU Broadcast Test System firmware version 1.60 - new functions: rssfu_readExternalAudioInputLevel rssfu_confAnalogTvNICAMSignal rssfu_confAnalogTvAudioInputSignal rssfu_configAnalogTvAudioAf

rssfu Instrument Driver		
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Revision	Date	Note
		rssfu_configAnalogTvAudioImpedance rssfu_confAnalogTvSpecialVsbCharacteristic rssfu_confAnalogTvSpecialVideoCarrier rssfu_setAnalogTvSpecialAmModulationDepth rssfu_confAnalogTvVideoInputSignal rssfu_loadAnalogTvVideoLibrary rssfu_analogTvVideoLibraryCatalog rssfu_analogTvVideoLibraryCatalogLength rssfu_actARBWaveformFileTag rssfu_setMfloChannelBandwidth rssfu_readPeakEnvelopePower rssfu_setDMBTHSpecialSingleCarrier rssfu_confFadingReferenceSettings rssfu_configureFading rssfu_setStatusRegister rssfu_getStatusRegister rssfu_setUserDefStatusRegister rssfu_getUserDefStatusRegister rssfu_storeLoadInstrumentData rssfu_storeLoadFadingSettings rssfu_storeLoadApplication rssfu_noiseFileOperations rssfu_fadingCatalog rssfu_confDVBS2Pilots - modified: rssfu_confDVBS2Coding rssfu_confISDBTSpecialSegmentSettings rssfu_confFadingStandardSet rssfu_confTDMBConfiguration rssfu_confAnalogTvVideo rssfu_confAnalogTvVideoVisionPicture rssfu_ARBWaveformCatalog rssfu_ARBWaveformCatalogLength rssfu_ARBWaveformSamples - removed: rssfu_confDVBS2H8PSKSettings
1.50.0	11/2006	Driver update for SFU Broadcast Test System firmware version 1.50 - modified functions: rssfu_confJ83BTestSignal

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_confDirectvInputSignal rssfu_confTxModulation rssfu_confFadingPathProfile rssfu_rssfu_actFadingConfig rssfu_confTxModInterfAtvPredefStd rssfu_confFadingStandardSet rssfu_readDMBTSFNValues rssfu_confFadingBirthDeathPathProfile - new functions: rssfu_SetTxActualCenterFrequency rssfu_SetTxFrequencyChannel rssfu_FrequencyChannelTableOperations rssfu_ConfigureChannelTableFrequency rssfu_SetFrequencyVSBReferencePoint rssfu_readTxFreq rssfu_txRfOutputProtectionTripped rssfu_actTxRfOutputClear rssfu_GetLevelOfPhaseNoise rssfu_DeleteARBWaveform rssfu_ARBWaveformSamples rssfu_ARBWaveformCatalog rssfu_ARBWaveformCatalogLength rssfu_confARBExternalClock rssfu_readARBExternalClockFrequency rssfu_confARBTrigger rssfu_actARBTriggerExecute rssfu_readARBTriggerStatus rssfu_confARBMarker rssfu_readTsgenStatus rssfu_readTsgenRecordProgress rssfu_confReferenceOscillator rssfu_confTriggerIO rssfu_confFading2pathDynamicDelayPath rssfu_confFading2pathDynamicDelay rssfu_readFading2pathDynamicDelayDopplerShift rssfu_configAnalogTvAudio rssfu_confAnalogTvVideo rssfu_confAnalogTvVideoVisionPicture rssfu_readAnalogTvValues rssfu_actEnableAnalogTvSpecial

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_confAnalogTvPreemphasis rssfu_confAnalogTvPilot rssfu_confAnalogTvSubcarrierSettings rssfu_confAnalogTvSpecialSettings rssfu_readISDBTCoderStatus rssfu_confISDBTInputSignal rssfu_confISDBTTestSignal rssfu_readISDBTInputDataRate rssfu_readISDBTValues rssfu_confISDBTLayerCoding rssfu_confISDBTCoding rssfu_confISDBTSegments rssfu_readISDBTBandwidth rssfu_actEnableISDBTSpecial rssfu_confISDBTSpecial rssfu_confISDBTSpecialPilotSettings rssfu_confISDBTSpecialPilotModulationSettings rssfu_confISDBTSpecialSegmentSettings rssfu_confISDBTSpecialAcDataSettings rssfu_confISDBTSpecialGuardInsertionSettings rssfu_confISDBTSettings rssfu_readDMBTHCoderStatus rssfu_confDMBTHInputSignal rssfu_confDMBHTTestSignal rssfu_readDMBTHPackedLength rssfu_readDMBTHValues rssfu_confDMBTHNetwork rssfu_confDMBTHControl rssfu_confDMBTHCoding rssfu_confDMBTHCodingHandheld rssfu_readDMBTHSFNValues rssfu_actEnableDMBTHSpecial rssfu_confDMBTHSpecial rssfu_confDMBTHSettings rssfu_confDMBTNetworkMode rssfu_confTDMBConfiguration rssfu_systemDisplayUpdate rssfu_systemKeypadLock - obsolete: rssfu_confNoise_obs

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_confNoisePulse_obs rssfu_confNoiseParameters rssfu_confTDMBSettings rssfu_confDVBCNetwork
1.45.0	07/2006	Driver update for SFU Broadcast Test System firmware version 1.45 - new function: rssfu_read8VSBCodeStatus rssfu_conf8VSBInputSignal rssfu_conf8VSBTestSignal rssfu_read8VSBPackedLength rssfu_read8VSBValues rssfu_set8VSBsymbolRate rssfu_read8VSBConstellation rssfu_read8VSBRollOff rssfu_actEnable8VSBspecial rssfu_conf8VSBspecial rssfu_conf8VSBSettings rssfu_readJ83BCodeStatus rssfu_confJ83BInputSignal rssfu_confJ83BTestSignal rssfu_readJ83BPackedLength rssfu_readJ83BValues rssfu_confJ83BCoding rssfu_readJ83BRollOff rssfu_actEnableJ83Bspecial rssfu_confJ83Bspecial rssfu_confJ83BSettings
1.44.0	05/2006	Driver update for SFU Broadcast Test System firmware version 1.44 - new function: rssfu_confAtvTransStandard rssfu_confTxModInterfAtvPredefStd rssfu_confTxModulatorLevel rssfu_readModulationSigInfoStat rssfu_confDirectvInputSignal rssfu_readDirectvPackedLength rssfu_readDirectvValues rssfu_confDirectvCoding rssfu_actEnableDirectvSpecial

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_confDirectvSpecial rssfu_confDirectvSettings rssfu_readMfloCoderStatus rssfu_confMfloInputSignal rssfu_readMfloMeasDataRate rssfu_confMfloDelaySettings rssfu_readMfloDelaySsfArrivalTime rssfu_actEnableMfloSpecial rssfu_confMfloSpecial rssfu_confMfloAreaSettings rssfu_confMfoldSettings rssfu_readMfloLengthSettings rssfu_confNoise rssfu_confNoiseCn rssfu_confNoisePulse rssfu_confNoiseBwSettings rssfu_actFileCatPath rssfu_readCatalogLength rssfu_readToFile rssfu_writeFromFile rssfu_ReadDataUnknownLength - modified functions: rssfu_confTxModulation rssfu_confTxModulationInterferer rssfu_confDVBTCoding rssfu_readNoiseGenState rssfu_reset - timeout for reset is set to 30s
1.40.0	03/2006	Driver update for SFU Broadcast Test System firmware version 1.40 - modified functions: rssfu_confTxModulationSettings rssfu_confTxModulationInterferer - added new functions: rssfu_readNoiseGenState rssfu_readNoiseCN rssfu_readTxLevel rssfu_readTxFreq rssfu_actFadingConfig rssfu_confFadingBirthDeathPathLoss rssfu_readFadingBirthDeathPathProfile

rssfu Instrument Driver		
Driver history for LabWindows/CVI and VXIplug&play Instrument Driver for C#, C/C++, Visual Basic .NET, VEE, etc.		
Revision	Date	Note
		rssfu_confFadingBirthDeathPathProfile rssfu_readFadingBirthDeathPathProfileResults rssfu_confFadingMovingPropagPathReference rssfu_confFadingMovingPropagPath rssfu_readTDMBCoderStatus rssfu_confTDMBInputSignal rssfu_readTDMBValues rssfu_readTDMBEtiInput rssfu_readTDMBInfo rssfu_actEnableTDMBSpecial rssfu_confTDMBSpecial rssfu_confTDMBSettings rssfu_confTsgenApplication rssfu_actTsgenStatus rssfu_readTsgenPlayerParam rssfu_confTsgenTimingSettings rssfu_confTsgenPcrJitter rssfu_confTsgenInterfaceSetGen rssfu_readTsgenRecParam rssfu_confTsgenInterfaceSetRec rssfu_actFileOperations rssfu_confTsgenPlayfile rssfu_confTsgenNewRecordStream
1.22.1	01/2006	Driver for SFU Firmware 1.22 Modifications: - Minor changes in range checking - fixed rssfu_confDVBTCoding - added attribute help
1.22	10/2005	Driver for SFU Firmware 1.22 - Initial Release

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