

Driver history for R&S® FSP and R&S® FSL Spectrum Analyzers and R&S® FSV Signal Analyzer Driver Documentation

Products:

R&S®FSP3	R&S®FSL3
R&S®FSP7	R&S®FSL6
R&S®FSP13	R&S®FSL18
R&S®FSP30	R&S®FSV3
R&S®FSP40	R&S®FSL7

Driver History and Release Notes for
LabWindows/CVI, LabVIEW and
VXPlug&Play drivers for VEE, C++, C#,
Visual Basic, Visual Basic.NET etc..

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1. History for LabWindows/CVI and VXIplug&play drivers for VEE, C++, C#, Visual Basic, Visual Basic.NET etc.

FSP, FSL, FSV driver history		
History for LabWindows/CVI and VXIplug&play drivers for VEE, C++, C#, Visual Basic, Visual Basic.NET etc.		
Revision	Date	Note
4.20.1	07/2008	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 4.20 - Driver update for FSL Spectrum Analyzer Firmware 1.6.0 - Driver update for FSV Signal Analyzer Firmware 1..05 - Added support for FSV instrument - Delay of 1 sec added for synchronization after the command INST:SEL xxxx <ul style="list-style-type: none"> - rsfsp_actSAMMode - rsfsp_actVSAMMode - rsfsp_actGSMMSMode - rsfsp_actBToothMode - rsfsp_actWCDPMode - rsfsp_actWCDPMSMode - rsfsp_actC2kCDPMode - rsfsp_actC2kCDPMSMode - rsfsp_actEVDOPMode - rsfsp_actEVDOPMSMode - rsfsp_actTDSCDMACDPMode - rsfsp_actTDSCDMACDPMSMode - rsfsp_actWLANMode - rsfsp_actWiMAXMode - rsfsp_actNoiseMeasMode - rsfsp_actPhasNoisMode - rsfsp_actCATVMode - Functions removed: <ul style="list-style-type: none"> - rsfsp_act3GPPBMode - Updated functions (function rsfsp_isFSL removed): <ul style="list-style-type: none"> - rsfsp_confVSAMDemodMode - rsfsp_confVSAMADemodSet - rsfsp_confVSAMADemodRFPParam - rsfsp_confVSAMDemodBW - rsfsp_confWCDPMSMeas - rsfsp_confWCDPMeasMode - rsfsp_confCDPSetStd - rsfsp_confCDPSBand

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		<ul style="list-style-type: none"> - rsfsp_confCDPSFactor - rsfsp_confCDPSlotDifference - rsfsp_confCDPLType - rsfsp_confCDPSigMap - rsfsp_confCDPConstellationParameterB - rsfsp_confCDPPControl - rsfsp_confCDPFrameAnalyze - rsfsp_confCDPIQLength - rsfsp_confWCDPChTable - rsfsp_confWCDPChTableFile - rsfsp_confWCDPChTableName - rsfsp_confWCDPChTableCopy - rsfsp_confWCDPChTableDelete - rsfsp_confWCDPChTableComment - rsfsp_confWCDPChTableData - rsfsp_confWCDPChTableCatalog - rsfsp_actWCDPMode (command changed from WCDP into BWCD) - rsfsp_actWCDPMSMarkMeas - rsfsp_actSEMLimitLineCheck - rsfsp_readMultiFrameData
4.20.0	02/2008	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 4.20 - List of options: <ul style="list-style-type: none"> - K5 GSM/EDGE (4.20) - K7 FM-Demodulator (4.20) - K8 Bluetooth (4.20) - K9 Power sensor measurements (4.20) - K30 Noise Figure and Gain Measurements (4.20) - K40 Phase Noise Measurements (4.20) - K70 Vector Signal Analysis (4.20) - K72 3GPP FDD Base Station Test (4.20) - K73 3GPP FDD User Equipment Test (4.20) - K74 3GPP HSDPA Base Station Test (4.20) - K76 TD-SCDMA Base Station Test (4.20) - K77 TD-SCDMA Mobile Station Test (4.20) - K82 cdma2000 Base Station Test (4.20) - K83 cdma2000/1xEV-DV Mobile Station Test (4.20) - K84 1xEV-DO Base Station Test (4.20) - K85 1xEV-DO Mobile Station Test (4.20) - K90 WLAN 802.11a/g Tests (4.20) - New functions:

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		<ul style="list-style-type: none"> - rsfsp_getTransducerActive - rsfsp_confTrackExtSendCmd - rsfsp_actLimitLines - rsfsp_getIDStringFactory - rsfsp_confSEMListEvaluationState - rsfsp_confSEMPeakSearch - rsfsp_dataReadTraceOnly .. utility function - K5 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsp_confGsmModulationSpectrumListAverage - rsfsp_confGsmExtendedSlotState - rsfsp_confGsmExtendedSlot - rsfsp_confGsmExtendedSlotCommonSettings - rsfsp_confGsmExtendedSlotParameters - rsfsp_confGsmExtendedSlotLimLineCtrl - rsfsp_confGsmExtendedSlotLimitLines - rsfsp_ReadGsmExtendedSlotPtempRef - rsfsp_FetchGsmExtendedSlotPtempRef - K7 option: <ul style="list-style-type: none"> - Updated functions: <ul style="list-style-type: none"> - rsfsp_confVSAMDemodFilt ... High pass filter frequency value 20 Hz, Low pass filter frequency value 23.0 kHz added - New functions: <ul style="list-style-type: none"> - rsfsp_confVSAMDemodFilterWeighting - rsfsp_confVSAMDemodTHDUnit - K8 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsp_actVSBToothPacketDataBits - rsfsp_dataVSBToothFMTrace - K9 option: <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsp_confPWRMeterRefLevelOffsetState - K30 option: <ul style="list-style-type: none"> - New function: <ul style="list-style-type: none"> - rsfsp_confNoiseXAxisFrequencyDisplay - K72/K74 option: <ul style="list-style-type: none"> - Updated functions:

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		<ul style="list-style-type: none"> - rsfsp_dataReadTraceWCDP ... CWCDP help updated, ATRACE2 added - rsfsp_actWCDPMarkMeas ... PSYMBOL and ACHannel added - rsfsp_confWCDPMeasMode ... Frequency Error Vs. Slot measurement added - K73 option: - New functions: <ul style="list-style-type: none"> - rsfsp_confCDPEVMMeasInterval - Updated functions: <ul style="list-style-type: none"> - rsfsp_actWCDPMSMarkMeas ... values RHO, TOFF, EVMB, EVM, MTYP, ACH added - rsfsp_dataReadTraceWCDP ...RMS of EVM added - K77 option: - Updated functions: <ul style="list-style-type: none"> - rsfsp_confCDPHighDynamic ... available for K77 - K84 option: - New function: <ul style="list-style-type: none"> - rsfsp_confCDPPVTLISTEval - rsfsp_readBDOPVTLISTEval - rsfsp_confCDPPVTBurstFit - rsfsp_confCDPPVTRestartOnFail - Updated functions: <ul style="list-style-type: none"> - rsfsp_confSEMPeaksPerRange ... supported with K84 - rsfsp_confSEMMargin ... supported with K84 - rsfsp_dataSEMResults ... supported with K84 - rsfsp_actEVDOPMarkMeas ... PDMAX, PDMin, IPMMAX added - K90 option: - New functions: <ul style="list-style-type: none"> - rsfsp_confWlanSEMMeasurement - rsfsp_actWLANStoreLoadIQData - rsfsp_dataWLANSEMResults - FSL only <ul style="list-style-type: none"> - FSL now available up to 18 GHz
4.4.4	10/2007	<ul style="list-style-type: none"> - Fixed number of data read rsfsp_actWLANGetChannelMaximumPower rsfsp_actWLANGetChannelPower

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		<ul style="list-style-type: none"> - Fixed data read format string rsfsp_dataReadTraceCDP (serial interface only) rsfsp_dataReadTraceC2k (serial interface only) rsfsp_dataReadTraceWCDP (serial interface only) rsfsp_dataReadTraceWCDMA (serial interface only) rsfsp_dataReadTrace (serial interface only) rsfsp_actBurstPwrResult rsfsp_actMeasBurstPwrSeq rsfsp_actMeasListPwrSeq
4.4.3	10/2007	<ul style="list-style-type: none"> - Updated function: - rsfsp_defaultInstrSetup (instrument checking fixed)
4.4.2	10/2007	<ul style="list-style-type: none"> - Updated functions: - rsfsp_confTraceIQ (range and help)
4.4.1	08/2007	<p>Updated functions:</p> <ul style="list-style-type: none"> - rsfsp_confTraceIQ (range and help) - rsfsp_confTraceIQSrate (range and help)
4.4.0	07/2007	<ul style="list-style-type: none"> - Driver update for FSL Spectrum Analyzer Firmware 1.6.0 - Driver for FSP Spectrum Analyzer Firmware 4.00 - List of options for FSL: <ul style="list-style-type: none"> - FSL-K7 AM/FM/PM Measurement Demodulator - FSL-K8 Bluetooth Tx measurements, incl. EDR - FSL-K9 Power sensor measurements - FSL-K14 Spectrogram Measurement - FSL-K20 Cable TV measurements, analog TV and DVB-C - FSL-K30 Application Firmware for Noise Figure and Gain measurements - FSL-K72 WCDMA 3GPP Application Firmware - FSL-K91 WLAN 802.11 Tests (1.20) - FSL-K92/93 Application Firmware for WiMAX - New Functions <ul style="list-style-type: none"> rsfsp_confFslTrg rsfsp_confTimeTrigger rsfsp_confVideoTrigger rsfsp_confMarkerStepSize rsfsp_getActLimitLines

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		<ul style="list-style-type: none"> - K30 new functions <ul style="list-style-type: none"> rsfsp_confNoiseMarkerAllOff rsfsp_actNoiseMarkTo - K14 - Spectrogram Measurement <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> - rsfsp_confSpecmState - rsfsp_confSpecmSweep - rsfsp_confSpecmDispParam - rsfsp_confSpecmMeasParam - rsfsp_confSpecmMarkerFrameNumber - rsfsp_confSpecmMarkerSearchArea - rsfsp_confSpecmDMarkerFrameNumber - rsfsp_confSpecmDMarkerSearchArea - rsfsp_actSpecmClear - rsfsp_getSpecmTimeStamp - rsfsp_actSpecmMarkerSearch - rsfsp_actSpecmDMarkerSearch - rsfsp_actSpecmGetMarkerFrameNumber - rsfsp_actSpecmGetDMarkerFrameNumber - rsfsp_dataSpecmTrace - Updated functions: <ul style="list-style-type: none"> - rsfsp_actMemSel ... spectrogram item added - K20 - Cable TV Analyzer for FSL <ul style="list-style-type: none"> - New functions: <ul style="list-style-type: none"> rsfsp_actCATVMode rsfsp_confCATVChannelSetup rsfsp_confCATVChannelFrequency rsfsp_confCATVChannelFrequencyStepSize rsfsp_confCATVModulationStandard rsfsp_confCATVMarkerState rsfsp_confCATVMarkerAllOff rsfsp_confCATVMarkParam rsfsp_confCATVMarkSearchLimit rsfsp_confCATVMarkerPosition rsfsp_confCATVDMarkState rsfsp_confCATVDMarkAllOff rsfsp_confCATVDMarkMode rsfsp_confCATVDeltaMarkPosition rsfsp_confCATVTrace

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		rsfsp_confCATVTraceDetector
		rsfsp_confCATVAMeasurement
		rsfsp_confCATVAModulStandard
		rsfsp_confCATVAVidScopField
		rsfsp_confCATVAVidScopLine
		rsfsp_confCATVACNMeasurement
		rsfsp_confCATVACNRefPower
		rsfsp_confCATVACNMeasFreq
		rsfsp_confCATVACSOMeasurement
		rsfsp_confCATVACSORefPower
		rsfsp_confCATVACSOMeasFreq
		rsfsp_confCATVACTBMeasurement
		rsfsp_confCATVACTBRefPower
		rsfsp_confCATVACTBMeasFreq
		rsfsp_confCATVACarrLimit
		rsfsp_confCATVACarrRatioLimit
		rsfsp_confCATVAHumLimit
		rsfsp_confCATVAVisionModLimit
		rsfsp_confCATVAVisionModCarrPowUnit
		rsfsp_confCATVAHumUnit
		rsfsp_confCATVDMeasurement
		rsfsp_confCATVDModulStandard
		rsfsp_confCATVDShoulderAtt
		rsfsp_confCATVDEchoPattern
		rsfsp_confCATVDModulErrZoom
		rsfsp_confCATVDOverviewZoom
		rsfsp_confCATVDConsDiagramZoom
		rsfsp_confCATVDEqualizer
		rsfsp_confCATVDSigStatNoSamples
		rsfsp_confCATVDSigStatScal
		rsfsp_confCATVDCCDFPercentMark
		rsfsp_confCATVDOverLimit
		rsfsp_confCATVDChanPowLimit
		rsfsp_confCATVDModErrLimit
		rsfsp_confCATVDEchoPatternUnit
		rsfsp_confCATVDUnit
		rsfsp_confCATVTVMeasurement
		rsfsp_confCATVTVStandardForTitlMeas
		rsfsp_actCATVChannelAdjustAtt
		rsfsp_actCATVAutoscale
		rsfsp_actCATVMarkTo
		rsfsp_actCATVMarkerSearch
		rsfsp_getCATVMarkerValue

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		rsfsp_getCATVMarkerPosition rsfsp_actCATVDMarkSearch rsfsp_getCATVDMarkValue rsfsp_actCATVACNNextMeasFreq rsfsp_actCATVACSONextMeasFreq rsfsp_actCATVACTBNextMeasFreq rsfsp_actCATVACarrRes rsfsp_actCATVACarrAllRes rsfsp_actCATVACarrRatioRes rsfsp_actCATVACarrAllRatioRes rsfsp_actCATVAHumRes rsfsp_actCATVAVisionModRes rsfsp_actCATVAVisionAllModRes rsfsp_actCATVACarrLimitRes rsfsp_actCATVACarrRatioLimitRes rsfsp_actCATVAHumLimitRes rsfsp_actCATVAVisionModLimitRes rsfsp_actCATVDRresetEqualizer rsfsp_actCATVDSpectrumRes rsfsp_actCATVDChanPowRes rsfsp_actCATVDOverRes rsfsp_actCATVDOverAllRes rsfsp_actCATVDModErrRes rsfsp_actCATVDModulErrAllRes rsfsp_actCATVDSigStatRes rsfsp_actCATVDSigStatAllRes rsfsp_actCATVDOverLimitRes rsfsp_actCATVDChanPowLimitRes rsfsp_actCATVDModErrLimitRes - K72 options - Updated Functions: rsfsp_confCDPICT - help updated rsfsp_actWCDPMarkMeas - new measurement added for FSL with K72 rsfsp_dataReadTraceWCDP - for FSL trace ABIT is not available rsfsp_confWCDPMeas - help updated - not available for FSL rsfsp_confWCDPMeasMode rsfsp_confCDPSetStd rsfsp_confCDPSBand rsfsp_confCDPSFactor rsfsp_confCDPSlotDifference rsfsp_confCDPLType

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		<p>rsfsp_confCDPSigMap rsfsp_confCDPConstellationParameterB rsfsp_confCDPPControl rsfsp_confCDPFrameAnalyze rsfsp_confCDPIQLength rsfsp_confWCDPChTable rsfsp_confWCDPChTableFile rsfsp_confWCDPChTableName rsfsp_confWCDPChTableCopy rsfsp_confWCDPChTableDelete rsfsp_confWCDPChTableComment rsfsp_confWCDPChTableData rsfsp_confWCDPChTableCatalog rsfsp_actWCDPMode rsfsp_actWCDPMSMarkMeas rsfsp_actSEMLimitLineCheck rsfsp_readMultiFrameData</p> <p>- FSL only - New Functions: rsfsp_confFSLWCDPMeasMode rsfsp_confWCDPSEMTransition rsfsp_confWCDPYScaleDivision rsfsp_confCDPResSumView rsfsp_act3GPPBMode rsfsp_actCDPDeltaMarkTo rsfsp_actCDPAseq rsfsp_actCDLPCodeSearch rsfsp_actCDPLCodeResults rsfsp_actCDPGetListEvalRes</p> <p>- Status checking added - rsfsp_actSendTrgWopc - rsfsp_actSendTrgWopcWindow</p>
4.3.0	05/2007	<p>- Driver update for FSL Spectrum Analyzer Firmware 1.5.0</p> <p>- FSP driver update - New Functions: rsfsp_confSingleSweepAndWait rsfsp_GetCenterFrequency rsfsp_GetSpan rsfsp_GetSweepTime</p>

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		<p>rsfsp_GetSweepPoints rsfsp_GetRBW rsfsp_GetVBW rsfsp_GetAtt rsfsp_GetIFPowerTriggerLevel rsfsp_GetVideoTriggerLevel</p> <p>- rsfsp_confLimitLineData - bug fixed</p> <p>- FSL only</p> <p>- New functions: rsfsp_confSweepPointsFSL</p> <p>- Driver update for FSL Spectrum Analyzer Firmware 1.5.0</p> <p>- K30 - Noise</p> <p>- Updated functions: rsfsp_confNoiseFixedIFFrequency rsfsp_confNoisePreselector rsfsp_confNoisePreamplifier rsfsp_confNoiseGeneratorAuto rsfsp_confNoiseGeneratorSettings rsfsp_confNoiseGeneratorLevel rsfsp_confNoiseGeneratorFrequency rsfsp_confLimitLineMeasType rsfsp_dataFetchNoiseMeasScalar</p> <p>- FSL Only:</p> <p>- New functions: rsfsp_confNoiseTraceMemDisplay rsfsp_confNoiseCurrentResDisplay rsfsp_confXAxisFreqDisplay rsfsp_actNoiseTraceMemRes rsfsp_dataFetchNoiseMemArray</p> <p>- K7 - Analog Demodulation</p> <p>- Updated funtions: rsfsp_confVSAMDemodMode rsfsp_confVSAMADemodSet rsfsp_confVSAMADemodRFPParam rsfsp_confVSAMDemodBW rsfsp_actAdemodAutoTune rsfsp_actVSAMMarkerADemod rsfsp_getADemodResultValues rsfsp_dataModSINADMeasRes</p>

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		<p>rsfsp_dataModTHDMeasRes</p> <p>- FSL only</p> <p>- New functions</p> <p>rsfsp_confADemSigAnalysisMode</p> <p>rsfsp_confADemPeakExcursion</p> <p>rsfsp_confADemDemodBW</p> <p>rsfsp_confADemSet</p> <p>rsfsp_confADemType</p> <p>rsfsp_confASimDemType</p> <p>rsfsp_confADemRFSpecParam</p> <p>rsfsp_confADemTrg</p> <p>rsfsp_getADemSimulResultValues</p> <p>rsfsp_dataADemSINADMeasValue</p> <p>rsfsp_dataADemTHDMeasValue</p> <p>- K9 - Power Meter</p> <p>- Updated fuctions:</p> <p>rsfsp_confPMetMeasTimeManual</p> <p>- FSL only</p> <p>- New functions:</p> <p>rsfsp_confPwrRefLevOffsetState</p>
4.2.0	04/2007	<p>- FSL FS-K92/93 update</p> <p>- Updated functions:</p> <p>rsfsp_confWLANCenterFrequency</p> <p>rsfsp_confWLANChannelNo</p> <p>rsfsp_confWLANAutoLevel</p> <p>rsfsp_confWLANAutoLevelTime</p> <p>rsfsp_confWLANRefLevel</p> <p>rsfsp_confWLANRFAttenuation</p> <p>rsfsp_confWLANExtAtt</p> <p>rsfsp_confWLANSignalLevelRF</p> <p>rsfsp_confWLANsweep</p> <p>rsfsp_confWLANsweepCount</p> <p>rsfsp_confWLANCaptureTime</p> <p>rsfsp_confWLANOverallBurstCount</p> <p>rsfsp_confWLANTriggerMode</p> <p>rsfsp_confWLANTriggerOffset</p> <p>rsfsp_confWLANTriggerLevel</p> <p>rsfsp_confWLANSwapIQ</p> <p>rsfsp_confWLANEqualBurstLength</p>

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		rsfsp_confWLANNoDataSymbols rsfsp_confWLANMinMaxNoDataSymbols rsfsp_confWLANTrackingPhase rsfsp_confWLANTrackingTiming rsfsp_confWLANTrackingLevel rsfsp_confWLANGating rsfsp_confWLANGateDelay rsfsp_confWLANGateLength rsfsp_confWLANMarkerState rsfsp_confWLANMarkerAllOff rsfsp_confWLANMarkerTrace rsfsp_confWLANMarkerPositionx rsfsp_confWLANMarkerCarrier rsfsp_confWLANMarkerSymbol rsfsp_confWLANDisplayTable rsfsp_actWLANPVTSelect rsfsp_actWLANspectrumMaskSelect rsfsp_actWLANAutoAdj rsfsp_actWLANBurstImm rsfsp_actWLANMarkerZoom rsfsp_actWLANGetChannelPower rsfsp_actWLANGetChannelMaximumPower rsfsp_confWLANGetMarkerPositionx rsfsp_confWLANGetMarkerPositiony rsfsp_confWLANGetMarkerCarrier rsfsp_confWLANGetMarkerSymbol rsfsp_dataReadTraceWLAN rsfsp_dataFetchWLANBurstAll rsfsp_dataFetchWLANSymbolError rsfsp_dataFetchWLANIQOffset rsfsp_dataFetchWLANGImbalance rsfsp_dataFetchWLANQuadOffset rsfsp_dataFetchWLANEVMResults rsfsp_confExtTrgLevel rsfsp_actWLANLoadStoreIQData rsfsp_dataFetchWLANRMSAllPower rsfsp_dataFetchWLANAllCrestFactor rsfsp_dataFetchWLANFreqError rsfsp_actWLANMeasMode - FSL Only: - Updated functions: rsfsp_confWLANACPMODE

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		rsfsp_confWLANPreSel rsfsp_confWLANQueryFilterCatalog rsfsp_confWLANSelectFilter rsfsp_confWLANGateLink rsfsp_confWLANEVMUnits rsfsp_dataFetchWlanCount rsfsp_dataFetchWLANRMSAllPower rsfsp_dataFetchWLANAllCrestFactor - New functions: rsfsp_actWiMAXMode rsfsp_confWiMAXStandard rsfsp_confWiMAXBW rsfsp_confWiMAXChannBw rsfsp_confWiMAXAdjChannSpacing rsfsp_confWiMAXAdjChannNumber rsfsp_confWiMAXAdjChannBw rsfsp_confWiMAXAutoscaleY rsfsp_confWiMAXYScaleDivision rsfsp_confWiMAXFreqBand rsfsp_confWiMAXInvGuardRatio rsfsp_confWiMAXLinkMode rsfsp_confWiMAXPVTBurstSel rsfsp_confWiMAXPowerNoiseCorr rsfsp_confWiMAXSpectrumACPRMaskSweepTime rsfsp_confWiMAXBasebandInput rsfsp_confWiMAXEVMTableUnits rsfsp_confWiMAXDemodulator rsfsp_confWiMAXDemodType rsfsp_confWiMAXChanEstPreambPayl rsfsp_confWiMAXMarkerBurstConstSymbol rsfsp_confWiMAXAllLimits rsfsp_confWiMAXLimitEVMAllCarriers rsfsp_confWiMAXLimitEVMDataCarriers rsfsp_confWiMAXLimitIQOffsetError rsfsp_confWiMAXLimitFerr rsfsp_confWiMAXLimitSymbolErr rsfsp_confWiMAXSSTLimit rsfsp_confWiMAXDisplayTableUnit rsfsp_actWiMAXConstellationCarrierSelect rsfsp_actWiMAXACPM measModeSelect rsfsp_actWiMAXSpectrumFlatnessSelect rsfsp_confWiMAXGetRefLevel

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		rsfsp_actWiMAXRefreshIQMeasurement rsfsp_actWiMAXAllLimitsResults rsfsp_actWiMAXLimitEVMAllCarriersResult rsfsp_actWiMAXLimitEVMDataCarriersResult rsfsp_actWiMAXLimitIQOffsetErrorResult rsfsp_actWiMAXLimitFerrResult rsfsp_actWiMAXLimitSymbolErrResult rsfsp_actWiMAXSSTRResult rsfsp_actWiMAXSpectrumMaskLimit rsfsp_actWiMAXLimitCheckResult rsfsp_dataFetchWiMAXCinrResults rsfsp_dataFetchWiMAXRssiResults rsfsp_confWiMAXPreambleErrorUnits - New functions K93 only: rsfsp_confWiMAXAveraging rsfsp_confWiMAXFFTSize rsfsp_confWiMAXFFTOffset rsfsp_confWiMAXTDDFrameTTG rsfsp_confWiMAXSEMMode rsfsp_confWiMAXSubchannel rsfsp_confWiMAXSubchannelState rsfsp_confWiMAXSubchannelPhysicalModifier rsfsp_confWiMAXFrameDLIDCell rsfsp_confWiMAXDLFramePreIndex rsfsp_confWiMAXFrameDLUsedSubchannel rsfsp_confWiMAXFrameUL rsfsp_confWiMAXCreateNewZone rsfsp_confWiMAXConfigureZone rsfsp_confWiMAXCreateNewZoneBurst rsfsp_confWiMAXConfigureZoneBurst rsfsp_confWiMAXLoadFrameData rsfsp_confWiMAXExternalFrameZoneGeneratorAddress rsfsp_confWiMAXZoneState rsfsp_confWiMAXZoneType rsfsp_confWiMAXZoneIDSegment rsfsp_confWiMAXZonePermBase rsfsp_confWiMAXZonePRBS rsfsp_confWiMAXZoneSymbolCount rsfsp_confWiMAXZoneSymbolOffset rsfsp_confWiMAXZoneBurstOffsetAuto rsfsp_confWiMAXZoneBurstModulation rsfsp_confWiMAXZoneBurstSlotDuration

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		rsfsp_confWiMAXZoneBurstSubchannelCount rsfsp_confWiMAXZoneBurstSubchannelOffset rsfsp_confWiMAXZoneBurstSymbolCount rsfsp_confWiMAXZoneBurstSymbolOffset rsfsp_confWiMAXZoneBurstType rsfsp_confWiMAXTrackingPilot rsfsp_confWIMAXBERPilotCarriers rsfsp_actWiMAXBstrModulation rsfsp_actWiMAXBstrBurstSelect rsfsp_actWiMAXBstrSymbSelect rsfsp_actWiMAXConsModulation rsfsp_actWiMAXConsBurstSelect rsfsp_actWiMAXConsSymbolSelect rsfsp_confWiMAXGetMarkerTTC rsfsp_actWiMAXBERPilotCarriersResult rsfsp_actWiMAXGetZoneCount rsfsp_actWiMAXGetZoneBurstCount rsfsp_actWiMAXZoneDelete rsfsp_actWiMAXZoneBurstDelete rsfsp_dataFetchWiMAXTDomainPreamble rsfsp_dataFetchWiMAXZoneCount - minor bug fixed, no functionality changes rsfsp_confNoiseTraceSettings rsfsp_confNoiseGainTraceSettings rsfsp_confPhasNoisResBwRatio rsfsp_confWLANYScaleDivision
4.1.0	02/2007	- Driver update for FSL Spectrum Analyzer Firmware 1.4.0 - Updated functions: rsfsp_confTrace rsfsp_confSAMDetectorExt rsfsp_confSAMTraceMathExt rsfsp_confSweepPoints rsfsp_confExternGainCorrect rsfsp_confListPwrSeq rsfsp_actMeasListPwrSeq rsfsp_confListPwrSetAverType rsfsp_confPowerUnits rsfsp_confAverState rsfsp_confSAMMarkDemod rsfsp_confSAMMarkDemCont rsfsp_confSAMMarkChPowChanStandard

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		<p> rsfsp_confSAMPowerTrace rsfsp_confHarmDistStat rsfsp_confHarmDistCount rsfsp_confHarmDistRbwAuto rsfsp_confTrackSrc rsfsp_confTrackRefLevel rsfsp_confTrackRefPosition rsfsp_actMarkTo rsfsp_actSAMCopyTrace rsfsp_actHarmDistPreset rsfsp_getHarmDistResultValues rsfsp_actHarmDistFirstFreq rsfsp_actTrackMode rsfsp_actTrackCorrState rsfsp_actTrackCorr rsfsp_dataReadTraceIQ </p> <p>- K8</p> <p>- Updated Functions:</p> <p> rsfsp_confVSAMDigiDemodFilter rsfsp_confVSAMDigiSearchTime rsfsp_confBToothTrace rsfsp_confBToothTraceSelect rsfsp_actBToothMeasMode rsfsp_confBToothDetector </p> <p>- FSL Only:</p> <p>- New functions:</p> <p> rsfsp_actSAMSigStatFSL rsfsp_confUnits rsfsp_confRFPreamplifier rsfsp_confFreqStepSize rsfsp_confFreqCouplingFactor rsfsp_confBurstPowFiltType rsfsp_confIFPTrig rsfsp_confTVTrig rsfsp_actAMModDepthSigSear rsfsp_actTOISigSear rsfsp_actMarkerZoom </p> <p>- FSL Only - K8</p> <p>- New functions:</p> <p>rsfsp_confBToothChannelFSL</p>

Revision	Date	Note
		rsfsp_confBToothPacketBytesSCO rsfsp_confBTOAMDemodZoom rsfsp_confBTOPeakExcursion rsfsp_confBToothBlockCount rsfsp_actBToothBlockCount rsfsp_actBTOCFSEmeas rsfsp_actBTODPENMeas rsfsp_confBToothSEAdjacentChannels rsfsp_confBToothSEAdjGateSettings rsfsp_actBTOSEAdjChanPower rsfsp_actBTOCFSEChannelPower rsfsp_actBTOCFSEExceptions rsfsp_confBToothPowerMeas rsfsp_actBTORTPPower
4.0.0	12/2006	- Driver update for FSP Spectrum Analyzer Firmware 4.00 - List of options: - K5 GSM/EDGE (4.00) - K7 FM-Demodulator (3.80) - K8 Bluetooth (3.80) - K9 Power sensor measurements (3.80) - K30 Noise Figure and Gain Measurements (4.00) - K40 Phase Noise Measurements (4.00) - K70 Vector Signal Analysis (4.00) - K72 3GPP FDD Base Station Test (4.00) - K73 3GPP FDD User Equipment Test (4.00) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (4.00) - K77 TD-SCDMA Mobile Station Test (4.00) - K82 cdma2000 Base Station Test (4.00) - K83 cdma2000/1xEV-DV Mobile Station Test (4.00) - K84 1xEV-DO Base Station Test (4.00) - K85 1xEV-DO Mobile Station Test (4.00) - K90 WLAN 802.11a/g Tests (4.00) - New Functions: Marker Search Auto (rsfsp_actMarkSearchAuto) Get Active Window (rsfsp_actGetActiveWindow) Store Marker to File (rsfsp_actMarkerToFile) Phase Noise Auto Peak Search (rsfsp_confSAMMarkPhaseNoiseAutoPeakSearch) SE List Evaluation State (rsfsp_confSEListEvaluationState) SE Limit (rsfsp_confSELimit) Memory Size on Boards (rsfsp_memSizeBoards) - Updated functions:

Revision	Date	Note
		<p>Analog Demod Phase Wrap (rsfsp_confVSAMADemodPhaseWrap) - fixed</p> <p>Delta Marker Fixed Ref Ma (rsfsp_confSAMDeltaMarkFixRef) - fixed bug</p> <p>- K7</p> <p>- Updated Functions:</p> <p>Vector Signal Analysis Mode (rsfsp_confVSAMDemodMode) - new operating modes added</p> <p>- K8</p> <p>- Updated Functions:</p> <p>Bluetooth Measurement Mode (rsfsp_actBToothMeasMode) - fixed range checking</p> <p>- K9</p> <p>- New Functions:</p> <p>PWR Meter Meas Time Manual (rsfsp_confPMetMeasTimeManual)</p> <p>- K40</p> <p>- Updated Functions:</p> <p>Phase Noise Resolution BW Type (rsfsp_confPhasNoisResBwType) - fixed command</p> <p>Phase Noise Resolution BW Ratio (rsfsp_confPhasNoisResBwRatio) - fixed command</p> <p>- K72/73/74</p> <p>- Updated Functions:</p> <p>Read WCDMA Trace Data (rsfsp_dataReadTraceWCDMA) - help, bugfixing</p> <p>WCDP Measurement Mode (rsfsp_confWCDPMeasMode) - new meas modes added</p> <p>WCDP Channel Table Data (rsfsp_confWCDPChTableData) - help</p> <p>Read WCDP Trace Data (rsfsp_dataReadTraceWCDP) - help</p> <p>- K76</p> <p>- New Functions:</p> <p>CDP High Dynamic (rsfsp_confCDPHighDynamic)</p> <p>- Updated Functions:</p> <p>Configure CDP Measurement (rsfsp_confCDPMeas) - added measurement</p> <p>CDP Channel Table Data (rsfsp_confCDPChTableData) - help</p> <p>- K84</p> <p>- New Functions:</p> <p>CDP Revision (rsfsp_confCDPRevision)</p> <p>- Updated Functions:</p> <p>Get 1xEV-DO CDP Measurement (rsfsp_actEVDOCDPMarkMeas) - added measurement</p>
3.8.2	08/2006	Removed FSEx compatibility checking,

Revision	Date	Note
		<p>for systems unable to pass a NULL pointer to a function argument (Visual Basic ...)</p> <ul style="list-style-type: none"> - rsfsp_actMarkValue - rsfsp_actMarkDeltaValue <p>Added C# wrapper. Rsfsp.cs is installed with VXIPnP driver in the VXIPnP folder -\WinNT\include</p>
3.8.1	07/2006	<p>For VC only:</p> <ul style="list-style-type: none"> - Removed of 'class' keyword
3.8.0	03/2006	<p>Driver update for FSP Firmware 3.80(XP), 2.80 (NT) and FSL Firmware 1.20</p> <p>Improved synchronization with error checking - new function rsfsq_clearBeforeRead Added function rsfsp_confGetMarkerPosition</p> <p>Binary transmission modified. ASCII transfer returned, termination character readout fixed:</p> <ul style="list-style-type: none"> rsfsp_dataReadTrace rsfsp_dataWriteTrace rsfsp_dataReadTraceIQ rsfsp_dataReadMemoryIQ rsfsp_dataReadTraceWCDDP rsfsp_dataReadTraceC2kCDP rsfsp_dataSEMResults <p>Range checking of Start and Stop Frequencies removed in function Read Spectrum (rsfsp_appReadSpectrum)</p> <p>Driver update for FSP Spectrum Analyzer Firmware 3.80</p> <p>List of options:</p> <ul style="list-style-type: none"> - K5 GSM/EDGE (3.80) - K7 FM-Demodulator - K8 Bluetooth - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.80) - K40 Phase Noise Measurements (3.80) - K72 3GPP FDD Base Station Test (3.80) - K73 3GPP FDD User Equipment Test (3.80) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (3.80) - K77 TD-SCDMA Mobile Station Test (3.80) - K82 cdma2000 Base Station Test (3.80) - K83 cdma2000/1xEV-DV Mobile Station Test (3.80) - K84 1xEV-DO Base Station Test (3.80) - K85 1xEV-DO Mobile Station Test (3.80) - K90 WLAN 802.11a/g Tests (3.80) <p>List of options for FSL:</p>

Revision	Date	Note
		<ul style="list-style-type: none"> - FSL-K7 AM/FM/PM Measurement Demodulator - FSL-K9 Power sensor measurements - FSL-K91 WLAN 802.11 Tests (1.20) <p>New functions:</p> <ul style="list-style-type: none"> Conversion Loss Table Catalog (rsfsp_confExtMixLossCatalog) Limit Lines Catalog (rsfsp_confLimitLineCatalog) Transducer Catalog (rsfsp_confTransCatalog) List Power Set Average Type (rsfsp_confListPwrSetAverType) Marker Demodulation Squelch (rsfsp_confSAMMarkDemodSquelch) Channel Power Alternate Channel Spacing (rsfsp_confSAMMarkChPowAltChanSpac) Channel Power Alternate Channel Bandwidth rsfsp_confSAMMarkChPowAltChanBwid) Channel Power Mode (rsfsp_confSAMMarkChPowMode) Channel Power Alternate Channel Limit (rsfsp_confSAMMarkAltChPowLim) Signal Statistics Scaling Units (rsfsp_confSAMSigStatScalUnits) Tracking Generator Power Sweep (rsfsp_confTrackPowSwe) Trace Results (rsfsp_actTraceResults) Trace Level (rsfsp_actTraceLevel) Get CCDF Statistics (rsfsp_actSAMCCDFStat) ID String Factory (rsfsp_idStringFactory) <p>Updated functions:</p> <ul style="list-style-type: none"> Check STB Before Read (rsfsp_checkBeforeRead) Emulation (rsfsp_confEmulation) Channel Power Channels (rsfsp_confSAMMarkChPowChanChannels) Channel Power Channel Opt (rsfsp_confSAMMarkChPowChanOpt) Channel Power Measurement Limit (rsfsp_confSAMMarkChPowLimExt) Get ACP Limit Check (rsfsp_actSAMACPLimitCheck) Configure Marker Search Parameter (rsfsp_confSAMMarkSearchNdB) <p>K5</p> <ul style="list-style-type: none"> - New functions: GSM IF/RF Power as IQ Trigger (rsfsp_confGSMIfRfPowIQTrig) <p>K7</p> <ul style="list-style-type: none"> - New functions: Analog Demod Auto Tune (rsfsp_actAdemodAutoTune) Analog Demodulation Filter Relative (rsfsp_confVSAMDemodFiltRel) <p>K40</p> <ul style="list-style-type: none"> - New functions: Phase Noise Trace Math State (rsfsp_confPhasNoisTraceMathState) Phase Noise Trace Math Expression (rsfsp_confPhasNoisTraceMathExpres)

Revision	Date	Note
		<p>Phase Noise Marker Zoom (rsfsp_actPhasNoisMarkerZoom)</p> <p>- Updated functions: Phase Noise Trace Mode (rsfsp_confPhasNoisTraceMode)</p> <p>K72/73/74</p> <p>- New functions: CDP HSDPA/UPA State (rsfsp_confCDPHsdpasState) WCDP MS E-DPDCH Channel Table Data (rsfsp_confWCDPMSEDPDCHChTableData) WCDP MS Channel E-DPDCH (rsfsp_confWCDPMSchEDPDCH)</p> <p>- Updated functions: WCDP Channel Table Data (rsfsp_confWCDPChTableData) Configure WCDPower MS Meas (rsfsp_confWCDPMSMeas)</p> <p>K82</p> <p>- New functions: SEM Peaks Per Range (rsfsp_confSEMPeaksPerRange) SEM Margin (rsfsp_confSEMMargin) Store Spectrum Emission Mask to File (rsfsp_actStoreSEMTToFile) SEM Search Peak (rsfsp_actSEMSearchPeak) SEM Results (rsfsp_dataSEMResults)</p> <p>FSP-K90/FSL-K91</p> <p>- New functions: WLAN Burst Recalc (rsfsp_actWLANBurstImm) Fetch WLAN Burst Count (rsfsp_dataFetchWLANBurstCount) Fetch WLAN Symbol Count (rsfsp_dataFetchWLANSymbolCount)</p> <p>- Modified functions: WLAN Limit Check Result (rsfsp_actWLANLimitCheckResult) WLAN Equal Burst Length (rsfsp_confWLANPVEqualBurstLength) WLAN PVT Burst Duration (rsfsp_confWLANPVTBurstDuration) WLAN PVT Min (Max) Burst Duration (rsfsp_confWLANPVTMinMaxBurstDuration) Fetch WLAN Burst Crest Factor (rsfsp_dataFetchWLANAllCrestFactor) WLAN Standard (rsfsp_confWLANStandard) WLAN Get Channel Power (rsfsp_actWLANGetChannelPower) WLAN Get Channel Maximum Power (rsfsp_actWLANGetChannelMaximumPower) WLAN All Limits Results (rsfsp_actWLANAllLimitsResults) Read WLAN Trace Data (rsfsp_dataReadTraceWLAN) WLAN Measurement Mode (rsfsp_actWLANMeasMode) WLAN Load/Store IQ Data (rsfsp_actWLANLoadStoreIQData)</p>
1.8.2	11/2005	Bug fixed functions:

Revision	Date	Note
		rsfsp_dataFetchNoiseMeasArray
1.8.1	08/2005	Bug fixed functions: rsfsp_confNoise2ndStageCorrectionState rsfsp_confNoiseTraceSettings rsfsp_confNoiseGainTraceSettings rsfsp_init - FSP checking
1.8	07/2005	- Driver update for FSP Spectrum Analyzer Firmware 3.60 added FSL support - List of changed options: - K5 GSM/EDGE (3.60) - K7 FM-Demodulator - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.60) - K40 Phase Noise Measurements (3.60) - K70 Vector Signal Analysis (3.60) - K72 3GPP FDD Base Station Test (3.60) - K73 3GPP FDD User Equipment Test (3.60) - K74 3GPP HSDPA Base Station Test (3.60) - K76 TD-SCDMA Base Station Test (3.60) - K77 TD-SCDMA Mobile Station Test (3.60) - K82 cdma2000 Base Station Test (3.60) - K83 cdma2000/1xEV-DV Mobile Station Test (3.60) - K84 1xEV-DO Base Station Test (3.60) - K85 1xEV-DO Mobile Station Test (3.60) - K90 WLAN 802.11a/g Tests (3.60) - New functions: WLAN Sweep (rsfsp_confWLANsweep) WLAN Start Measurement (rsfsp_actWLANstartMeasurement) WLAN Start Measurement And Wait for OPC (rsfsp_actWLANstartMeasurementWopc) Fetch WLAN Burst All (rsfsp_dataFetchWLANBurstAll) External Trigger Level (rsfsp_confExtTrgLevel) Harmonic Distortion State (rsfsp_confHarmDistStat) Number Of Harmonics (rsfsp_confHarmDistCount) Harmonic Resolution BW Auto (rsfsp_confHarmDistRbwAuto) Channel Power Separate Channel Spacing (rsfsp_confSAMSeparateChannelSpacing) PWR Meter Type (rsfsp_confPWRMeterType) PWR Meter Address (rsfsp_confPWRMeterAddress) PWR Meter Sensor Cal Factor (rsfsp_confPWRMeterSensorCalFactor) PWR Meter Sensor Label (rsfsp_confPWRMeterSensorLabel) PWR Meter Sensor Select (rsfsp_confPWRMeterSensorSelect) PWR Meter External Sensor (rsfsp_confPWRMeterExtSensor)

Revision	Date	Note
		<p>Power Splitter State (rsfsp_confPowerSplitterState)</p> <p>Power Splitter Insertion Loss (rsfsp_confPowerSplitterInsertionLoss)</p> <p>Power Splitter Path Loss (rsfsp_confPowerSplitterPathLoss)</p> <p>Harmonic Distortion Adjust Settings (rsfsp_actHarmDistPreset)</p> <p>Get Harmonic Distortion Result Values (rsfsp_getHarmDistResultValues)</p> <p>Get First Harmonic Frequency (rsfsp_actHarmDistFirstFreq)</p> <p>- Updated functions:</p> <p>Trace IQ Set (rsfsp_confTraceIQ)</p> <p>Set Status Register (rsfsp_setStatusRegister)</p> <p>Get Status Register (rsfsp_getStatusRegister)</p> <p>Vector Signal Analysis Mode (rsfsp_confVSAMDemodMode)</p> <p>- Moved to Obsolete functions:</p> <p>Channel Power Channel Spacing (confSAMChannelSpacing)</p> <p>- Option FS-K40 (Phase Noise Measurements)</p> <p>- New functions:</p> <p>Phase Noise Scale (rsfsp_confPhasNoisScale)</p> <p>Phase Noise Autoscale Y (rsfsp_confPhasNoisAutoscaleY)</p> <p>Phase Noise Center Freq (rsfsp_confPhasNoisCenterFrq)</p> <p>Phase Noise Start And Stop Freq (rsfsp_confPhasNoisStartStopFrq)</p> <p>Phase Noise Resolution BW Type (rsfsp_confPhasNoisResBwType)</p> <p>Phase Noise Resolution BW Ratio (rsfsp_confPhasNoisResBwRatio)</p> <p>Phase Noise Ref Level (rsfsp_confPhasNoisRefLevel)</p> <p>Phase Noise Ref Level Offset (rsfsp_confPhasNoisRefLevelOffset)</p> <p>Phase Noise Auto Level (rsfsp_confPhasNoisAutoLevel)</p> <p>Phase Noise Signal Level (RF) (rsfsp_confPhasNoisSignalLevelRF)</p> <p>Phase Noise Sweep (rsfsp_confPhasNoisSweep)</p> <p>Phase Noise Sweep Count (rsfsp_confPhasNoisSweepCount)</p> <p>Phase Noise Sweep Direction (rsfsp_confPhasNoisSweepDirect)</p> <p>Phase Noise Sweep Display (rsfsp_confPhasNoisSweepDisplay)</p> <p>Phase Noise Sweep Mode (rsfsp_confPhasNoisSweepMode)</p> <p>Phase Noise Sub Channel RBW (rsfsp_confPhasNoisSubChanResBw)</p> <p>Phase Noise Sub Channel RBW Type (rsfsp_confPhasNoisSubChanResBwType)</p> <p>Phase Noise Sub Channel Sweep Count (rsfsp_confPhasNoisSubChanSweepCount)</p> <p>Phase Noise Verification State (rsfsp_confPhasNoisVerifState)</p> <p>Phase Noise Frequency Tolerance (rsfsp_confPhasNoisFreqTol)</p> <p>Phase Noise Power Tolerance (rsfsp_confPhasNoisPowerTol)</p> <p>Evaluation Range State (rsfsp_confPhasNoiseEvalRangeState)</p> <p>Evaluation Range Frequency (rsfsp_confPhasNoiseEvalRangeFreq)</p> <p>Phase Noise Limit Lines State (rsfsp_confPhasNoisLimitLineState)</p> <p>Phase Noise Limit Lines Operation (rsfsp_confPhasNoiseLimitLineOper)</p>

Revision	Date	Note
		<p>Phase Noise Limit Lines Data (rsfsp_confPhasNoisLimitLineData)</p> <p>Phase Noise Limit Lines Switch (rsfsp_confPhasNoisLimitLineSwitch)</p> <p>Phase Noise Limit Lines Shift (rsfsp_confPhasNoisLimitLineShift)</p> <p>Phase Noise Limit Lines Trace (rsfsp_confPhasNoisLimitLineTrace)</p> <p>Phase Noise Marker State (rsfsp_confPhasNoisMarkState)</p> <p>Phase Noise Marker Position (rsfsp_confPhasNoisMarkPosX)</p> <p>Phase Noise Marker to Trace (rsfsp_confPhasNoisMarkTrace)</p> <p>Phase Noise Marker All Off (rsfsp_confPhasNoisMarkerAllOff)</p> <p>Phase Noise Delta Marker State (rsfsp_confPhasNoisDeltaMarkState)</p> <p>Phase Noise Delta Marker Position (x) (rsfsp_confPhasNoisDeltaMarkPosX)</p> <p>Phase Noise Delta Marker to Trace (rsfsp_confPhasNoisDeltaMarkTrace)</p> <p>Phase Noise Delta Marker All Off (rsfsp_confPhasNoisDeltaMarkerAllOff)</p> <p>Phase Noise Spot Noise State (rsfsp_confPhasNoisSpotNoiseState)</p> <p>Phase Noise Spot Noise Position (x) (rsfsp_confPhasNoisSpotNoisePosX)</p> <p>Phase Noise Spot Noise All Off (rsfsp_confPhasNoisSpotNoiseAllOff)</p> <p>Phase Noise Trace State (rsfsp_confPhasNoisTraceState)</p> <p>Phase Noise Trace Mode (rsfsp_confPhasNoisTraceMode)</p> <p>Phase Noise Smoothing State (rsfsp_confPhasNoisSmoothState)</p> <p>Phase Noise Smoothing Aperture (rsfsp_confPhasNoisSmoothAper)</p> <p>Phase Noise Mode (rsfsp_actPhasNoisMode)</p> <p>Phase Noise Scale Auto Adjust (rsfsp_actPhasNoisScaleAutoAdj)</p> <p>Phase Noise Start Measurement (rsfsp_actPhasNoisStartMeasurement)</p> <p>Phase Noise Start Measurement And Wait for OPC (rsfsp_actPhasNoisStartMeasurementWopc)</p> <p>Phase Noise Stop Measurement (rsfsp_actPhasNoisStopMeasurement)</p> <p>Get Phase Noise Measurement Time (rsfsp_actPhasNoisMeasTime)</p> <p>Phase Noise Limit Check Result (rsfsp_actPhasNoisLimitCheckResult)</p> <p>Phase Noise Limit Check Result Clear (rsfsp_actPhasNoisLimitCheckClear)</p> <p>Get Phase Noise Spot Noise Position (y) (rsfsp_confPhasNoisSpotNoisPosY)</p> <p>Fetch Phase Noise Result (rsfsp_dataFetchPhasNoisResult)</p> <p>- FSL support</p> <p>- New functions:</p> <p>Coupled Reference Level (rsfsp_confDispCoupRefLev)</p> <p>Output Measurement Mode (rsfsp_confOutMeasMode)</p> <p>Set User Ports (rsfsp_SetUserPorts)</p> <p>Get User Ports (rsfsp_getUserPorts)</p> <p>User Output State (rsfsp_setUserOutpState)</p> <p>Frequency Mode (rsfsp_confFreqMode)</p> <p>Trace IQ Synchronization State (rsfsp_confTracelQSyncState)</p> <p>Power Save Display (rsfsp_confPwrSaveDisplay)</p> <p>Transducer Comment (rsfsp_confTransducerComment)</p> <p>Transducer View (rsfsp_confTransducerView)</p>

Revision	Date	Note
		<ul style="list-style-type: none"> Power Units (rsfsp_confPowerUnits) Average Count (rsfsp_confAverCount) Average State (rsfsp_confAverState) Average Type (rsfsp_confAverType) Marker Demodulation Continue (rsfsp_confSAMMarkDemCont) Probability Marker Position (rsfsp_confProbMarkPosition) Analog Simultaneously Demod Type (rsfsp_confVSAMASimDemodType) Analog Demodulation Frequency Span (rsfsp_confVSAMDemodFrequencySpan) Analog Demodulation AF Center (rsfsp_confVSAMDemodAFCenter) Analog Demodulation AF Start (rsfsp_confVSAMDemodAFStart) Analog Demodulation AF Stop (rsfsp_confVSAMDemodAFStop) Analog Demodulation AF Span (rsfsp_confVSAMDemodAFSpan) Analog Demodulation AF Full Span (rsfsp_confVSAMDemodAFFullSpan) Calibration Abort (rsfsp_actCalAbort) Hardcopy Abort(rsfsp_actHCCopyAbort) Modulation THD Measurement Results (rsfsp_dataModTHDMeasRes) Modulation SINAD Measurement Results (rsfsp_dataModSINADMeasRes) Fetch Noise Measurement Result (Array) (rsfsp_dataFetchNoiseMeasArray) Fetch Noise Measurement Result (Scalar) (rsfsp_dataFetchNoiseMeasScalar) - Modification: Get Analog Demod Result Values (getADemodResultValues) Vector Signal Analysis Mode (rsfsp_confVSAMDemodMode) Display Lines (rsfsp_confDLines) File Operations (rsfsp_actMemOp) Center Freq and Span (rsfsp_confSpanCenterFrq) Trigger (rsfsp_confTrg) Analog Demodulation Filter (rsfsp_confVSAMDemodFilt) RF Input Attenuator Auto (rsfsp_confRFInAttAuto)
1.7	04/2005	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 3.50 - List of options: - K5 GSM/EDGE (3.50) - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.50) - K70 Vector Signal Analysis (3.50) - K72 3GPP FDD Base Station Test (3.50) - K73 3GPP FDD User Equipment Test (3.50) - K74 3GPP HSDPA Base Station Test (3.50) - K76 TD-SCDMA Base Station Test (3.50) - K77 TD-SCDMA Mobile Station Test (3.50) - K82 cdma2000 Base Station Test (3.50) - K83 cdma2000/1xEV-DV Mobile Station Test (3.50)

Revision	Date	Note
		<ul style="list-style-type: none"> - K84 1xEV-DO Base Station Test (3.50) - K85 1xEV-DO Mobile Station Test (3.50) - K90 WLAN 802.11 Tests (3.50) - FSP-K91 option removed from the driver code, this option is not available for FSP - Fixed helps for all WLAN functions, options FSQ-K90 and FSQ-K91 were changed to FSP-K90 <p>- Added software support for options FSU-B21 and FSP-B9</p> <p>- List of updated and new functions follow:</p> <p>Configuration Functions</p> <p>General Device Settings</p> <p>Frequency Group</p> <p style="padding-left: 20px;">Frequency Axis Mode (rsfsp_confFreqAxisMode)</p> <p>Input Group</p> <p style="padding-left: 20px;">RF Input Attenuator Auto (rsfsp_confRFInAttAuto)</p> <p>External Mixer</p> <p style="padding-left: 20px;">External Mixer (rsfsp_confExtMix)</p> <p style="padding-left: 20px;">External Mixer LO Level (rsfsp_confExtMixerLOLevel)</p> <p style="padding-left: 20px;">External Mixer Signal (rsfsp_confExtMixSignal)</p> <p style="padding-left: 20px;">External Mixer Parameters (rsfsp_confExtMixParameters)</p> <p style="padding-left: 20px;">Default Conversion Loss (rsfsp_confDefConvLoss)</p> <p style="padding-left: 20px;">Conversion Loss Table (rsfsp_confExtMixLossTab)</p> <p style="padding-left: 20px;">Conversion Loss Table Delete (rsfsp_confExtMixLossTabDelete)</p> <p>Sweep Group</p> <p style="padding-left: 20px;">Sweep Time Auto (rsfsp_confSweepTimeAuto)</p> <p>System Setup Group</p> <p style="padding-left: 20px;">Generate Transducer Factor (rsfsp_confTransducerFactor)</p> <p>List Power Group</p> <p style="padding-left: 20px;">List Power Sequence (rsfsp_confListPwrSeq)</p> <p style="padding-left: 20px;">Meas List Power Seq (rsfsp_actMeasListPwrSeq)</p> <p style="padding-left: 20px;">List Power Set (rsfsp_confListPwrSet)</p> <p style="padding-left: 20px;">List Power State (rsfsp_confListPwrState)</p> <p>Burst Power Group</p> <p style="padding-left: 20px;">Burst Power Sequence (rsfsp_confBurstPwrSeq)</p> <p style="padding-left: 20px;">Meas Burst Power Seq (rsfsp_actMeasBurstPwrSeq)</p> <p>Tracking Generator Mode</p> <p style="padding-left: 20px;">Tracking Generator Src Values (rsfsp_confTrackSrc)</p> <p style="padding-left: 20px;">Tracking Generator Ref Level (rsfsp_confTrackRefLevel)</p> <p style="padding-left: 20px;">Tracking Generator Ref Position (rsfsp_confTrackRefPosition)</p> <p style="padding-left: 20px;">Tracking Generator Modulation (rsfsp_confTrackModulation)</p> <p style="padding-left: 20px;">Tracking Generator Ext Src (rsfsp_confTrackExtSrc)</p> <p style="padding-left: 20px;">Tracking Generator Ext Select (rsfsp_confTrackExtSel)</p>

Revision	Date	Note
		<p>Tracking Generator Ext Sweep (rsfsp_confTrackExtFreqSweep)</p> <p>Tracking Generator Ext Power (rsfsp_confTrackExtPower)</p> <p>Tracking Generator Ext Src Ref (rsfsp_confTrackExtSrcRef)</p> <p>Vector Signal Analysis Mode</p> <p> Config Group - Analog Demod</p> <p> Analog Demodulation Filter (rsfsp_confVSAMDemodFilt)</p> <p>GSM / EDGE MS/BTS Analysis Mode</p> <p> GSM Burst Zoom Transition Number (rsfsp_confGSMBurstZoomTransitionNumber)</p> <p> GSM Multi Carrier Mode State (rsfsp_confGSMMultiCarrierModeState)</p> <p>Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS</p> <p> Configure WCDPower Measurement (rsfsp_confWCDPMeas)</p> <p> WCDP Measurement Mode (rsfsp_confWCDPMeasMode)</p> <p>CDP Measurement Setting</p> <p> CDP RRC Filter (rsfsp_confCDPRrcFilter)</p> <p> CDP Eliminate Tail Chips (rsfsp_confCDPEliminateTailChips)</p> <p> CDP Slot Difference (rsfsp_confCDPSlotDifference)</p> <p> CDP Slot Sets Count (rsfsp_confCDPSlotSetsCount)</p> <p> CDP Slot Set To Analyze (rsfsp_actCDPSlotSetToAnalyze)</p> <p> CDP Scrambling Code (rsfsp_confCDPLCode)</p> <p> CDP Long Code Mode (rsfsp_confCDPLCodeMode)</p> <p> CDP Constellation Parameter B (rsfsp_confCDPConstellationParameterB)</p> <p> CDP Power Control (rsfsp_confCDPPControl)</p> <p>WCDP Channel Table (MS)</p> <p> WCDP MS Channel HS-DPCCH (rsfsp_confWCDPMSChHSDPCCH)</p> <p>WCDP Channel Table (BTS)</p> <p> WCDP Channel Table (rsfsp_confWCDPChTable)</p> <p> WCDP Channel Table File (rsfsp_confWCDPChTableFile)</p> <p> WCDP Channel Table Name (rsfsp_confWCDPChTableName)</p> <p> WCDP Channel Table Copy (rsfsp_confWCDPChTableCopy)</p> <p> WCDP Channel Table Delete (rsfsp_confWCDPChTableDelete)</p> <p> WCDP Channel Table Comment (rsfsp_confWCDPChTableComment)</p> <p> WCDP Channel Table Data (rsfsp_confWCDPChTableData)</p> <p> WCDP Channel Table Catalog (rsfsp_confWCDPChTableCatalog)</p> <p>Wireless LAN (WLAN)</p> <p> General Settings</p> <p> Signal Characteristics</p> <p> WLAN Autoscale Y (rsfsp_confWLANAutoscaleY)</p> <p> WLAN Ref Level (rsfsp_confWLANRefLevel)</p> <p> WLAN RF Attenuation (rsfsp_confWLANRFAttenuation)</p> <p> WLAN Input Electronic Attn (rsfsp_confWLANInEAtt)</p> <p> WLAN Input Electronic Attn Auto (rsfsp_confWLANInEAttAuto)</p> <p> WLAN Input Electronic Attn State (rsfsp_confWLANInEAttState)</p> <p> WLAN Input YIG Filter (rsfsp_confWLANInputYIGFilter)</p>

Revision	Date	Note
		<p>WLAN Sweep Count (rsfsp_confWLANsweepCount)</p> <p>Unit</p> <p>WLAN Preamble Error Units (rsfsp_confWLANPreambleErrorUnits)</p> <p>Limits</p> <p>WLAN All Limits (rsfsp_confWLANAllLimits)</p> <p>WLAN EVM All Carriers (rsfsp_confWLANLimitEVMAAllCarriers)</p> <p>WLAN EVM Data Carriers (rsfsp_confWLANLimitEVMDataCarriers)</p> <p>WLAN EVM Pilot Carriers (rsfsp_confWLANLimitEVMPilotCarriers)</p> <p>WLAN IQ Offset Error (rsfsp_confWLANLimitIQOffsetError)</p> <p>WLAN Frequency Error (rsfsp_confWLANLimitFerr)</p> <p>WLAN Symbol Error (rsfsp_confWLANLimitSymbolErr)</p> <p>Noise Measurement</p> <p>Measurement Settings</p> <p>Generator Settings</p> <p>Noise Generator Settings (rsfsp_confNoiseGeneratorSettings)</p> <p>Action/Status Functions</p> <p>General Device Settings</p> <p>Marker Group</p> <p>Delta Marker Link (rsfsp_actDMarkLink)</p> <p>Trigger Group</p> <p>Continue Measurement (rsfsp_actContinueMeasurement)</p> <p>File Group</p> <p>File Decimal Separator (rsfsp_confFileDecSep)</p> <p>Store Trace to File (rsfsp_actSAMStoreTraceToFile)</p> <p>Store Spurious Emissions to File (rsfsp_actSAMStoreSETToFile)</p> <p>File Directory Path (rsfsp_actFileCatPath)</p> <p>List Power Group</p> <p>Get List Power Result (rsfsp_actListPwrResult)</p> <p>Burst Power Group</p> <p>Get Burst Power Result (rsfsp_actBurstPwrResult)</p> <p>Get Burst Power Result Min (rsfsp_actBurstPwrResultMin)</p> <p>Signal Analysis Mode</p> <p>Measure Group</p> <p>Channel Power / ACP</p> <p>Adapt to Signal</p> <p>Channel Power Start Slot (rsfsp_actSAMChannelPowerStartSlot)</p> <p>Channel Power Stop Slot (rsfsp_actSAMChannelPowerStopSlot)</p> <p>Channel Power Autorange (rsfsp_actSAMChannelPowerAutorange)</p> <p>Channel Power Autorange Result</p> <p>(rsfsp_actSAMChannelPowerAutorangeResult)</p> <p>Channel Power Auto Adjust (rsfsp_actSAMChannelPowerAutoAdjust)</p> <p>Channel Power Auto Adjust Result</p> <p>(rsfsp_actSAMChannelPowerAutoAdjustResult)</p>

Revision	Date	Note
		<p>Tracking Generator Mode</p> <ul style="list-style-type: none"> Tracking Generator Mode (rsfsp_actTrackMode) Tracking Generator Corr State (rsfsp_actTrackCorrState) Tracking Generator Correction (rsfsp_actTrackCorr) <p>GSM / EDGE MS/BTS Analysis Mode</p> <ul style="list-style-type: none"> GSM Burst Section (rsfsp_actGSMBurstSection) <p>Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS</p> <p>Lines Group</p> <ul style="list-style-type: none"> SEM Limit Line Check (rsfsp_actSEMLimitLineCheck) <p>Wireless LAN (WLAN)</p> <ul style="list-style-type: none"> WLAN Measurement Mode (rsfsp_actWLANMeasMode) WLAN Get IQ Sample Rate (rsfsp_actWLANGetIQSRate) WLAN Level Auto Adjust (rsfsp_actWLANAutoAdj) <p>Markers</p> <ul style="list-style-type: none"> WLAN Get Channel Maximum Power (rsfsp_actWLANGetChannelMaximumPower) <p>Limits</p> <ul style="list-style-type: none"> WLAN All Limits Results (rsfsp_actWLANAllLimitsResults) WLAN EVM All Carriers Result (rsfsp_actWLANLimitEVMAllCarriersResult) WLAN EVM Data Carriers Result (rsfsp_actWLANLimitEVMDataCarriersResult) WLAN EVM Pilot Carriers Result (rsfsp_actWLANLimitEVMPIlotCarriersResult) WLAN IQ Offset Error Result (rsfsp_actWLANLimitIQOffsetErrorResult) WLAN Frequency Error Result (rsfsp_actWLANLimitFerrResult) WLAN Symbol Error Result (rsfsp_actWLANLimitSymbolErrResult) WLAN Spectrum Mask Limit (rsfsp_actWLANspectrumMaskLimit) WLAN Limit Check Result (rsfsp_actWLANLimitCheckResult) <p>Data Functions</p> <p>Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS</p> <ul style="list-style-type: none"> Read WCDP Trace Data (rsfsp_dataReadTraceWCDP) <p>Utility Functions</p> <ul style="list-style-type: none"> Set Status Register (rsfsp_setStatusRegister) Get Status Register (rsfsp_getStatusRegister) <p>- Code maintenance:</p> <ul style="list-style-type: none"> - I/O conversion specification fixed: <ul style="list-style-type: none"> Input: "%le" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean Output: "%.12f" for ViReal64, "%ld" for ViInt32, "%hu" for ViBoolean - System locale are set to default "C" - Renamed functions (old prototypes are moved to compatibility group): <ul style="list-style-type: none"> Channel Power Trigger Spacing (rsfsp_confSAMTrigSpacing) <ul style="list-style-type: none"> changed to Channel Power Channel Spacing (rsfsp_confSAMChannelSpacing) Channel Power Trigger Count (rsfsp_confSAMTrigCount) <ul style="list-style-type: none"> changed to Channel Power Carrier Count (rsfsp_confSAMCarrierCount) - Description of Channel Power Type parameter changed, code improved

Revision	Date	Note
		<p>Channel Power Meas Mode (rsfsp_confSAMMarkChPowMeas) Adjust Channel Power Settings (rsfsp_actSAMCPSet) Get Channel Power Value (rsfsp_actSAMMarkPowerValueExt) Get Occupied Bandwidth Value (rsfsp_actSAMMarkPowerBandValue)</p> <p>- Parameter range extended, description changed</p> <p>Channel Power Reference Manual (rsfsp_confSAMReferenceMan) Resolution BW (rsfsp_confResbw)</p> <p>- Trace IQ Group moved in the FP to Trace Group</p> <p>- Fixed code (description)</p> <p>Channel Power Standard (rsfsp_confSAMMarkChPowChanStandard) Channel Power Auto Adjust Result (rsfsp_actSAMChannelPowerAutoAdjustResult) Channel Power Auto Adjust Result (rsfsp_actSAMChannelPowerAutorangeResult) Get Peaks Values (rsfsp_getPeaksValues) Read WLAN Trace Data (rsfsp_dataReadTraceWLAN) Read C2k CDP Trace Data (rsfsp_dataReadTraceC2kCDP)</p>
1.6.1	11/2004	<p>Modifications</p> <p>- Bugfixing and code maintenance:</p> <p>rsfsp_confHCComment rsfsp_confSAMMarkDemod rsfsp_confCDPSetStd rsfsp_confWCDPMSChTableDelete rsfsp_getPeaksValues rsfsp_actGSMSPurMeasMode rsfsp_dataReadSpectrum rsfsp_dataFetchPTemRef rsfsp_dataReadBurstRef</p>
1.6	09/2004	<p>Modifications</p> <p>- New functions:</p> <p>rsfsp_actHCCopyToFile</p> <p>- Fixed functions:</p> <p>rsfsp_confNoiseGainTraceSettings rsfsp_confNoiseTraceSettings rsfsp_confNoiseLossInputSettings rsfsp_confNoiseLossOutputSettings rsfsp_confNoiseRefLevel rsfsp_confSAMMarkChPowMeas rsfsp_setStatusRegister</p>
1.5	04/2004	<p>Modifications</p> <p>Driver update for FSP Spectrum Analyzer Firmware 2.31/3.31</p> <p>List of updated options</p> <p>- K5 GSM/EDGE (2.30/3.30)</p>

Revision	Date	Note
		<ul style="list-style-type: none"> - K72 3GPP FDD Base Station Test (2.30/3.30) - K73 3GPP FDD User Equipment Test (2.30/3.30) - K82 cdma2000 Base Station Test (2.30/3.30) <p>List of new options:</p> <ul style="list-style-type: none"> - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (2.30/3.30) - K74 3GPP HSDPA Base Station Test (2.30/3.30) - K76 TD-SCDMA Base Station Test (2.30/3.30) - K77 TD-SCDMA Mobile Station Test (2.30/3.30) - K83 cdma2000/1xEV-DV Mobile Station Test (2.30/3.30) - K84 1xEV-DO Base Station Test (2.30/3.30) - K85 1xEV-DO Mobile Station Test (2.30/3.30) - K90 WLAN 802.11a TX Tests (2.30/3.30) (ported from FSQ driver) <p>--- General Issues ---</p> <ul style="list-style-type: none"> - Status checking added to the functions where it was missing (rsfsp_sysStatus) - Problem with precision of values fixed (loss of digits) <ul style="list-style-type: none"> Formatting functions uses for double values "%Lf" Scanning functions uses for double values "%Le" <p>--- Updated functions (Base + Misc) ---</p> <p>Channel Power Trigger Count (rsfsp_confSAMTrigCount)</p> <ul style="list-style-type: none"> - value range extended <p>Channel Power Standard (rsfsp_confSAMMarkChPowChanStandard)</p> <ul style="list-style-type: none"> - new WLAN standards added <p>Coupling Settings (rsfsp_confCoupExt)</p> <ul style="list-style-type: none"> - Filter Type range extended <p>Analog Demodulation Type (rsfsp_confVSAMADemodType)</p> <ul style="list-style-type: none"> - PM modulation added <p>Get Analog Demod Value (rsfsp_actVSAMMarkerADemod)</p> <ul style="list-style-type: none"> - AM and PM modulation added <p>Signal Statistics (rsfsp_confSAMSigStat) - added additional parameter's items</p> <p>Get N dB Down Marker Value (rsfsp_actSAMMarkNdBDValue)</p> <ul style="list-style-type: none"> - Also available in zero span mode <p>Emulation (rsfsp_confEmulation)</p> <ul style="list-style-type: none"> - parameter values added <p>Analog Demodulation Demod BW (rsfsp_confVSAMDemodBW)</p> <ul style="list-style-type: none"> - parameter values added <p>Analog Demodulation BW (rsfsp_setADEMBandwidth)</p> <ul style="list-style-type: none"> - parameter values added <p>Analog Demod RF Param (rsfsp_confVSAMADemodRFParam)</p> <ul style="list-style-type: none"> - parameter values added

Revision	Date	Note
		<p>Limit Lines State (rsfsp_confLimitLineState) - added 'comment' parameter value</p> <p>Limit Lines Parameters (rsfsp_confLimitLineParamExt) - moved to obsolete functions</p> <p>Set Limit Lines Offset (rsfsp_actSetLimitLinesOffset) - moved to obsolete functions</p> <p>Marker Opt (rsfsp_confMarkOpt) - fixed control description</p> <p>--- New functions (Base + Misc) ---</p> <p>Trigger Delay Compensation (rsfsp_confTrgDelayComp)</p> <p>Get Sweep Count (rsfsp_getSweepCount)</p> <p>Frequency Axis Mode (rsfsp_confFreqAxisMode)</p> <p>Setup Transducer Ref Level Adj (rsfsp_confTransducerRefLevAdj)</p> <p>Analog Demod Zero Phase Ref Point (rsfsp_confVSAMADemodZeroPhase)</p> <p>Analog Demod Phase Wrap (rsfsp_confVSAMADemodPhaseWrap)</p> <p>Analog Demod PM Units (rsfsp_confVSAMADemodPMUnits)</p> <p>Limit Lines Data (rsfsp_confLimitLineData)</p> <p>Limit Lines Shift (rsfsp_confLimitLineShift)</p> <p>Limit Lines Switch (rsfsp_confLimitLineSwitch)</p> <p>Limit Lines Trace (rsfsp_confLimitLineTrace)</p> <p>Limit Lines Mode (rsfsp_confLimitLineMode)</p> <p>Limit Lines Units (rsfsp_confLimitLineUnits)</p> <p>Limit Lines Domain (rsfsp_confLimitLineDomain)</p> <p>Limit Lines Offset (rsfsp_confLimitLineOffset)</p> <p>Limit Lines Margin (rsfsp_confLimitLineMargin)</p> <p>Limit Lines Threshold (rsfsp_confLimitLineThreshold)</p> <p>Limit Check Result Clear (rsfsp_actLimitCheckClear)</p> <p>Limit Lines Measurement Type (rsfsp_confLimitLineMeasType) --- Renamed (thus new) functions (obsolete group) ---</p> <p>CDP Slot (rsfsp_confCDPSlot) - formerly known as CDP CPICH Slot - option added</p> <p>CDP PN Offset (rsfsp_confCDPPNOffset) - formerly known as CDP C2k PN Offset (rsfsp_confC2kCDPPNOffset) - created alias, option added</p> <p>CDP IQ Length (rsfsp_confCDPIQLength) - formerly known as CDP C2k IQ Length (rsfsp_confC2kCDPIQLength) - created alias, option added</p> <p>CDP Order (rsfsp_confCDPOrder) - formerly known as CDP C2k Order (rsfsp_confC2kCDPOrder) - created alias, option added</p> <p>CDP Timing And Phase Offset (rsfsp_confCDPTPM)</p>

Revision	Date	Note
		<ul style="list-style-type: none"> - formerly known as CDP C2k Timing And Phase Offs (rsfsp_confC2kCDPTPM) - created alias, option added --- Updated functions (K5) --- MS Set Channel (rsfsp_actMSChannel) <ul style="list-style-type: none"> - description changed --- New functions (K5) --- GSM Sync Search (rsfsp_confGSMSyncSearch) GSM Burst Search (rsfsp_confGSMBurstSearch) GSM Burst Search Threshold (rsfsp_confGSMBurstSearchThreshold) GSM Burst Time Meas High Resolution (rsfsp_confGSMBurstTimeMeasHighResolution) GSM Burst Meas Filter (rsfsp_confGSMBurstMeasFilter) GSM Trigger Free Run (rsfsp_actGSMTriggerFreeRun) Read Multi Frame Data (rsfsp_readMultiFrameData) <ul style="list-style-type: none"> --- Updated functions (K72/73/K74) --- WCDP Channel Table Data (rsfsp_confWCDPChTableData) <ul style="list-style-type: none"> - channel type (former pitch flag) is improved Read WCDP Trace Data (rsfsp_dataReadTraceWCDP) <ul style="list-style-type: none"> - CWCDp and ABITstream added, functionality improved Read WCDMA Trace Data (rsfsp_dataReadTraceWCDMA) <ul style="list-style-type: none"> - description update, functionality improved WCDP Measurement Mode (rsfsp_confWCDPMeasMode) <ul style="list-style-type: none"> - new modes added, description changed Get WCDP Measurement (rsfsp_actWCDPMarkMeas) <ul style="list-style-type: none"> - new meas added, description changed WCDPower Mode (rsfsp_actWCDPMode) <ul style="list-style-type: none"> - option added, description changed WCDPower MS Mode (rsfsp_actWCDPMSMode) <ul style="list-style-type: none"> - option added, description changed --- New functions (K72/73/K74) --- CDP Frame to Analyze (rsfsp_confCDPFrameAnalyze) SEM Limit Line Check (rsfsp_actSEMLimitLineCheck) CDP Analysis Base (rsfsp_confCDPAnalysisBase) CDP Overview Display (rsfsp_confCDPOverviewDisplay) <ul style="list-style-type: none"> --- Updated functions (K82/K83/K84/K85) --- Get C2k CDP Measurement (rsfsp_actC2kCDPMarkMeas) <ul style="list-style-type: none"> - description changed Configure C2k Band Class (rsfsp_confC2kBandClass) <ul style="list-style-type: none"> - additional classes added, skipped optional "[:BTS]", option added Configure C2k Measurement (rsfsp_confC2kCDPMeas)

Revision	Date	Note
		<ul style="list-style-type: none"> - skipped optional "[BTS]", option added, parameter's item added <p>CDP Measurement Mode (rsfsp_confC2kCDPMeasMode)</p> <ul style="list-style-type: none"> - option added, parameter items added <p>SEM Limit Line (rsfsp_confSEMLimitLine)</p> <ul style="list-style-type: none"> - option added <p>CDP Marker To (rsfsp_actCDPMarkTo)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table File (rsfsp_confC2kCDPChTableFile)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table Name (rsfsp_confC2kCDPChTableName)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table Data (rsfsp_confC2kCDPChTableData)</p> <ul style="list-style-type: none"> - option added, parameters adjusted for options <p>CDP C2k Channel Table Comment (rsfsp_confC2kCDPChTableComment)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table Copy (rsfsp_confC2kCDPChTableCopy)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table Delete (rsfsp_confC2kCDPChTableDelete)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table Catalog (rsfsp_confC2kCDPChTableCatalog)</p> <ul style="list-style-type: none"> - option added <p>CDP C2k Channel Table (rsfsp_confC2kCDPChTable)</p> <ul style="list-style-type: none"> - option added <p>C2k CDPower Mode (rsfsp_actC2kCDPMode)</p> <ul style="list-style-type: none"> - description changed <p>CDP Inactive Channel Treshold (rsfsp_confCDPICT)</p> <ul style="list-style-type: none"> - option added <p>CDP Side Band (rsfsp_confCDPSBand)</p> <ul style="list-style-type: none"> - option added <p>CDP Level Auto Adjust (rsfsp_actCDPAutoAdj)</p> <ul style="list-style-type: none"> - option added <p>CDP Code Number (rsfsp_confCDPCodeNum)</p> <ul style="list-style-type: none"> - option added <p>CDP Signal Mapping (rsfsp_confCDPSigMap)</p> <ul style="list-style-type: none"> - option added <p>CDP Spreading Factor (rsfsp_confCDPSFactor)</p> <ul style="list-style-type: none"> - option added <p>CDP Normalize (rsfsp_confCDPNormalize)</p> <ul style="list-style-type: none"> - option added <p>CDP Q Invert (rsfsp_confCDPQInvert)</p> <ul style="list-style-type: none"> - option added <p>CDP Preference (rsfsp_confCDPPref)</p> <ul style="list-style-type: none"> - option added, additional item added

Revision	Date	Note
		<p>CDP C2k IQ Length (rsfsp_confC2kCDPIQLength) - option added, range checking changed</p> <p>CDP C2k Order (rsfsp_confC2kCDPOrder) - option added</p> <p>CDP C2k Timing And Phase Offs (rsfsp_confC2kCDPTPM) - option added</p> <p>Read C2k Trace Data (rsfsp_dataReadTraceC2k) - option added, functionality improved</p> <p>--- New functions (K82/K83/K84/K85) ---</p> <p>Read C2k CDP Trace Data (rsfsp_dataReadTraceC2kCDP)</p> <p>CDP C2k Channel Table Restore (rsfsp_confC2kCDPChTableRestore)</p> <p>C2k CDPower MS Mode (rsfsp_actC2kCDPMSMode)</p> <p>CDP Long Code Mask (rsfsp_confCDPLCodeMask)</p> <p>CDP Long Code Offset (rsfsp_confCDPLCodeOffset)</p> <p>Get 1xEV-DO CDP Measurement (rsfsp_actEVDOPMarkMeas)</p> <p>Get 1xEV-DO CDP MS Measurement (rsfsp_actEVDOPMSMarkMeas)</p> <p>PVT Limit Line (rsfsp_confPVTLimitLine)</p> <p>CDP RF Slot (rsfsp_confCDPRFSlot)</p> <p>1xEV-DO CDPower Mode (rsfsp_actEVDOPMode)</p> <p>1xEV-DO CDPower MS Mode (rsfsp_actEVDOPMSMode)</p> <p>CDP Signal Mapping Mode (rsfsp_confCDPSigMapMode)</p> <p>CDP Channel Type (rsfsp_confCDPChannelType)</p> <p>CDP Averaging (rsfsp_confCDPAveraging)</p> <p>CDP Operation Mode (rsfsp_confCDPOperationMode)</p> <p>--- Updated functions (K76/K77) ---</p> <p>CDP Scrambling Code (rsfsp_confCDPLCode) - option added</p> <p>--- New functions (K76/K77) ---</p> <p>Get TD-SCDMA CDP Measurement (rsfsp_actTDSCDMACDPMarkMeas)</p> <p>Configure CDP Measurement (rsfsp_confCDPMeas)</p> <p>CDP Channel Table Order (rsfsp_confCDPChTableOrder)</p> <p>CDP Channel Table (rsfsp_confCDPChTable)</p> <p>CDP Channel Table File (rsfsp_confCDPChTableFile)</p> <p>CDP Channel Table Name (rsfsp_confCDPChTableName)</p> <p>CDP Channel Table Copy (rsfsp_confCDPChTableCopy)</p> <p>CDP Channel Table Delete (rsfsp_confCDPChTableDelete)</p> <p>CDP Channel Table Comment (rsfsp_confCDPChTableComment)</p> <p>CDP Channel Table Data (rsfsp_confCDPChTableData)</p> <p>CDP Channel Table Catalog (rsfsp_confCDPChTableCatalog)</p> <p>CDP Channel Table Midamble Shift (rsfsp_confCDPChTableMidambleShift)</p> <p>CDP Switching Point (rsfsp_confCDPSwitchingPoint)</p>

Revision	Date	Note
		<p>CDP Subframes (rsfsp_confCDPSubframes)</p> <p>TD-SCDMA CDPower Mode (rsfsp_actTDSCDMACDPMode)</p> <p>TD-SCDMA CDPower MS Mode (rsfsp_actTDSCDMACDPMSMode)</p> <p>CDP Standard (rsfsp_confCDPStandard)</p> <p>CDP Midamble Shift (rsfsp_confCDPMidambleShift)</p> <p>Read CDP Trace Data (rsfsp_dataReadTraceCDP)</p> <p>--- New functions (K9) ---</p> <p>PWR Meter Frequency (rsfsp_confPMetFrequency)</p> <p>PWR Meter Frequency Coupling (rsfsp_confPMetFrequencyCoupling)</p> <p>PWR Meter Units (rsfsp_confPMetUnits)</p> <p>PWR Meter Meas Time (rsfsp_confPMetMeasTime)</p> <p>PWR Meter Result Display (rsfsp_confPMetResultDisplay)</p> <p>PWR Meter State (rsfsp_actPMetState)</p> <p>PWR Meter Sensor Zeroing (rsfsp_actPMetSensorZeroing)</p> <p>PWR Meter Reference Value (rsfsp_actPMetReferenceValue)</p> <p>Fetch PWR Meter Result (rsfsp_dataFetchPMetResult)</p> <p>Read PWR Meter Result (rsfsp_dataReadPMetResult)</p> <p>--- New functions (K30) ---</p> <p>Noise Measurement Mode (rsfsp_actNoiseMeasMode)</p> <p>Fetch Noise Measurement Result (Array) (rsfsp_dataFetchNoiseMeasArray)</p> <p>Fetch Noise Measurement Result (Scalar) (rsfsp_dataFetchNoiseMeasScalar)</p> <p>Noise Frequency Measurement (rsfsp_confNoiseFrequencyMeasurement)</p> <p>Noise Frequency (rsfsp_confNoiseFrequency)</p> <p>Noise Start Frequency (rsfsp_confNoiseStartFrequency)</p> <p>Noise Stop Frequency (rsfsp_confNoiseStopFrequency)</p> <p>Noise Step Frequency (rsfsp_confNoiseStepFrequency)</p> <p>Noise Frequency Table (rsfsp_confNoiseFrequencyTable)</p> <p>Noise Fixed IF Frequency (rsfsp_confNoiseFixedIFFrequency)</p> <p>Noise LO Frequency (rsfsp_confNoiseLOFrequency)</p> <p>Noise Image Rejection (rsfsp_confNoiseImageRejection)</p> <p>Noise DUT Type (rsfsp_confNoiseDUTType)</p> <p>Noise 2nd Stage Correction (rsfsp_confNoise2ndStageCorrection)</p> <p>Noise 2nd Stage Correction State (rsfsp_confNoise2ndStageCorrectionState)</p> <p>Noise Resolution Bandwidth (rsfsp_confNoiseRBW)</p> <p>Noise Sweep Time (rsfsp_confNoiseSweepTime)</p> <p>Noise DUT Settling Time (rsfsp_confNoiseDUTSettlingTime)</p> <p>Noise DUT Range (rsfsp_confNoiseDUTRange)</p> <p>Noise Average (rsfsp_confNoiseAverage)</p> <p>Noise RF Attenuation (rsfsp_confNoiseRFAttenuation)</p> <p>Noise Ref Level (rsfsp_confNoiseRefLevel)</p> <p>Noise Pre-selector (rsfsp_confNoisePreselector)</p>

Revision	Date	Note
		<p>Noise Pre-amplifier (rsfsp_confNoisePreamplifier)</p> <p>Noise Generator Automatic Control (rsfsp_confNoiseGeneratorAuto)</p> <p>Noise Generator Settings (rsfsp_confNoiseGeneratorSettings)</p> <p>Noise Generator Level (rsfsp_confNoiseGeneratorLevel)</p> <p>Noise Generator Frequency (rsfsp_confNoiseGeneratorFrequency)</p> <p>Noise ENR Settings (rsfsp_confNoiseENRSettings)</p> <p>Noise ENR Table (rsfsp_confNoiseENRTable)</p> <p>Noise Loss Input Settings (rsfsp_confNoiseLossInputSettings)</p> <p>Noise Loss Input Table (rsfsp_confNoiseLossInputTable)</p> <p>Noise Loss Output Settings (rsfsp_confNoiseLossOutputSettings)</p> <p>Noise Loss Output Table (rsfsp_confNoiseLossOutputTable)</p> <p>Noise Trace Display (rsfsp_confNoiseTraceDisplay)</p> <p>Noise Trace Settings (rsfsp_confNoiseTraceSettings)</p> <p>Noise Gain Trace Settings (rsfsp_confNoiseGainTraceSettings)</p> <p>--- New functions (K90/K91) ---</p> <p>Set Active Window (rsfsp_confSetActiveWindow)</p> <p>WLAN Standard (rsfsp_confWLANStandard)</p> <p>WLAN Center Frequency (rsfsp_confWLANCenterFrequency)</p> <p>WLAN Channel No (rsfsp_confWLANChannelNo)</p> <p>WLAN Auto Level (rsfsp_confWLANAutoLevel)</p> <p>WLAN External Attenuation (rsfsp_confWLANExtAtt)</p> <p>WLAN Signal Level (RF) (rsfsp_confWLANSignalLevelRF)</p> <p>WLAN Signal Level (Baseband) (rsfsp_confWLANSignalLevelBaseband)</p> <p>WLAN Capture Time (rsfsp_confWLANCaptureTime)</p> <p>WLAN Overall Burst Count (rsfsp_confWLANOverallBurstCount)</p> <p>WLAN Trigger Mode (rsfsp_confWLANTriggerMode)</p> <p>WLAN Trigger Offset (rsfsp_confWLANTriggerOffset)</p> <p>WLAN Trigger Level (rsfsp_confWLANTriggerLevel)</p> <p>WLAN Swap IQ (rsfsp_confWLANSwapIQ)</p> <p>WLAN Baseband Input (rsfsp_confWLANBasebandInput)</p> <p>WLAN IQ Input (rsfsp_confWLANIQInput)</p> <p>WLAN Balanced Input (rsfsp_confWLANBalancedInput)</p> <p>WLAN Low Pass Input (rsfsp_confWLANLowPassInput)</p> <p>WLAN Dither Input (rsfsp_confWLANDitherInput)</p> <p>WLAN Signal Symbol Field (rsfsp_confWLANSignalSymbolField)</p> <p>WLAN Burst Type (rsfsp_confWLANBurstType)</p> <p>WLAN Demodulator (rsfsp_confWLANDemodulator)</p> <p>WLAN PSDU Modulation (rsfsp_confWLANPSDUModulation)</p> <p>WLAN Equal Burst Length (rsfsp_confWLANEqualBurstLength)</p> <p>WLAN No of Data Symbols (rsfsp_confWLANNoDataSymbols)</p> <p>WLAN Min (Max) No of Data Symbols (rsfsp_confWLANMinMaxNoDataSymbols)</p> <p>WLAN Channel Estimation in Preamble and Payload (rsfsp_confWLANChanEstPreambPayl)</p>

Revision	Date	Note
		WLAN Tracking Phase (rsfsp_confWLANTrackingPhase) WLAN Tracking Timing (rsfsp_confWLANTrackingTiming) WLAN Tracking Level (rsfsp_confWLANTrackingLevel) WLAN Gating (rsfsp_confWLANGating) WLAN Gate Delay (rsfsp_confWLANGateDelay) WLAN Gate Length (rsfsp_confWLANGateLength) WLAN Marker State (rsfsp_confWLANMarkerState) WLAN Marker All Off (rsfsp_confWLANMarkerAllOff) WLAN Marker to Trace (rsfsp_confWLANMarkerTrace) WLAN Marker Position (x) (rsfsp_confWLANMarkerPositionx) WLAN Marker Position (y) (rsfsp_confWLANMarkerPositiony) WLAN Marker Carrier (rsfsp_confWLANMarkerCarrier) WLAN Marker Symbol (rsfsp_confWLANMarkerSymbol) WLAN Display Table (rsfsp_confWLANDisplayTable) WLAN Mode (rsfsp_actWLANMode) WLAN Measurement Mode (rsfsp_actWLANMeasMode) WLAN Constellation Carrier Select (rsfsp_actWLANConstellationCarrierSelect) WLAN Power Versus Time Select (rsfsp_actWLANPVTSelect) WLAN Marker Zoom (rsfsp_actWLANMarkerZoom) WLAN Get Channel Power (rsfsp_actWLANGetChannelPower) WLAN Get Marker Position (x) (rsfsp_confWLANGetMarkerPositionx) WLAN Get Marker Position (y) (rsfsp_confWLANGetMarkerPositiony) WLAN Get Marker Carrier (rsfsp_confWLANGetMarkerCarrier) WLAN Get Marker Symbol (rsfsp_confWLANGetMarkerSymbol) Fetch WLAN Burst Preamble Power (rsfsp_dataFetchWLANPreamblePower) Fetch WLAN Burst Payload Power (rsfsp_dataFetchWLANPayloadPower) Fetch WLAN Burst RMS Power (rsfsp_dataFetchWLANRMSPower) Fetch WLAN Burst Peak Power (rsfsp_dataFetchWLANPeakPower) Fetch WLAN Burst Crest Factor (rsfsp_dataFetchWLANCrestFactor) Fetch WLAN Frequency Error (rsfsp_dataFetchWLANFreqError) Fetch WLAN Symbol Error (rsfsp_dataFetchWLANSymbolError) Fetch WLAN IQ Offset Error (rsfsp_dataFetchWLANIQOffset) Fetch WLAN IQ Imbalance Error (rsfsp_dataFetchWLANGImbalance) Fetch WLAN Quadrature Offset Error (rsfsp_dataFetchWLANQuadOffset) Fetch WLAN EVM Results (rsfsp_dataFetchWLANEVMResults) Read WLAN Trace Data (rsfsp_dataReadTraceWLAN) WLAN Spectrum Mask Select (rsfsp_actWLANspectrumMaskSelect)
1.4.7	01/2004	Modifications: -Fixed functions rsfsp_confVSAMDemodMode rsfsp_actVSAMMarkerADemod, rsfsp_confDLines - bad range checking of some parameters - Added Remote-control command(s) to each FP function description

Revision	Date	Note
		<ul style="list-style-type: none"> - Sample rate value range changed rsfsp_confTraceIQ rsfsp_confTraceIQSrate) - File transfer from FSP to the PC and vice versa: rsfsp_readToFile rsfsp_writeFromFile
1.4.6	11/2003	Modifications: - LabVIEW: Changed function: RSFSP Trigger.vi
1.4.5	10/2003	Modifications: -LabWindows/CVI and VXIPnP driver Changed function: rsfsp_confTransducerDef - LabVIEW: Changed functions: RSFSP Channel Power Standard.vi RSFSP Get Status.vi
1.4.4	06/2003	Modifications: For Agilent VISA Version L01 or higher and Agilent GPIB board added "/n" in I/O functions - The associated measurement window can be selected with the numeric suffix of command TRACe<1 2>. Global variable is added to allow select measurement window with the existing trace data functions. Changed functions are: rsfsp_confSetActiveWindow rsfsp_actSAMCopyTrace rsfsp_dataReadTrace rsfsp_dataWriteTrace rsfsp_dataReadTraceWCDMA New functions are: rsfsp_dataReadTraceWCDP rsfsp_dataReadTraceC2k
1.4.3	04/2003	Modifications: - Added new Help for LabVIEW - Get Peaks Values (rsfsp_getPeaksValues) fixed command string - Marker Search Parameter (rsfsp_confSAMMarkSearchParamExt) Range checkig for Search Limits is skipped. - New function: Marker Search Limits (rsfsp_confSAMMarkSearchL imits) This driver supports the options: B2-B4, B6, B9, B10, B15, B16, B25, K5, K7, K8, K72, K73, K82
1.4.2	02/2003	Modifications:

Revision	Date	Note
		<p>- Changed help texts of FSEx compatibility functions in fp file</p> <p>This driver supports the options: B2-B4, B6, B9, B10, B15, B16, B25, K5, K7, K8, K72, K73, K82</p>
1.4.1	02/2003	<p>Modifications:</p> <p>- Fixed for use in earlier versions of VISA without TCPIP support</p> <p>This driver supports the options: B2-B4, B6, B9, B10, B15, B16, B25, K5, K7, K8, K72, K73, K82</p>
1.4	01/2003	<p>New functions:</p> <p>RF Input YIG Filter Temp Corr (rsfsp_setRFInYIGFilterTempCorr)</p> <p>Set Limit Line Spacing (rsfsp_actSetLimitLineSpacing)</p> <p>Set Param Limit Line Spacing (rsfsp_actSetParamLimitLineSpacing)</p> <p>Display Size (rsfsp_confDisplaySize)</p> <p>Emulation (rsfsp_confEmulation)</p> <p>Channel Power Trigger Spacing (rsfsp_confSAMTrigSpacing)</p> <p>Channel Power Trigger Count (rsfsp_confSAMTrigCount)</p> <p>Channel Power Reference Auto (rsfsp_confSAMReferenceAuto)</p> <p>Channel Power Reference Man (rsfsp_confSAMReferenceMan)</p> <p>MS Set User Midamble (rsfsp_confMSUserMid)</p> <p>Configure C2k Band Class (rsfsp_confC2kBandClass)</p> <p>CDP Power Control (rsfsp_confCDPPControl)</p> <p>Configure C2k Measurement (rsfsp_confC2kCDPMeas)</p> <p>CDP Measurement Mode (rsfsp_confC2kCDPMeasMode)</p> <p>CDP C2k PN Offset (rsfsp_confC2kCDPPNOffset)</p> <p>CDP C2k IQ Length (rsfsp_confC2kCDPIQLength)</p> <p>CDP C2k Order (rsfsp_confC2kCDPOrder)</p> <p>CDP C2k Timing And Phase Offs (rsfsp_confC2kCDPTPM)</p> <p>CDP C2k Channel Table (rsfsp_confC2kCDPChTable)</p> <p>CDP C2k Channel Table File (rsfsp_confC2kCDPChTableFile)</p> <p>CDP C2k Channel Table Name (rsfsp_confC2kCDPChTableName)</p> <p>CDP C2k Channel Table Copy (rsfsp_confC2kCDPChTableCopy)</p> <p>CDP C2k Channel Table Delete (rsfsp_confC2kCDPChTableDelete)</p> <p>CDP C2k Channel Table Comment (rsfsp_confC2kCDPChTableComment)</p> <p>CDP C2k Channel Table Data (rsfsp_confC2kCDPChTableData)</p> <p>CDP C2k Channel Table Catalog (rsfsp_confC2kCDPChTableCatalog)</p> <p>2k CDPower Mode (rsfsp_actC2kCDPMode)</p> <p>Get C2k CDP Measurement (rsfsp_actC2kCDPMarkMeas)</p> <p>Modified functions:</p> <p>Level Range (rsfsp_confLevelRange)</p> <p>Channel Power Meas Mode (rsfsp_confSAMMarkChPowMeas)</p> <p>CDP Inactive Channel Treshold (rsfsp_confCDPICT)</p> <p>CDP Side Band (rsfsp_confCDPSBand)</p> <p>CDP Spreading Factor (rsfsp_confCDPSFactor)</p>

Revision	Date	Note
		<p>CDP Code Number (rsfsp_confCDPCodeNum)</p> <p>CDP CPICH Slot (rsfsp_confCDPSlot)</p> <p>CDP Normalize (rsfsp_confCDPNormalize)</p> <p>CDP Q Invert (rsfsp_confCDPQInvert)</p> <p>CDP Antenna Type (rsfsp_confCDPAntennaType)</p> <p>Get Channel Power Value (rsfsp_actSAMMarkPowerValueExt)</p> <p>Adjust Channel Power Settings (rsfsp_actSAMCPSet)</p> <p>MS Set Channel (rsfsp_actMSChannel)</p> <p>CDP Level Auto Adjust (rsfsp_actCDPAutoAdj)</p> <p>CDP Marker To (rsfsp_actCDPMarkTo)</p> <p>Digital Meas Search Time (rsfsp_confVSAMDigiSearchTime)</p> <p>Instrument Options (rsfsp_OPTList)</p> <p>Original of the function Read Trace IQ Data From Memory (rsfsp_dataReadTraceIQFromMemory) is moved to the compatibility group and replaced by Read Memory I/Q Data (rsfsp_dataReadMemoryIQ)</p> <p>Service Source Cal Signal (rsfsp_actServiceSourceCalSignal)</p> <p>Read Trace I/Q Data (rsfsp_dataReadTraceIQ)</p> <p>Read Memory I/Q Data (rsfsp_dataReadMemoryIQ)</p> <p>This driver supports the options: B2-B4, B6, B9, B10, B15, B16, B25, K5, K7, K8, K72, K73, K82</p>

2. LabVIEW driver history

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
4.20.1	07/2008	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 4.20 - Driver update for FSL Spectrum Analyzer Firmware 1.6.0 - Driver update for FSV Signal Analyzer Firmware 1..05 - Added support for FSV instrument - Delay of 1 sec added for synchronization after the command INST:SEL xxxx <ul style="list-style-type: none"> - RSFSP Analyzer Mode.vi - RSFSP Vector Analyzer Mode.vi - RSFSP GSM EDGE Mode.vi - RSFSP Bluetooth Mode.vi - RSFSP WCDPower Mode.vi - RSFSP WCDPower MS Mode.vi - RSFSP C2k CDPower Mode.vi - RSFSP C2k CDPower MS Mode.vi - RSFSP 1xEV-DO CDPower Mode.vi - RSFSP 1xEV-DO CDPower MS Mode.vi - RSFSP TD-SCDMA CDPower Mode.vi - RSFSP TD-SCDMA CDPower MS Mode.vi - RSFSP WLAN Mode.vi - RSFSP WiMAX Mode.vi - RSFSP Noise Measurement Mode.vi - RSFSP Phase Noise Mode.vi - RSFSP CATV Mode.vi - VI removed: <ul style="list-style-type: none"> - RSFSP 3GPP BS Mode.vi - Updated VIs (RSFSP Is FSL.vi removed): <ul style="list-style-type: none"> - RSFSP Vector Signal Analysis Mode.vi - RSFSP Analog Demodulation Set.vi - RSFSP Analog Demod RF Param.vi - RSFSP Analog Demodulation Demod BW.vi - RSFSP WCDP Measurement Mode.vi - RSFSP CDP Set to Standard.vi - RSFSP CDP Side Band.vi - RSFSP CDP Spreading Factor.vi - RSFSP CDP Slot Difference.vi - RSFSP CDP Scrambling Type.vi - RSFSP CDP Signal Mapping.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - RSFSP CDP Constellation Parameter B.vi - RSFSP CDP Power Control.vi - RSFSP CDP Frame to Analyze.vi - RSFSP CDP IQ Length.vi - RSFSP WCDP Channel Table.vi - RSFSP WCDP Channel Table File.vi - RSFSP WCDP Channel Table Name.vi - RSFSP WCDP Channel Table Copy.vi - RSFSP WCDP Channel Table Delete.vi - RSFSP WCDP Channel Table Comment.vi - RSFSP WCDP Channel Table Data.vi - RSFSP WCDP Channel Table Catalog.vi - RSFSP WCDPower Mode.vi (command changed from WCDP into BWCD) - RSFSP Get WCDP MS Measurement.vi - RSFSP SEM Limit Line Check.vi - RSFSP Read Multi Frame Data.vi
4.20.0	02/2008	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 4.20 - List of options: <ul style="list-style-type: none"> - K5 GSM/EDGE (4.20) - K7 FM-Demodulator (4.20) - K8 Bluetooth (4.20) - K9 Power sensor measurements (4.20) - K30 Noise Figure and Gain Measurements (4.20) - K40 Phase Noise Measurements (4.20) - K70 Vector Signal Analysis (4.20) - K72 3GPP FDD Base Station Test (4.20) - K73 3GPP FDD User Equipment Test (4.20) - K74 3GPP HSDPA Base Station Test (4.20) - K76 TD-SCDMA Base Station Test (4.20) - K77 TD-SCDMA Mobile Station Test (4.20) - K82 cdma2000 Base Station Test (4.20) - K83 cdma2000/1xEV-DV Mobile Station Test (4.20) - K84 1xEV-DO Base Station Test (4.20) - K85 1xEV-DO Mobile Station Test (4.20) - K90 WLAN 802.11a/g Tests (4.20) - New VIs: <ul style="list-style-type: none"> - RSFSP Get Transducer Active.vi - RSFSP Tracking Generator Ext Send Command.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - RSFSP Get Active Limit Lines.vi - RSFSP Get ID String Factory.vi - RSFSP SEM List Evaluation State.vi - RSFSP SEM Peak Search.vi - K5 option: - New VIs: <ul style="list-style-type: none"> - RSFSP GSM Modulation Spectrum List Average.vi - RSFSP GSM Extended Slot State.vi - RSFSP GSM Extended Slot.vi - RSFSP GSM Extended Slot Common Settings.vi - RSFSP GSM Extended Slot Parameters.vi - RSFSP GSM Extended Slot Limit Line Ctrl.vi - RSFSP GSM Extended Slot Limit Lines.vi - RSFSP Read Extended Slot Ptemplate Ref.vi - RSFSP Fetch Extended Slot Ptemplate Ref.vi - K7 option: - Updated VIs: <ul style="list-style-type: none"> - RSFSP Analog Demodulation Filter.vi ... High pass filter frequency value 20 Hz, Low pass filter frequency value 23.0 kHz added - New VIs: <ul style="list-style-type: none"> - RSFSP Analog Demod Filter Weigting.vi - RSFSP Analog Demod THD Unit.vi - K8 option: - New VIs: <ul style="list-style-type: none"> - RSFSP Get BTooth Packet Data Bits.vi - RSFSP Read BTooth FM Trace.vi - K9 option: - New VIs: <ul style="list-style-type: none"> - RSFSP PWR Meter Reference Level Offset State.vi - K30 option: - New VIs: <ul style="list-style-type: none"> - RSFSP Noise X Axis Frequency Display.vi - K72/K74 options: - Updated VIs:

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - RSFSP Read WCDP Trace Data.vi ... CWCDP help updated, ATRACE2 added - RSFSP Get WCDP Measurement.vi ... PSYMBOL and ACHannel added - RSFSP WCDP Measurement Mode.vi ... Frequency Error Vs. Slot measurement added - K73 option: - New VIs: <ul style="list-style-type: none"> - RSFSP WCDP Measurement Mode.vi... Frequency Error Vs. Slot measurement added - Updated VIs: <ul style="list-style-type: none"> - RSFSP Get WCDP MS Measurement.vi ... values RHO, TOFF, EVMB, EVM, MTYP, ACH added - RSFSP Read WCDP Trace Data.vi ...RMS of EVM added - K77 option: - Updated VIs: <ul style="list-style-type: none"> - RSFSP CDP High Dynamic.vi ... available for K77. - K84 option: - New VIs: <ul style="list-style-type: none"> - RSFSP CDP PVT List Eval.vi - RSFSP CDP PVT Burst Fit.vi - RSFSP CDP PVT Restart On Fail.vi - RSFSP Read EVDO BTS Power vs Time List Evaluation.vi - Updated VIs: <ul style="list-style-type: none"> - RSFSP SEM Peaks Per Range.vi ... supported with K84 - RSFSP SEM Margin.vi ... supported with K84 - RSFSP SEM Results.vi ... supported with K84 - RSFSP Get 1xEV-DO CDP Measurement.vi ... PDMMax, PDMIn, IPMMax added - K90 option: - New VIs: <ul style="list-style-type: none"> - RSFSP WLAN SEM Measurement.vi - RSFSP WLAN StoredLoad IQ Data.vi - RSFSP WLAN SEM Results.vi
4.4.3	10/2007	<ul style="list-style-type: none"> - revision changed
4.4.2	10/2007	<ul style="list-style-type: none"> - Updated VIs:

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		- RSFSP Trace IQ Set.vi (range and help)
4.4.1	08/2007	<ul style="list-style-type: none"> - Updated VIs: <ul style="list-style-type: none"> - RSFSP Trace IQ Set.vi (range and help) - RSFSP Trace IQ Sampling Rate.vi (range and help) - Menu file names corrected: <ul style="list-style-type: none"> - actfslspecm.mnu - cgfslcatv.mnu
4.4.0	07/2007	<ul style="list-style-type: none"> - Driver update for FSL Spectrum Analyzer Firmware 1.6.0 - Driver for FSP Spectrum Analyzer Firmware 4.00 - List of options for FSL: <ul style="list-style-type: none"> - FSL-K7 AM/FM/PM Measurement Demodulator - FSL-K8 Bluetooth Tx measurements, incl. EDR - FSL-K9 Power sensor measurements - FSL-K14 Spectrogram Measurement - FSL-K20 Cable TV measurements, analog TV and DVB-C - FSL-K30 Application Firmware for Noise Figure and Gain measurements - FSL-K72 WCDMA 3GPP Application Firmware - FSL-K91 WLAN 802.11 Tests (1.20) - FSL-K92/93 Application Firmware for WiMAX - New VIs <ul style="list-style-type: none"> RSFSP FSL Trigger.vi RSFSP Time Trigger.vi RSFSP Video Trigger.vi RSFSP Marker Step Size.vi RSFSP Get Active Limit Lines.vi - K30 new functions <ul style="list-style-type: none"> RSFSP Noise Marker All Off.vi RSFSP Noise Marker To.vi - K14 Spectrogram Measurement - New VIs: <ul style="list-style-type: none"> - RSFSP Spectrogram Measurement State.vi - RSFSP Spectrogram Sweep.vi - RSFSP Spectrogram Display Parameters.vi - RSFSP Spectrogram Measurement Parameters.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - RSFSP Spectrogram Marker Frame Number.vi - RSFSP Spectrogram Marker Search Area.vi - RSFSP Spectrogram Delta Marker Frame Number.vi - RSFSP Spectrogram Delta Marker Search Area.vi - RSFSP Spectrogram Clear.vi - RSFSP Spectrogram Get Time Stamp.vi - RSFSP Spectrogram Marker Search.vi - RSFSP Spectrogram Delta Marker Search.vi - RSFSP Spectrogram Get Marker Frame Number.vi - RSFSP Spectrogram Get Delta Marker Frame Number.vi - RSFSP Spectrogram Trace Data.vi - Updated VIs: - RSFSP File Select Items.vi - K20 - Cable TV Analyzer for FSL - New VIs: RSFSP CATV Mode.vi RSFSP CATV Channel Setup.vi RSFSP CATV Channel Frequency.vi RSFSP CATV Channel Frequency Step Size.vi RSFSP CATV Modulation Standard.vi RSFSP CATV Marker State.vi RSFSP CATV Marker All Off.vi RSFSP CATV Marker Parameters.vi RSFSP CATV Marker Search Limit.vi RSFSP CATV Marker Position.vi RSFSP CATV Delta Marker State.vi RSFSP CATV Delta Marker All Off.vi RSFSP CATV Delta Marker Mode.vi RSFSP CATV Delta Marker Position.vi RSFSP CATV Configure Trace.vi RSFSP CATV Configure Trace Detector.vi RSFSP Analog TV Measurement.vi RSFSP Analog TV Modulation Standard.vi RSFSP Analog TV Configure Video Scope Line.vi RSFSP Analog TV Configure Video Scope Field.vi RSFSP Analog TV Configure CN Measurement.vi RSFSP Analog TV Configure CN Reference Power.vi RSFSP Analog TV Configure CN Measurement Frequencies.vi RSFSP Analog TV Configure CSO Measurement.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Analog TV Configure CSO Reference Power.vi RSFSP Analog TV Configure CSO Measurement Frequencies.vi RSFSP Analog TV Configure CTB Measurement.vi RSFSP Analog TV Configure CTB Reference Power.vi RSFSP Analog TV Configure CTB Measurement Frequencies.vi RSFSP Analog TV Carrier Limit.vi RSFSP Analog TV Carrier Ratio Limit.vi RSFSP Analog TV Hum Limit.vi RSFSP Analog TV Vision Modulation Limit.vi RSFSP Analog TV Vision Modulation Carrier Power Unit.vi RSFSP Analog TV Hum Unit.vi RSFSP Digital TV Measurement.vi RSFSP Digital TV Modulation Standard.vi RSFSP Digital TV Configure Shoulder Attenuation.vi RSFSP Digital TV Echo Pattern.vi RSFSP Digital TV Configure Modul Error Zoom.vi RSFSP Digital TV Configure Overview Zoom.vi RSFSP Digital TV Configure Constellation Diagram Zoom.vi RSFSP Digital TV Equalizer.vi RSFSP Digital TV Signal Statistics No Samples.vi RSFSP Digital TV Signal Statistics Scaling.vi RSFSP Digital TV Signal Statistics CCDF Percent Marker.vi RSFSP Digital TV Overview Limit.vi RSFSP Digital TV Channel Power Limit.vi RSFSP Digital TV Modulation Errors Limit.vi RSFSP Digital TV Echo Pattern Unit.vi RSFSP Digital TV Units.vi RSFSP TV Analyzer Measurement.vi RSFSP TV Analyzer Standard For Titl Measurement.vi RSFSP CATV Channel Adjust Attenuation.vi RSFSP CATV Autoscale.vi RSFSP CATV Marker To.vi RSFSP CATV Marker Search.vi RSFSP CATV Get Marker Value.vi RSFSP CATV Get Marker Position.vi RSFSP CATV Delta Marker Search.vi RSFSP CATV Get Delta Marker Value.vi RSFSP Analog TV CN Next Meas Frequency.vi RSFSP Analog TV CSO Next Meas Frequency.vi RSFSP Analog TV CTB Next Meas Frequency.vi RSFSP Analog TV Carrier Result.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<p>RSFSP Analog TV Carrier All Results.vi RSFSP Analog TV Carrier Ratio Result.vi RSFSP Analog TV Carrier All Ratio Results.vi RSFSP Analog TV Hum Result.vi RSFSP Analog TV Vision Modulation Result.vi RSFSP Analog TV Vision All Modulation Results.vi RSFSP Analog TV Carrier Limit Result.vi RSFSP Analog TV Carrier Ratio Limit Result.vi RSFSP Analog TV Hum Limit Result.vi RSFSP Analog TV Vision Modulation Limit Result.vi RSFSP Digital TV Reset Equalizer.vi RSFSP Digital TV Spectrum Result.vi RSFSP Digital TV Channel Power Result.vi RSFSP Digital TV Overview Result.vi RSFSP Digital TV Overview All Result.vi RSFSP Digital TV Modulation Errors Result.vi RSFSP Digital TV Modulation Errors All Results.vi RSFSP Digital TV Signal Statistics Result.vi RSFSP Digital TV Signal Statistics All Result.vi RSFSP Digital TV Overview Limit Result.vi RSFSP Digital TV Channel Power Limit Result.vi RSFSP Digital TV Modulation Errors Limit Result.vi</p> <p>- K72 options - Updated VIs RSFSP CDP Inactive Channel Treshold.vi- range updated RSFSP Get WCDP Measurement.vi - new measurement added for FSL with K72 RSFSP Read WCDP Trace Data.vi - for FSL trace ABIT is not available RSFSP Configure WCDPower Measurement.vi - range updated</p> <p>- not available for FSL RSFSP WCDP Measurement Mode.vi RSFSP CDP Set to Standard.vi RSFSP CDP Side Band.vi RSFSP CDP Spreading Factor.vi RSFSP CDP Slot Difference.vi RSFSP CDP Scrambling Type.vi RSFSP CDP Signal Mapping.vi RSFSP CDP Constellation Parameter B.vi RSFSP CDP Power Control.vi</p>

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP CDP Frame Analyze.vi RSFSP CDP IQ Length.vi RSFSP WCDP Channel Table.vi RSFSP WCDP Channel Table File.vi RSFSP WCDP Channel Table Name.vi RSFSP WCDP Channel Table Copy.vi RSFSP WCDP Channel Table Delete.vi RSFSP WCDP Channel Table Comment.vi RSFSP WCDP Channel Table Data.vi RSFSP WCDP Channel Table Catalog.vi RSFSP WCDPower Mode.vi RSFSP Get WCDP MS Measurement.vi RSFSP SEM Limit Line Check.vi RSFSP Read Multi Frame Data.vi - FSL only - New VIs RSFSP FSL WCDP Meas Mode.vi RSFSP WCDP SEM Transition.vi RSFSP Y Scale Division.vi RSFSP CDP Result Summary View.vi RSFSP 3GPP BS Mode.vi RSFSP CDP Delta Marker To.vi RSFSP CDP A Sequence.vi RSFSP CDP Scrambling Code Search.vi RSFSP Get CDP Scrambling Code Results.vi RSFSP Get CDP List Evaluation Results.vi
4.3.0	05/2007	- Driver update for FSL Spectrum Analyzer Firmware 1.5.0 - Driver for FSP Spectrum Analyzer Firmware 4.00 - FSP driver update - New VIs: RSFSP Single Sweep And Wait.vi RSFSP Get Center Frequency.vi RSFSP Get Span.vi RSFSP Get Sweep Time.vi RSFSP Get Sweep Points.vi RSFSP Get Resolution BW.vi RSFSP Get Video BW.vi RSFSP Get Input Attenuation.vi RSFSP Get IF Power Trigger Level.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<p>RSFSP Get Video Trigger Level.vi</p> <ul style="list-style-type: none"> - FSL only - New VIs: <ul style="list-style-type: none"> RSFSP Sweep Points FSL.vi - Driver update for FSL Spectrum Analyzer Firmware 1.5.0 - K30 - Noise - Updated VIs: <ul style="list-style-type: none"> RSFSP Noise Fixed IF Frequency.vi RSFSP Noise Pre-selector.vi RSFSP Noise Pre-amplifier.vi RSFSP Noise Generator Automatic Control.vi RSFSP Noise Generator Settings.vi RSFSP Noise Generator Level.vi RSFSP Noise Generator FRequency.vi RSFSP Limit Line Measurement Type.vi - FSL Only: <ul style="list-style-type: none"> - New VIs: <ul style="list-style-type: none"> RSFSP Noise Trace Memory Display.vi RSFSP Noise Current Results Display.vi RSFSP Noise X-Axis Frequecny Display.vi RSFSP Noise Trace Memory Result.vi RSFSP Fetch NoiseMemory Result (Array).vi - K7 - Analog Demodulation - Updated VIs: <ul style="list-style-type: none"> RSFSP Vector Signal Analysis Mode.vi RSFSP Analog Demodulation Set.vi RSFSP Analog Demod RF Param.vi RSFSP Analog Demodulation Demod BW.vi RSFSP ANalog Demod Auto Tune.vi RSFSP Get Analog Demod Value.vi RSFSP Get Analog Demod Result Values.vi RSFSP Modulation SINAD Measurement Results.vi RSFSP Modulation THD Measurement Results.vi - FSL only - New VIs: <ul style="list-style-type: none"> RSFSP Analog Demod Signal Analysis Mode.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Analog Demod Peak Excursion.vi RSFSP Analog Demod Demod BW.vi RSFSP Analog Demod Set.vi RSFSP Analog Demod Type.vi RSFSP Analog Simultaneously Demod Type.vi RSFSP Analog Demod RF Spectrum Param.vi RSFSP Analog Demod Trigger.vi RSFSP Get Analog Simultaneously Result Values.vi RSFSP Analog Demod SINAD Result.vi RSFSP Analog Demod THDResult.vi - K9 - Power Meter - Updated VIs RSFSP PWR Meter Meas Time Manual.vi - FSL only - New VIs RSFSP PWR Reference Level Offset State.vi
4.2.0	04/2007	- FSL FS-K92/93 update - Updated VIs: RSFSP WLAN Center Frequency.vi RSFSP WLAN Channel No.vi RSFSP WLAN Auto Level.vi RSFSP WLAN Auto Level Time.vi RSFSP WLAN Ref Level.vi RSFSP WLAN RF Attenuation.vi RSFSP WLAN External Attenuation.vi RSFSP WLAN Signal Level (RF).vi RSFSP WLAN Sweep.vi RSFSP WLAN Sweep Count.vi RSFSP WLAN Capture Time.vi RSFSP WLAN Overall Burst Count.vi RSFSP WLAN Trigger Mode.vi RSFSP WLAN Trigger Offset.vi RSFSP WLAN Trigger Level.vi RSFSP WLAN Swap IQ.vi RSFSP WLAN Equal Burst Length.vi RSFSP WLAN No of Data Symbols.vi RSFSP WLAN Min (Max) No of Data Symbols.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP WLAN Tracking Phase.vi RSFSP WLAN Tracking Timing.vi RSFSP WLAN Tracking Level.vi RSFSP WLAN Gating.vi RSFSP WLAN Gate Delay.vi RSFSP WLAN Gate Length.vi RSFSP WLAN Marker State.vi RSFSP WLAN Marker All Off.vi RSFSP WLAN Marker to Trace.vi RSFSP WLAN Marker Position (x).vi RSFSP WLAN Marker Carrier.vi RSFSP WLAN Marker Symbol.vi RSFSP WLAN Display Table.vi RSFSP WLAN Power Versus Time Select.vi RSFSP WLAN Spectrum Mask Select.vi RSFSP WLAN Level Auto Adjust.vi RSFSP WLAN Burst Recalc.vi RSFSP WLAN Marker Zoom.vi RSFSP WLAN Get Channel Power.vi RSFSP WLAN Get Channel Maximum Power.vi RSFSP WLAN Get Marker Position (x).vi RSFSP WLAN Get Marker Position (y).vi RSFSP WLAN Get Marker Carrier.vi RSFSP WLAN Get Marker Symbol.vi RSFSP Read WLAN Trace Data.vi RSFSP Fetch WLAN Burst All.vi RSFSP Fetch WLAN Symbol Error.vi RSFSP Fetch WLAN IQ Offset Error.vi RSFSP Fetch WLAN IQ Imbalance Error.vi RSFSP Fetch WLAN Quadrature Offset Error.vi RSFSP Fetch WLAN EVM Results.vi RSFSP External Trigger Level.vi RSFSP WLAN LoadStore IQ Data.vi RSFSP Fetch WLAN Frequency Error.vi RSFSP WLAN Measurement Mode.vi - FSL Only: - Updated VIs: RSFSP WLAN ACP Mode.vi RSFSP WLAN Preamble Select.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP WLAN Query Filter Catalog.vi RSFSP WLAN Select Filter.vi RSFSP WLAN Gate Link.vi RSFSP WLAN EVM Units.vi RSFSP Fetch WLAN Fetch Count.vi RSFSP Fetch WLAN Burst RMS All Power.vi RSFSP Fetch WLAN Burst All Crest Factor.vi - New VIs: RSFSP WiMAX Mode.vi RSFSP WiMAX Standard.vi RSFSP WiMAX BW.vi RSFSP WiMAX Channel BW.vi RSFSP WiMAX Adj Channel Spacing.vi RSFSP WiMAX Adj Channel Number.vi RSFSP WiMAX Adj Channel BW.vi RSFSP WiMAX Autoscale Y.vi RSFSP WiMAX Y Scale Division.vi RSFSP WiMAX Frequency Band.vi RSFSP WiMAX Inverse Guard Ratio.vi RSFSP WiMAX Link Mode.vi RSFSP WiMAX PVT Burst Selection.vi RSFSP WiMAX Channel Power Noise Corr.vi RSFSP WiMAX Spectrum ACPR Mask Sweep Time.vi RSFSP WiMAX Baseband Input.vi RSFSP WiMAX EVM Table Units.vi RSFSP WiMAX Demodulator.vi RSFSP WiMAX Demodulation Type.vi RSFSP WiMAX Channel Estimation in Preamble and Payload.vi RSFSP WiMAX Marker Burst Constellation Symbol.vi RSFSP WiMAX All Limits.vi RSFSP WiMAX EVM All Carriers.vi RSFSP WiMAX EVM Data Carriers.vi RSFSP WiMAX IQ Offset Error.vi RSFSP WiMAX Frequency Error.vi RSFSP WiMAX Symbol Error.vi RSFSP WiMAX Subscriber Station Timing Limit.vi RSFSP WiMAX Display Table Unit.vi RSFSP WiMAX Constellation Carrier Select.vi RSFSP WiMAX ACP Measurement Mode Select.vi RSFSP WiMAX Spectrum Flatness Select.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP WiMAX Get Ref Level.vi RSFSP WiMAX Refresh IQ Measurement.vi RSFSP WiMAX All Limits Results.vi RSFSP WiMAX EVM All Carriers Result.vi RSFSP WiMAX EVM Data Carriers Result.vi RSFSP WiMAX IQ Offset Error Result.vi RSFSP WiMAX Frequency Error Result.vi RSFSP WiMAX Symbol Error Result.vi RSFSP WiMAX Subscriber Station Timing Result.vi RSFSP WiMAX Spectrum Mask Limit.vi RSFSP WiMAX Limit Check Result.vi RSFSP Fetch WiMAX CINR Results.vi RSFSP Fetch WiMAX RSSi Results.vi RSFSP WiMAX Preamble Error Units.vi - New VIs K93 only: RSFSP WiMAX Averaging.vi RSFSP WiMAX FFT Size.vi RSFSP WiMAX FFT Offset.vi RSFSP WiMAX TDD Frame TTG.vi RSFSP WiMAX SEM Mode.vi RSFSP WiMAX Subchannel.vi RSFSP WiMAX Subchannel State.vi RSFSP WiMAX Subchannel Physical Modifier.vi RSFSP WiMAX Frame Downlink ID Cell.vi RSFSP WiMAX Frame Downlink Preamble Index.vi RSFSP WiMAX Frame Downlink Used Subchannel.vi RSFSP WiMAX Frame Uplink.vi RSFSP WiMAX Create New Zone.vi RSFSP WiMAX Configure Zone.vi RSFSP WiMAX Create New Zone Burst.vi RSFSP WiMAX Configure Zone Burst.vi RSFSP WiMAX Load Frame Data.vi RSFSP WiMAX External Frame Zone Generator Address.vi RSFSP WiMAX Zone State.vi RSFSP WiMAX Zone Type.vi RSFSP WiMAX Zone ID Segment.vi RSFSP WiMAX Zone Perm Base.vi RSFSP WiMAX Zone PRBS.vi RSFSP WiMAX Zone Symbol Count.vi RSFSP WiMAX Zone Symbol Offset.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP WiMAX Zone Burst Offset Auto.vi RSFSP WiMAX Zone Burst Modulation.vi RSFSP WiMAX Zone Burst Slot Duration.vi RSFSP WiMAX Zone Burst Subchannel Count.vi RSFSP WiMAX Zone Burst Subchannel Offset.vi RSFSP WiMAX Zone Burst Symbol Count.vi RSFSP WiMAX Zone Burst Symbol Offset.vi RSFSP WiMAX Zone Burst Type.vi RSFSP WiMAX Tracking Pilot.vi RSFSP WiMAX Bit Error Rate for Pilot Carriers.vi RSFSP WiMAX Bitstream Modulation.vi RSFSP WiMAX Bitstream Burst Select.vi RSFSP WiMAX Bitstream Symbol Select.vi RSFSP WiMAX Constellation Modulation.vi RSFSP WiMAX Constellation Burst Select.vi RSFSP WiMAX Constellation Symbol Select.vi RSFSP WiMAX Get Marker TTC.vi RSFSP WiMAX Bit Error Rate for Pilot Carriers Result.vi RSFSP WiMAX Get Zone Count.vi RSFSP WiMAX Get Zone Burst Count.vi RSFSP WiMAX Zone Delete.vi RSFSP WiMAX Zone Burst Delete.vi RSFSP Fetch WiMAX Time Domain Preamble.vi RSFSP Fetch WiMAX Zone Count.vi
4.1.0	02/2007	- Driver update for FSL Spectrum Analyzer Firmware 1.4.0 Updated VIs: RSFSP Trace Setup.vi RSFSP Detector.vi RSFSP Trace Math.vi RSFSP Sweep Points.vi RSFSP Setup Extern Gain Correct.vi RSFSP List Power Sequence.vi RSFSP Meas List Power Seq.vi RSFSP List Power Set Average Type.vi RSFSP Power Units.vi RSFSP Average State.vi RSFSP Marker Demodulation.vi RSFSP Marker Demodulation Continue.vi RSFSP Channel Power Standard.vi RSFSP Channel Power Trace.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Harmonic Distortion State.vi RSFSP Number Of Harmonics.vi RSFSP Harmonic Resolution BW Auto.vi RSFSP Tracking Generator Src Values.vi RSFSP Tracking Generator Ref Level.vi RSFSP Tracking Generator Ref Position.vi RSFSP Marker To.vi RSFSP Copy Trace.vi RSFSP Harmonic Distortion Adjust Settings.vi RSFSP Get Harmonic Distortion Result Values.vi RSFSP Get First Harmonic Frequency.vi RSFSP Tracking Generator Mode.vi RSFSP Tracking Generator Corr State.vi RSFSP Tracking Generator Correction.vi - K8 Updated VIs: RSFSP Digital Demod Filter.vi RSFSP Digital Meas Search Time.vi RSFSP BTooth Trace Setup.vi RSFSP BTooth Trace Select.vi RSFSP Bluetooth Measurement Mode.vi RSFSP BTooth Detector.vi - FSL Only New VIs: RSFSP AM Mod Depth Signal Search.vi RSFSP Burst Power Filter Type.vi RSFSP Burst Power Filter Type.vi RSFSP Frequency Step Size.vi RSFSP Get Signal Statistics FSL.vi RSFSP IF Power Retrigger.vi RSFSP Marker Zoom.vi RSFSP RF Pre-amplifier.vi RSFSP TOI Signal Search.vi RSFSP TV Trigger.vi RSFSP Units.vi - FSL Only K8 New VIs: RSFSP BTooth Channel FSL.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP BTooth Packet Bytes SCO.vi RSFSP BTooth Analog Demodulation Zoom.vi RSFSP BTooth Peak Excursion.vi RSFSP BTooth Block Count.vi RSFSP Get BTooth Block Count.vi RSFSP BTooth Num Adjacent Channels SE.vi RSFSP BTooth Power Measurement.vi RSFSP Get BTooth Carr Freq Stability Measured Values.vi RSFSP Get BTooth Differential Phase Encoding Values.vi RSFSP Get BTooth Adj Channel Power of SE Measurement.vi RSFSP Get BTooth Channel Power of SE Measurement.vi RSFSP Get BTooth SE Exceptions.vi RSFSP BTooth Adjust Gate Settings SE.vi RSFSP Get BTooth Transmission Power.vi
4.0.0	12/2006	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 4.01 - List of options: - K5 GSM/EDGE (4.00) - K7 FM-Demodulator (3.80) - K8 Bluetooth (3.80) - K9 Power sensor measurements (3.80) - K30 Noise Figure and Gain Measurements (4.00) - K40 Phase Noise Measurements (4.00) - K70 Vector Signal Analysis (4.00) - K72 3GPP FDD Base Station Test (4.00) - K73 3GPP FDD User Equipment Test (4.00) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (4.00) - K77 TD-SCDMA Mobile Station Test (4.00) - K82 cdma2000 Base Station Test (4.00) - K83 cdma2000/1xEV-DV Mobile Station Test (4.00) - K84 1xEV-DO Base Station Test (4.00) - K85 1xEV-DO Mobile Station Test (4.00) - K90 WLAN 802.11a/g Tests (4.00) - New VIs: RSFSP SE Get Measurement Peak List.vi RSFSP SE List Evaluation State.vi RSFSP Memory Size on Boards.vi RSFSP SE Limit.vi RSFSP Marker Search Auto.vi RSFSP Get Active Window.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Store Marker to File.vi RSFSP Phase Noise Auto Peak Search.vi - Updated VIs: RSFSP Channel Power Standard.vi RSFSP Read WCDP Trace Data.vi RSFSP Analog Demod Phase Wrap.vi - fixed - K7 - Updated VIs: RSFSP Vector Signal Analysis Mode.vi - K9 - New VIs RSFSP PWR Meter Meas Time Manual.vi - K72/73/74 - Updated VIs: RSFSP Read WCDMA Trace Data.vi RSFSP WCDP Measurement Mode.vi RSFSP WCDP Channel Table Data.vi - K76 - New VIs RSFSP CDP High Dynamic.vi - Updated VIs RSFSP Configure CDP Measurement.vi RSFSP CDP Channel Table Data.vi - K84 - New VIs RSFSP CDP Revision.vi - Updated VIs RSFSP Get 1xEV-DO CDP Measurement.vi
3.8.0	03/2006	- Driver update for FSP Firmware 3.80(XP), 2.80 (NT) and FSL Firmware 1.20 Modifications - Added RSFSP Get Marker Position.vi - Format returned to ASCII after finished transmission of REAL,32 data: - RSFSP Read Trace Data.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - RSFSP SEM Results.vi - RSFSP Write Trace Data.vi - RSFSP Read Trace IQ Data.vi - RSFSP Read Trace IQ Data From Memory.vi - RSFSP Read WCDP Trace Data.vi - Synchronization workaround implemented in: <ul style="list-style-type: none"> - RSFSP Self-Test.vi - RSFSP Read Level Time Values.vi - RSFSP Get BTooth Exceptions.vi - RSFSP Get BTooth Power Of Channels.vi - RSFSP Get BTooth Power Control.vi - RSFSP Get BTooth Output Power.vi - RSFSP Get Power Of Signal Pulses.vi - RSFSP Get Analog Demod Result Values.vi - RSFSP Get Peak Values.vi - Fixed RSFSP Channel Power Standard.vi - Fixed RSFSP Phase Noise Ref Level.vi - List of options for FSP: <ul style="list-style-type: none"> - K5 GSM/EDGE (3.80) - K7 FM-Demodulator - K8 Bluetooth - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.80) - K40 Phase Noise Measurements (3.80) - K72 3GPP FDD Base Station Test (3.80) - K73 3GPP FDD User Equipment Test (3.80) - K74 3GPP HSDPA Base Station Test (3.80) - K76 TD-SCDMA Base Station Test (3.80) - K77 TD-SCDMA Mobile Station Test (3.80) - K82 cdma2000 Base Station Test (3.80) - K83 cdma2000/1xEV-DV Mobile Station Test (3.80) - K84 1xEV-DO Base Station Test (3.80) - K85 1xEV-DO Mobile Station Test (3.80) - K90 WLAN 802.11a/g Tests (3.80) - List of options for FSL: <ul style="list-style-type: none"> - FSL-K7 AM/FM/PM Measurement Demodulator - FSL-K9 Power sensor measurements - FSL-K91 WLAN 802.11 Tests (1.20)

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - New VIs: - RSFSP Conversion Loss Table Catalog.vi - RSFSP Limit Lines Catalog.vi - RSFSP Transducer Catalog.vi - RSFSP List Power Set Average Type.vi - RSFSP Marker Demodulation Squelch.vi - RSFSP Channel Power Alternate Channel Spacing.vi - RSFSP Channel Power Alternate Channel Bandwidth.vi - RSFSP Channel Power Mode.vi - RSFSP Channel Power Alternate Channel Limit .vi - RSFSP Signal Statistics Scaling Units.vi - RSFSP Tracking Generator Power Sweep.vi - RSFSP Trace Results.vi - RSFSP Trace Level.vi - RSFSP Get CCDF Statistics.vi - RSFSP ID String Factory.vi <p>Updated Vis:</p> <ul style="list-style-type: none"> - RSFSP Emulation.vi - RSFSP Channel Power Channels.vi - RSFSP Channel Power Channel Opt.vi - RSFSP Channel Power Meas Limit.vi - RSFSP Phase Noise Trace Mode.vi - RSFSP Get ACP Limit Check.vi - RSFSP Marker Search N dB.vi - RSFSP Read WCDP Trace Data.vi <ul style="list-style-type: none"> - K5 - New VIs: - RSFSP GSM IFRF Power as IQ Trigger.vi <ul style="list-style-type: none"> - K7 - New VIs: - RSFSP Analog Demod Auto Tune.vi - RSFSP Analog Demodulation Filter Relative.vi <ul style="list-style-type: none"> - K40 - New VIs: - RSFSP Phase Noise Trace Math State.vi - RSFSP Phase Noise Trace Math Expression.vi - RSFSP Phase Noise Marker Zoom.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - Updated VIs: - RSFSP Phase Noise Trace Mode.vi - K72/73/74 - New VIs: - RSFSP CDP HSDPAUPA State.vi - RSFSP WCDP MS Channel E-DPDCH.vi - RSFSP WCDP MS Channel E-DPDCH Table Data.vi - Updated VIs: - RSFSP WCDP Channel Table Data.vi - K82 - New VIs: - RSFSP SEM Peaks Per Range.vi - RSFSP SEM Margin.vi - RSFSP Store Spectrum Emission Mask to File.vi - RSFSP SEM Search Peak.vi - RSFSP SEM Results.vi - FSP-K90/FSL-K91 - New VIs: - RSFSP WLAN Burst Recalc.vi - RSFSP WLAN LoadStore IQ Data.vi - RSFSP Fetch WLAN Burst Count.vi - RSFSP Fetch WLAN Symbol Count.vi - RSFSP WLAN Auto Level Time.vi - RSFSP WLAN Y Scale Division.vi
1.8.3	11/2005	Modifications <ul style="list-style-type: none"> - RSFSP Fetch Noise Measurement Result (Array).vi
1.8.2	08/2005	Modifications Fixed VI: <ul style="list-style-type: none"> - RSFSP Trace IQ Set.vi
1.8.1	08/2005	Modifications Fixed VIs: <ul style="list-style-type: none"> - RSFSP Noise Gain Trace Settings.vi - RSFSP Noise 2nd Stage Correction State.vi - RSFSP Noise Trace Settings.vi
1.8	07/2005	<ul style="list-style-type: none"> - Driver update for FSP Spectrum Analyzer Firmware 3.60 added FSL support - List of changed options:

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - K5 GSM/EDGE (3.60) - K7 FM-Demodulator - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (3.60) - K40 Phase Noise Measurements (3.60) - K70 Vector Signal Analysis (3.60) - K72 3GPP FDD Base Station Test (3.60) - K73 3GPP FDD User Equipment Test (3.60) - K74 3GPP HSDPA Base Station Test (3.60) - K76 TD-SCDMA Base Station Test (3.60) - K77 TD-SCDMA Mobile Station Test (3.60) - K82 cdma2000 Base Station Test (3.60) - K83 cdma2000/1xEV-DV Mobile Station Test (3.60) - K84 1xEV-DO Base Station Test (3.60) - K85 1xEV-DO Mobile Station Test (3.60) - K90 WLAN 802.11a/g Tests (3.60) <p>- New VIs:</p> <ul style="list-style-type: none"> RSFSP WLAN Sweep.vi RSFSP WLAN Start Measurement.vi RSFSP WLAN Start Measurement And Wait for OPC.vi RSFSP Fetch WLAN Burst All.vi RSFSP External Trigger Level .vi RSFSP Harmonic Distortion State.vi RSFSP Number Of Harmonics .vi RSFSP Harmonic Resolution BW Auto.vi RSFSP Channel Power Separate Channel Spacing.vi RSFSP PWR Meter Type.vi RSFSP PWR Meter Address.vi RSFSP PWR Meter Sensor Cal Factor.vi RSFSP PWR Meter Sensor Label.vi RSFSP PWR Meter Sensor Select.vi RSFSP PWR Meter External Sensor.vi RSFSP Power Splitter State.vi RSFSP Power Splitter Insertion Loss.vi RSFSP Power Splitter Path Loss.vi RSFSP Harmonic Distortion Adjust Settings.vi RSFSP Get Harmonic Distortion Result Values.vi RSFSP Get First Harmonic Frequency.vi <p>- Updated VIs:</p> <ul style="list-style-type: none"> RSFSP Trace IQ Set

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Set Status Register.vi RSFSP Get Status Register.vi RSFSP Vector Signal Analysis Mode.vi - Moved to Obsolete functions: RSFSP Channel Power Channel Spacing.vi - Option FS-K40 (Phase Noise Measurements) - New VIs: RSFSP Phase Noise Scale.vi RSFSP Phase Noise Autoscale Y.vi RSFSP Phase Noise Center Freq.vi RSFSP Phase Noise Start And Stop Freq.vi RSFSP Phase Noise Resolution BW Type.vi RSFSP Phase Noise Resolution BW Ratio.vi RSFSP Phase Noise Ref Level.vi RSFSP Phase Noise Ref Level Offset.vi RSFSP Phase Noise Auto Level.vi RSFSP Phase Noise Signal Level (RF).vi RSFSP Phase Noise Sweep.vi RSFSP Phase Noise Sweep Count.vi RSFSP Phase Noise Sweep Direction.vi RSFSP Phase Noise Sweep Display.vi RSFSP Phase Noise Sweep Mode.vi RSFSP Phase Noise Sub Channel RBW.vi RSFSP Phase Noise Sub Channel RBW Type.vi RSFSP Phase Noise Sub Channel Sweep Count.vi RSFSP Phase Noise Verification State.vi RSFSP Phase Noise Frequency Tolerance.vi RSFSP Phase Noise Power Tolerance.vi RSFSP Evaluation Range State.vi RSFSP Evaluation Range Frequency.vi RSFSP Phase Noise Limit Lines State.vi RSFSP Phase Noise Limit Lines Operation.vi RSFSP Phase Noise Limit Lines Data.vi RSFSP Phase Noise Limit Lines Switch.vi RSFSP Phase Noise Limit Lines Shift.vi RSFSP Phase Noise Limit Lines Trace.vi RSFSP Phase Noise Marker State.vi RSFSP Phase Noise Marker Position.vi RSFSP Phase Noise Marker to Trace.vi RSFSP Phase Noise Marker All Off.vi RSFSP Phase Noise Delta Marker State.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Phase Noise Delta Marker Position (x).vi RSFSP Phase Noise Delta Marker to Trace.vi RSFSP Phase Noise Delta Marker All Off.vi RSFSP Phase Noise Spot Noise State.vi RSFSP Phase Noise Spot Noise Position (x).vi RSFSP Phase Noise Spot Noise All Off.vi RSFSP Phase Noise Trace State.vi RSFSP Phase Noise Trace Mode.vi RSFSP Phase Noise Smoothing State.vi RSFSP Phase Noise Smoothing Aperture.vi RSFSP Phase Noise Mode.vi RSFSP Phase Noise Scale Auto Adjust.vi RSFSP Phase Noise Start Measurement.vi RSFSP Phase Noise Start Measurement And Wait for OPC.vi RSFSP Phase Noise Stop Measurement.vi RSFSP Get Phase Noise Measurement Time.vi RSFSP Phase Noise Limit Check Result.vi RSFSP Phase Noise Limit Check Result Clear.vi RSFSP Get Phase Noise Spot Noise Position (y).vi RSFSP Fetch Phase Noise Result.vi - FSL support - New VIs: RSFSP Coupled Reference Level.vi RSFSP Output Measurement Mode.vi RSFSP Set User Ports.vi RSFSP Get User Ports.vi RSFSP User Output State.vi RSFSP Frequency Mode.vi RSFSP Trace IQ Synchronization State.vi RSFSP Power Save Display.vi RSFSP Transducer Comment.vi RSFSP Transducer View.vi RSFSP Power Units.vi RSFSP Average Count.vi RSFSP Average State.vi RSFSP Average Type.vi RSFSP Marker Demodulation Continue.vi RSFSP Probability Marker Position.vi RSFSP Analog Simultaneously Demod Type.vi RSFSP Analog Demodulation Frequency Span.vi RSFSP Analog Demodulation AF Center.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Analog Demodulation AF Start.vi RSFSP Analog Demodulation AF Stop.vi RSFSP Analog Demodulation AF Span.vi RSFSP Analog Demodulation AF Full Span.vi RSFSP Calibration Abort.vi RSFSP Hardcopy Abort.vi RSFSP Modulation THD Measurement Results.vi RSFSP Modulation SINAD Measurement Results.vi RSFSP Fetch Noise Measurement Result (Array).vi RSFSP Fetch Noise Measurement Result (Scalar).vi - Modification: RSFSP Get Analog Demod Result Values.vi RSFSP Vector Signal Analysis Mode.vi RSFSP Display Lines.vi RSFSP File Operations.vi RSFSP Center Freq and Span.vi RSFSP Trigger.vi RSFSP Analog Demodulation Filter.vi RSFSP RF Input Attenuator Auto.vi
1.7.1	06/2005	Modifications - Fixed RSFSPLimit Lines Data.vi
1.7	04/2005	- Driver update for FSP Spectrum Analyzer Firmware 3.50 -List of options: -K5 GSM/EDGE (3.50) -K9 Power sensor measurements -K30 Noise Figure and Gain Measurements (3.50) -K70 Vector Signal Analysis (3.50) -K72 3GPP FDD Base Station Test (3.50) -K73 3GPP FDD User Equipment Test (3.50) -K74 3GPP HSDPA Base Station Test (3.50) -K76 TD-SCDMA Base Station Test (3.50) -K77 TD-SCDMA Mobile Station Test (3.50) -K82 cdma2000 Base Station Test (3.50) -K83 cdma2000/1xEV-DV Mobile Station Test (3.50) -K84 1xEV-DO Base Station Test (3.50) -K85 1xEV-DO Mobile Station Test (3.50) -K90 WLAN 802.11 Tests (3.50) - K91 option removed from the driver code, this option is not available for FSP

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - Fixed helps for all WLAN functions, options FSP-K90 and FSP-K91 were changed to FSP-K90 - Added software support for options FS-B21 and FSP-B9 - List of updated and new VIs follow: Configuration: General Device Settings Frequency Section RSFSP Frequency Axis Mode Input Section RSFSP RF Input Attenuator Auto External Mixer RSFSP External Mixer RSFSP External Mixer LO Level RSFSP External Mixer Signal RSFSP External Mixer Parameters RSFSP Default Conversion Loss RSFSP Conversion Loss Table RSFSP Conversion Loss Table Delete Sweep Section RSFSP Sweep Time Auto System Setup Section RSFSP Generate Transducer Factor List Power Group RSFSP List Power Sequence RSFSP Meas List Power Seq RSFSP List Power Set RSFSP List Power State Burst Power Section RSFSP Burst Power Sequence RSFSP Meas Burst Power Seq Tracking Generator Mode RSFSP Tracking Generator Src Values RSFSP Tracking Generator Ref Level RSFSP Tracking Generator Ref Position RSFSP Tracking Generator Modulation RSFSP Tracking Generator Ext Src RSFSP Tracking Generator Ext Select RSFSP Tracking Generator Ext Sweep RSFSP Tracking Generator Ext Power RSFSP Tracking Generator Ext Src Ref

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		Vector Signal Analysis Mode Config Group - Analog Demod RSFSP Analog Demodulation Filter GSM / EDGE MS/BTS Analysis Mode RSFSP GSM Burst Zoom Transition Number RSFSP GSM Multi Carrier Mode State Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS RSFSP Configure WCDPower Measurement RSFSP WCDP Measurement Mode CDP Measurement Setting RSFSP CDP RRC Filter RSFSP CDP Eliminate Tail Chips RSFSP CDP Slot Difference RSFSP CDP Slot Sets Count RSFSP CDP Slot Set To Analyze RSFSP CDP Scrambling Code RSFSP CDP Long Code Mode RSFSP CDP Constellation Parameter B RSFSP CDP Power Control WCDP Channel Table (MS) RSFSP WCDP MS Channel HS-DPCCH WCDP Channel Table (BTS) RSFSP WCDP Channel Table RSFSP WCDP Channel Table File RSFSP WCDP Channel Table Name RSFSP WCDP Channel Table Copy RSFSP WCDP Channel Table Delete RSFSP WCDP Channel Table Comment RSFSP WCDP Channel Table Data RSFSP WCDP Channel Table Catalog Wireless LAN (WLAN) General Settings Signal Characteristics RSFSP WLAN Autoscale Y RSFSP WLAN Ref Level RSFSP WLAN RF Attenuation RSFSP WLAN Input Electronic Attn RSFSP WLAN Input Electronic Attn Auto RSFSP WLAN Input Electronic Attn State RSFSP WLAN Input YIG Filter RSFSP WLAN Sweep Count

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		Unit RSFSP WLAN Preamble Error Units Limits RSFSP WLAN All Limits RSFSP WLAN EVM All Carriers RSFSP WLAN EVM Data Carriers RSFSP WLAN EVM Pilot Carriers RSFSP WLAN IQ Offset Error RSFSP WLAN Frequency Error RSFSP WLAN Symbol Error Noise Measurement Measurement Settings Generator Settings RSFSP Noise Generator Settings Action/Status Functions General Device Settings Marker Group RSFSP Delta Marker Link Trigger Group RSFSP Continue Measurement File Group RSFSP File Decimal Separator RSFSP Store Trace to File RSFSP Store Spurious Emissions to File RSFSP File Directory Path List Power Group RSFSP Get List Power Result Burst Power Group RSFSP Get Burst Power Result RSFSP Get Burst Power Result Min Signal Analysis Mode Measure Group Channel Power / ACP Adapt to Signal RSFSP Channel Power Start Slot RSFSP Channel Power Stop Slot RSFSP Channel Power Autorange RSFSP Channel Power Autorange Result RSFSP Channel Power Auto Adjust RSFSP Channel Power Auto Adjust Result Tracking Generator Mode

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<p>RSFSP Tracking Generator Mode</p> <p>RSFSP Tracking Generator Corr State</p> <p>RSFSP Tracking Generator Correction</p> <p> GSM / EDGE MS/BTS Analysis Mode</p> <p>RSFSP GSM Burst Section</p> <p> Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS</p> <p>Lines Section</p> <p> RSFSP SEM Limit Line Check</p> <p>Wireless LAN (WLAN)</p> <p> RSFSP WLAN Measurement Mode</p> <p> RSFSP WLAN Get IQ Sample Rate</p> <p> RSFSP WLAN Level Auto Adjust</p> <p>Markers</p> <p> RSFSP WLAN Get Channel Maximum Power</p> <p>Limits</p> <p> RSFSP WLAN All Limits Results</p> <p> RSFSP WLAN EVM All Carriers Result</p> <p> RSFSP WLAN EVM Data Carriers Result</p> <p> RSFSP WLAN EVM Pilot Carriers Result</p> <p> RSFSP WLAN IQ Offset Error Result</p> <p> RSFSP WLAN Frequency Error Result</p> <p> RSFSP WLAN Symbol Error Result</p> <p> RSFSP WLAN Spectrum Mask Limit</p> <p> RSFSP WLAN Limit Check Result</p> <p>Data Functions</p> <p> RSFSP Cdma2000 / 1xEV-DO / 3GPP WCDMA / TD-SCDMA MS/BTS</p> <p> RSFSP Read WCDP Trace Data</p> <p>- Code maintenance:</p> <p>-I/O conversion specification fixed:</p> <p> Input: "%le" for DBL, "%ld" for I32</p> <p> Output: "%.12f" for DBL "%ld" for I32</p> <p>-Renamed VIs (old prototypes are moved to Obsolete section):</p> <p> RSFSP Channel Power Trigger Spacing.vi changed to RSFSP Channel Power Channel Spacing.vi</p> <p> RSFSP Channel Power Trigger Count.vi changed to RSFSP Channel Power Carrier Count.vi</p> <p>-Description of Channel Power Type parameter changed, code improved</p> <p> RSFSP Channel Power Meas Mode.vi</p> <p> RSFSP Adjust Channel Power Settings.vi</p> <p> RSFSP Get Occupied Bandwidth Value.vi</p> <p>-Parameter range extended, description changed</p>

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Channel Power Reference Manual.vi RSFSP Resolution BW.vi -Trace IQ Group moved to Trace Group -Fixed code (description) RSFSP Channel Power Standard.vi RSFSP Channel Power Auto Adjust Result.vi RSFSP Channel Power Autorange Result.vi RSFSP Get Peaks Values.vi RSFSP Read WLAN Trace Data.vi RSFSP Read C2k CDP Trace Data.vi RSFSP Read Trace IQ Data.vi RSFSP Read Trace IQ Data from Memory.vi
1.6.2	09/2004	Modifications - Added: RSFSP Initiate Hardcopy To File.vi - Fixed: RSFSP Error Query.vi RSFSP Read Trace IQ Data.vi RSFSP Read Trace Data.vi RSFSP Read To File From Instrument.vi RSFSP Write From File To Instrument.vi RSFSP Check Error.vi RSFSP Analog Demodulation Meas Time.vi RSFSP Signal Track.vi RSFSP Get Channel Power Value.vi RSFSP CDP C2k Channel Table Catalog.vi RSFSP WCDP Channel Table Catalog.vi RSFSP WCDP MS Channel Table Catalog.vi RSFSP Signal Statistics.vi RSFSP Analog Demodulation BW.vi RSFSP Coupling Settings.vi RSFSP Limit Lines Data.vi RSFSP Noise ENR Settings.vi RSFSP Noise Gain Trace Settings.vi RSFSP Noise Trace Settings.vi RSFSP Noise LO Frequency.vi RSFSP Noise Sweep Time.vi RSFSP Noise Loss Input Settings.vi RSFSP Noise Loss Output Settings.vi RSFSP Noise Ref Level.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Bluetooth Measurement Mode.vi RSFSP Configure CDP Measurement.vi RSFSP Set Status Register.vi RSFSP Channel Power Meas Mode.vi
1.6.1	07/2004	Modifications - Fixed RSFSP Read To File From Instrument.vi
1.6	04/2004	Modifications - Option checking added. - Parameters range checking added. - Error checking added.
1.5	04/2004	Modifications Driver update for FSP Spectrum Analyzer Firmware 2.30/3.30 List of updated options - K5 GSM/EDGE (2.30/3.30) - K72 3GPP FDD Base Station Test (2.30/3.30) - K73 3GPP FDD User Equipment Test (2.30/3.30) - K82 cdma2000 Base Station Test (2.30/3.30) List of new options: - K9 Power sensor measurements - K30 Noise Figure and Gain Measurements (2.30/3.30) - K74 3GPP HSDPA Base Station Test (2.30/3.30) - K76 TD-SCDMA Base Station Test (2.30/3.30) - K77 TD-SCDMA Mobile Station Test (2.30/3.30) - K83 cdma2000/1xEV-DV Mobile Station Test (2.30/3.30) - K84 1xEV-DO Base Station Test (2.30/3.30) - K85 1xEV-DO Mobile Station Test (2.30/3.30) - K90 WLAN 802.11a TX Tests (2.30/3.30) (ported from FSQ driver) Updated VIs (Base + Misc): - Channel Power Trigger Count.vi - value range extended - Channel Power Standard.vi - new WLAN standards added - Coupling Settings.vi - Filter Type range extended - Analog Demodulation Type.vi - PM modulation added - Get Analog Demod Value.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - AM and PM modulation added - Signal Statistics.vi <ul style="list-style-type: none"> - added additional parameter's items - Get N dB Down Marker Value.vi <ul style="list-style-type: none"> - Also available in zero span mode - Emulation.vi <ul style="list-style-type: none"> - parameter values added - Analog Demodulation Demod BW.vi <ul style="list-style-type: none"> - parameter values added - Analog Demodulation BW.vi <ul style="list-style-type: none"> - parameter values added - Analog Demod RF Param.vi <ul style="list-style-type: none"> - parameter values added - Limit Lines State.vi <ul style="list-style-type: none"> - added 'comment' parameter value - Limit Lines Parameters.vi <ul style="list-style-type: none"> - moved to obsolete functions - Set Limit Lines Offset.vi <ul style="list-style-type: none"> - moved to obsolete functions - Marker Opt.vi <ul style="list-style-type: none"> - fixed control description - WCDP Channel Table Data.vi <ul style="list-style-type: none"> - channel type (former pitch flag) is improved - Read WCDP Trace Data.vi <ul style="list-style-type: none"> - CWCDp and ABITstream added, functionality improved - Read WCDMA Trace Data.vi <ul style="list-style-type: none"> - description update, functionality improved - WCDP Measurement Mode.vi <ul style="list-style-type: none"> - new modes added, description changed - Get WCDP Measurement.vi <ul style="list-style-type: none"> - new meas added, description changed - WCDPower Mode.vi <ul style="list-style-type: none"> - option added, description changed - WCDPower MS Mode.vi <ul style="list-style-type: none"> - option added, description changed - Get C2k CDP Measurement.vi <ul style="list-style-type: none"> - description changed - Configure C2k Band Class.vi <ul style="list-style-type: none"> - additional classes added, skipped optional "[:BTS]", option added - Configure C2k Measurement.vi <ul style="list-style-type: none"> - skipped optional "[:BTS]", option added, parameter's item added

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - CDP Measurement Mode.vi <ul style="list-style-type: none"> - option added, parameter items added - SEM Limit Line.vi <ul style="list-style-type: none"> - option added - CDP Marker To.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table File.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table Name.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table Data.vi <ul style="list-style-type: none"> - option added, parameters adjusted for options - CDP C2k Channel Table Comment.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table Copy.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table Delete.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table Catalog.vi <ul style="list-style-type: none"> - option added - CDP C2k Channel Table.vi <ul style="list-style-type: none"> - option added - C2k CDPower Mode.vi <ul style="list-style-type: none"> - description changed - CDP Inactive Channel Treshold.vi <ul style="list-style-type: none"> - option added - CDP Side Band.vi <ul style="list-style-type: none"> - option added - CDP Level Auto Adjust.vi <ul style="list-style-type: none"> - option added - CDP Code Number.vi <ul style="list-style-type: none"> - option added - CDP Signal Mapping.vi <ul style="list-style-type: none"> - option added - CDP Spreading Factor.vi <ul style="list-style-type: none"> - option added - CDP Normalize.vi <ul style="list-style-type: none"> - option added - CDP Q Invert.vi <ul style="list-style-type: none"> - option added - CDP Preference.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		<ul style="list-style-type: none"> - option added, additional item added - CDP C2k IQ Length.vi - option added, range checking changed - CDP C2k Order.vi - option added - CDP C2k Timing And Phase Offs.vi - option added - Read C2k Trace Data.vi - option added, functionality improved - CDP Scrambling Code.vi - option added - Set Active Window.vi - an alias command is provided (:DISPlay::SSElect) <p>New VIs:</p> <ul style="list-style-type: none"> RSFSP Read Multi Frame Data.vi RSFSP 1xEV-DO CDPower Mode.vi RSFSP 1xEV-DO CDPower MS Mode.vi RSFSP Analog Demod Phase Wrap.vi RSFSP Analog Demod PM Units.vi RSFSP Analog Demod Zero Phase Ref Point.vi RSFSP C2k CDPower MS Mode.vi RSFSP CDP Analysis Base.vi RSFSP CDP Averaging.vi RSFSP CDP C2k Channel Table Restore.vi RSFSP CDP Channel Table Catalog.vi RSFSP CDP Channel Table Comment.vi RSFSP CDP Channel Table Copy.vi RSFSP CDP Channel Table Data.vi RSFSP CDP Channel Table Delete.vi RSFSP CDP Channel Table File.vi RSFSP CDP Channel Table Midamble Shift.vi RSFSP CDP Channel Table Name.vi RSFSP CDP Channel Table Order.vi RSFSP CDP Channel Table.vi RSFSP CDP Channel Type.vi RSFSP CDP Frame to Analyze.vi RSFSP CDP IQ Length.vi RSFSP CDP Long Code Mask.vi RSFSP CDP Long Code Offset.vi RSFSP CDP Midamble Shift.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP CDP Operation Mode.vi
		RSFSP CDP Order.vi
		RSFSP CDP Overview Display.vi
		RSFSP CDP PN Offset.vi
		RSFSP CDP RF Slot.vi
		RSFSP CDP Signal Mapping Mode.vi
		RSFSP CDP Slot.vi
		RSFSP CDP Standard.vi
		RSFSP CDP Subframes.vi
		RSFSP CDP Switching Point.vi
		RSFSP CDP Timing And Phase Offset.vi
		RSFSP Configure CDP Measurement.vi
		RSFSP Fetch Noise Measurement Result (Array).vi
		RSFSP Fetch Noise Measurement Result (Scalar).vi
		RSFSP Fetch PWR Meter Result.vi
		RSFSP Frequency Axis Mode.vi
		RSFSP Get 1xEV-DO CDP Measurement.vi
		RSFSP Get 1xEV-DO CDP MS Measurement.vi
		RSFSP Get Sweep Count.vi
		RSFSP Get TD-SCDMA CDP Measurement.vi
		RSFSP GSM Burst Meas Filter.vi
		RSFSP GSM Burst Search Threshold.vi
		RSFSP GSM Burst Search.vi
		RSFSP GSM Burst Time Meas High Resolution.vi
		RSFSP GSM Sync Search.vi
		RSFSP GSM Trigger Free Run.vi
		RSFSP Limit Check Result Clear.vi
		RSFSP Limit Lines Data.vi
		RSFSP Limit Lines Domain.vi
		RSFSP Limit Lines Margin.vi
		RSFSP Limit Lines Measurement Type.vi
		RSFSP Limit Lines Mode.vi
		RSFSP Limit Lines Offset.vi
		RSFSP Limit Lines Shift.vi
		RSFSP Limit Lines Switch.vi
		RSFSP Limit Lines Threshold.vi
		RSFSP Limit Lines Trace.vi
		RSFSP Limit Lines Units.vi
		RSFSP Noise 2nd Stage Correction State.vi
		RSFSP Noise 2nd Stage Correction.vi
		RSFSP Noise Average.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Noise DUT Range.vi
		RSFSP Noise DUT Settling Time.vi
		RSFSP Noise DUT Type.vi
		RSFSP Noise ENR Settings.vi
		RSFSP Noise ENR Table.vi
		RSFSP Noise Fixed IF Frequency.vi
		RSFSP Noise Frequency Measurement.vi
		RSFSP Noise Frequency Table.vi
		RSFSP Noise Frequency.vi
		RSFSP Noise Gain Trace Settings.vi
		RSFSP Noise Generator Automatic Control.vi
		RSFSP Noise Generator Frequency.vi
		RSFSP Noise Generator Level.vi
		RSFSP Noise Generator Settings.vi
		RSFSP Noise Image Rejection.vi
		RSFSP Noise LO Frequency.vi
		RSFSP Noise Loss Input Settings.vi
		RSFSP Noise Loss Input Table.vi
		RSFSP Noise Loss Output Settings.vi
		RSFSP Noise Loss Output Table.vi
		RSFSP Noise Measurement Mode.vi
		RSFSP Noise Pre-amplifier.vi
		RSFSP Noise Pre-selector.vi
		RSFSP Noise Ref Level.vi
		RSFSP Noise Resolution Bandwidth.vi
		RSFSP Noise RF Attenuation.vi
		RSFSP Noise Start Frequency.vi
		RSFSP Noise Step Frequency.vi
		RSFSP Noise Stop Frequency.vi
		RSFSP Noise Sweep Time.vi
		RSFSP Noise Trace Display.vi
		RSFSP Noise Trace Settings.vi
		RSFSP PVT Limit Line.vi
		RSFSP PWR Meter Frequency Coupling.vi
		RSFSP PWR Meter Frequency.vi
		RSFSP PWR Meter Meas Time.vi
		RSFSP PWR Meter Reference Value.vi
		RSFSP PWR Meter Result Display.vi
		RSFSP PWR Meter Sensor Zeroing.vi
		RSFSP PWR Meter State.vi
		RSFSP PWR Meter Units.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Read C2k CDP Trace Data.vi RSFSP Read CDP Trace Data.vi RSFSP Read PWR Meter Result.vi RSFSP SEM Limit Line Check.vi RSFSP Setup Transducer Ref Level Adj.vi RSFSP TD-SCDMA CDPower Mode.vi RSFSP TD-SCDMA CDPower MS Mode.vi RSFSP Trigger Delay Compensation.vi RSFSP WLAN Spectrum Mask Select.vi --- New VIs (K90/K91) --- RSFSP Set Active Window.vi RSFSP WLAN Standard.vi RSFSP WLAN Center Frequency.vi RSFSP WLAN Channel No.vi RSFSP WLAN Auto Level.vi RSFSP WLAN External Attenuation.vi RSFSP WLAN Signal Level (RF).vi RSFSP WLAN Signal Level (Baseband).vi RSFSP WLAN Capture Time.vi RSFSP WLAN Overall Burst Count.vi RSFSP WLAN Trigger Mode.vi RSFSP WLAN Trigger Offset.vi RSFSP WLAN Trigger Level.vi RSFSP WLAN Swap IQ.vi RSFSP WLAN Baseband Input.vi RSFSP WLAN IQ Input.vi RSFSP WLAN Balanced Input.vi RSFSP WLAN Low Pass Input.vi RSFSP WLAN Dither Input.vi RSFSP WLAN Signal Symbol Field.vi RSFSP WLAN Burst Type.vi RSFSP WLAN Demodulator.vi RSFSP WLAN PSDU Modulation.vi RSFSP WLAN Equal Burst Length.vi RSFSP WLAN No of Data Symbols.vi RSFSP WLAN Min (Max) No of Data Symbols.vi RSFSP WLAN Channel Estimation in Preamble and Payload RSFSP WLAN Tracking Phase.vi RSFSP WLAN Tracking Timing.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP WLAN Tracking Level.vi RSFSP WLAN Gating.vi RSFSP WLAN Gate Delay.vi RSFSP WLAN Gate Length.vi RSFSP WLAN Marker State.vi RSFSP WLAN Marker All Off.vi RSFSP WLAN Marker to Trace.vi RSFSP WLAN Marker Position (x).vi RSFSP WLAN Marker Position (y).vi RSFSP WLAN Marker Carrier.vi RSFSP WLAN Marker Symbol.vi RSFSP WLAN Display Table.vi RSFSP WLAN Mode.vi RSFSP WLAN Measurement Mode.vi RSFSP WLAN Constellation Carrier Select.vi RSFSP WLAN Power Versus Time Select.vi RSFSP WLAN Marker Zoom.vi RSFSP WLAN Get Channel Power.vi RSFSP WLAN Get Marker Position (x).vi RSFSP WLAN Get Marker Position (y).vi RSFSP WLAN Get Marker Carrier.vi RSFSP WLAN Get Marker Symbol.vi RSFSP Fetch WLAN Burst Preamble Power.vi RSFSP Fetch WLAN Burst Payload Power.vi RSFSP Fetch WLAN Burst RMS Power.vi RSFSP Fetch WLAN Burst Peak Power.vi RSFSP Fetch WLAN Burst Crest Factor.vi RSFSP Fetch WLAN Frequency Error.vi RSFSP Fetch WLAN Symbol Error.vi RSFSP Fetch WLAN IQ Offset Error.vi RSFSP Fetch WLAN IQ Imbalance Error.vi RSFSP Fetch WLAN Quadrature Offset Error.vi RSFSP Fetch WLAN EVM Results.vi RSFSP Read WLAN Trace Data.vi
1.4.8	03/2004	Modifications: - Fixed RSFSP Setup Transducer Def.vi
1.4.7	01/2004	Modifications: - Added Remote-control command(s) to each VI's description - Sample rate value range changed (RSFSP Trace IQ Set.vi and RSFSP Trace IQ Sampling Rate.vi) - File transfer from FSP to the PC and vice versa: RSFSP Read To File From Instrument.vi

FSP, FSL driver history		
FSP, FSL, FSV driver history for LabVIEW		
Revision	Date	Note
		RSFSP Write From File To Instrument.vi - Minor changes in help text - Fixed connector: RSFSP Channel Power Meas Limit.vi RSFSP Get Analog Demod Value.vi RSFSP Initiate Hardcopy.vi RSFSP Marker Demodulation.vi
1.4.6	11/2003	Modifications: -Changed function: RSFSP Trigger.vi
1.4.5	10/2003	Modifications: Changed functions: RSFSP Channel Power Standard.vi RSFSP Get Status.vi
1.4.4	06/2003	Modifications: The associated measurement window can be selected with the numeric suffix of comand TRACe<1 2>. Global variable is added to allow select measurement window with the existing trace data VIs. - Changed VIs RSFSP Copy Trace.vi RSFSP Read Trace Data.vi RSFSP Write Trace Data.vi - New VIs RSFSP Read WCDMA Trace Data.vi RSFSP Read WCDP Trace Data.vi RSFSP Read C2k Trace Data.vi
1.4.3	04/2003	Modifications: New VI: RSFSP Marker Search Limits.vi - RSFSP Get Peaks Values.vi fixed command string - RSFSP Marker Search Parameter.vi Range checkig for Search Limits is skipped This driver supports the options: B2-B4, B6, B9, B10, B15, B16, B25, K5, K7, K8, K72, K73, K82

About Rohde & Schwarz

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Regional contact

Europe, Africa, Middle East

+49 1805 12 42 42* or +49 89 4129 137 74

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

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Rohde & Schwarz GmbH & Co. KG

Mühlendorfstraße 15 | D - 81671 München

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

www.rohde-schwarz.com