

LabWindows/CVI, VXIppnp driver history for the R&S® Vector Network Analyzers

Products:

| R&S®ZNA



| R&S®ZND



| R&S®ZNB



| R&S®ZNB1



| R&S®ZNC

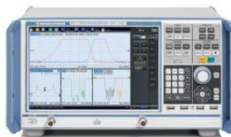


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1 Supported Instruments

In the following table, the supported Rohde & Schwarz instruments and firmware versions are listed:

| Which instruments are supported? | | |
|----------------------------------|--------------------|---------|
| Instrument | Supported Firmware | Remarks |
| ZNA | 2.71 | |
| ZNB | 3.45 | |
| ZNC | 2.94 | |
| ZND | 3.45 | |
| ZNBT | 3.45 | |

2 LabWindows/CVI and VXIplug&play history

| rsvna Instrument Driver | | |
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| Driver history for LabWindows/CVI and VXIplug&play | | |
| Revision | Date | Note |
| 3.46.0 | 01/2023 | <ul style="list-style-type: none"> * Update for ZNA FW 2.71 * New: - rsvna_SelectNoiseDensity - rsvna_SelectSpectrumReference - rsvna_SelectHarmonicMeasurementTHD - rsvna_SelectTwoToneGroupDelayMeasurement - rsvna_ConfigureTimeGateLinking - rsvna_ConfigurePowerALCClamp - rsvna_ConfigureSweepOnlyActiveChannelOn - rsvna_ConfigureSweepMinimumWaitTime - rsvna_ConfigureSweepFixedWaitTime - rsvna_ConfigureSweepManualWaitTimeEnabled - rsvna_ConfigureSweepMinimumWaitTimeInitializationChannel - rsvna_ConfigureSweepMaximumWaitTimePort - rsvna_ConfigureSweepMinimumWaitTimePort - rsvna_ConfigureSweepSegmentWaitTimeFixed - rsvna_ConfigureSweepSegmentWaitTimeFixedMaximum - rsvna_ConfigureSweepSegmentWaitTimeFixedMinimum - rsvna_ConfigureSweepTimingInfoBoxEnabled - rsvna_ConfigureSweepGenerationMode - rsvna_CalibrationDelayMixer - rsvna_ConfigureCalibrationInternalCombinerEnabled - rsvna_CalibrationConverterOffset - rsvna_ConfigureCalibrationValidationAverageEnabled - rsvna_ConfigureCalibrationValidationFormat - rsvna_CalibrationValidationPreset - rsvna_QueryCalibrationValidationResult - rsvna_CalibrationValidationImaginary - rsvna_CalibrationValidationReal - rsvna_ConfigureMETASUncertainlyBand - rsvna_ConfigureNoiseFigureCalibrationVirtualImageRejection - rsvna_ConfigureNoiseFigureCalibrationSegmentVirtualImageRejection - rsvna_ConfigureNoiseFigureCalibrationSegmentVirtualImageControlEnabled - rsvna_ConfigureNoiseFigureQuicksetExternalAttenuatorReceiver - rsvna_ConfigureNoiseFigureQuicksetExternalAttenuatorSource - rsvna_ConfigureNoiseFigureQuicksetTraceNoise - rsvna_ConfigureNoiseFigureQuicksetDUTExpectedNoiseFigure - rsvna_ConfigureNoiseFigureQuicksetDUTExpectedGain - rsvna_ConfigureNoiseFigureQuicksetDUTPower - rsvna_NoiseFigureQuicksetExecute - rsvna_SourceLevelingClearAll - rsvna_SourceLevelingClear - rsvna_SourceLevelingRemove - rsvna_ConfigureSourceLevelingLoad - rsvna_ConfigureSourceLevelingStore - rsvna_ConfigureSourceLevelingNumberOfPoints - rsvna_ConfigureSourceLevelingStartFrequency - rsvna_ConfigureSourceLevelingStopFrequency |

| rsvna Instrument Driver | | |
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| | | <ul style="list-style-type: none"> - rsvna_ConfigureSourceLevelingStartPower - rsvna_ConfigureSourceLevelingStopPower - rsvna_ConfigureSourceLevelingALCStepSize - rsvna_ConfigureSourceLevelingPowerStepSize - rsvna_QuerySourceLevelingState - rsvna_SourceLevelingStartCalSweep - rsvna_ConfigureSourceLevelingPortEnabled - rsvna_ConfigurePremeasurementEnabled - rsvna_ConfigurePremeasurementMode - rsvna_ConfigurePremeasurementPortEnabled - rsvna_ConfigurePremeasurementConvergenceFactor - rsvna_ConfigurePremeasurementDetector - rsvna_ConfigurePremeasurementMaxPrecalSweeps - rsvna_ConfigurePremeasurementTolerance - rsvna_ConfigurePremeasurementReceiver - rsvna_ConfigureSourcePowerThruMeas - rsvna_QueryTriggerStatusReady - rsvna_TriggerReadyTimeout - rsvna_ConfigurePulseALCMeasurementDelay - rsvna_ConfigureGainCompressionSkip - rsvna_ConfigureGainCompressionSkipOffset - rsvna_ConfigureSpectrumDetectorZeroPadding - rsvna_ConfigureTDREyeTransferRateUnits - rsvna_ConfigureIndependentGeneratorEnabled - rsvna_ConfigureIndependentGeneratorFrequency - rsvna_ConfigureIndependentGeneratorPower - rsvna_ConfigureIndependentGeneratorRFOff - rsvna_ConfigureIndependentGeneratorPortEnabled - rsvna_ConfigureIndependentGeneratorPortFrequency - rsvna_ConfigureIndependentGeneratorPortPower - rsvna_ConfigureIndependentGeneratorPortRFOff - rsvna_ConfigureIndependentGeneratorPortStepAttenuator - rsvna_ConfigureFormatIdentify - rsvna_GenericDeviceCalibrationMixer - rsvna_ConfigureConverterPortRFSlope <p>* Updated:</p> <ul style="list-style-type: none"> - rsvna_ConfigureSweepTimeMode - 'Sweep Time Mode' data type changed from ViBoolean to ViInt32 - rsvna_SelectCalibrationType - Updated 'Parameters' ring values - rsvna_SelectCalibrationTypeExtended - Updated 'Parameters' ring values - rsvna_LoadCalibrationDataFromCalGroupFile - Updated 'Standard' ring values - rsvna_CalibrationAutoType - Updated 'Cal Type' ring values - rsvna_CalibrationAutoTypeSimplified - Updated 'Cal Type' ring values - rsvna_ConfigureCalibrationAutoAssignmentType - Updated 'Cal Type' ring values - rsvna_ConfigureConnector - Updated 'Calibration Connector' ring values - rsvna_InsertNewSegment - not sending the last parameter for ZNA - rsvna_RedefineSegment - not sending the last parameter for ZNA |
| 3.45.0 | 11/2022 | <p>* Update for ZNB FW 3.45</p> <p>* New Core 4.3.0</p> <p>* New:</p> <ul style="list-style-type: none"> - Deembed Assistant (Class) - Coupon (Class) - DUT (Class) |

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| | | <ul style="list-style-type: none"> - rsvna_ConfigureTraceLOSupression - rsvna_ConfigureLimitCheckPoints - rsvna_ConfigureMarkerReferenceExcursion - rsvna_MarkerReferenceMaximum - rsvna_MarkerReferenceMinimum - rsvna_ConfigureMarkerReferenceThreshold - rsvna_MarkerSearchReference - rsvna_ConfigureMarkerTargetValueReference - rsvna_ConfigureMarkerTargetFormatReference - rsvna_MarkerTargetFormatReferenceSearchLeft - rsvna_MarkerTargetFormatReferenceSearchNext - rsvna_MarkerTargetFormatReferenceSearchRight - rsvna_MarkerTargetFormatReferenceSearchImmediate - rsvna_ConfigureMarkerTrackingReference - rsvna_ConfigureMarkerSearchRangeReference - rsvna_ConfigureSweepRangeToMarkerReference - rsvna_MarkerCenterSweepRangeToMarkerReference - rsvna_ConfigureMarkerSearchRangeShowLimitLinesReference - rsvna_CalibrationICSRepeat - rsvna_ConfigureCalibrationICSTemperatureCompensation - rsvna_ConfigureCalibrationICSUnknownThrough - rsvna_JoinCalibrations - rsvna_FixtureModelingISDCouponInvalidatesFilePath - rsvna_FixtureModelingISDDUTInvalidatesFilePath - rsvna_FixtureModelingISDRResetToDefault - rsvna_ConfigureFixtureModelingISDUseImpedanceCorrection - rsvna_ConfigureFixtureModelingDirectory - rsvna_FixtureModelingClearDefaultDirectory - rsvna_FixtureModelingSFDCouponInvalidatesFilePath - rsvna_FixtureModelingSFDDUTInvalidatesFilePath - rsvna_ConfigureFixtureModelingSFDUseImpedanceCorrection - rsvna_FixtureModelingSFDRResetToDefault - rsvna_FixtureModelingEZDDUTInvalidatesFilePath - rsvna_ConfigureFixtureModelingEZDPortOrder - rsvna_ConfigureFixtureModelingEZDResetToDefault - rsvna_FixtureModelingDeembedAssistantReset - rsvna_FixtureModelingDeembedAssistantRun - rsvna_ConfigureFixtureModelingDeembedAssistantUseSameCoupon - rsvna_ConfigureFixtureModelingDeembedAssistantIMPCorrect - rsvna_ConfigureFixtureModelingDeembedAssistantTool - rsvna_ConfigureFixtureModelingDeembedAssistantRightModel - rsvna_ConfigureFixtureModelingDeembedAssistantLeftModel - rsvna_FixtureModelingDeembedAssistantCouponLeftClear - rsvna_FixtureModelingDeembedAssistantCouponRightClear - rsvna_ConfigureFixtureModelingDeembedAssistantCouponLeftFile - rsvna_ConfigureFixtureModelingDeembedAssistantCouponRightFile - rsvna_ConfigureFixtureModelingDeembedAssistantCouponLeftMeasure - rsvna_ConfigureFixtureModelingDeembedAssistantCouponRightMeasure - rsvna_ConfigureFixtureModelingDeembedAssistantCouponLeftPort - rsvna_ConfigureFixtureModelingDeembedAssistantCouponRightPort - rsvna_ConfigureFixtureModelingDeembedAssistantCouponLeftType - rsvna_ConfigureFixtureModelingDeembedAssistantCouponRightType - rsvna_FixtureModelingDeembedAssistantDUTMeasure - rsvna_ConfigureFixtureModelingDeembedAssistantDUTPort - rsvna_ConfigureFixtureModelingDeembedAssistantDUTType |

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| | | <ul style="list-style-type: none"> - rsvna_ConfigureDeltaLDirectory - rsvna_DeltaLDirectoryDefault - rsvna_DisplaySplitAll - rsvna_DisplayOverlayAll - rsvna_SaveColorSchemeHCOPY - rsvna_RecallColorSchemeHCOPY - rsvna_ConfigureDisplayXAxisGridLabels - rsvna_QueryOPCCheckSelftest - rsvna_QueryLevelOPCCheckPort - rsvna_HUMSAddEvent - rsvna_HUMSUpdateCustomEvent - rsvna_HUMSUtilizationCreatesCustom - rsvna_QueryHUMSUtilizationAll - rsvna_HUMSUtilizationDeleteCustomAll - rsvna_HUMSUtilizationDeleteCustom - rsvna_QueryHUMSUtilizationHistoryDetailed - rsvna_ConfigureGenericDevicesCharacterization - rsvna_QueryGenericDeviceConfiguredDevices <p>* Updated:</p> <ul style="list-style-type: none"> - rsvna_ConfigurePowerMeterTestSetup - added parameter 'DeEmbedding Position' - rsvna_PowerMeterInsertCoefficient - added parameter 'DeEmbedding Position' - rsvna_PowerMeterDeleteCoefficient - added parameter 'DeEmbedding Position' - rsvna_PowerMeterTraceToList - added parameter 'DeEmbedding Position' - rsvna_QueryPowerMeterNumberOfPoints - added parameter 'DeEmbedding Position' - rsvna_QueryPowerMeterPointValues - added parameter 'DeEmbedding Position' - rsvna_ConfigureColorScheme - added 'User Defined Colours' to 'Color Scheme' parameter <p>* Deleted:</p> <ul style="list-style-type: none"> - rsvna_ReadInstrData |
| 3.35.1 | 03/2022 | <p>* Bugfix - affected functions:</p> <ul style="list-style-type: none"> - rsvna_TraceResponseData - rsvna_TraceResponseDataAll - rsvna_TraceResponseDataAllData - rsvna_TraceResponseDataAllSData - rsvna_ArbitraryTraceResponseData - rsvna_WriteMemoryTraceData |
| 3.35.0 | 12/2021 | <p>* Update for ZNA FW 2.30</p> <p>* New:</p> <ul style="list-style-type: none"> - Noise Figure (Class) - Spectrum (Class) - Gain Compression (Class) - Harmonic Measurement (Class) - Linearity Deviation (Class) - Power ALC (Class) - Advanced (Class) - Noise Figure (Class) - Mixer Phase (Class) - Direct Generator Receiver Access (Class) - Rear LO Out (Class) - Lost Trigger (Class) - Mixer Delay Measurements (Class) - Pulse Measurement (Class) |

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| | | <ul style="list-style-type: none"> - Source Coherence (Class) - Gain Compression (Class) - Spectrum (Class) - Generic Device (Class) - Frequency Converter (Class) - Leveling Dataset (Class) - rsvna_SelectMoreSParametersWithDetector - rsvna_ConfigureWaveQuantitiesPhaseNormalizationEnabled - rsvna_SelectNoiseLevel - rsvna_SelectMainTone - rsvna_MarkerSpectrumEqualsMarker - rsvna_SelectExternalDLL - rsvna_ConfigurePreamplifierEnabled - rsvna_ConfigurePreamplifierGain - rsvna_ConfigureChannelDynamicBwatLowFrequencies - rsvna_ConfigureChannelAnalogIFFilter - rsvna_ConfigureSweepWaitTimeperPoint - rsvna_ConfigureSweepModeControlledTiming - rsvna_ConfigureSweepTimeMode - rsvna_ConfigureSweepFastPowerSweep - rsvna_ConfigureSweepReverse - rsvna_ConfigureSweepTimerMode - rsvna_ConfigureCalibrationAutomaticVectorMixer - rsvna_ConfigureCalibrationNoiseDataReceivingPort - rsvna_ConfigureCalibrationSameSweepSetup - rsvna_ConfigureCalibrationSweepSetup - rsvna_ConfigureCalibrationReferenceReceiverAttenuation - rsvna_ConfigureCalibrationIMDMethod - rsvna_ConfigureCalibrationFastMultiportCorrection - rsvna_ConfigureCalibrationInterpolationMethod - rsvna_StartHarmonicReceiverCalibration - rsvna_StartHarmonicSourceCalibration - rsvna_ConfigureSourcePowerCalibration - rsvna_ConfigureElectronicSourceAttenuation - rsvna_ConfigureDummySourcePowerCalibrationEnabled - rsvna_ConfigureFastSourcePowerCalibrationEnabled - rsvna_ConfigureTrackLO - rsvna_QueryTrackLOFrequencyDifference - rsvna_ConfigureLOUsage - rsvna_ConfigurePhaseMode - rsvna_ConfigurePortConfigUsePrimedWaves - rsvna_ConfigurePortConfigPrimedWavesFrequency - rsvna_ConfigurePortConfigWavesFrequencyOffset - rsvna_ConfigurePortConfigReceiverFrequencyConversion - rsvna_ConfigureIntermodulationCombiner - rsvna_IntermodulationAddCWMode - rsvna_ConfigureTriggerExternalInput - rsvna_ConfigureAUXTriggerOutDelay - rsvna_ConfigureAUXTriggerOutSignalType - rsvna_ConfigureTriggerLogic - rsvna_ConfigureDeltaLSweepControlDynamicBandwidth - rsvna_ConfigureReferenceOscillatorSMAInputFrequency - rsvna_ConfigureReferenceOscillatorSMAOutputFrequency - rsvna_ConfigureUserDefinedLedColor - rsvna_ConfigureRFOffBehavior |

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| | | <ul style="list-style-type: none"> - rsvna_ConfigureSystemPresetMode - rsvna_ConfigurePortPowerLimitEnabled - rsvna_ConfigureExternalGeneratorLimit <p>* Updated:</p> <ul style="list-style-type: none"> - rsvna_SelectMoreRatiosWithDetector - Added Primed Wave Quantities - rsvna_SelectMoreWaveQuantitiesWithDetector - Added Primed Wave Quantities - rsvna_SelectCalibrationType - Parameters control updated - rsvna_SelectCalibrationTypeExtended - Parameters control updated - rsvna_StartCalibration - Parameters control updated - rsvna_LoadCalibrationDataFromCalGroupFile - Standard control updated - rsvna_CalibrationAutoType - Parameters control updated - rsvna_CalibrationAutoTypeSimplified - Parameters control updated - rsvna_ConfigureCalibrationAutoAssignmentType - Calibration Type control updated - rsvna_ConfigureMultipleTriggerSource - API changed - added Trigger Event (ZNA only) parameter - rsvna_ConfigureReference - Reference control updated <p>* Deleted:</p> <ul style="list-style-type: none"> - rsvna_SetFastSweepMode |
| 3.30.0 | 08/2021 | <p>Update for ZNB FW 3.30 New Core 4.2.0. The core is incompatible with the Cores 3.x. If you work with drivers that use both core 4.x and 3.x, please contact our customer support, we will update your Core 3.x drivers to the newest version.</p> <p>* New:</p> <ul style="list-style-type: none"> - External DLL (Class) - Validation (Class) - METAS (Class) - EaZy Deembedding (Class) - Advanced (Class) - Delta-L (Class) - Pipelining (Class) - HUMS (Class) - Service Date (Class) - rsvna_ConfigureFileDecimalPlaces - rsvna_ConfigureLimitLineTTLPassDefault - rsvna_ConfigureMarkerFormat - rsvna_ConfigureMarkerDefaultFormat - rsvna_ExternalDLLList - rsvna_ExternalDLLTaskList - rsvna_ConfigureExternalDLL - rsvna_QueryExternalDLLConfiguration - rsvna_AddExternalDLL - rsvna_RemoveExternalDLL - rsvna_SweepOptimizeChannelSwitchingAuto - rsvna_SweepOptimizeChannelSwitchingManual - rsvna_ConfigureCalibrationDetectorType - rsvna_ConfigureSourcePowerCalibrationPowerDeembedding - rsvna_RunCalibrationValidation - rsvna_ConfigureCalibrationValidationStandard - rsvna_ConfigureCalibrationValidationCharacterization - rsvna_ConfigureCalibrationValidationMagnitudeDeviation - rsvna_ConfigureCalibrationValidationPhaseDeviation - rsvna_ConfigureMETASCALibrationActive |

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| | | <ul style="list-style-type: none"> - rsvna_QueryMETASCableCatalog - rsvna_ConfigureMETASCableToPorts - rsvna_METASCableReconnection - rsvna_METASClearCableReconnectionHistory - rsvna_METASCableMovement - rsvna_METASClearCableMovementHistory - rsvna_ConfigureDrivingMode - rsvna_ConfigureDrivingModeAlternatedBlocks - rsvna_ConfigureAGCGlobalMethod - rsvna_ConfigureOneWayLossSecondFrequency - rsvna_ConfigureVirtualNetworkWaveDeEmbedEnabled - rsvna_ConfigureFixtureModelingEZDPortActive - rsvna_FixtureModelingEZDStartCouponMeasurement - rsvna_FixtureModelingEZDLoadTouchstoneFile - rsvna_ConfigureFixtureModelingEZDDUTPortActive - rsvna_FixtureModelingEZDMeasureDUT - rsvna_ConfigureFixtureModelingEZDLoadDUTFile - rsvna_FixtureModelingRunEZDSimulator - rsvna_ConfigureFixtureModelingEZDApplyToPortEnabled - rsvna_ConfigureFixtureModelingEZDGenerateSides - rsvna_ConfigureFixtureModelingEZDDCExtrapolationEnabled - rsvna_ConfigureFixtureModelingEZDImpedanceCorrection - rsvna_ConfigureDeltaLCharacterization - rsvna_ConfigureDeltaLPortOrder - rsvna_ConfigureDeltaLFrequenciesUseDefaultEnabled - rsvna_QueryDeltaLFrequencyListCount - rsvna_QueryDeltaLFrequencyList - rsvna_DeltaLAddUserFrequency - rsvna_DeltaLDeleteUserFrequency - rsvna_DeltaLDeleteAllUserFrequencies - rsvna_ConfigureDeltaLSweepControl - rsvna_QueryDeltaLSweepControlConfiguration - rsvna_ConfigureDeltaLSweepRange - rsvna_ConfigureDeltaLUseRecommendedTraceConfigurationEnabled - rsvna_ConfigureDeltaLShowTDRImpedancesEnabled - rsvna_DeltaLLoadMeasurementFile - rsvna_ConfigureDeltaLPortEnabled - rsvna_ConfigureDeltaLLineLength - rsvna_DeltaLMeasureLine - rsvna_DeltaLRun - rsvna_DeltaLClearAll1LMeasurements - rsvna_DeltaLClear1LMeasurementFile - rsvna_ConfigurePipeliningState - rsvna_QueryPipeliningChannelResults - rsvna_ConfigureExternalGeneratorState - rsvna_ConfigurePermanentSignalGeneratorState - rsvna_ConfigureHUMSEnabled - rsvna_HUMSExportHistoryToFile - rsvna_HUMSDeleteHistory - rsvna_HUMSDeleteDeviceHistory - rsvna_HUMSDeleteUtilizationHistory - rsvna_HUMSQueryDataFromInstrument - rsvna_HUMSSaveDataFromInstrumentToFile - rsvna_ConfigureHUMSSNMPCommunityStrings - rsvna_ConfigureHUMSSNMPSystemInfo |

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| | | <ul style="list-style-type: none"> - rsvna_QueryHUMSSNMPSystemInfo - rsvna_HUMSSNMPDefineUserProfile - rsvna_QueryHUMSSNMPUserList - rsvna_HUMSSNMPDeleteUser - rsvna_HUMSSNMPDeleteAllUsers - rsvna_HUMSTagDefineKeyValuePair - rsvna_QueryHUMSTagKeyValuePair - rsvna_QueryHUMSAIAllDeviceTags - rsvna_HUMSTagDelete - rsvna_HUMSTagDeleteAll - rsvna_HUMSUtilizationTrackingEnable - rsvna_QueryHUMSDeviceStatusSummary - rsvna_QueryServiceCalibrationLastDate - rsvna_QueryServiceCalibrationDueDate - rsvna_QueryServiceCalibrationDueState - rsvna_QueryServiceCalibrationInterval - rsvna_QueryServiceLastServiceDate - rsvna_QueryServiceDueState - rsvna_ErrorCount <p>* Updated:</p> <ul style="list-style-type: none"> - rsvna_ConfigurePrintPageSetup - Diagram areas updated - rsvna_ConfigurePrintColorScheme - Color schemes updated - rsvna_ConfigureFileSymmetricParams - Help updated - rsvna_ConfigureMarkerReferenceFormat - Rng values - rsvna_ConfigureBandwidth - Selectivity values updated - rsvna_ConfigureSweepType - Help updated - rsvna_LoadCalibrationDataFromCalGroupFile - Attr, Rng, stds - rsvna_ConfigureSourcePowerCalibrationPowerMeter - Attr deleted - rsvna_ConfigureSweepSequencerRFECCommand - Seq repcap removed from segmented - rsvna_ConfigureSweepSequencerGPIOVoltage - Seq repcap removed from segmented - rsvna_ConfigureSweepSequencerDelayTime - Seq repcap removed from segmented - rsvna_ConfigureSplitType - Range table values updated - rsvna_ConfigureSplitGrid - Attribute added - rsvna_ConfigureTDRStimulusRiseTime - Definition help, default updated <p>* Deleted:</p> <ul style="list-style-type: none"> - rsvna_ConfigureTraceProbeTipImpedance - rsvna_QueryTraceProbeTipImpedance |
| 3.11.1 | 04/2021 | <ul style="list-style-type: none"> - New core 3.13.0 - Adding missing header file to the installers |
| 3.11.0 | 08/2020 | <ul style="list-style-type: none"> - New core 3.10.0 - "Port" repeated capability now permits up to 312 physical ports <p>* New:</p> <ul style="list-style-type: none"> - Infinite Averaging (Class) - Distance To Fault (Class) - Display (Class) - Test (Class) - By Port Group (Class) - Fixture Modeling (Class) - Harmonic (Class) - Info Window (Class) - Menu Key (Class) |

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| | | <ul style="list-style-type: none"> - TDR (Class) - Data Memory (Class) - rsvna_FileListofFavoriteRecallSet - rsvna_ConfigurePrintColorScheme - rsvna_FileStoreDistancetoFaultCableTypes - rsvna_FileLoadDistancetoFaultCableTypes - rsvna_FileAddedComment - rsvna_ConfigureFileSymmetricParams - rsvna_DefineSweepandMeasurement - rsvna_DefineSweepandMeasurementWithArguments - rsvna_QuerySweepandMeasurementDefinition - rsvna_ConfigureTraceDisplayLabel - rsvna_ConfigureTraceProbeTipImpedance - rsvna_QueryTraceProbeTipImpedance - rsvna_TraceUserDefinedMathFormatted - rsvna_ConfigureTraceMathFormattedState - rsvna_ConfigureTraceMathFormattedFunction - rsvna_ConfigureTimeDomainVSWREnabled - rsvna_ConfigureTraceStatisticalReference - rsvna_ConfigureTraceStatisticalManualReferenceLevel - rsvna_ConfigureTraceStatisticalManualReferencePhase - rsvna_ConfigureTraceStatisticalReferenceMarker - rsvna_ConfigureTraceStatisticalReferenceRange - rsvna_ConfigureTraceStatisticalCompressionPhase - rsvna_TraceDataExtrapolation - rsvna_ConfigureLimitLineSegmentFormula - rsvna_ConfigureLimitLineSegmentInterpolation - rsvna_QueryLimitLineFailData - rsvna_ConfigureMarkerReferenceFormat - rsvna_ConfigureMarkerThreshold - rsvna_ConfigureMarkerCoupledMarkers - rsvna_ConfigureMarkerCouplingType - rsvna_ConfigureMarkerExcursion - rsvna_ConfigureMarkerMultiplePeakExcursion - rsvna_ConfigureMarkerMultiplePeakThreshold - rsvna_ConfigureSweepSegmentPortLevel - rsvna_SelectCalibrationTypeSimple - rsvna_ConfigureMulticalibrationType - rsvna_ConfigureCalibrationAutoMinimumConnect - rsvna_ConfigureCalibrationAutoCommonPort - rsvna_CalibrationTerminateSystemErrorCorrection - rsvna_CalibrationClean - rsvna_ConfigureCalibrationWaveCorrectionEnabled - rsvna_ConfigureCalibrationCalculateAfterDeembed - rsvna_ConfigureCalibrationStandard - rsvna_ConfigureSourcePowerFlatnessCalibrationState - rsvna_ConfigureSourcePowerFlatnessCalibrationMethod - rsvna_ConfigureSourcePowerCalibrationGeneratorMinimumSettlingDelay - rsvna_ConfigureSourcePowerSweepEndMode - rsvna_ConfigureSourcePowerSweepEndSettlingDelay - rsvna_ConfigureReferenceReceiverEnabled - rsvna_ConfigureGPIORange - rsvna_QueryGPIOShunt - rsvna_GPIOStartAllMeasurements - rsvna_ConfigureGPIOMeasurementTime |

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| | | <ul style="list-style-type: none"> - rsvna_QueryGPIOSum - rsvna_GPIOCurrentMeasurement - rsvna_GPIOCurrentMeasurementAll - rsvna_GPIOVoltageMeasurement - rsvna_GPIOVoltageMeasurementAll - rsvna_ConfigureParallelMeasurementPortGroupsPortOrder - rsvna_ConfigureParallelMeasurementPortGroupsWithFrequencyOffsetEnabled - rsvna_QueryParallelMeasurementPortGroupsStateIndicationWarning - rsvna_ConfigureFrequencyConversionMixer - rsvna_ConfigureAGCAIAndBWaves - rsvna_ConfigureAGCSegmentAllAAndBWaves - rsvna_LoadSingleEndedPortCircuitModelDataInverted - rsvna_ConfigureVirtualNetworkGroundLoopPerPortGroup - rsvna_ConfigureStartInPreset - rsvna_ConfigureSetAllTracesto0 - rsvna_ConfigureUserPortOptionalColumns - rsvna_ConfigureDisplayTitle - rsvna_ConfigureDisplayNumberOfTraceColours - rsvna_QuerySystemSCPICommands - rsvna_QueryImplementedSCPICommands - rsvna_SystemHelpSyntax - rsvna_ConfigureGPIBSupresses - rsvna_ConfigureHostname - rsvna_DisplayCorrectionWizardDialog - rsvna_QueryExternalSwitchMatrices - rsvna_QuerySwitchMatrixSerialNumber - rsvna_SetAttributeViInt64 - rsvna_GetAttributeViInt64 - rsvna_SetAttributeRawString - rsvna_GetAttributeRawString <p>* Updated:</p> <ul style="list-style-type: none"> - rsvna_ConfigureTraceFormat - Trace formats updated - rsvna_AddLimitLineSegment - Bug fixed, segment parameter now reserved - rsvna_ConfigureCircleLimitCheck - Ripple Check is now Circle Check - rsvna_ConfigureMarkerProperties - Fixed Marker values, help updated - rsvna_MarkerSearch - Search types updated - rsvna_ConfigureAverageMode - Modes, help updated - rsvna_ConfigureSweepMeasDelay - Delay range updated - rsvna_ConfigureSweepType - Sweep Types updated - rsvna_InsertNewSegment - Breaking: Parameters added - rsvna_RedefineSegment - Breaking: Parameters added - rsvna_ConfigureConnector - Connectors updated, ring value names and help corrected - rsvna_ReadCalibrationData - Error Terms, helps updated - rsvna_WriteCalibrationData - Error Terms, helps updated - rsvna_ReadCalibrationDataPort - Error Terms, helps updated - rsvna_WriteCalibrationDataPort - Error Terms, helps updated - rsvna_ReadSwitchMatrixCalibrationData - Error Terms updated - rsvna_WriteSwitchMatrixCalibrationData - Error Terms updated - rsvna_ReadSwitchMatrixCalibrationDataPort - Error Terms updated - rsvna_WriteSwitchMatrixCalibrationDataPort - Error Terms updated - rsvna_QueryCalibrationDataParametersSpecific - Types updated - rsvna_QueryCalibrationDataParametersPortSpecific - Types updated - rsvna_DeleteCalibrationKit - Help updated - rsvna_ConfigureCalibrationStandardWithLabel - Breaking: Many changes |

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| Revision | Date | Note |
| | | <ul style="list-style-type: none"> - rsvna_DeleteCalibrationKitWithLabel - Help updated - rsvna_QuerySourcePowerCalibrationDataParameters - Setting types, help updated - rsvna_PowerMeterSavePowerLossList - Breaking: Channel parameter added - rsvna_PowerMeterLoadPowerLossList - Breaking: Channel parameter added - rsvna_ConfigureFrequencyConversionMeasurementMode - Modes updated; bug fixed - rsvna_ConfigureAGCMode - Range table, default updated, parameter reserved - rsvna_ConfigureAUXTriggerOut - Per Point parameter (bool) now Interval (int) - rsvna_ConfigureVirtualNetworkSingleEndedPort - Ring value errors fixed - rsvna_ConfigureVirtualNetworkBalancedData - Interchange values updated - rsvna_ConfigureVirtualNetworkDifferentialMatchData - Helps - rsvna_DiagramAreaCatalog - Window is now Reserved - rsvna_ConfigureColorScheme - Schemes updated - rsvna_ConfigureCalibrationAutoAveraging - Avaraging now Averaging - rsvna_SetStatusRegister - Ring values now constants - rsvna_GetStatusRegister - Ring values now constants - rsvna_ConfigureSwitchMatrixState - Bug fixed, correctly resets Matrix repcap - rsvna_SetOPCTimeout - Timeout control changed to ViInt32 - rsvna_GetOPCTimeout - Timeout control changed to ViInt32 |
| 2.50.0 | 01/2019 | <ul style="list-style-type: none"> - New core 3.x.x - Added compatibility support for R&S ZNA Network Analyzer * New - rsvna_ConfigureAutoSystemErrQuery - rsvna_ConfigureMultiThreadLocking - rsvna_GetAttributeRepCapName - rsvna_GetOPCTimeout - rsvna_SetOPCTimeout * Modified - rsvna_ConfigureErrorChecking - changed API: added last parameter statusChecking |
| 2.42.0 | 01/2018 | <ul style="list-style-type: none"> * Breaking Changes: - Changed "Block Data" array parameter to content of a "Touchstone File": <li style="padding-left: 20px;">rsvna_ConfigureVirtualNetworkSingleEndedData <li style="padding-left: 20px;">rsvna_ConfigureVirtualNetworkBalancedData <li style="padding-left: 20px;">rsvna_ConfigureVirtualNetworkDifferentialMatchData |
| 2.41.0 | 12/2017 | <ul style="list-style-type: none"> * Modified: - rsvna_WriteFromFileToInstrument - fixed - added rsvna_queryDataUnknownLengthString_ReadCallback: <li style="padding-left: 20px;">RSVNA_ATTR_FILE_RECALL_SET_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_TRACE_CHANNEL_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_TRACE_CHANNEL_CATALOG_BALANCED_PORTS <li style="padding-left: 20px;">RSVNA_ATTR_TRACE_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_TRACE_NAME_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_TRACE_RESPONSE_S_DATA_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_CALIBRATION_CONNECTOR_TYPE_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_CHANNEL_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_DISPLAY_DIAGRAM_AREA_CATALOG <li style="padding-left: 20px;">RSVNA_ATTR_DISPLAY_TRACE_DIAGRAM_AREA_CATALOG |
| 2.40.0 | 04/2017 | <ul style="list-style-type: none"> * Analyzer port number extended from 8 to 24 * New: - rsvna_TraceExportDataPortsVariable * Breaking changes: |

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| | | - rsvna_ConfigureCalibrationStandard - deleted, replacement is rsvna_ConfigureCalibrationStandardExt |
| 2.30.0 | 11/2016 | <p>* Added more rigorous check for Repeated Capabilities</p> <p>* New:</p> <ul style="list-style-type: none"> - rsvna_ClearStatus - rsvna_IDQueryResponse - rsvna_ProcessAllPreviousCommands - rsvna_QueryOPC - rsvna_SetFastSweepMode - rsvna_SetVISATimeout - rsvna_GetVISATimeout <p>* Breaking Changes:</p> <ul style="list-style-type: none"> - rsvna_AddCalibrationKitAuto - added Timeout to API - rsvna_CalibrationAutoSimplified - added Timeout to API - rsvna_CalibrationAutoTypeSimplified - added Timeout to API - rsvna_CalibrationAutoType - added Timeout to API - rsvna_CalibrationAuto - added Timeout to API - rsvna_ConfigureCalibrationKitAuto - added Timeout to API <p>* Modified:</p> <ul style="list-style-type: none"> - rsvna_SelectRatios - SCPI command parameters corrected for Ratios 2 (b2/a2 Src Port 2) and 3 (b1/a2 Src Port 2) - rsvna_RecallSetManager - when loading Recall Set, dynamic repeated capabilities are synchronized with instrument's |
| 2.21.0 | 10/2015 | <p>* New:</p> <ul style="list-style-type: none"> - rsvna_SelectPowerSensorMeasurement - rsvna_ConfigureFrequencyMinMax - rsvna_ConfigureDisplayUpdate - rsvna_DisplayUpdateOnce - rsvna_ConfigureMarkerState <p>* Modified:</p> <ul style="list-style-type: none"> - rsvna_SelectRatios - SCPI command parameter array corrected - Line 3 (MM) Standard SCPI command parameter (value 9) corrected in these functions: <ul style="list-style-type: none"> - rsvna_QueryCalibrationUnitCharacterizationData - rsvna_ConfigureCalibrationStandard - rsvna_ConfigureCalibrationStandardExt - rsvna_LoadCalibrationKit - rsvna_ConfigureCalibrationStandardWithLabel - rsvna_LoadCalibrationKitWithLabel - rsvna_ReadCalibrationKitWithLabelSPParameterData |
| 2.20.2 | 01/2015 | <p>* Modified:</p> <ul style="list-style-type: none"> - rsvna_ActivatePowerCalibrations - added Channel parameter - RSVNA_ATTR_CALIBRATION_CONNECTOR_TYPE_CATALOG - repeated capability 'Channel' removed <p>* Deleted:</p> <ul style="list-style-type: none"> - RSVNA_ATTR_SWEEP_SEGMENT_NUMBER duplicated, use RSVNA_ATTR_QUERY_SWEEP_SEGMENT_COUNT instead |
| 2.20.1 | 12/2014 | * Added support for ZND instrument |
| 2.20.0 | 07/2014 | <p>* Support for firmware version 2.20</p> <p>* New:</p> <ul style="list-style-type: none"> - rsvna_ConfigureLogicalPortReferenceImpedanceDefault - rsvna_DeleteMemoryTraceAll - rsvna_DeleteMemoryTraceAllChannel - rsvna_ConfigureCalibrationStandardExt |

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| | | <ul style="list-style-type: none"> - rsvna_ConfigureCalibrationDelayMode - rsvna_LoadCalibrationKitWithLabel - rsvna_ReadCalibrationKitWithLabelSPParameterData - rsvna_ConfigureRFFESettings - rsvna_ConfigureRFFECCommand - rsvna_ConfigureGPIO - rsvna_QuerySweepSequencerCount - rsvna_DeleteAllSweepSequencerItems - rsvna_ConfigureSweepSequencerRFFECCommand - rsvna_ConfigureSweepSequencerGPIOVoltage - rsvna_ConfigureSweepSequencerDelayTime - rsvna_DefineParallelMeasurementPortGroup - rsvna_ConfigureParallelMeasurementPortGroupName - rsvna_ConfigureParallelMeasurementNumberOfPorts - rsvna_ConfigureParallelMeasurementDUTPort - rsvna_ConfigureOffsetCompensation - rsvna_DefineVirtualNetworkPortSet - rsvna_ImportFixtureCompensation - rsvna_ExportFixtureCompensation - rsvna_ConfigureRemoteEncoding - rsvna_QueryProgramReturnValue * Modified: - Removed range checking of attribute RSVNA_ATTR_STIMULUS_INTERNAL_SOURCE_POWER - rsvna_TraceExportDataPorts - changed API - rsvna_ConfigureCalibrationStandardWithLabel - rsvna_ConfigureVirtualNetworkSingleEndedPort - rsvna_ConfigureVirtualNetworkSingleEndedCircuitModel - rsvna_ConfigureVirtualNetworkBalancedPort - rsvna_ConfigureVirtualNetworkBalancedCircuitModel - rsvna_ConfigureVirtualNetworkPortPair - rsvna_ConfigureVirtualNetworkPortPairCircuitModel - rsvna_ConfigureVirtualNetworkGroundLoop - rsvna_ConfigureVirtualNetworkGroundLoopCircuitModel <p>2013-10-18, Martin Krcmar</p> <ul style="list-style-type: none"> * Version 1.93.0 * Support for firmware version 1.93 * New: - rsvna_TraceImportDataAutoDistribute - rsvna_QueryCalibrationDataParametersSpecific - rsvna_QueryCalibrationDataParametersPortSpecific - rsvna_QuerySourcePowerCalibrationDataParametersSwitchingMatrix - rsvna_DefineVirtualNetworkPortPair - rsvna_DeleteVirtualNetworkPortPair - rsvna_ConfigureVirtualNetworkPortPairState - rsvna_ConfigureVirtualNetworkPortPair - rsvna_ConfigureVirtualNetworkPortPairCircuitModel - rsvna_LoadPortPairCircuitModelData - rsvna_ConfigureVirtualNetworkGroundLoopState - rsvna_ConfigureVirtualNetworkGroundLoop - rsvna_ConfigureVirtualNetworkGroundLoopCircuitModel - rsvna_LoadGroundLoopCircuitModelData - rsvna_ConfigureVirtualNetworkDifferentialMatchState - rsvna_ConfigureVirtualNetworkDifferentialMatch - rsvna_ConfigureVirtualNetworkDifferentialMatchData |

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| | | <ul style="list-style-type: none"> - rsvna_ConfigureVirtualNetworkDifferentialMatchCircuitModel - rsvna_LoadDifferentialMatchCircuitModelData - rsvna_ConfigureRemotePreset * Modified: - rsvna_QuerySourcePowerCalibrationDataParameters |
| 1.93.0 | 10/2013 | <ul style="list-style-type: none"> * Support for firmware version 1.93 * New: - rsvna_TraceImportDataAutoDistribute - rsvna_QueryCalibrationDataParametersSpecific - rsvna_QueryCalibrationDataParametersPortSpecific - rsvna_QuerySourcePowerCalibrationDataParametersSwitchingMatrix - rsvna_DefineVirtualNetworkPortPair - rsvna_DeleteVirtualNetworkPortPair - rsvna_ConfigureVirtualNetworkPortPairState - rsvna_ConfigureVirtualNetworkPortPair - rsvna_ConfigureVirtualNetworkPortPairCircuitModel - rsvna_LoadPortPairCircuitModelData - rsvna_ConfigureVirtualNetworkGroundLoopState - rsvna_ConfigureVirtualNetworkGroundLoop - rsvna_ConfigureVirtualNetworkGroundLoopCircuitModel - rsvna_LoadGroundLoopCircuitModelData - rsvna_ConfigureVirtualNetworkDifferentialMatchState - rsvna_ConfigureVirtualNetworkDifferentialMatch - rsvna_ConfigureVirtualNetworkDifferentialMatchData - rsvna_ConfigureVirtualNetworkDifferentialMatchCircuitModel - rsvna_LoadDifferentialMatchCircuitModelData - rsvna_ConfigureRemotePreset * Modified: - rsvna_QuerySourcePowerCalibrationDataParameters |
| 1.90.0 | 08/2013 | <ul style="list-style-type: none"> * Support for firmware version 1.90 * New: - rsvna_SelectBalancedPortsSParameters - rsvna_TraceListBalancedPorts - rsvna_SelectCalibrationTypeExtended - rsvna_LoadCalibrationKitByGenderFromFile - rsvna_LoadCalibrationKitByGenderFromPool - rsvna_QueryCalibrationKitData - rsvna_QueryCalibrationKitInfo - rsvna_ConfigureVirtualNetworkSingleEndedData - rsvna_ConfigureVirtualNetworkBalancedData - rsvna_QuerySwitchMatrixRelayCount - rsvna_Configure User Defined Physical Port - rsvna_DeleteUserDefinedPhysicalPorts - RSVNA_ATTR_INIT_WAIT_STATE - RSVNA_ATTR_LOGICAL_PORT_ALINGMENT * Modified: - rsvna_SelectCalibrationType - rsvna_ConfigureVirtualNetworkSingleEndedPort - rsvna_ConfigureSweepNumberOfPoints - range fixed |
| 1.80.0 | 03/2013 | <ul style="list-style-type: none"> * Support for firmware version 1.80 * New: - rsvna_ConfigureMarkerTargetFormat - rsvna_GenerateDefaultCalibrationAutoAssignmentWithDetection |

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| | | <ul style="list-style-type: none"> - rsvna_QueryAllCalibrationAutoAssignmentCount - rsvna_AddCalibrationKitAuto - rsvna_StartAGCLearningSweep - rsvna_SaveAGCLearningResults - rsvna_ConfigureUserDefinedPresetCalibration - rsvna_ConfigureCalibrationAutoAveraging * Modified: - rsvna_GenerateDefaultCalibrationAutoAssignment - rsvna_ConfigureVirtualNetworkSingleEndedPort - rsvna_ConfigureVirtualNetworkSingleEndedCircuitModel - RSVNA_ATTR_CALIBRATION_CONNECTOR – bug fixed (affected function rsvna_ConfigureConnector) |
| 1.70.0 | 12/2012 | <p>Support for firmware version 1.70</p> <p>* New:</p> <ul style="list-style-type: none"> - Switch Matrix Support - Calibration Auto Assignment support - Logical Ports - Port Groups - rsvna_CreateTraceSParametersGroup - rsvna_ConfigureTimeGateOffsetActivation - rsvna_ClearLimitCheckResults - rsvna_ClearRippleLimitGlobalCheckResult - rsvna_ClearCircleLimitCheckResult - rsvna_QuerySweepSegmentNumber - rsvna_QueryCalibrationPortsState - rsvna_ConfigurePortConnectorTypes - rsvna_QueryCalibrationDataParametersCount - rsvna_ConfigureExternalPowerSParameterCorrection - rsvna_ConfigureCalibrationKitAuto - rsvna_QuerySourcePowerCalibrationDataParameters - rsvna_QuerySourcePowerCalibrationDataParametersCount - rsvna_ConfigureReceiverPowerAttenuation - rsvna_ConfigureReceiverFrequencyConversion - rsvna_ConfigureMixerInputSignal - rsvna_ConfigureCalibrationManagerState - rsvna_ConfigureUIDataFlowDirection - rsvna_ConfigureUIOutputPortsState - rsvna_ConfigureUIDigitalSignal <p>* Modified:</p> <ul style="list-style-type: none"> - rsvna_DefineBalancedPort - calls into new function rsvna_DefineLogicalPort - rsvna_DeleteBalancedPort - calls into new function rsvna_DeleteLogicalPort - rsvna_DeleteAllBalancedPorts - calls into new function rsvna_DeleteAllLogicalPorts - rsvna_SelectCalibrationType - added new calibration types - rsvna_ConfigureMixerPower |
| 1.61.0 | 05/2012 | <p>Support for ZNB, ZNC firmware version 1.61</p> <p>* New functions</p> <ul style="list-style-type: none"> - rsvna_ShowCircleLimits - rsvna_ConfigureCircleLimitCheck - rsvna_ConfigureCircleLimitLine - rsvna_QueryCircleLimitCheckResult - rsvna_ConfigureZoomOverview - rsvna_ConfigureLayoutSimplified - rsvna_ConfigureLayout |

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| | | <ul style="list-style-type: none"> - rsvna_JoinLayouts - rsvna_ConfigureCalibrationStandardWithLabels - rsvna_ConfigureCalibrationKitWithLabel - rsvna_ConfigureCalibrationKitUserConnectorTypeWithLabel - rsvna_CalibrationKitCatalogWithLabel - rsvna_CalibrationStandardsCatalogWithLabel - rsvna_ConfigureCalibrationKitLabelWithLabel - rsvna_DeleteCalibrationKitWithLabel - rsvna_ExportKitWithLabel - rsvna_QueryAvailableCalibrationDataCatalog - rsvna_QueryAvailableCalibrationDataCatalogPort - rsvna_ConfigureSweepMeasDelayInsertionPoint - rsvna_ConfigureIntermodulationCalSourcePort - rsvna_TemporaryDisableOption * New Attribute only: - RSVNA_ATTR_CIRCLE_FAIL_BEEP - RSVNA_ATTR_DISPLAY_TRACE_INFO_STATE - RSVNA_ATTR_ADJUST_TIME_GATE * Modified functions: - rsvna_ConfigureAGC - rsvna_ConfigureAGCSegment |
| 1.50.0 | 04/2012 | <p>Support for ZNB, ZNC firmware version 1.50</p> <p>Modifications:</p> <ul style="list-style-type: none"> * New subsystems: - Mixer (option K4) - Intermodulation Measurements (option K14) - Fixture Compensation - ENA support (AUX Trigger and Universal Interface) - Automatic Gain Control * Modified functions: - rsvna_StartCalibration - added Power Meter - rsvna_ConfigureMarkerBandfilterSearchMode - added None search mode * New functions - rsvna_QueryFrequencyRange - rsvna_ConfigureAverageMode - rsvna_ActivatePowerCalibrations - rsvna_SystemVersion - rsvna_setCheckStatus - rsvna_ConfigureSplitType - rsvna_ConfigureSplitGrid *Fixed: - rsvna_TraceListCatalog - fixed wrong attribute access that caused sending command with double question mark (RCDRV00001881) - rsvna_ConfigureSourcePowerCalibrationGeneratorOffset - incorrect attribute used |
| 1.40.0 | 01/2012 | <p>Support for ZNB, ZNC firmware version 1.40</p> <p>Modifications:</p> <ul style="list-style-type: none"> * New subsystems: - Power Added Efficiency - Source Power Calibration - Receiver Power Calibration - Power Meter Transmission Coefficients - Port Config |

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| | | <ul style="list-style-type: none"> - External Devices * Modified functions: <ul style="list-style-type: none"> - rsvna_ConfigureDCRange - parameters changed - rsvna_ConfigureAcquisition - attribute RSVNA_ATTR_SWEEP_MODE_CONTINUOUS_ALL_CHANNEL added - rsvna_SelectCalibrationType - bug fixed - rsvna_CalibrationAutoType - Parameters - Full N-port for SMARTerCal added - rsvna_CalibrationAutoTypeSimplified - Parameters - Full N-port for SMARTerCal added - rsvna_QueryCalibrationConnection - Channel ignored - rsvna_ConfigureConnector - BNC added * New functions: <ul style="list-style-type: none"> - rsvna_TraceDeleteAll - rsvna_TraceDeleteAllChannels - rsvna_TraceResponseDataAllSData - rsvna_TraceResponseSDataCatalog - rsvna_TraceResponseSingleSweepDataFirstLast - rsvna_ConfigurePowerStartStop - rsvna_ConfigureSweepStimulusAxis - rsvna_ConfigureSweepSegmentXAxis - rsvna_CalibrationAutoPower - rsvna_ConfigureCalibrationExternalPowerMeter - rsvna_QueryCalibrationUnitCharacterizationsStandards - rsvna_ReadCalibrationDataPort - rsvna_WriteCalibrationDataPort - rsvna_QueryCalibrationStimulusFrequenciesPort - rsvna_QueryCalibrationDataParametersPort - rsvna_ConfigureCalibrationKitPassword - rsvna_SaveCalibrationKit - rsvna_ConfigureTouchscreenLock - rsvna_ConfigureUserKeyFunction * New Attribute only: <ul style="list-style-type: none"> - RSVNA_ATTR_LOAD_MATCH_CORRECTION_STATE - RSVNA_ATTR_CALIBRATION_ALL_CHANNELS_STATE - RSVNA_ATTR_DISPLAY_TRACE_COLOR_FOR_LIMIT_LINES - RSVNA_ATTR_DISPLAY_COLORIZE_FAILED_SEGMENTS - RSVNA_ATTR_DISPLAY_SHOW_FAILED_SYMBOLS - RSVNA_ATTR_CALIBRATION_AUTOMATIC_POWER_REDUCTION - RSVNA_ATTR_STATISTICAL_COMPRESSION_POINT_RESULT_STATE - RSVNA_ATTR_DISPLAY_FREQUENCY_INFO_STATE - RSVNA_ATTR_DISPLAY_CHANNEL_INFO_STATE - RSVNA_ATTR_DISPLAY_ALL_MARKERS_SAME_COLOR - RSVNA_ATTR_DISPLAY_TRACE_COLORS_PER_DIAGRAM - RSVNA_ATTR_DISPLAY_FONT_SIZE - RSVNA_ATTR_NUMBER_OF_TEST_PORTS - RSVNA_ATTR_SOURCE_POWER_CALIBRATION_OTHER_SOURCES - RSVNA_ATTR_CALIBRATION_AUTOMATIC_MEMORY_STATE - RSVNA_ATTR_DISPLAY_HARDKEY_PANEL_STATE - RSVNA_ATTR_DISPLAY_MENU_BAR_STATE - RSVNA_ATTR_DISPLAY_STATUS_BAR_STATE - RSVNA_ATTR_DISPLAY_SOFTTOOL_PANEL_STATE - RSVNA_ATTR_DISPLAY_TITLE_BAR_STATE - RSVNA_ATTR_DISPLAY_TOOLBAR_STATE |

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| | | - RSVNA_ATTR_REPEAT_PREVIOUS_CALIBRATION_CURRENT |
| 1.20.0 | 07/2011 | Support for ZNB, ZNC firmware version 1.20 |
| 1.0.0 | 06/2011 | Initial release |