

# IVI.NET driver history for the R&S® RTB2000 / RTM3000 / RTA4000 Digital Oscilloscopes Driver Documentation

## Products:

| R&S® RTB2000 / RTM3000 / RTA4000



Driver history for IVI.NET - C# and Visual Basic .NET

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# 1 Supported Instruments

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

Which instruments are supported?		
Current revision of instrument driver supports these instruments and firmware versions:		
Instrument	Supported Firmware	Remarks
RTB2000	2.202	
RTM2000	6.010	
RTM3000	1.600	
RTA4000	1.600	

## 2 Getting Started

For detailed description on how to use the driver please refer to the Application Note [1MA268 - How to use Rohde & Schwarz IVI.NET instrument drivers](#)

## 3 IVI.NET driver history

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
1.5.0	01/2021	* New core 2.12.0 – there is only one universal driver assembly compiled for AnyCPU. You can use it for 32-bit, 64-bit, or AnyCPU builds.
1.4.0	04/2020	<p>* Added support for RTM3000 / RTA4000 FW 1.600</p> <p>* New properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Probe.CopyToOffset</li> <li>- RsRtx.Probe.AttenuatorRTZA15Enabled</li> <li>- RsRtx.Probe.ZeroAdjust</li> <li>- RsRtx.Probe.ProbeSaveZeroAdjust</li> <li>- RsRtx.Probe.InputVoltageRange</li> <li>- RsRtx.Probe.BandwidthLimit</li> <li>- RsRtx.Probe.AudibleOverrange</li> <li>- RsRtx.Probe.MeasMode</li> <li>- RsRtx.Probe.ProbeACCoupling</li> <li>- RsRtx.Probe.ProbeMeter.Visibility</li> <li>- RsRtx.Probe.ProbeMeter.ResultSingle</li> <li>- RsRtx.Probe.ProbeMeter.ResultCommon</li> <li>- RsRtx.Probe.ProbeMeter.ResultDifferential</li> <li>- RsRtx.Probe.ProbeMeter.ResultNegative</li> <li>- RsRtx.Probe.ProbeMeter.ResultPositive</li> <li>- RsRtx.Trigger.ActionsOnTrigger.Enabled</li> <li>- RsRtx.Trigger.ActionsOnTrigger.Sound</li> <li>- RsRtx.Trigger.ActionsOnTrigger.Screenshot</li> <li>- RsRtx.Trigger.ActionsOnTrigger.SaveWaveform</li> <li>- RsRtx.Trigger.ActionsOnTrigger.References</li> <li>- RsRtx.Trigger.ActionsOnTrigger.PulseOut</li> <li>- RsRtx.Measurements.Main.DelayMarkerVisible</li> <li>- RsRtx.Measurements.Main.DelayDirection()</li> <li>- RsRtx.Measurements.AutomaticMeasurementsStatistics.TimeoutAuto</li> <li>- RsRtx.Measurements.AutomaticMeasurementsStatistics.Timeout</li> </ul> <p>* Modified properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Measurements.Main.AmplitudeTime - DTO Trigger is new.</li> </ul> <p>* Deleted properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Mask.Print</li> <li>- RsRtx.UtilityFunctions.IDQueryResponse</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>* Modified Range Tables:</li> <li>- AmplitudeTimeMeasurementType - RSRTX_ATTR_AMPT_MAIN_MEASUREMENT</li> <li style="text-align: center;">New items: DTOTrigger</li> </ul>
1.3.0.0	01/2020	<ul style="list-style-type: none"> <li>* New Core version 2.8.3.41</li> <li>* Added support for RTB2000, FW 2.202, RTM3000, FW 1.550, RTA4000 FW 1.550</li> <li>* New properties/methods:</li> <li>- RsRtx.Acquisition.NumberOfAveragesCurrent</li> <li>- RsRtx.Acquisition.MemoryMode</li> <li>- RsRtx.Acquisition.RollModeAutomatic</li> <li>- RsRtx.Acquisition.RollModeMinimumTimeBase</li> <li>- RsRtx.Probe.Degauss</li> <li>- RsRtx.Probe.Gain</li> <li>- RsRtx.Probe.GainUnit</li> <li>- RsRtx.Probe.GainManual</li> <li>- RsRtx.Channel.ZeroOffset</li> <li>- RsRtx.Channel.Position</li> <li>- RsRtx.Channel.ChannelWaveformColor</li> <li>- RsRtx.Logic.ProbeConnected</li> <li>- RsRtx.Logic.PointSelection</li> <li>- RsRtx.Logic.DataPoints</li> <li>- RsRtx.WaveformAcquisition.DigitalData.Samples</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Samples</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Read()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Fetch()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Header()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Minimum.Samples</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Minimum.Read()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Minimum.Fetch()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Minimum.Header()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Maximum.Samples</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Maximum.Read()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Maximum.Fetch()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Maximum.Header()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Average.Samples</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Average.Read()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Average.Fetch()</li> <li>- RsRtx.WaveformAcquisition.SpectrumData.Average.Header()</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.XStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.XIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.YStart</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.YIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.YResolution</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Minimum.XStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Minimum.XIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Minimum.YStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Minimum.YIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Minimum.YResolution</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Maximum.XStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Maximum.XIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Maximum.YStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Maximum.YIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Maximum.YResolution</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Average.XStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Average.XIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Average.YStart</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Average.YIncrement</li> <li>- RsRtx.WaveformAcquisition.SpectrumDataConversion.Average.YResolution</li> <li>- RsRtx.Cursors.SecondSource</li> <li>- RsRtx.Cursors.SecondSourceEnable</li> <li>- RsRtx.Measurements.Gate.Enable</li> <li>- RsRtx.Measurements.Gate.Mode</li> <li>- RsRtx.Measurements.Gate.AbsoluteStart</li> <li>- RsRtx.Measurements.Gate.AbsoluteEnd</li> <li>- RsRtx.Measurements.Gate.RelativeStart</li> <li>- RsRtx.Measurements.Gate.RelativeEnd</li> <li>- RsRtx.Mathematics.General.WaveformLabel</li> <li>- RsRtx.Mathematics.General.WaveformLabelState</li> <li>- RsRtx.Mathematics.General.WaveformColor</li> <li>- RsRtx.Mathematics.Tracks.EdgePolarity</li> <li>- RsRtx.Mathematics.Tracks.DoublePulseEnable</li> <li>- RsRtx.Mathematics.Tracks.ThresholdHysteresis</li> <li>- RsRtx.Mathematics.Tracks.ThresholdLower</li> <li>- RsRtx.Mathematics.Tracks.ThresholdUpper</li> <li>- RsRtx.ReferenceWaveforms.Label</li> <li>- RsRtx.ReferenceWaveforms.Color</li> <li>- RsRtx.Mask.SegmentCaptureMode</li> <li>- RsRtx.Protocols.SPI.MISOSource</li> <li>- RsRtx.Protocols.SPI.CSSource</li> <li>- RsRtx.Protocols.SPI.MOSIPolarity</li> <li>- RsRtx.Protocols.SPI.MISOPolarity</li> <li>- RsRtx.Protocols.SPI.SSPI.MISOSource</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Protocols.SPI.SSPI.MOSIPolarity</li> <li>- RsRtx.Protocols.SPI.SSPI.MISOPolarity</li> <li>- RsRtx.Protocols.UART.IdleStatePolarity</li> <li>- RsRtx.Protocols.UART.FrameState</li> <li>- RsRtx.Protocols.UART.RxFrameState</li> <li>- RsRtx.Protocols.UART.TxFrameState</li> <li>- RsRtx.Protocols.UART.FrameStart</li> <li>- RsRtx.Protocols.UART.RxFrameStart</li> <li>- RsRtx.Protocols.UART.TxFrameStart</li> <li>- RsRtx.Protocols.UART.FrameEnd</li> <li>- RsRtx.Protocols.UART.RxFrameEnd</li> <li>- RsRtx.Protocols.UART.TxFrameEnd</li> <li>- RsRtx.Protocols.ParallelBus.Line.BitSource</li> <li>- RsRtx.Protocols.ParallelBus.ParallelBusClocked.Line.BitSource</li> <li>- RsRtx.Protocols.MILSTD.WordResults.BitStatus.ServiceRequest</li> <li>- RsRtx.PowerAnalysis.ModulationMeasurement.ThresholdUpper</li> <li>- RsRtx.PowerAnalysis.ModulationMeasurement.ThresholdLower</li> <li>- RsRtx.PowerAnalysis.ModulationMeasurement.ThresholdHysteresis</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.ViolationStr</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.Violation()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Total.Point.ViolationStr</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Total.Point.Violation()</li> <li>- RsRtx.SpectrumAnalysis.FrequencyDomain.WindowPosition</li> <li>- RsRtx.SpectrumAnalysis.FrequencyDomain.FullSpan</li> <li>- RsRtx.SpectrumAnalysis.Spectrogram.WindowPosition</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.ReferenceFrequency</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.ReferenceLevel</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.Frequency()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.FrequencyDelta()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.Level()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.LevelDelta()</li> <li>- RsRtx.DigitalVoltmeterAndCounter.Counter.CounterSource</li> <li>- RsRtx.BodePlot.Enable</li> <li>- RsRtx.BodePlot.StartFrequency</li> <li>- RsRtx.BodePlot.StopFrequency</li> <li>- RsRtx.BodePlot.InputChannel</li> <li>- RsRtx.BodePlot.OutputChannel</li> <li>- RsRtx.BodePlot.GainEnable</li> <li>- RsRtx.BodePlot.GainPosition</li> <li>- RsRtx.BodePlot.GainScale</li> <li>- RsRtx.BodePlot.PhaseEnable</li> </ul>

IVI.NET RsRtx Instrument Driver		
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Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.BodePlot.PhasePosition</li> <li>- RsRtx.BodePlot.PhaseScale</li> <li>- RsRtx.BodePlot.AmplitudeEnable</li> <li>- RsRtx.BodePlot.AmplitudePosition</li> <li>- RsRtx.BodePlot.AmplitudeScale</li> <li>- RsRtx.BodePlot.StartMeasurement</li> <li>- RsRtx.BodePlot.StopMeasurement</li> <li>- RsRtx.BodePlot.MeasurementState</li> <li>- RsRtx.BodePlot.RepeatedMeasurementEnable</li> <li>- RsRtx.BodePlot.Reset</li> <li>- RsRtx.BodePlot.AmplitudeMode</li> <li>- RsRtx.BodePlot.PointsPerDecade</li> <li>- RsRtx.BodePlot.MeasurementPointsDisplayEnable</li> <li>- RsRtx.BodePlot.MeasurementDelay</li> <li>- RsRtx.BodePlot.ExportName</li> <li>- RsRtx.BodePlot.ExportSave</li> <li>- RsRtx.BodePlot.AmplitudeProfile.AmplitudeProfilePoints</li> <li>- RsRtx.BodePlot.AmplitudeProfile.AmplitudeProfilePointAmplitude</li> <li>- RsRtx.BodePlot.AmplitudeProfile.AmplitudeProfilePointFrequency</li> <li>- RsRtx.BodePlot.Marker.Frequency</li> <li>- RsRtx.BodePlot.Marker.Gain</li> <li>- RsRtx.BodePlot.Marker.Phase</li> <li>- RsRtx.BodePlot.Marker.BodePlotMarkerIndex</li> <li>- RsRtx.BodePlot.Marker.FrequencyDifference</li> <li>- RsRtx.BodePlot.Marker.GainDifference</li> <li>- RsRtx.BodePlot.Marker.PhaseDifference</li> <li>- RsRtx.BodePlot.Marker.Reset</li> <li>- RsRtx.BodePlot.Results.FrequencyData()</li> <li>- RsRtx.BodePlot.Results.GainData()</li> <li>- RsRtx.BodePlot.Results.PhaseData()</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.TriangleSymmetry</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.RangeStart</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.RangeEnd</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.DisplayEnable</li> <li>- RsRtx.Generator.WaveformGenerator.Burst.Enable</li> <li>- RsRtx.Generator.WaveformGenerator.Burst.Cycles</li> <li>- RsRtx.Generator.WaveformGenerator.Burst.IdleTime</li> <li>- RsRtx.Generator.WaveformGenerator.Burst.PhaseOffset</li> <li>- RsRtx.Generator.PatternGenerator.ExternalTriggerSlope</li> <li>- RsRtx.Generator.PatternGenerator.PWM.MotorEnable</li> <li>- RsRtx.Generator.PatternGenerator.PWM.MotorDirection</li> </ul>



IVI.NET RsRtx Instrument Driver		
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Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Generator.PatternGenerator.PWM.DutyCycle</li> <li>- RsRtx.Generator.PatternGenerator.PWM.LEDIntensity</li> <li>- RsRtx.Generator.PatternGenerator.PWM.LEDIntensityBlue</li> <li>- RsRtx.Generator.PatternGenerator.PWM.LEDIntensityGreen</li> <li>- RsRtx.Generator.PatternGenerator.PWM.LEDIntensityRed</li> <li>- RsRtx.Display.DateAndTime</li> <li>- RsRtx.Display.Zoom.WindowPosition</li> <li>- RsRtx.Display.History.Channel.PlayerControlEnable</li> <li>- RsRtx.Display.History.Channel.TimeTableEnable</li> <li>- RsRtx.Display.History.Digital.PlayerControlEnable</li> <li>- RsRtx.Display.History.Digital.TimeTableEnable</li> <li>- RsRtx.Display.History.Math.PlayerControlEnable</li> <li>- RsRtx.Display.History.Math.TimeTableEnable</li> <li>- RsRtx.Display.History.Protocol.PlayerControlEnable</li> <li>- RsRtx.Display.History.Protocol.TimeTableEnable</li> <li>- RsRtx.Display.History.Spectrum.AcquisitionRelativeTime</li> <li>- RsRtx.Display.History.Spectrum.AllDates</li> <li>- RsRtx.Display.History.Spectrum.AllTimeDifferences</li> <li>- RsRtx.Display.History.Spectrum.AllDaytimes</li> <li>- RsRtx.Display.History.Spectrum.AbsoluteTime()</li> <li>- RsRtx.Display.History.Spectrum.AcquisitionDate()</li> <li>- RsRtx.Display.History.Logic.PlayerControlEnable</li> <li>- RsRtx.Display.History.Logic.TimeTableEnable</li> <li>- RsRtx.DataManagement.SaveInstrumentSettingsToPC()</li> <li>- RsRtx.DataManagement.RecallInstrumentSettingsFromPC()</li> <li>- RsRtx.HardcopyandPrinter.CloseDialogs</li> <li>- RsRtx.System.EthernetHTTPEndPoint</li> <li>- RsRtx.System.ReadBytes()</li> <li>- RsRtx.System.ReadString()</li> <li>- RsRtx.System.WriteBytes()</li> <li>- RsRtx.System.WriteString()</li> <li>- RsRtx.System.IOTimeout</li> <li>- RsRtx.UtilityFunctions.QueryBinaryBlockToStream()</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ADCState.Condition</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ADCState.Enable</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ADCState.NTransition</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ADCState.PTransition</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ADCState.Event</li> </ul> <p>* Modified properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Acquisition.TimestampsFilename - Access now read and write</li> </ul>

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		<ul style="list-style-type: none"> <li>- RsRtx.Acquisition.Channel.WaveformType - Help updated</li> <li>- RsRtx.Probe.ProbeAttenuationManual - new range: &lt;0.0001;10000&gt;</li> <li>- RsRtx.DigitalChannel.Apply - Repcap removed, access now read and write, default changed, help updated</li> <li>- RsRtx.Trigger.SourceA - Help updated</li> <li>- RsRtx.Trigger.SourceB - Help updated</li> <li>- RsRtx.Trigger.TV.Event - Help updated</li> <li>- RsRtx.Trigger.Out.Mode - Help updated</li> <li>- RsRtx.Trigger.Timeout.Range - Help updated</li> <li>- RsRtx.Trigger.UART.ConditionLength - New range: &lt;1;4&gt;</li> <li>- RsRtx.Trigger.LIN.TriggerDataLength - Range table modified</li> <li>- RsRtx.Trigger.CAN.TriggerDataLength - New range: &lt;0;8&gt;</li> <li>- RsRtx.Trigger.AudioSignals.WordSelectSlope - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.RightCondition - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.RightMaximum - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.LeftCondition - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.LeftMinimum - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.LeftMaximum - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.Combination - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.TrackChannel.Condition - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.TrackChannel.Minimum - Long form updated</li> <li>- RsRtx.Trigger.AudioSignals.TrackChannel.Maximum - Long form updated</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.ExportName - Access now read and write</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.Source - Range table modified</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.Save - Help updated</li> <li>- RsRtx.Measurements.Main.AmplitudeTime - Range table updated</li> <li>-</li> <li>- RsRtx.Measurements.AutomaticMeasurementsStatistics.ExportAutomaticMeasurements.MeasurementsName - Access now read and write</li> <li>- RsRtx.Measurements.AutomaticMeasurementsStatistics.ExportAutomaticMeasurements.AllName - Long form updated, short form updated, repcap removed</li> <li>- RsRtx.Measurements.AutomaticMeasurementsStatistics.ExportAutomaticMeasurements.AllSave - Long form updated, short form updated, repcap removed, help updated</li> <li>- RsRtx.ReferenceWaveforms.Reference.Source - Range table modified</li> <li>- RsRtx.Search.WindowRange - Help updated</li> <li>- RsRtx.Search.Export.ExportName - Access now read and write</li> <li>- RsRtx.Search.LIN.SearchDataLength - Range table modified</li> <li>- RsRtx.Search.CAN.SearchDataLength - New range: &lt;0;8&gt;</li> <li>- RsRtx.Protocols.SPI.DataSource - Range table changed, digital channels added</li> <li>- RsRtx.Protocols.SPI.SSPI.DataSource - Range table changed, digital channels added</li> <li>- RsRtx.Protocols.UART.Source - Range table changed, digital channels added</li> <li>- RsRtx.Protocols.UART.RXSourceLine - Range table changed, digital channels added</li> </ul>

IVI.NET RsRtx Instrument Driver		
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Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Protocols.UART.TXSourceLine - Range table changed, digital channels added</li> <li>- RsRtx.Protocols.UART.Polarity - Help updated</li> <li>- RsRtx.Protocols.UART.WordStart - Data type now Real64</li> <li>- RsRtx.Protocols.UART.RxWordStart - Data type now Real64</li> <li>- RsRtx.Protocols.UART.TxWordStart - Data type now Real64</li> <li>- RsRtx.Protocols.UART.WordEnd - Data type now Real64</li> <li>- RsRtx.Protocols.UART.RxWordEnd - Data type now Real64</li> <li>- RsRtx.Protocols.UART.TxWordEnd - Data type now Real64</li> <li>- RsRtx.Protocols.UART.WordSource - Range table added</li> <li>- RsRtx.Protocols.ARINC429.DecodingResults.WordSDI - Range table removed</li> <li>- RsRtx.Protocols.ARINC429.DecodingResults.WordSSM - Range table removed</li> <li>- RsRtx.PowerAnalysis.CurrentHarmonicsMeasurement.CurrentHarmonicsExport.ExportName - Access now read and write</li> <li>- RsRtx.PowerAnalysis.CurrentHarmonicsMeasurement.CurrentHarmonicsExport.Save - Help updated</li> <li>- RsRtx.PowerAnalysis.SlewRateMeasurement.Results.Results() - Help updated</li> <li>- RsRtx.PowerAnalysis.ModulationMeasurement.Results.Results() - Help updated</li> <li>- RsRtx.SpectrumAnalysis.FrequencyDomain.MagnitudeScale - Range table updated</li> <li>- RsRtx.SpectrumAnalysis.Marker.ReferenceMode - Help updated</li> <li>- RsRtx.DigitalVoltmeterAndCounter.Counter.Enable - Repcap removed, command updated</li> <li>- RsRtx.DigitalVoltmeterAndCounter.Counter.Frequency - Repcap removed, command updated</li> <li>- RsRtx.DigitalVoltmeterAndCounter.Counter.Period - Repcap removed, command updated</li> <li>- RsRtx.Generator.PatternGenerator.FunctionType - Range table and help updated</li> <li>- RsRtx.Display.Segmentation.MaximumNumberOfSegments - Access now read and write, help updated</li> <li>- RsRtx.DataManagement.ChangeDrive - Added OPC synchronization</li> <li>- RsRtx.DataManagement.CurrentDirectory - Added OPC synchronization</li> <li>- RsRtx.DataManagement.CreateDirectory - Added OPC synchronization</li> <li>- RsRtx.DataManagement.RemoveDirectory - Added OPC synchronization</li> <li>- RsRtx.DataManagement.DeleteFile - Added OPC synchronization</li> <li>- RsRtx.HardcopyandPrinter.FileName - Access now read and write</li> <li>- RsRtx.System.EthernetIPPort - Range table added</li> <li>- RsRtx.System.EthernetVXI11Port - Command corrected, range table added</li> <li>- RsRtx.UtilityFunctions.QueryBinaryBlockToStream() - removed ReadBinaryBlockToStream, replaced with QueryBinaryBlockToStream</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Condition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Enable - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.NTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.PTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Event - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ChannelOverload.Condition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ChannelOverload.Enable - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ChannelOverload.NTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ChannelOverload.PTransition - Range table added</li> </ul>

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		<ul style="list-style-type: none"> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.ChannelOverload.Event - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Limit.Condition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Limit.Enable - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Limit.NTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Limit.PTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Limit.Event - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Mask.Condition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Mask.Enable - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Mask.NTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Mask.PTransition - Range table added</li> <li>- RsRtx.UtilityFunctions.StatusRegister.Questionable.Mask.Event - Range table added</li> </ul> <p>* Deleted properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.UtilityFunctions.ReadInstrumentData()</li> <li>- RsRtx.UtilityFunctions.ReadBinaryBlockToStream()</li> <li>- RsRtx.UtilityFunctions.ErrorMessage()</li> <li>- RsRtx.UtilityFunctions.QuestionableRegister</li> </ul> <p>* Deleted Repeated Capabilities:</p> <ul style="list-style-type: none"> <li>- QRegister</li> <li>- RegisterPart</li> <li>- Counter</li> </ul> <p>* Modified Repeated Capabilities:</p> <ul style="list-style-type: none"> <li>- Measurement - Identifiers ("M1,M2,M3,M4,M5,M6,M7,M8", "M1,M2,M3,M4")</li> <li>- Measurement - Command Values ("1,2,3,4,5,6,7,8", "1,2,3,4")</li> <li>- Math - Identifiers ("MA1,MA2,MA3,MA4,MA5", "M1,M2,M3,M4")</li> <li>- Math - Command Values ("1,2,3,4,5", "1,2,3,4")</li> <li>- TDMChannel - Identifiers ("TDM0,TDM1,TDM2,TDM3,TDM4,TDM5,TDM6,TDM7,TDM8", "TDM1,TDM2,TDM3,TDM4,TDM5,TDM6,TDM7,TDM8")</li> </ul> <p>* Modified Range Tables:</p> <ul style="list-style-type: none"> <li>- WfmArithmetics.Off - RSRTX_ATTR_WAVEFORM_ACQUISITION_TYPE, RSRTX_ATTR_LOGIC_ARITHMETICS, RSRTX_ATTR_MATH_ACQUISITION_TYPE Help changed ("The data of the current acquisition is recorded according to the decimation settings.", "Off - The data of the current acquisition is recorded according to the decimation settings.")</li> <li>- WfmArithmetics.Envelope - RSRTX_ATTR_WAVEFORM_ACQUISITION_TYPE, RSRTX_ATTR_LOGIC_ARITHMETICS, RSRTX_ATTR_MATH_ACQUISITION_TYPE Help changed ("Detects the minimum and maximum values in a sample interval over a number of acquisitions.", "Envelope - Detects the minimum and maximum values in a sample interval over a number of acquisitions.")</li> <li>- WfmArithmetics.Average - RSRTX_ATTR_WAVEFORM_ACQUISITION_TYPE,</li> </ul>

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		<p>RSRTX_ATTR_LOGIC_ARITHMETICS, RSRTX_ATTR_MATH_ACQUISITION_TYPE</p> <p>Help changed ("Calculates the average from the data of the current acquisition and a number of acquisitions before. The number of used acquisitions is set with RSRTX_ATTR_NUM_AVERAGES.", "Average - Calculates the average from the data of the current acquisition and a number of acquisitions before.")</p> <p>- WfmArithmetics.Smooth - RSRTX_ATTR_WAVEFORM_ACQUISITION_TYPE, RSRTX_ATTR_LOGIC_ARITHMETICS, RSRTX_ATTR_MATH_ACQUISITION_TYPE</p> <p>Help changed ("Calculates a mean value of several adjacent sample points.", "Smooth - Calculates a mean value of several adjacent sample points.")</p> <p>- WfmArithmetics.Filter - RSRTX_ATTR_WAVEFORM_ACQUISITION_TYPE, RSRTX_ATTR_LOGIC_ARITHMETICS, RSRTX_ATTR_MATH_ACQUISITION_TYPE</p> <p>Help changed ("Sets a low-pass filter with 3 dB attenuation at a configurable limit.", "Filter - Sets a low-pass filter with 3 db attenuation at a configurable limit")</p> <p>- TriggerSource.Ch1 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Analog input channel 1 is the trigger source. Available channels depend on the instrument type.", "Channel 1")</p> <p>- TriggerSource.Ch2 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Analog input channel 2 is the trigger source. Available channels depend on the instrument type.", "Channel 2")</p> <p>- TriggerSource.Ch3 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Analog input channel 3 is the trigger source. Available channels depend on the instrument type.", "Channel 3")</p> <p>- TriggerSource.Ch4 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Analog input channel 4 is the trigger source. Available channels depend on the instrument type.", "Channel 4")</p> <p>- TriggerSource.External - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("External trigger input on the front panel.", "External Trigger Input")</p> <p>- TriggerSource.ACLine - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("AC power supply line for the line trigger.", "AC Line")</p> <p>- TriggerSource.SerialBus1 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Serial bus 1. Requires at least one protocol option for serial bus (R&amp;S RTM- K1 to K3).", "Serial Bus 1")</p> <p>- TriggerSource.SerialBus2 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Serial bus 2. Requires at least one protocol option for serial bus (R&amp;S RTM- K1 to K3).", "Serial Bus 2")</p> <p>- TriggerSource.SerialBus3 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Serial bus 3. Requires at least one protocol option for serial bus (R&amp;S RTM- K1 to K3).", "Serial Bus 3")</p> <p>- TriggerSource.SerialBus4 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Serial bus 4. Requires at least one protocol option</p>

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		<p>for serial bus (R&amp;S RTM- K1 to K3).", "Serial Bus 4")</p> <p>- TriggerSource.Digital0 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 0")</p> <p>- TriggerSource.Digital1 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 1")</p> <p>- TriggerSource.Digital2 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 2")</p> <p>- TriggerSource.Digital3 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 3")</p> <p>- TriggerSource.Digital4 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 4")</p> <p>- TriggerSource.Digital5 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 5")</p> <p>- TriggerSource.Digital6 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 6")</p> <p>- TriggerSource.Digital7 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 7")</p> <p>- TriggerSource.Digital8 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 8")</p> <p>- TriggerSource.Digital9 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 9")</p> <p>- TriggerSource.Digital10 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p> <p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 10")</p> <p>- TriggerSource.Digital11 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p>

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		<p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 11")</p> <p>- TriggerSource.Digital12 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p>
		<p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 12")</p> <p>- TriggerSource.Digital13 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p>
		<p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 13")</p> <p>- TriggerSource.Digital14 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p>
		<p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital 14")</p> <p>- TriggerSource.Digital15 - RSRTX_ATTR_TRIGGER_SOURCE_A, RSRTX_ATTR_TRIGGER_SOURCE_B</p>
		<p>Help changed ("Digital channels can be used as trigger sources for edge, width, timeout and pattern trigger. Require MSO option R&amp;S RTM-B1.", "Digital15")</p> <p>- WidthCondition.Shorter - RSRTX_ATTR_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_PATTERN_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_WINDOW_TIME_RANGE, RSRTX_ATTR_TRIGGER_TIME_CONDITION, RSRTX_ATTR_RUNT_TRIGGER_RANGE</p>
		<p>Help changed ("Triggers on pulses shorter than the reference time", "Shorter: Triggers on pulses shorter than the reference time")</p> <p>- WidthCondition.Longer - RSRTX_ATTR_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_PATTERN_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_WINDOW_TIME_RANGE, RSRTX_ATTR_TRIGGER_TIME_CONDITION, RSRTX_ATTR_RUNT_TRIGGER_RANGE</p>
		<p>Help changed ("Triggers on pulses longer than the reference time", "Longer: Triggers on pulses longer than the reference time")</p> <p>- WidthCondition.Within - RSRTX_ATTR_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_PATTERN_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_WINDOW_TIME_RANGE, RSRTX_ATTR_TRIGGER_TIME_CONDITION, RSRTX_ATTR_RUNT_TRIGGER_RANGE</p>
		<p>Help changed ("Triggers on pulses inside a specified range", "Within: Triggers on pulses inside a specified range")</p> <p>- WidthCondition.Outside - RSRTX_ATTR_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_PATTERN_WIDTH_CONDITION, RSRTX_ATTR_TRIGGER_WINDOW_TIME_RANGE, RSRTX_ATTR_TRIGGER_TIME_CONDITION, RSRTX_ATTR_RUNT_TRIGGER_RANGE</p>
		<p>Help changed ("Triggers on pulses outside a specified range", "Outside: Triggers on pulses outside a specified range")</p> <p>- TVTriggerEvent.Even - RSRTX_ATTR_TV_TRIGGER_EVENT</p>
		<p>Help changed ("Triggers only on the field start of even fields. Only available for interlaced scanning.", "Triggers only on even half frames")</p> <p>- TVTriggerEvent.Odd - RSRTX_ATTR_TV_TRIGGER_EVENT</p>
		<p>Help changed ("Triggers only on the field start of odd fields. Only available for interlaced scanning.", "Triggers only on odd half frames")</p>

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		<p>- TVTriggerEvent.All - RSRTX_ATTR_TV_TRIGGER_EVENT Help changed ("All fields, triggers on the frame start (progressive scanning) or any field start (interlaced scanning).", "Triggers on all frames.")</p> <p>- TVTriggerEvent.Line - RSRTX_ATTR_TV_TRIGGER_EVENT Help changed ("Triggers on the beginning of a specified line in any field. The line number is set with RSRTX_ATTR_TV_TRIGGER_LINE_NUMBER.", "Triggers on the beginning of a specified line in any field.")</p> <p>- TVTriggerEvent.AllLine - RSRTX_ATTR_TV_TRIGGER_EVENT Help changed ("Triggers on the beginning of all video signal lines.", "Triggers on the beginning of all video signal lines")</p> <p>- SPIFrameState - RSRTX_ATTR_PROTOCOL_SPI_FRAME_STATUS New items: Void</p> <p>- UARTTriggerType - RSRTX_ATTR_PROTOCOL_UART_TRIGGER_MODE New items: StopBitError</p> <p>- UARTTriggerType - RSRTX_ATTR_PROTOCOL_UART_TRIGGER_MODE Deleted items: FrameError</p> <p>- rsrtx_rngUartLength - RSRTX_ATTR_PROTOCOL_UART_TRIGGER_CONDITION_LENGTH Range changed to &lt;1;4&gt;</p> <p>- rsrtx_rngUartLength - RSRTX_ATTR_PROTOCOL_UART_TRIGGER_CONDITION_LENGTH Changed units ("symbols", "")</p> <p>- AmplitudeTimeMeasurementType.TBFrequency - RSRTX_ATTR_AMPT_MAIN_MEASUREMENT Description changed ("Trigger B Frequency", "TB Frequency")</p> <p>- AmplitudeTimeMeasurementType.TBPeriod - RSRTX_ATTR_AMPT_MAIN_MEASUREMENT Description changed ("Trigger B Period", "TB Period")</p> <p>- AmplitudeTimeMeasurementType - RSRTX_ATTR_AMPT_MAIN_MEASUREMENT New items: SlewRateRise, SlewRateFall</p> <p>- rsrtx_rngProtocolUARTBitRate - RSRTX_ATTR_PROTOCOL_UART_BIT_RATE Changed units ("bits per second", "")</p> <p>- rsrtx_rngProbeAttenuation - RSRTX_ATTR_PROBE_ATTENUATION_MANUAL Range changed to &lt;0.0001;10000&gt;</p> <p>- TriggerOutMode.Off - RSRTX_ATTR_TRIGGER_OUT_MODE Help changed ("No output", "Off")</p> <p>- TriggerOutMode.Trigger - RSRTX_ATTR_TRIGGER_OUT_MODE Help changed ("Outputs a pulse when the instrument triggers.", "Trigger")</p> <p>- TriggerOutMode.Mask - RSRTX_ATTR_TRIGGER_OUT_MODE Help changed ("Outputs a pulse when a mask is violated. This function is only available if a mask is specified.", "Mask")</p> <p>- TriggerOutMode.Reference - RSRTX_ATTR_TRIGGER_OUT_MODE Help changed ("Outputs a 10 MHz reference frequency.", "Reference")</p> <p>- AudioTriggerCondition.Off - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION,</p>



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		<p>RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("No range is defined.", "Off")</p> <p>- AudioTriggerCondition.Equal - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("Equal. Requires one data word to be set.", "Equal")</p> <p>- AudioTriggerCondition.NotEqual - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("Not equal. Requires one data word to be set.", "Not Equal")</p> <p>- AudioTriggerCondition.GreaterThan - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("Greater than. Requires one data word to be set.", "Greater Than")</p> <p>- AudioTriggerCondition.LessThan - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("Less than. Requires one data word to be set.", "Less Than")</p> <p>- AudioTriggerCondition.InRange - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("In range. Requires two data words to be set.", "In Range")</p> <p>- AudioTriggerCondition.OutOfRange - RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_RIGHT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_LEFT_CONDITION, RSRTX_ATTR_PROTOCOL_AUDIO_TRIGGER_CHANNEL_CONDITION</p> <p>Help changed ("Out of range. Requires two data words to be set.", "Out Of Range")</p> <p>- rsrtx_rngProtocolARINC429ThresholdHigh - RSRTX_ATTR_PROTOCOL_ARINC429_THRESHOLD_HIGH</p> <p>Range changed to &lt;-0.5;12&gt;</p> <p>- rsrtx_rngProtocolARINC429ThresholdLow - RSRTX_ATTR_PROTOCOL_ARINC429_THRESHOLD_LOW</p> <p>Range changed to &lt;-100.0;100.0&gt;</p> <p>- MagnitudeScale - RSRTX_ATTR_SPECTRUM_FREQUENCY_MAGNITUDE_SCALE</p> <p>New items: dBuV</p> <p>- SpectrumMarkerReferenceMode.Indicated - RSRTX_ATTR_SPECTRUM_MARKER_REFERENCE_MODE</p> <p>Help changed ("The reference marker is set to the peak with a specified index number.", "Indicated")</p>

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		<p>- SpectrumMarkerReferenceMode.Range - RSRTX_ATTR_SPECTRUM_MARKER_REFERENCE_MODE Help changed ("The peak with the highest level within the selected range is set as the reference marker.", "Range")</p> <p>- PatternGeneratorFunctionType.Square - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("Square wave function (e.g. for manual probe compensation).", "")</p> <p>- PatternGeneratorFunctionType.Counter - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("Definition of a 4-bit wide counter pattern.", "")</p> <p>- PatternGeneratorFunctionType.Arbitrary - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("Definition of a 4-bit wide and 2048 samples deep pattern.", "")</p> <p>- PatternGeneratorFunctionType.SPI - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("SPI BUS signals for measurements without measurement object. Data rate 100 kBit/s, 250 kBit/s or 1 MBit/s.", "")</p> <p>- PatternGeneratorFunctionType.I2C - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("I2C BUS signals for measurements without measurement object. Data rate 100 kBit/s, 400 kBit/s, 1 MBit/s or 3.4 MBit/s.", "")</p> <p>- PatternGeneratorFunctionType.UART - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("UART BUS signals for measurements without measurement object. Data rate 9600 Bit/s, 115.2 kBit/s and 1 MBit/s.", "")</p> <p>- PatternGeneratorFunctionType.CAN - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("CAN BUS signals for measurements without measurement object up to 50 MBit/s.", "")</p> <p>- PatternGeneratorFunctionType.LIN - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("LIN BUS signals for measurements without measurement object up to 50 MBit/s.", "")</p> <p>- PatternGeneratorFunctionType.Manual - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE Help changed ("Manual pattern mode.", "")</p> <p>- PatternGeneratorFunctionType - RSRTX_ATTR_PATTERN_GENERATOR_FUNCTION_TYPE New items: AudioI2S, AudioTDM, TestPulseWidth, PulseWidth, LEDPulseWidth</p> <p>- WindowRange.Enter - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("The signal crosses the upper or lower level and thus enters the win- dow made up of these two levels.", "")</p> <p>- WindowRange.Exit - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Command changed ("EXI", "EXIT")</p> <p>- WindowRange.Exit - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("Searches for events when the signal leaves the window.", "")</p> <p>- WindowRange.Within - RSRTX_ATTR_TRIGGER_WINDOW_RANGE,</p>

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		<p>RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("The signal stays between the upper and lower level for a specified time.", "")</p> <p>- WindowRange.Outside - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("The signal stays above the upper level or below the lower level for a specified time.", "")</p> <p>- WindowRange.Passthrough - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("The signal crosses both levels in a specified time. The time measurement starts when the signal crosses the first level.", "")</p> <p>- WindowRange.NoPassthrough - RSRTX_ATTR_TRIGGER_WINDOW_RANGE, RSRTX_ATTR_SEARCH_TRIGGER_WINDOW_RANGE Help changed ("The signal crosses one level, but does not cross the second level in a specified time.", "")</p> <p>- TimeoutRange.Low - RSRTX_ATTR_TIMEOUT_TRIGGER_RANGE Help changed ("The signal level stays below the trigger level.", "")</p> <p>- TimeoutRange.High - RSRTX_ATTR_TIMEOUT_TRIGGER_RANGE Help changed ("The signal level stays above the trigger level.", "")</p>
1.2.0	01/2018	- Added support for RTM3000 and RTA4000 instruments
1.1.0	10/2017	<p>* First official release</p> <p>* Deleted properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Acquisition.FilterFrequency</li> <li>- RsRtx.Acquisition.WaveformRate</li> <li>- RsRtx.Trigger.Edge.FilterLow</li> <li>- RsRtx.WaveformAcquisition.EnvelopeWaveform.DataPoints</li> <li>- RsRtx.Cursors.InverseDistanceHorizontal</li> <li>- RsRtx.Measurements.Main.ResultTriggerFrequency</li> <li>- RsRtx.Measurements.Main.ResultTriggerPeriod</li> <li>- RsRtx.Measurements.Main.ResultBTriggerFrequency</li> <li>- RsRtx.Measurements.Main.ResultBTriggerPeriod</li> <li>- RsRtx.Display.Persistence.TimeAuto</li> <li>- RsRtx.HardcopyandPrinter.IncludeMenuInScreenshot</li> <li>- RsRtx.UtilityFunctions.IDQueryResponse</li> </ul> <p>* New properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Acquisition.RecordLengthAutomatic</li> <li>- RsRtx.Acquisition.RecordLength</li> <li>- RsRtx.Acquisition.AcquireMode</li> <li>- RsRtx.Acquisition.PeakDetect</li> <li>- RsRtx.Acquisition.HighResolution</li> <li>- RsRtx.Acquisition.NumberOfAveragesReset</li> </ul>

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Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Acquisition.WaveformRateMaximum</li> <li>- RsRtx.Probe.CMOffset</li> <li>- RsRtx.DigitalChannel.ProbeEnabled</li> <li>- RsRtx.DigitalChannel.PointSelection</li> <li>- RsRtx.Logic.LogicState</li> <li>- RsRtx.Logic.Type</li> <li>- RsRtx.Logic.Threshold</li> <li>- RsRtx.Logic.ThresholdUserLevel</li> <li>- RsRtx.Logic.Hysteresis</li> <li>- RsRtx.Logic.Arithmetics</li> <li>- RsRtx.Logic.CurrentMaximum</li> <li>- RsRtx.Logic.CurrentMinimum</li> <li>- RsRtx.Trigger.Edge.FilterHFReject</li> <li>- RsRtx.Trigger.Window.WindowRange</li> <li>- RsRtx.Trigger.Window.WindowWidth</li> <li>- RsRtx.Trigger.Window.WindowTimeRange</li> <li>- RsRtx.Trigger.Runt.Width</li> <li>- RsRtx.Trigger.Runt.Delta</li> <li>- RsRtx.Trigger.Runt.Range</li> <li>- RsRtx.Trigger.Timeout.Time</li> <li>- RsRtx.Trigger.Timeout.Range</li> <li>- RsRtx.Trigger.SPI.Source</li> <li>- RsRtx.Trigger.UART.Source</li> <li>- RsRtx.Trigger.MILSTD.Mode</li> <li>- RsRtx.Trigger.MILSTD.Frame</li> <li>- RsRtx.WaveformAcquisition.AcquisitionState</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.ExportName</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.Source</li> <li>- RsRtx.WaveformAcquisition.WaveformExport.Save</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveform.ReadWaveform()</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveform.FetchWaveform()</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveform.FetchWaveformHeader()</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveformConversion.XStart</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveformConversion.XIncrement</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveformConversion.YStart</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveformConversion.YIncrement</li> <li>- RsRtx.WaveformAcquisition.SimpleMathWaveformConversion.YResolution</li> <li>- RsRtx.WaveformAcquisition.LogicData.Read()</li> <li>- RsRtx.WaveformAcquisition.LogicData.Fetch()</li> <li>- RsRtx.WaveformAcquisition.LogicData.Header()</li> <li>- RsRtx.WaveformAcquisition.LogicDataConversion.XStart</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.WaveformAcquisition.LogicDataConversion.XIncrement</li> <li>- RsRtx.WaveformAcquisition.LogicDataConversion.YStart</li> <li>- RsRtx.WaveformAcquisition.LogicDataConversion.YIncrement</li> <li>- RsRtx.WaveformAcquisition.LogicDataConversion.YResolution</li> <li>- RsRtx.WaveformAcquisition.DigitalData.Read()</li> <li>- RsRtx.WaveformAcquisition.DigitalData.Fetch()</li> <li>- RsRtx.WaveformAcquisition.DigitalData.Header()</li> <li>- RsRtx.WaveformAcquisition.DigitalDataConversion.XStart</li> <li>- RsRtx.WaveformAcquisition.DigitalDataConversion.XIncrement</li> <li>- RsRtx.WaveformAcquisition.DigitalDataConversion.YStart</li> <li>- RsRtx.WaveformAcquisition.DigitalDataConversion.YIncrement</li> <li>- RsRtx.WaveformAcquisition.DigitalDataConversion.YResolution</li> <li>- RsRtx.Cursors.CursorLine.NextPeak</li> <li>- RsRtx.Cursors.CursorLine.PreviousPeak</li> <li>- RsRtx.Measurements.General.QuickMeasurementState</li> <li>- RsRtx.SimpleMathematics.SimpleMathWaveformEnabled</li> <li>- RsRtx.SimpleMathematics.Position</li> <li>- RsRtx.SimpleMathematics.VerticalScale</li> <li>- RsRtx.SimpleMathematics.Operation</li> <li>- RsRtx.SimpleMathematics.Source.Source</li> <li>- RsRtx.Mask.ScreenshotDestination</li> <li>- RsRtx.Mask.SavesWaveformDestination</li> <li>- RsRtx.Mask.ActionAUXOutputEnabled</li> <li>- RsRtx.Search.WindowLevelLower</li> <li>- RsRtx.Search.WindowLevelUpper</li> <li>- RsRtx.Search.WindowDelta</li> <li>- RsRtx.Search.WindowPolarity</li> <li>- RsRtx.Search.WindowRange</li> <li>- RsRtx.Search.WindowTimeRange</li> <li>- RsRtx.Search.WindowWidth</li> <li>- RsRtx.Search.Export.ExportName</li> <li>- RsRtx.Search.Export.Save</li> <li>- RsRtx.Protocols.SPI.CSPolarity</li> <li>- RsRtx.Protocols.UART.FrameCount</li> <li>- RsRtx.Protocols.UART.WordCount</li> <li>- RsRtx.Protocols.UART.WordValue</li> <li>- RsRtx.Protocols.UART.WordStart</li> <li>- RsRtx.Protocols.UART.WordEnd</li> <li>- RsRtx.Protocols.UART.WordEnabled</li> <li>- RsRtx.Protocols.UART.WordSource</li> <li>- RsRtx.Protocols.MILSTD.InterMessageGapTimeInfinite</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Protocols.MILSTD.InterMessageGapTimeMinimum</li> <li>- RsRtx.Protocols.MILSTD.InterMessageGapTimeMaximum</li> <li>- RsRtx.Protocols.MILSTD.ResponseTimeInfinite</li> <li>- RsRtx.Protocols.MILSTD.ResponseTimeMinimum</li> <li>- RsRtx.Protocols.MILSTD.ResponseTimeMaximum</li> <li>- RsRtx.PowerAnalysis.Autoset</li> <li>- RsRtx.PowerAnalysis.AutosetCurrent</li> <li>- RsRtx.PowerAnalysis.AutosetVoltage</li> <li>- RsRtx.PowerAnalysis.ConsumptionMeasurement.Results.ApparentPower</li> <li>- RsRtx.PowerAnalysis.ConsumptionMeasurement.Results.PowerFactor</li> <li>- RsRtx.PowerAnalysis.ConsumptionMeasurement.Results.Phase</li> <li>- RsRtx.PowerAnalysis.ConsumptionMeasurement.Results.ReactivePower</li> <li>- RsRtx.PowerAnalysis.CurrentHarmonicsMeasurement.MeasurementDuration</li> <li>- RsRtx.PowerAnalysis.CurrentHarmonicsMeasurement.RealPowerResults.Current</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Point.LinearCurrent</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Point.LogarithmicCurrent</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageData.Read()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageData.Fetch()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageData.Header()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageDataConversion.XStart</li> <li>-</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageDataConversion.XIncrement</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageDataConversion.YStart</li> <li>-</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageDataConversion.YIncrement</li> <li>-</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.VoltageDataConversion.YResolution</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentData.Read()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentData.Fetch()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentData.Header()</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentDataConversion.XStart</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentDataConversion.XIncrement</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentDataConversion.YStart</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentDataConversion.YIncrement</li> <li>-</li> <li>- RsRtx.PowerAnalysis.SafeOperatingArea.Results.Acquisition.Point.CurrentDataConversion.YResolution</li> <li>- RsRtx.SpectrumAnalysis.Mode</li> <li>- RsRtx.SpectrumAnalysis.Marker.SetupCenterScreen</li> <li>- RsRtx.SpectrumAnalysis.Marker.SetupRangeToPeak</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.ReferenceResults()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.Results()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.DeltaResults()</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.SpectrumAnalysis.Marker.Results.AllResults()</li> <li>- RsRtx.SpectrumAnalysis.Marker.Results.AllDeltaResults()</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.Type</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.Frequency</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.PulseDutyCycle</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.PulseEdgeTime</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.RampPolarity</li> <li>- RsRtx.Generator.WaveformGenerator.FunctionGenerator.ExponentialPolarity</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.Enabled</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.Type</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.FunctionType</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.RampPolarity</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.AM.Frequency</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.AM.Depth</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.FM.Frequency</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.FM.FrequencyDeviation</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.ASK.Frequency</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.ASK.Depth</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.FSK.HoppingFrequency</li> <li>- RsRtx.Generator.WaveformGenerator.Modulation.FSK.Rate</li> <li>- RsRtx.Generator.WaveformGenerator.Sweep.Enabled</li> <li>- RsRtx.Generator.WaveformGenerator.Sweep.Type</li> <li>- RsRtx.Generator.WaveformGenerator.Sweep.StartFrequency</li> <li>- RsRtx.Generator.WaveformGenerator.Sweep.StopFrequency</li> <li>- RsRtx.Generator.WaveformGenerator.Sweep.Time</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.FileName</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.OpenFile</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.Source</li> <li>- RsRtx.Generator.WaveformGenerator.Arbitrary.Update</li> <li>- RsRtx.Generator.WaveformGenerator.Output.Enabled</li> <li>- RsRtx.Generator.WaveformGenerator.Output.Amplitude</li> <li>- RsRtx.Generator.WaveformGenerator.Output.Offset</li> <li>- RsRtx.Generator.WaveformGenerator.Output.UserLoad</li> <li>- RsRtx.Generator.WaveformGenerator.Output.Destination</li> <li>- RsRtx.Generator.WaveformGenerator.Noise.LevelPercent</li> <li>- RsRtx.Generator.WaveformGenerator.Noise.AbsoluteLevel</li> <li>- RsRtx.Generator.PatternGenerator.Enabled</li> <li>- RsRtx.Generator.PatternGenerator.FunctionType</li> <li>- RsRtx.Generator.PatternGenerator.Frequency</li> <li>- RsRtx.Generator.PatternGenerator.Period</li> <li>- RsRtx.Generator.PatternGenerator.Polarity</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Generator.PatternGenerator.DutyCycle</li> <li>- RsRtx.Generator.PatternGenerator.SampleTime</li> <li>- RsRtx.Generator.PatternGenerator.CounterDirection</li> <li>- RsRtx.Generator.PatternGenerator.CounterFrequency</li> <li>- RsRtx.Generator.PatternGenerator.BurstEnabled</li> <li>- RsRtx.Generator.PatternGenerator.BurstCycles</li> <li>- RsRtx.Generator.PatternGenerator.IdleTime</li> <li>- RsRtx.Generator.PatternGenerator.TriggerMode</li> <li>- RsRtx.Generator.PatternGenerator.TriggerRunSingle</li> <li>- RsRtx.Generator.PatternGenerator.ARB.PatternLength</li> <li>- RsRtx.Generator.PatternGenerator.ARB.Index</li> <li>- RsRtx.Generator.PatternGenerator.ARB.DataSet()</li> <li>- RsRtx.Generator.PatternGenerator.ARB.DataAppend()</li> <li>- RsRtx.Generator.PatternGenerator.ARB.DataAppendAND()</li> <li>- RsRtx.Generator.PatternGenerator.ARB.DataAppendOR()</li> <li>- RsRtx.Generator.PatternGenerator.Manual.State</li> <li>- RsRtx.Display.DiagramAnnotationEnabled</li> <li>- RsRtx.Display.DiagramAnnotationTrack</li> <li>- RsRtx.Display.ClearScreen</li> <li>- RsRtx.Display.Persistence.PersistenceType</li> <li>- RsRtx.Display.History.Channel.TableMode</li> <li>- RsRtx.Display.History.Channel.ExportName</li> <li>- RsRtx.Display.History.Channel.ExportSave</li> <li>- RsRtx.Display.History.Digital.ExportName</li> <li>- RsRtx.Display.History.Digital.ExportSave</li> <li>- RsRtx.Display.History.Math.ExportName</li> <li>- RsRtx.Display.History.Math.ExportSave</li> <li>- RsRtx.Display.History.Protocol.ExportName</li> <li>- RsRtx.Display.History.Protocol.ExportSave</li> <li>- RsRtx.Display.History.Logic.CurrentAcquisition</li> <li>- RsRtx.Display.History.Logic.Player</li> <li>- RsRtx.Display.History.Logic.StartAcquisition</li> <li>- RsRtx.Display.History.Logic.StopAcquisition</li> <li>- RsRtx.Display.History.Logic.PlayAll</li> <li>- RsRtx.Display.History.Logic.Speed</li> <li>- RsRtx.Display.History.Logic.Repeat</li> <li>- RsRtx.Display.History.Logic.AcquisitonRelativeTime</li> <li>- RsRtx.Display.History.Logic.AllDates</li> <li>- RsRtx.Display.History.Logic.AllTimeDifferences</li> <li>- RsRtx.Display.History.Logic.AllDaytimes</li> <li>- RsRtx.Display.History.Logic.ExportName</li> </ul>



IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Display.History.Logic.ExportSave</li> <li>- RsRtx.Display.History.Logic.AbsoluteTime()</li> <li>- RsRtx.Display.History.Logic.AcquisitionDate()</li> <li>- RsRtx.Display.Segmentation.RecordMaximumSegments</li> <li>- RsRtx.DataManagement.CopyFile()</li> <li>- RsRtx.DataManagement.MoveFile()</li> <li>- RsRtx.DataManagement.FileCount()</li> <li>- RsRtx.DataManagement.FileDirectoryContent()</li> <li>- RsRtx.DataManagement.FileSubdirectoriesCount()</li> <li>- RsRtx.DataManagement.FileSubdirectories()</li> <li>- RsRtx.DataManagement.SaveInstrumentSettings()</li> <li>- RsRtx.DataManagement.RecallInstrumentsSettings()</li> <li>- RsRtx.HardcopyandPrinter.OutputFormat</li> <li>- RsRtx.HardcopyandPrinter.Data()</li> <li>- RsRtx.HardcopyandPrinter.PageSizeX</li> <li>- RsRtx.HardcopyandPrinter.PageSizeY</li> <li>- RsRtx.System.DeviceMode</li> <li>- RsRtx.System.InterfaceSelect</li> <li>- RsRtx.System.USBClass</li> <li>- RsRtx.System.EthernetDHCP</li> <li>- RsRtx.System.EthernetIPPort</li> <li>- RsRtx.System.EthernetVXI11Port</li> <li>- RsRtx.System.EthernetTransfer</li> <li>- RsRtx.System.EthernetMACAddress</li> <li>- RsRtx.System.EthernetIPAddress()</li> <li>- RsRtx.System.EthernetIPSubnetMask()</li> <li>- RsRtx.System.EthernetIPGateway()</li> <li>- RsRtx.System.PresetEducation</li> <li>- RsRtx.System.DeviceFootprint</li> </ul> <p>* Modified properties/methods:</p> <ul style="list-style-type: none"> <li>- RsRtx.Acquisition.Divisions - Data type changed.</li> <li>- RsRtx.Acquisition.HorizontalReference - Range</li> <li>- RsRtx.Channel.Coupling - Default changed.</li> <li>- RsRtx.DigitalChannel.Hysteresis - Changed range values.</li> <li>- RsRtx.DigitalChannel.VerticalChannelSize - Changed from enum to real.</li> <li>- RsRtx.Trigger.Channel.LevelB - Range table removed.</li> <li>- RsRtx.Trigger.Edge.Coupling - Command string changed</li> <li>- RsRtx.Trigger.AudioSignals.RightMinimum - Range table removed.</li> <li>- RsRtx.Trigger.AudioSignals.RightMaximum - Range table removed.</li> <li>- RsRtx.Trigger.AudioSignals.LeftMinimum - Range table removed.</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- RsRtx.Trigger.AudioSignals.LeftMaximum - Range table removed.</li> <li>- RsRtx.Trigger.AudioSignals.TrackChannel.Minimum - Range table removed.</li> <li>- RsRtx.Trigger.AudioSignals.TrackChannel.Maximum - Range table removed.</li> <li>- RsRtx.Cursors.Type - HorizontalVertical</li> <li>- RsRtx.Cursors.Source - QMA</li> <li>- RsRtx.Measurements.ConfigureMeasurementSource() - QMA</li> <li>- RsRtx.Mask.Scaling.VerticalOffset - removed range</li> <li>- RsRtx.Mask.Scaling.VerticalScaling - removed range</li> <li>- RsRtx.Mask.Scaling.VerticalWidth - Removed range</li> <li>- RsRtx.Mask.Scaling.HorizontalWidth - removed range.</li> <li>- RsRtx.Search.SearchResult() - Data type for Polarity and Result Type was changed.</li> <li>- RsRtx.Search.SearchResultAll() - Data type for Polarity and Result Type was changed.</li> <li>- RsRtx.Protocols.Display.Vertical - Default, range changed.</li> <li>- RsRtx.HardcopyandPrinter.ColorScheme - Short command modified.</li> </ul> <p>* Deleted Repeated Capabilities:</p> <p>* Modified Repeated Capabilities:</p> <ul style="list-style-type: none"> <li>- Counter - Identifiers ("Counter0,Counter1,Counter2", "Counter1,Counter2")</li> <li>- Counter - Command Values ("1,2", "1,2")</li> </ul> <p>* Modified Range Tables:</p> <ul style="list-style-type: none"> <li>- rsrtx_rngHorzReference - RSRTX_ATTR_HORZ_REFERENCE Range changed to &lt;8.33;91.67&gt;</li> <li>- rsrtx_rngLineNumber - RSRTX_ATTR_TV_TRIGGER_LINE_NUMBER Range changed to &lt;1;1125&gt;</li> <li>- CursorFunction - RSRTX_ATTR_CURSOR_MEASUREMENT_TYPE New items: HorizontalVertical</li> <li>- WfmParameter - RSRTX_ATTR_WAVEFORM_EXPORT_SOURCE, RSRTX_ATTR_CURSOR_SOURCE, RSRTX_ATTR_REFERENCE_WAVEFORM_SOURCE New items: QMA, XY1</li> <li>- Language - RSRTX_ATTR_DISPLAY_LANGUAGE New items: Italian, Portuguese, Czech, Polish</li> <li>- HardcopyDeviceLang - RSRTX_ATTR_HARDCOPY_DEVICE_LANGUAGE_OUTPUT_FORMAT New items: Gdi, Gif</li> <li>- PageSize - RSRTX_ATTR_HARDCOPY_PAGE_SIZE New items: Legal, Letter</li> <li>- TriggerCoupling.HighFrequency - RSRTX_ATTR_TRIGGER_COUPLING Command changed ("LFR", "HF")</li> <li>- TriggerType - RSRTX_ATTR_TRIGGER_TYPE_A New items: Line</li> </ul>

IVI.NET RsRtx Instrument Driver		
Driver history		
Revision	Date	Note
		<ul style="list-style-type: none"> <li>- rsrtx_rngProtocolVertical - RSRTX_ATTR_PROTOCOL_DISPLAY_VERTICAL Range changed to &lt;-5;5&gt;</li> <li>- SearchCondition - RSRTX_ATTR_SEARCH_CONDITION New items: Window</li> <li>- SearchSource - RSRTX_ATTR_SEARCH_SOURCE, RSRTX_ATTR_SEARCH_TRIGGER_D2C_CLOCK_SOURCE New items: QMA</li> <li>- DigitalHysteresis - RSRTX_ATTR_DIGITAL_HYSTERESIS New items: Small, Medium, Large</li> <li>- DigitalHysteresis - RSRTX_ATTR_DIGITAL_HYSTERESIS Deleted items: Maximum, Robust, Normal</li> <li>- TriggerOutMode - RSRTX_ATTR_TRIGGER_OUT_MODE New items: Reference, Generator</li> <li>- MeasurementSource - New items: QMA</li> <li>- MILSTDCodeType.Selftest - RSRTX_ATTR_MILSTD_TRIGGER_COMMAND_MODE_CODE, RSRTX_ATTR_MILSTD_SEARCH_COMMAND_MODE_CODE, RSRTX_ATTR_PROTOCOL_MILSTD_COMMAND_WORD_MODE_CODE_TYPE Command changed ("ISEL", "SEL")</li> <li>- MILSTDTriggerType - RSRTX_ATTR_MILSTD_TRIGGER_TYPE, RSRTX_ATTR_MILSTD_TRIGGER_MODE New items: CData</li> <li>- ProbeInputImpedance.Unknown - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("UNKN", "UNKNown")</li> <li>- ProbeInputImpedance.FiftyOhm - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("50OH", "50OHm")</li> <li>- ProbeInputImpedance.OneMOhm - RSRTX_ATTR_PROBE_INPUT_IMPEDANCE Command changed ("1MOH", "1MOHm")</li> </ul>
1.0.0	02/2017	* First Beta Version created based on the RsRtm20xx driver

### **About Rohde & Schwarz**

Rohde & Schwarz is an independent group of companies specializing in electronics. It is a leading supplier of solutions in the fields of test and measurement, broadcasting, radiomonitoring and radiolocation, as well as secure communications. Established more than 80 years ago, Rohde & Schwarz has a global presence and a dedicated service network in over 70 countries. Company headquarters are in Munich, Germany.

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- Energy-efficient products
- Continuous improvement in environmental sustainability
- ISO 14001-certified environmental management system



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