

LabWindows/CVI, VxiPnp driver history for the R&S® MXO Oscilloscopes

[MXO4](#)



[MXO5](#)



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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?		
Instrument	Supported Firmware	Remarks
MXO4	1.4.2.2	
MXO5	2.0	

2 Revision History

2.1 Version 1.4.1 / 11 – 2023

- * Added support for MXO5
- * New Core 4.6.0
- * Simplified OPC-Sync mechanism for queries.

- * New:
 - rsmxo_SetOpcSyncQueryMechanism

2.2 Version 1.4.0 / 09 – 2023

- * New Core 4.5.0
 - * Added support for MXO4 FW 1.4.x
 - * Extended number of channels from 4 to 8
-
- * New:
 - Filter (Class)
 - LIN (Class)
 - Trigger (Class)
 - Results (Class)
 - rsmxo_IsMeasurementComplete
 - rsmxo_IsWaitingForTrigger
 - rsmxo_WaitForMeasurementComplete
 - rsmxo_WaitForWaitingForTrigger
 - rsmxo_ConfigureTriggerStateDigitalStateOperator
 - rsmxo_ConfigureTriggerStateDigitalChannelState
 - rsmxo_ConfigureTriggerPatternStateSource
 - rsmxo_ConfigureTriggerPatternDigitalStateOperator
 - rsmxo_ConfigureTriggerPatternDigitalChannelState
 - rsmxo_ConfigureProtocolI2CShowSymbols
 - rsmxo_ConfigureProtocolI2CSymbolListFile
 - rsmxo_ConfigureProtocolUARTBitOrder
 - rsmxo_QueryProtocolUARTResultsWordEnd
 - rsmxo_ConfigureProtocolCANTranceiverMode
 - rsmxo_ConfigureProtocolCANSICSettings
 - rsmxo_ConfigureProtocolCANFASTSettings
 - rsmxo_ConfigureProtocolCANShowSymbols

- rsmxo_ConfigureProtocolCANSymbolListFile
- rsmxo_EnableProtocolCANFilter
- rsmxo_EnableProtocolCANFilterFrame
- rsmxo_EnableProtocolCANFilterFrameField
- rsmxo_EnableProtocolCANFilterError
- rsmxo_ConfigureProtocolCANFilterFieldOperator
- rsmxo_ConfigureProtocolCANFilterFieldData
- rsmxo_ConfigureProtocolCANFilterFieldIndex
- rsmxo_QueryProtocolCANResultsFrameSymbol
- rsmxo_ConfigureProtocolLINStandard
- rsmxo_ConfigureProtocolLINSOURCE
- rsmxo_ConfigureProtocolLINSettings
- rsmxo_ConfigureProtocolLINPolarity
- rsmxo_ConfigureProtocolLINBitRate
- rsmxo_EnableProtocolLINFilter
- rsmxo_EnableProtocolLINFilterFrame
- rsmxo_EnableProtocolLINFilterField
- rsmxo_EnableProtocolLINFilterError
- rsmxo_ConfigureProtocolLINFilterFieldOperator
- rsmxo_ConfigureProtocolLINFilterFieldData
- rsmxo_ConfigureProtocolLINFilterFieldIndex
- rsmxo_ConfigureProtocolLINTriggerType
- rsmxo_ConfigureProtocolLINTriggerErrorTypes
- rsmxo_ConfigureProtocolLINTriggerDataOperator
- rsmxo_ConfigureProtocolLINTriggerDataPattern
- rsmxo_ConfigureProtocolLINTriggerDataPosition
- rsmxo_ConfigureProtocolLINTriggerIdentifier
- rsmxo_QueryProtocolLINResultsFrameCount
- rsmxo_QueryProtocolLINResultsFrameState
- rsmxo_QueryProtocolLINResultsFrameBounds
- rsmxo_QueryProtocolLINResultsFrameData
- rsmxo_QueryProtocolLINResultsFrameBitrate
- rsmxo_QueryProtocolLINResultsFrameChecksum
- rsmxo_QueryProtocolLINResultsFrameIdentifier
- rsmxo_QueryProtocolLINResultsFrameByteCount
- rsmxo_QueryProtocolLINResultsFrameByte
- rsmxo_QueryProtocolLINResultsFrameByteFormattedValue
- rsmxo_QueryProtocolLINResultsFrameByteLabel
- rsmxo_AbortReferenceWaveform
- rsmxo_EnableGeneratorModulation
- rsmxo_AbortWaveformSave
- rsmxo_ConfigureDisplayBacklightBrightness
- rsmxo_ConfigureDisplayBacklightDimmOnUserInactivity
- rsmxo_DisplayClearResults
- rsmxo_ConfigureStatusRegisterTriggerActionEnabled
- rsmxo_ConfigureStatusRegisterTriggerActionTransition
- rsmxo_QueryStatusRegisterTriggerAction
- rsmxo_ConfigureStatusRegisterTriggerEdgeEnabled
- rsmxo_ConfigureStatusRegisterTriggerEdgeTransition
- rsmxo_QueryStatusRegisterTriggerEdge
- rsmxo_OPCSyncWriteEnable
- rsmxo_OPCSyncQueryEnable

* Updated:

- rsmxo_ConfigureProtocolType - Added LIN
- rsmxo_QueryProtocolI2CResultsDecodeTable - State data types added
- rsmxo_QueryProtocolCANResultsFrame - Added frame type values
- rsmxo_QueryProtocolCANResultsBRS - Field attribute fixed
- rsmxo_QueryProtocolCANResultsESI - Field attribute fixed

- rsmxo_QueryProtocolCANXLResultsAcceptance - Field attribute fixed
- rsmxo_QueryProtocolCANXLResultsPCRC - Field attribute fixed
- rsmxo_QueryProtocolCANXLResultsSBC - Field attribute fixed
- rsmxo_QueryProtocolCANXLResultsServiceDataUnit - Field attribute fixed
- rsmxo_QueryProtocolCANXLResultsSEC - Field attribute fixed
- rsmxo_QueryProtocolCANXLResultsVCID - Field attribute fixed

- * Deleted:
- rsmxo_ConfigureScreenshotFilename - use rsmxo_ConfigureScreenshotFilePath instead

2.3 Version 1.3.2 / 05 – 2023

- * Added support for MXO44 FW 1.3.2

- * New:
 - Status Reporting (Class)
 - rsmxo_ConfigureHorizontalRoll
 - rsmxo_QueryHorizontalRollStatus
 - rsmxo_ConfigureAcquisitionRollModeOffScreenCapture
 - rsmxo_QueryAcquisitionRollModePoints
 - rsmxo_MeasurementFitToScreen
 - rsmxo_ConfigureMeasurementAutoscale
 - rsmxo_ConfigureMeasurementTrack
 - rsmxo_QuerySpectrumPeakListCurrent
 - rsmxo_QuerySpectrumPeakListCount
 - rsmxo_ConfigureSpectrumPeakListLabels
 - rsmxo_ConfigureSpectrumPeakListSort
 - rsmxo_ConfigureSpectrumPeakListDisplayPeaks
 - rsmxo_QueryProtocolCANDecodedFrames
 - rsmxo_ConfigureProtocolCANXLBitrate
 - rsmxo_ConfigureProtocolCANXLSamplePoint
 - rsmxo_ConfigureProtocolCANXLTriggerSEC
 - rsmxo_ConfigureProtocolCANXLTriggerAF
 - rsmxo_ConfigureProtocolCANXLTriggerSDT
 - rsmxo_ConfigureProtocolCANXLTriggerVCID
 - rsmxo_QueryProtocolCANResultsBRS
 - rsmxo_QueryProtocolCANResultsESI
 - rsmxo_QueryProtocolCANXLResultsAcceptance
 - rsmxo_QueryProtocolCANXLResultsPCRC
 - rsmxo_QueryProtocolCANXLResultsSBC
 - rsmxo_QueryProtocolCANXLResultsServiceDataUnit
 - rsmxo_QueryProtocolCANXLResultsSEC
 - rsmxo_QueryProtocolCANXLResultsVCID
 - rsmxo_ConfigureLogicPosition
 - rsmxo_ConfigureLogicSizeOfTheDisplay
 - rsmxo_ConfigureLogicDigitalChannelVerticalPosition
 - rsmxo_ConfigureLogicDigitalChannelSizeOfTheDisplay
 - rsmxo_ConfigureFrequencyResponseAnalysisAutoscale
 - rsmxo_FrequencyResponseAnalysisCalibrationStart
 - rsmxo_QueryFrequencyResponseAnalysisCalibrationResult
 - rsmxo_ConfigureFrequencyResponseAnalysisCalibrationState
 - rsmxo_GeneratorSave
 - rsmxo_GeneratorRecall
 - rsmxo_GeneratorArbitraryWaveformRunSingle
 - rsmxo_ConfigureStatusRegisterGeneratorTemperatureEnabled
 - rsmxo_ConfigureStatusRegisterGeneratorTemperatureTransition

- rsmxo_QueryStatusRegisterGeneratorTemperature
- rsmxo_ConfigureStatusRegisterGeneratorGOverloadEnabled
- rsmxo_ConfigureStatusRegisterGeneratorGOverloadTransition
- rsmxo_QueryStatusRegisterGeneratorGOverload
- rsmxo_LoadWaveformGeneratorSettings
- rsmxo_StoreWaveformGeneratorSettings
- rsmxo_ConfigureScreenshotFilename
- rsmxo_ConfigureResultsExportFRA
- rsmxo_FetchMeasurementTrackDataHeader
- rsmxo_FetchMeasurementTrackData
- rsmxo_ReadMeasurementTrackData
- rsmxo_ConfigureStatusRegisterChannelWarnOverloadEnabled
- rsmxo_ConfigureStatusRegisterChannelWarnOverloadTransition
- rsmxo_QueryStatusRegisterChannelWarnOverload
- rsmxo_ConfigureStatusRegisterChannelPPSEnabled
- rsmxo_ConfigureStatusRegisterChannelPPSTransition
- rsmxo_QueryStatusRegisterChannelPPS

* Updated:

- rsmxo_ClearMeasurementStatisticsResults - help fixed
- rsmxo_ConfigureSpectrumScaleMagnitudeUnit - Magnitude Unit values updated
- rsmxo_QueryProtocolI2CResultsDecodeTable - State values updated
- rsmxo_ConfigureProtocolCANTriggerFrameType - Type values updated
- rsmxo_ConfigureProtocolCANTriggerData - Data Pattern values updated
- rsmxo_QueryProtocolCANResultsFrame - State, Type values updated
- rsmxo_ConfigureScreenshotColorSettings - removed Printer Color Set, control is reserved
- rsmxo_ConfigureScreenshotFilePath - changed attribute from

RSMXO_ATTR_SCREENSHOT_DESTINATION to RSMXO_ATTR_SCREENSHOT_FILENAME

* Deleted:

- rsmxo_MeasurementClear
- rsmxo_ConfigureProtocolCANTriggerStandard
- rsmxo_ConfigureProtocolCANTriggerByteOrder
- rsmxo_QueryProtocolCANResultsSymbolicLabel
- rsmxo_QueryProtocolCANResultsStandard

2.4 Version 1.2.0 / 04 – 2023

- * New Core 4.4.0
- * Added support for MXO44 FW 1.2.x
- * Added support for CAN Protocol (K520)
- * Added support for Frequency Response Analysis (K36)

* New:

- Vertical > Probe > Probe Information (Class)
- Vertical > Probe > Active Voltage Probes (Class)
- Vertical > Probe > Current Probes (Class)
- Trigger > Sequence (Class)
- Trigger > State (Class)
- Trigger > Pattern (Class)
- Gate (Class)
- Protocol > CAN (Class)
- Frequency Response Analysis (Class)
- Save/Recall > File Management (Class)
- Save/Recall > Directory Management (Class)
- Save/Recall > Results (Class)
- Status Reporting (Class)

- rsmxo_ConfigureVerticalRange
- rsmxo_ConfigureProbePredefinedType
- rsmxo_QueryProbeImpedance
- rsmxo_QueryProbeCapacitance
- rsmxo_QueryProbePartNumber
- rsmxo_QueryProbeProductionDate
- rsmxo_QueryProbeSerialNumber
- rsmxo_QueryProbeSoftwareVersion
- rsmxo_ConfigureProbeCMOffset
- rsmxo_ConfigureProbeRTZA15AttenuatorEnabled
- rsmxo_ConfigureProbeDisplay
- rsmxo_ConfigureProbeSoundEnabled
- rsmxo_ConfigureProbeBandwidthLimitEnabled
- rsmxo_ConfigureProbeVoltageRange
- rsmxo_ConfigureProbeMeterEnabled
- rsmxo_ProbeMeterSetToOffset
- rsmxo_ConfigureProbeACCouplingEnabled
- rsmxo_ConfigureProbeManualGain
- rsmxo_QueryProbePredefinedGain
- rsmxo_ConfigureProbeZeroAdjust
- rsmxo_ProbeDeGauss
- rsmxo_ProbeSaveToProbe
- rsmxo_QueryProbeResultsPositive
- rsmxo_QueryProbeResultsNegative
- rsmxo_ConfigureTriggerSequenceType
- rsmxo_ConfigureTriggerSequenceDelay
- rsmxo_ConfigureTriggerSequenceBEventCount
- rsmxo_ConfigureTriggerSequenceResetSettings
- rsmxo_ConfigureTriggerStateSlope
- rsmxo_ConfigureTriggerStateOperator
- rsmxo_ConfigureTriggerStateChannel
- rsmxo_ConfigureTriggerPatternOperator
- rsmxo_ConfigureTriggerPatternChannel
- rsmxo_ConfigureTriggerEdgeLevel
- rsmxo_QueryAcquisitionCurrent
- rsmxo_QueryAcquisitionAverage
- rsmxo_QueryMeasurementCount
- rsmxo_ConfigureMeasurementSource1
- rsmxo_ConfigureMeasurementSource2
- rsmxo_ConfigureMeasurementGate
- rsmxo_ConfigureMeasurementEnvelope
- rsmxo_MeasurementClear
- rsmxo_EnableMeasurementStatisticsAllEvents
- rsmxo_ConfigureMeasurementStatisticsMaximumEvents
- rsmxo_ConfigureMeasurementAmplitudeTimeEdgesSlope
- rsmxo_ConfigureMeasurementAmplitudeTimeDelayToTrigger
- rsmxo_QueryResultsEventCount
- rsmxo_GetResultsEventStart
- rsmxo_GetResultsEventStop
- rsmxo_GetResultsEventValue
- rsmxo_ConfigureGateEnabled
- rsmxo_ConfigureGateDisplay
- rsmxo_ConfigureGateCouplingMode
- rsmxo_ConfigureGateMode
- rsmxo_ConfigureGateAbsoluteBounds
- rsmxo_ConfigureGateRelativeBounds
- rsmxo_ConfigureGateCursor
- rsmxo_ConfigureGateZoomDiagram
- rsmxo_CursorDisableAll

- rsmxo_QueryCursorCount
- rsmxo_ConfigureCursorEnvelope
- rsmxo_ConfigureCursorEnvelope2
- rsmxo_ConfigureCursorPeakSearchThreshold
- rsmxo_ConfigureCursorPeakSearchExcursion
- rsmxo_ConfigureMathVerticalScaleMode
- rsmxo_QueryMathSignalType
- rsmxo_ConfigureMathEnvelopeWaveformSelection
- rsmxo_ConfigureProtocolCANSOURCE
- rsmxo_ConfigureProtocolCANTYPE
- rsmxo_ConfigureProtocolCANSETTINGS
- rsmxo_ConfigureProtocolCANNOMINALBITRATE
- rsmxo_ConfigureProtocolCANFDSETTINGS
- rsmxo_ConfigureProtocolCANTRIGGERTYPE
- rsmxo_ConfigureProtocolCANTRIGGERFRAMETYPE
- rsmxo_ConfigureProtocolCANTRIGGERIDENTIFIERTYPE
- rsmxo_ConfigureProtocolCANTRIGGERIDENTIFIER
- rsmxo_ConfigureProtocolCANTRIGGERDATA
- rsmxo_ConfigureProtocolCANTRIGGERDATAPosition
- rsmxo_ConfigureProtocolCANTRIGGERERRORCONDITION
- rsmxo_ConfigureProtocolCANTRIGGERSTUFFCOUNTENABLED
- rsmxo_ConfigureProtocolCANTRIGGERSTANDARD
- rsmxo_ConfigureProtocolCANTRIGGERCANFDSETTINGS
- rsmxo_ConfigureProtocolCANTRIGGERBYTEORDER
- rsmxo_QueryProtocolCANRESULTSFRAME
- rsmxo_QueryProtocolCANRESULTSIDENTIFIER
- rsmxo_QueryProtocolCANRESULTSACKSTATE
- rsmxo_QueryProtocolCANRESULTSACKVALUE
- rsmxo_QueryProtocolCANRESULTSBYTESTATE
- rsmxo_QueryProtocolCANRESULTSBYTEVALUE
- rsmxo_QueryProtocolCANRESULTS_CRCSTATE
- rsmxo_QueryProtocolCANRESULTS_CRCVALUE
- rsmxo_QueryProtocolCANRESULTS_DLCSTATE
- rsmxo_QueryProtocolCANRESULTS_DLCVALUE
- rsmxo_QueryProtocolCANRESULTSBITSTUFFINGERRORPOSITION
- rsmxo_QueryProtocolCANRESULTSFORMERROR
- rsmxo_QueryProtocolCANRESULTSDATABYTESNUMBER
- rsmxo_QueryProtocolCANRESULTSDATA
- rsmxo_QueryProtocolCANRESULTSPATTERNDATA
- rsmxo_QueryProtocolCANRESULTSSYMBOLICDATA
- rsmxo_QueryProtocolCANRESULTS_SYMBOLICDATAEXPORT
- rsmxo_QueryProtocolCANRESULTS_SYMBOLICLABEL
- rsmxo_QueryProtocolCANRESULTSSTUFFCOUNTFIELD
- rsmxo_QueryProtocolCANRESULTSSTANDARD
- rsmxo_EnableFrequencyResponseAnalysis
- rsmxo_ConfigureFrequencyResponseAnalysisSettings
- rsmxo_ConfigureFrequencyResponseAnalysisSweepBounds
- rsmxo_ConfigureFrequencyResponseAnalysisPointsMode
- rsmxo_ConfigureFrequencyResponseAnalysisPointsTotal
- rsmxo_ConfigureFrequencyResponseAnalysisPointsLogarithmic
- rsmxo_ConfigureFrequencyResponseAnalysisUserLoad
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitudeMode
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitude
- rsmxo_ConfigureFrequencyResponseAnalysisRepeat
- rsmxo_ResetFrequencyResponseAnalysis
- rsmxo_RunFrequencyResponseAnalysis
- rsmxo_ConfigureFrequencyResponseAnalysisDisplaySettings
- rsmxo_ConfigureFrequencyResponseAnalysisMaximumPhase
- rsmxo_ConfigureFrequencyResponseAnalysisMeasurementDelay

- rsmxo_ConfigureFrequencyResponseAnalysisRBW
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitudeProfilePoint
- rsmxo_QueryFrequencyResponseAnalysisAmplitudeProfilePointCount
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitudeProfileVoltageChange
- rsmxo_SortFrequencyResponseAnalysisAmplitudeProfile
- rsmxo_AddFrequencyResponseAnalysisAmplitudeProfilePoint
- rsmxo_DeleteFrequencyResponseAnalysisAmplitudeProfilePoint
- rsmxo_ConfigureFrequencyResponseAnalysisGainEnabled
- rsmxo_ConfigureFrequencyResponseAnalysisGainVerticalSettings
- rsmxo_ConfigureFrequencyResponseAnalysisPhaseEnabled
- rsmxo_ConfigureFrequencyResponseAnalysisPhaseSettings
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitudeEnabled
- rsmxo_ConfigureFrequencyResponseAnalysisAmplitudeSettings
- rsmxo_QueryFrequencyResponseAnalysisGainMargin
- rsmxo_QueryFrequencyResponseAnalysisPhaseMargin
- rsmxo_QueryFrequencyResponseAnalysisGainData
- rsmxo_QueryFrequencyResponseAnalysisPhaseData
- rsmxo_QueryFrequencyResponseAnalysisFrequencyData
- rsmxo_QueryFrequencyResponseAnalysisMarkerResults
- rsmxo_ConfigureReferenceWaveformVerticalOffset
- rsmxo_SaveInstrumentSettingsFile
- rsmxo_LoadInstrumentSettingsFile
- rsmxo_QueryDrivesCatalog
- rsmxo_QueryMemoryCatalogSize
- rsmxo_QueryMemoryCatalog
- rsmxo_DeleteFile
- rsmxo_CopyFile
- rsmxo_MoveFile
- rsmxo_ConfigureFileDialogAttribute
- rsmxo_ConfigureDefaultDirectory
- rsmxo_CreateDirectory
- rsmxo_DeleteDirectory
- rsmxo_QueryDirectoryCatalogSize
- rsmxo_QueryDirectoryCatalog
- rsmxo_ConfigureResultsExportSettings
- rsmxo_ConfigureResultsExportFileName
- rsmxo_ResultsExportSaveToFile
- rsmxo_ConfigureSystemDate
- rsmxo_QuerySystemDate
- rsmxo_ConfigureSystemTime
- rsmxo_QuerySystemTime
- rsmxo_AddSmartGridLayout
- rsmxo_QuerySmartGridLayoutCount
- rsmxo_ConfigureSmartGridLayoutActive
- rsmxo_AddSmartGridDiagram
- rsmxo_QuerySmartGridDiagramCount
- rsmxo_ConfigureSmartGridDiagramSource
- rsmxo_EnableAutoPowerUp
- rsmxo_ConfigureAutosaveSettings
- rsmxo_StatusRegisterReset
- rsmxo_ConfigureStatusRegisterChannelNegativeClippingEnabled
- rsmxo_ConfigureStatusRegisterChannelNegativeClippingTransition
- rsmxo_QueryStatusRegisterChannelNegativeClipping
- rsmxo_ConfigureStatusRegisterChannelPositiveClippingEnabled
- rsmxo_ConfigureStatusRegisterChannelPositiveClippingTransition
- rsmxo_QueryStatusRegisterChannelPositiveClipping
- rsmxo_ConfigureStatusRegisterChannelOverloadEnabled
- rsmxo_ConfigureStatusRegisterChannelOverloadTransition
- rsmxo_QueryStatusRegisterChannelOverload

- rsmxo_QueryStatusRegisterChannelWarnOverloadEvent
- rsmxo_ConfigureStatusRegisterMeasurementImpreciseEnabled
- rsmxo_ConfigureStatusRegisterMeasurementImpreciseTransition
- rsmxo_QueryStatusRegisterMeasurementImprecise
- rsmxo_ConfigureStatusRegisterMeasurementLimitEnabled
- rsmxo_ConfigureStatusRegisterMeasurementLimitTransition
- rsmxo_QueryStatusRegisterMeasurementLimit
- rsmxo_ConfigureStatusRegisterMeasurementMarginEnabled
- rsmxo_ConfigureStatusRegisterMeasurementMarginTransition
- rsmxo_QueryStatusRegisterMeasurementMargin
- rsmxo_RunSingleAcquisitionNoWait

* Deleted:

- Save/Recall > Report (Class)
- rsmxo_ConfigureCursorResultDialogDefault
- rsmxo_ConfigureGeneratorSource
- rsmxo_ConfigureProbeMeterVisibility
- rsmxo_ConfigureScreenshotOrientation
- rsmxo_ConfigureSpectrumScaleVerticalOffset
- rsmxo_DetermineProtocolThreshold
- rsmxo_ExecuteSelfTest
- rsmxo_TriggerEdgeGround
- rsmxo_QuerySelfTestState
- rsmxo_UseHorizontalReferenceClockExternal
- rsmxo_QueryWithOPCSync

* Updated:

- Protocol > SPI > Trigger (Class) - Trigger repcap removed, breaking change
- Protocol > I2C > Trigger (Class) - Trigger repcap removed, breaking change
- Protocol > UART > Trigger (Class) - Trigger repcap removed, breaking change
- rsmxo_ConfigureVerticalBandwidth - Values added
- rsmxo_EnableHorizontalReferenceClock10MHzOutput - Long command updated
- rsmxo_ConfigureTriggerSource - Source values updated
- rsmxo_ConfigureTriggerSetupAndHoldClockSource - Source values updated
- rsmxo_ConfigureMeasurementSource - Source values updated
- rsmxo_ClearMeasurementStatisticsResults - Repcap removed, breaking change
- rsmxo_ConfigureMeasurementAmplitudeTimeDelaySlope - Command updated, repcap added
- rsmxo_ConfigureCursorSource - Source values updated
- rsmxo_ConfigureCursorSecondarySource - Source values updated
- rsmxo_ConfigureSpectrumSource - Source control updated
- rsmxo_ConfigureMathVerticalAxis - Scale parameter long command updated
- rsmxo_ConfigureProtocolType - CAN protocol added
- rsmxo_ConfigureProtocolDisplaySettings - Formats added
- rsmxo_ConfigureProtocolI2CSDASource - Source values updated
- rsmxo_ConfigureProtocolI2CSCLSource - Source values updated
- rsmxo_ConfigureProtocolI2CFFilterCondition - Condition parameter updated
- rsmxo_ConfigureProtocolI2CFFilterIndex - Index updated
- rsmxo_ConfigureProtocolI2CTriggerAddressSettings - Address type parameter updated
- rsmxo_ConfigureProtocolI2CTriggerData - Data parameter updated
- rsmxo_ConfigureProtocolSPIMOSISource - Source values updated
- rsmxo_ConfigureProtocolSPIMISOsource - Source values updated
- rsmxo_ConfigureProtocolSPISCLKSource - Source values updated
- rsmxo_ConfigureProtocolSPICSSource - Source values updated
- rsmxo_ConfigureProtocolSPIFilterIndex - Index parameter updated
- rsmxo_ConfigureProtocolSPIFilterCondition - Condition parameter updated
- rsmxo_ConfigureProtocolSPITriggerData - Data parameter removed
- rsmxo_ConfigureProtocolUARTTXSource - Source values updated
- rsmxo_ConfigureProtocolUARTRXSource - Source values updated
- rsmxo_ConfigureProtocolUARTFilterIndex - Index parameter updated

- rsmxo_ConfigureProtocolUARTFilterCondition - Condition parameter updated
- rsmxo_ConfigureProtocolUARTTriggerData - Data parameter updated
- rsmxo_ConfigureProtocolUARTTriggerOperator - Operator parameter updated
- rsmxo_ConfigureLogicBusDataFormat - Data format values added
- rsmxo_ConfigureReferenceWaveformSetup - Source values updated
- rsmxo_ConfigureGeneratorModulationSetup - State parameter removed, breaking change
- rsmxo_ConfigureScreenshotColorSettings - Display Color, Hardcopy Output parameters removed, breaking change
 - rsmxo_ConfigureScreenshotFilePath - Hardcopy Output parameter removed, breaking change
 - rsmxo_SaveScreenshot - Hardcopy Output parameter removed, breaking change
 - rsmxo_SaveScreenshotNext - Hardcopy Output parameter removed, breaking change
 - rsmxo_ConfigureWaveformExportSettings - Source values updated
 - rsmxo_ConfigureBitpatternFormat - Format values added
 - rsmxo_ConfigureResultsMaximumCount - Measurement types fixed
 - rsmxo_ShowResultsLabels - Measurement types fixed
 - rsmxo_ShowResultsFrequency - Measurement types fixed
 - rsmxo_FetchMeasurementReliability - Measurement types fixed
- rsmxo_ConfigureGeneratorArbitrarySignalSource - Generator rep cap removed, breaking change
- rsmxo_ConfigureGeneratorArbitraryWaveformSource - Generator rep cap removed, breaking change
- rsmxo_RunSingleAcquisition - added MaximumTimeMs parameter, breaking change
- rsmxo_SetOPCTimeout - Timeout parameter data type changed from ViUInt32 to Vilnt32
- rsmxo_GetOPCTimeout - Timeout parameter data type changed from ViUInt32 to Vilnt32
- rsmxo_SetVISATimeout - Timeout parameter data type changed from ViUInt32 to Vilnt32
- rsmxo_GetVISATimeout - Timeout parameter data type changed from ViUInt32 to Vilnt32
- rsmxo_WriteCommandWithOPCSync - Timeout parameter data type changed from ViUInt32 to Vilnt32
- rsmxo_ExecuteAlignment - added MaximumTimeMs parameter, breaking change

* Modified attributes:

- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS_MAX - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS_MIN - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS_NACK - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS_TYPE - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_DATA - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_DATA_MIN - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_DATA_POSITION - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_DATA_READ_NACK - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_DATA_WRITE_NACK - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_R_W_BIT - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_TYPE - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_DATA - Trigger repcap removed, range table updated
 - RSMXO_ATTR_PROTOCOL_UART_TRIGGER_DATA_POSITION - Trigger repcap removed
 - RSMXO_ATTR_PROTOCOL_UART_TRIGGER_OPERATOR - Trigger repcap removed, range table updated
- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_PATTERN - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_SOURCE - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_TYPE - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_DATA - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_DATA_PATTERN - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_DATA_POSITION - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_SEARCH_MODE - Trigger repcap removed
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_TYPE - Trigger repcap removed
- RSMXO_ATTR_GENERATOR_ARBITRARY_WAVEFORM_SOURCE - Repcap removed
- RSMXO_ATTR_GENERATOR_ARBITRARY_SIGNAL_SOURCE - Repcap removed
- RSMXO_ATTR_MEASUREMENT_STATISTICS_CLEAR_RESULTS - Repcap removed
- RSMXO_ATTR_MEASUREMENT_AMPLITUDE_TIME_DELAY_SLOPE - Command updated, repcap added

- RSMXO_ATTR_HORIZONTAL_REFERENCE_CLOCK_OUTPUT_10_MHZ_ENABLED - Command updated, added OPC-sync
- RSMXO_ATTR_VERTICAL_BANDWIDTH - 2 GHz value added
- RSMXO_ATTR_MATH_VERTICAL_SCALE - Long command updated
- RSMXO_ATTR_TRIGGER_SOURCE - Added new source value
- RSMXO_ATTR_TRIGGER_SETUP_AND_HOLD_CLOCK_SOURCE - Added new source value
- RSMXO_ATTR_CURSOR_SOURCE - Source range table updated
- RSMXO_ATTR_CURSOR_SOURCE_2 - Source range table updated
- RSMXO_ATTR_SPECTRUM_SOURCE - Source range table updated
- RSMXO_ATTR_REFERENCE_WAVEFORM_SOURCE - Source range table updated
- RSMXO_ATTR_WAVEFORM_EXPORT_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_I2C_SCL_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_I2C_SDA_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_SPI_MISO_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_SPI_MOSI_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_SPI_SCLK_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_SPI_CS_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_UART_RX_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_UART_TX_SOURCE - Source range table updated
- RSMXO_ATTR_PROTOCOL_SPI_FILTER_CONDITION - Range table fixed
- RSMXO_ATTR_PROTOCOL_UART_FILTER_CONDITION - Range table fixed
- RSMXO_ATTR_PROTOCOL_I2C_FILTER_CONDITION - Range table fixed
- RSMXO_ATTR_PROTOCOL_SPI_FILTER_INDEX - Value added to the range table
- RSMXO_ATTR_PROTOCOL_I2C_FILTER_INDEX - Value added to the range table
- RSMXO_ATTR_PROTOCOL_UART_FILTER_INDEX - Value added to the range table
- RSMXO_ATTR_PROTOCOL_TYPE - CAN protocol added
- RSMXO_ATTR_PROTOCOL_DATA_FORMAT - Formats added
- RSMXO_ATTR_REMOTE_BITPATTERN_FORMAT - Formats added
- RSMXO_ATTR_LOGIC_BUS_DATA_FORMAT - Formats added
- RSMXO_ATTR_MEASUREMENT_TYPE - Measurement types fixed
- RSMXO_ATTR_TRIGGER_HYSTERESIS_MODE - OPC-sync added
- RSMXO_ATTR_TRIGGER_HYSTERESIS_SIZE_MODE - OPC-sync added
- RSMXO_ATTR_VERTICAL_SHOW_CHANNEL (Vertical Show Channel) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_SCALE (Vertical Scale) - Removed range table
- RSMXO_ATTR_VERTICAL_OFFSET (Vertical Offset) - Removed range table
- RSMXO_ATTR_VERTICAL_SKEW (Vertical Skew) - Removed range table
- RSMXO_ATTR_VERTICAL_POSITION (Vertical Position) - Removed range table
- RSMXO_ATTR_VERTICAL_COUPLING (Vertical Coupling) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_INVERT_CHANNEL (Vertical Invert Channel) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_BANDWIDTH (Vertical Bandwidth) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_EXTERNAL_ATTENUATION_SCALE (Vertical External Attenuation Scale) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_EXTERNAL_ATTENUATION (Vertical External Attenuation) - Removed range table, added OPC-sync
- RSMXO_ATTR_VERTICAL_POWER_CALCULATION_IMPEDANCE (Vertical Power Calculation Impedance) - Removed range table
- RSMXO_ATTR_PROBE_VERTICAL_UNIT (Probe Vertical Unit) - Added OPC-sync
- RSMXO_ATTR_PROBE_AUTO_ATTENUATION (Probe Auto Attenuation) - Removed range table
- RSMXO_ATTR_PROBE_MANUAL_ATTENUATION (Probe Manual Attenuation) - Removed range table
- RSMXO_ATTR_PROBE_SET_OFFSET_TO_MEAN (Probe Set Offset To Mean) - Added OPC-sync
- RSMXO_ATTR_PROBE_AUTO_ZERO (Probe Auto Zero) - Added OPC-sync
- RSMXO_ATTR_HORIZONTAL_TIME_SCALE (Horizontal Time Scale) - Removed range table, added OPC-sync
- RSMXO_ATTR_HORIZONTAL_TIMEBASE_RANGE (Horizontal Timebase Range) - Added OPC-sync
- RSMXO_ATTR_ZOOM_STATE (Zoom State) - Added OPC-sync
- RSMXO_ATTR_TRIGGER_GLITCH_WIDTH (Trigger Glitch Width) - Removed range table
- RSMXO_ATTR_TRIGGER_WIDTH_WIDTH (Trigger Width Width) - Removed range table

- RSMXO_ATTR_TRIGGER_RUNT_WIDTH (Trigger Runt Width) - Removed range table
- RSMXO_ATTR_TRIGGER_WINDOW_WIDTH (Trigger Window Width) - Removed range table
- RSMXO_ATTR_TRIGGER_INTERVAL_WIDTH (Trigger Interval Width) - Removed range table
- RSMXO_ATTR_TRIGGER_SETUP_AND_HOLD_HOLD_TIME (Trigger Setup And Hold Hold Time) - Removed range table
 - RSMXO_ATTR_TRIGGER_SETUP_AND_HOLD_SETUPTIME (Trigger Setup And Hold SetupTime)
- Removed range table
 - RSMXO_ATTR_TRIGGER_HOLDOFF_EVENTS (Trigger Holdoff Events) - Removed range table
 - RSMXO_ATTR_TRIGGER_HOLDOFF_MINIMUM_TIME (Trigger Holdoff Minimum Time) - Removed range table
 - RSMXO_ATTR_TRIGGER_HOLDOFF_MAXIMUM_TIME (Trigger Holdoff Maximum Time) - Removed range table
 - RSMXO_ATTR_TRIGGER_FILTER_RF_REJECT_BW (Trigger Filter RF Reject BW) - Removed range table
 - RSMXO_ATTR_TRIGGER_ACTION_DELAY (Trigger Action Delay) - Removed range table
 - RSMXO_ATTR_ACQUISITION_HIGH_DEFINITION_BANDWIDTH (Acquisition High Definition Bandwidth) - Removed range table
 - RSMXO_ATTR_ACQUISITION_HISTORY_DISPLAY_TIME (Acquisition History Display Time) - Removed range table
 - RSMXO_ATTR_MEASUREMENT_ENABLED (Measurement Enabled) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_TYPE (Measurement Type) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_STATISTICS_ENABLED (Measurement Statistics Enabled) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_STATISTICS_CLEAR_RESULTS (Measurement Statistics Clear Results) - Added OPC-sync
 - RSMXO_ATTR_REFERENCE_LEVEL_MODE (Reference Level Mode) - Added OPC-sync
 - RSMXO_ATTR_REFERENCE_LEVEL_ABSOLUTE_LOWER (Reference Level Absolute Lower) - Removed range table
 - RSMXO_ATTR_REFERENCE_LEVEL_ABSOLUTE_MIDDLE (Reference Level Absolute Middle) - Removed range table
 - RSMXO_ATTR_REFERENCE_LEVEL_ABSOLUTE_UPPER (Reference Level Absolute Upper) - Removed range table
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_CURRENT (Measurement Results Statistics Current) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_MAX (Measurement Results Statistics Max) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_MIN (Measurement Results Statistics Min) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_MEAN (Measurement Results Statistics Mean) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_RMS (Measurement Results Statistics RMS) - Added OPC-sync
 - RSMXO_ATTR_MEASUREMENT_RESULTS_STATISTICS_STANDARD_DEVIATION (Measurement Results Statistics Standard Deviation) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_SHOW (Cursor Show) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_STYLE (Cursor Style) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_SOURCE (Cursor Source) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_SOURCE_2_ENABLED (Cursor Source 2 Enabled) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_SOURCE_2 (Cursor Source 2) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_X1_POSITION (Cursor X1 Position) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_X2_POSITION (Cursor X2 Position) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_Y1_POSITION (Cursor Y1 Position) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_Y2_POSITION (Cursor Y2 Position) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_TRACK_WAVEFORM (Cursor Track Waveform) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_ADVANCED_X_COUPLING (Cursor Advanced X Coupling) - Added OPC-sync
 - RSMXO_ATTR_CURSOR_ADVANCED_Y_COUPLING (Cursor Advanced Y Coupling) - Added OPC-sync

- RSMXO_ATTR_CURSOR_ADVANCED_SHOW_IN_ALL_DIAGRAMS (Cursor Advanced Show In All Diagrams) - Added OPC-sync
- RSMXO_ATTR_CURSOR_ADVANCED_RESULT_DIALOG_DEFAULT (Cursor Advanced Result Dialog Default) - Added OPC-sync
- RSMXO_ATTR_CURSOR_ADVANCED_SHOW_LABEL (Cursor Advanced Show Label) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_CENTER_FREQUENCY (Cursor Peak Search Center Frequency) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_ABSOLUTE_PEAK (Cursor Peak Search Absolute Peak) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_NEXT (Cursor Peak Search Next) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_NEXT_PEAK_LEFT (Cursor Peak Search Next Peak Left) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_NEXT_PEAK_RIGHT (Cursor Peak Search Next Peak Right) - Added OPC-sync
- RSMXO_ATTR_CURSOR_PEAK_SEARCH_SET_CENTER_TO_CURSOR (Cursor Peak Search Set Center To Cursor) - Added OPC-sync
- RSMXO_ATTR_CURSOR_RESULTS_DELTA_Y_INVERSE (Cursor Results Delta Y Inverse) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_DISPLAY (Spectrum Display Enabled) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_SOURCE (Spectrum Source) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_RBW (Spectrum RBW) - Removed range table
- RSMXO_ATTR_SPECTRUM_SPAN_RBW_RATIO (Spectrum Span RBW Ratio) - Removed range table
- RSMXO_ATTR_SPECTRUM_TRACES_NORMAL_ENABLED (Spectrum Traces Normal Enabled) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_TRACES_MIN_HOLD_ENABLED (Spectrum Traces Min Hold Enabled) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_TRACES_MAX_HOLD_ENABLED (Spectrum Traces Max Hold Enabled) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_TRACES_AVERAGE_ENABLED (Spectrum Traces Average Enabled)
- Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PRESET (Spectrum Preset) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_WINDOW_TYPE (Spectrum Window Type) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_SCALE_VERTICAL_RANGE (Spectrum Scale Vertical Range) - Removed range table
- RSMXO_ATTR_SPECTRUM_SCALE_VERTICAL_MAXIMUM (Spectrum Scale Vertical Maximum) - Removed range table
- RSMXO_ATTR_SPECTRUM_SCALE_VERTICAL_SCALE (Spectrum Scale Vertical Scale) - Removed range table, added OPC-sync
- RSMXO_ATTR_SPECTRUM_SCALE_VERTICAL_OFFSET (Spectrum Scale Vertical Offset) - Removed range table, added OPC-sync
- RSMXO_ATTR_SPECTRUM_GATE_START (Spectrum Gate Start) - Removed range table
- RSMXO_ATTR_SPECTRUM_GATE_STOP (Spectrum Gate Stop) - Removed range table
- RSMXO_ATTR_SPECTRUM_GATE_POSITION (Spectrum Gate Position) - Removed range table
- RSMXO_ATTR_SPECTRUM_GATE_WIDTH (Spectrum Gate Width) - Removed range table
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_SHOW_TABLE (Spectrum Peak List Show Table) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_FRAME_TYPE (Spectrum Peak List Frame Type) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_THRESHOLD (Spectrum Peak List Threshold) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_PEAK_EXCURSION (Spectrum Peak List Peak Excursion) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_MAX_RESULTS (Spectrum Peak List Max Results) - Added OPC-sync
- RSMXO_ATTR_SPECTRUM_PEAK_LIST_RESULT_MODE (Spectrum Peak List Result Mode) - Added OPC-sync

- RSMXO_ATTR_SPECTRUM_PEAK_LIST_SOURCE (Spectrum Peak List Source) - Added OPC-sync
- RSMXO_ATTR_MATH_DISPLAY (Math Display) - Added OPC-sync
- RSMXO_ATTR_MATH_EXPRESSION (Math Expression) - Added OPC-sync
- RSMXO_ATTR_MATH_VERTICAL_SCALE (Math Vertical Scale) - Removed range table, added OPC-sync
- RSMXO_ATTR_MATH_VERTICAL_OFFSET (Math Vertical Offset) - Removed range table, added OPC-sync
- RSMXO_ATTR_PROTOCOL_SERIAL_BUS_ENABLED (Protocol Serial Bus Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_TYPE (Protocol Type) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SHOW_DECODE_TABLE (Protocol Show Decode Table) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_DATA_FORMAT (Protocol Data Format) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_ZOOM_COUPLING (Protocol Zoom Coupling) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SHOW_THRESHOLD_LINES (Protocol Show Threshold Lines) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_DETERMINE_THRESHOLD (Protocol Determine Threshold) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SET_REFERENCE_LEVELS (Protocol Set Reference Levels) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_SDA_SOURCE (Protocol I2C SDA Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_SCL_SOURCE (Protocol I2C SCL Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_FILTER_ENABLED (Protocol I2C Filter Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_FILTER_FRAME_ENABLED (Protocol I2C Filter Frame Enabled)
- Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_FILTER_FIELD_ENABLED (Protocol I2C Filter Field Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_TYPE (Protocol I2C Trigger Type) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_I2C_TRIGGER_ADDRESS_TYPE (Protocol I2C Trigger Address Type) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_MOSI_SOURCE (Protocol SPI MOSI Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_MISO_SOURCE (Protocol SPI MISO Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_SCLK_SOURCE (Protocol SPI SCLK Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_CS_SOURCE (Protocol SPI CS Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_TIMEOUT (Protocol SPI Timeout) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_FILTER_ENABLED (Protocol SPI Filter Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_FILTER_FRAME_ENABLED (Protocol SPI Filter Frame Enabled)
- Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_FILTER_FIELD_ENABLED (Protocol SPI Filter Field Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_SPI_TRIGGER_TYPE (Protocol SPI Trigger Type) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_POLARITY (Protocol UART Polarity) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_RX_SOURCE (Protocol UART RX Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_TX_SOURCE (Protocol UART TX Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_TIMEOUT (Protocol UART Timeout) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_FILTER_ENABLED (Protocol UART Filter Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_FILTER_FRAME_ENABLED (Protocol UART Filter Frame Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_FILTER_FIELD_ENABLED (Protocol UART Filter Field Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_FILTER_ERROR_ENABLED (Protocol UART Filter Error Enabled) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_TYPE (Protocol UART Trigger Type) - Added OPC-sync

- RSMXO_ATTR_PROTOCOL_UART_TRIGGER_SOURCE (Protocol UART Trigger Source) - Added OPC-sync
- RSMXO_ATTR_PROTOCOL_EXPORT_SAVE (Protocol Export Save) - Added OPC-sync
- RSMXO_ATTR_LOGIC_STATE (Logic State) - Added OPC-sync
- RSMXO_ATTR_LOGIC_SHOW_DIGITAL_SIGNALS (Logic Show Digital Signals) - Added OPC-sync
- RSMXO_ATTR_LOGIC_TECHNOLOGY (Logic Technology) - Added OPC-sync
- RSMXO_ATTR_LOGIC_LEVEL_COUPLING (Logic Level Coupling) - Added OPC-sync
- RSMXO_ATTR_LOGIC_SKEW (Logic Skew) - Added OPC-sync
- RSMXO_ATTR_LOGIC_CLEAR (Logic Clear) - Added OPC-sync
- RSMXO_ATTR_LOGIC_BUS_SHOW (Logic Bus Show) - Added OPC-sync
- RSMXO_ATTR_LOGIC_BUS_DATA_FORMAT (Logic Bus Data Format) - Added OPC-sync
- RSMXO_ATTR_LOGIC_BIT_STATE (Logic Bit State) - Added OPC-sync
- RSMXO_ATTR_LOGIC_BUS_CLOCKED_ENABLED (Logic Bus Clocked Enabled) - Added OPC-sync
- RSMXO_ATTR_LOGIC_BUS_CLOCKED_SOURCE (Logic Bus Clocked Source) - Added OPC-sync
- RSMXO_ATTR_DIGITAL_CHANNEL_STATE (Digital Channel State) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_SHOW (Reference Waveform Show) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_SOURCE (Reference Waveform Source) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_NAME (Reference Waveform Name) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_CREATE_UPDATE (Reference Waveform Create/Update) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESET (Reference Waveform Reset) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_SAVE (Reference Waveform Save) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_OPEN (Reference Waveform Open) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_CLEAR (Reference Waveform Clear) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_VERTICAL_MODE (Reference Waveform Vertical Mode) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_VERTICAL_RESET (Reference Waveform Vertical Reset) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_VERTICAL_SCALE (Reference Waveform Vertical Scale) - Removed range table
- RSMXO_ATTR_REFERENCE_WAVEFORM_VERTICAL_POSITION (Reference Waveform Vertical Position) - Removed range table
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_VERTICAL_ENABLED (Reference Waveform Rescale Vertical Enabled) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_VERTICAL_SCALE_FACTOR (Reference Waveform Rescale Vertical Scale Factor) - Removed range table
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_VERTICAL_OFFSET (Reference Waveform Rescale Vertical Offset) - Removed range table
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_HORIZONTAL_MODE (Reference Waveform Rescale Horizontal Mode) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_HORIZONTAL_ENABLE (Reference Waveform Rescale Horizontal Enable) - Added OPC-sync
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_HORIZONTAL_SCALE_FACTOR (Reference Waveform Rescale Horizontal Scale Factor) - Removed range table
- RSMXO_ATTR_REFERENCE_WAVEFORM_RESCALE_HORIZONTAL_OFFSET (Reference Waveform Rescale Horizontal Offset) - Removed range table
- RSMXO_ATTR_GENERATOR_STATE (Generator State) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SOURCE (Generator Source) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_INVERSION_ENABLED (Generator Inversion Enabled) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_FUNCTION_TYPE (Generator Function Type) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_FREQUENCY (Generator Frequency) - Added OPC-sync

- RSMXO_ATTR_GENERATOR_AMPLITUDE (Generator Amplitude) - Removed range table, added OPC-sync
- RSMXO_ATTR_GENERATOR_OFFSET (Generator Offset) - Removed range table, added OPC-sync
- RSMXO_ATTR_GENERATOR_SYMMETRY (Generator Symmetry) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_PERIOD (Generator Period) - Removed range table
- RSMXO_ATTR_GENERATOR_PULSE_WIDTH (Generator Pulse Width) - Removed range table
- RSMXO_ATTR_GENERATOR_NOISE_DC_LEVEL (Generator Noise DC Level) - Removed range table
- RSMXO_ATTR_GENERATOR_DC_LEVEL (Generator DC Level) - Removed range table
- RSMXO_ATTR_GENERATOR_LOW_VOLTAGE (Generator Low Voltage) - Removed range table
- RSMXO_ATTR_GENERATOR_USER_LOAD (Generator User Load) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_DEFAULT_SETUP (Generator Default Setup) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_COPY_SETTINGS (Generator Copy Settings) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SWEEP_STATE (Generator Sweep State) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SWEEP_TYPE (Generator Sweep Type) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SWEEP_START_FREQUENCY (Generator Sweep Start Frequency)
- Removed range table
- RSMXO_ATTR_GENERATOR_SWEEP_STOP_FREQUENCY (Generator Sweep Stop Frequency) - Removed range table
 - RSMXO_ATTR_GENERATOR_SWEEP_TIME (Generator Sweep Time) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_STATE (Generator Modulation State) - Added OPC-sync
 - RSMXO_ATTR_GENERATOR_MODULATION_TYPE (Generator Modulation Type) - Added OPC-sync
 - RSMXO_ATTR_GENERATOR_MODULATION_CARRIER_FREQUENCY (Generator Modulation Carrier Frequency) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_AM_FREQUENCY (Generator Modulation AM Frequency) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_AM_SIGNAL_TYPE (Generator Modulation AM Signal Type) - Added OPC-sync
 - RSMXO_ATTR_GENERATOR_MODULATION_PWM_FREQUENCY (Generator Modulation PWM Frequency) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_PWM_SIGNAL_TYPE (Generator Modulation PWM Signal Type) - Added OPC-sync
 - RSMXO_ATTR_GENERATOR_MODULATION_FM_FREQUENCY (Generator Modulation FM Frequency) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_FM_SIGNAL_TYPE (Generator Modulation FM Signal Type) - Added OPC-sync
 - RSMXO_ATTR_GENERATOR_MODULATION_FSK_FREQUENCY_1 (Generator Modulation FSK Frequency 1) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_FSK_FREQUENCY_2 (Generator Modulation FSK Frequency 2) - Removed range table
 - RSMXO_ATTR_GENERATOR_MODULATION_FSK_RATE (Generator Modulation FSK Rate) - Removed range table
- RSMXO_ATTR_GENERATOR_ARBITRARY_WAVEFORM_SOURCE (Generator Arbitrary Waveform Source) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_ARBITRARY_WAVEFORM_OPEN (Generator Arbitrary Waveform Open) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_ARBITRARY_RUN_MODE (Generator Arbitrary Run Mode) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_ARBITRARY_SAMPLE_RATE (Generator Arbitrary Sample Rate) - Removed range table
- RSMXO_ATTR_GENERATOR_ARBITRARY_SIGNAL_SOURCE (Generator Arbitrary Signal Source) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SYNCHRONISATION_START (Generator Synchronisation Start) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SYNCHRONISATION_ENABLE (Generator Synchronisation Enable)
- Added OPC-sync

- RSMXO_ATTR_GENERATOR_SYNCHRONISATION_AMPLITUDE_PARAMETERS (Generator Synchronisation Amplitude Parameters) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SYNCHRONISATION_FREQUENCY_PARAMETERS (Generator Synchronisation Frequency Parameters) - Added OPC-sync
- RSMXO_ATTR_GENERATOR_SYNCHRONIZE_PHASE_SHIFT (Generator Synchronisation Phase Shift) - Added OPC-sync
- RSMXO_ATTR_SAVESET_INCLUDE_PREVIEW_IMAGE (Saveset Include Preview Image) - Added OPC-sync
- RSMXO_ATTR_REPORT_SAVE (Report Save) - Added OPC-sync
- RSMXO_ATTR_SCREENSHOT_SAVE (Screenshot Save) - Added OPC-sync
- RSMXO_ATTR_SCREENSHOT_SAVE_NEXT (Screenshot Save Next) - Added OPC-sync
- RSMXO_ATTR_WAVEFORM_EXPORT_SOURCE (Waveform Export Source) - Added OPC-sync
- RSMXO_ATTR_WAVEFORM_EXPORT_MODE (Waveform Export Mode) - Added OPC-sync
- RSMXO_ATTR_WAVEFORM_EXPORT_MANUAL_START (Waveform Export Manual Start) - Removed range table, added OPC-sync
- RSMXO_ATTR_WAVEFORM_EXPORT_MANUAL_STOP (Waveform Export Manual Stop) - Removed range table, added OPC-sync
- RSMXO_ATTR_WAVEFORM_EXPORT_SAVE_TO_FILE (Waveform Export Save To File) - Added OPC-sync
- RSMXO_ATTR_REMOTE_DISPLAY_UPDATE_ENABLED (Remote Display Update Enabled) - Added OPC-sync
- RSMXO_ATTR_REMOTE_DISPLAY_MESSAGE_ENABLED (Remote Display Message Enabled) - Added OPC-sync
- RSMXO_ATTR_GRID_SHOW (Grid Show) - Added OPC-sync
- RSMXO_ATTR_DISPLAY_SIGNAL_STYLE (Display Signal Style) - Added OPC-sync
- RSMXO_ATTR_VERTICAL_RANGE (Vertical Range) - Range table removed
- RSMXO_ATTR_TRIGGER_SEQUENCE_B_EVENT_COUNT (Trigger Sequence B Event Count) - Range table removed
- RSMXO_ATTR_TRIGGER_EVENT_LEVEL (Trigger Event Level) - Range table removed
- RSMXO_ATTR_TRIGGER_WIDTH_DELTA (Trigger Width Delta) - Range table removed
- RSMXO_ATTR_TRIGGER_RUNT_DELTA (Trigger Runt Delta) - Range table removed
- RSMXO_ATTR_TRIGGER_RUNT_LOWER_LIMIT (Trigger Runt Lower Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_RUNT_UPPER_LIMIT (Trigger Runt Upper Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_WINDOW_DELTA (Trigger Window Delta) - Range table removed
- RSMXO_ATTR_TRIGGER_WINDOW_LOWER_LIMIT (Trigger Window Lower Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_WINDOW_UPPER_LIMIT (Trigger Window Upper Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_INTERVAL_DELTA (Trigger Interval Delta) - Range table removed
- RSMXO_ATTR_TRIGGER_SLEW_RATE_DELTA (Trigger Slew Rate Delta) - Range table removed
- RSMXO_ATTR_TRIGGER_SLEW_RATE_LOWER_LIMIT (Trigger Slew Rate Lower Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_SLEW_RATE_UPPER_LIMIT (Trigger Slew Rate Upper Limit) - Range table removed
- RSMXO_ATTR_TRIGGER_EDGE_LEVEL (Trigger Edge Level) - Range table removed
- RSMXO_ATTR_TRIGGER_HOLDOFF_TIME (Trigger Holdoff Time) - Range table removed
- RSMXO_ATTR_TRIGGER_HYSTESIS_ABSOLUTE (Trigger Hysteresis Absolute) - Range table removed
- RSMXO_ATTR_TRIGGER_HYSTESIS_RELATIVE_PERCENTAGE (Trigger Hysteresis Relative Percentage) - Range table removed
- RSMXO_ATTR_TRIGGER_HYSTESIS_RELATIVE_DIVS (Trigger Hysteresis Relative Divs) - Range table removed
- RSMXO_ATTR_TRIGGER_ACTION_PULSE_LENGTH (Trigger Action Pulse Length) - Range table removed
- RSMXO_ATTR_ACQUISITION_N_SINGLE_AVERAGE_COUNT (Acquisition N-Single Average Count) - Range table removed
- RSMXO_ATTR_REFERENCE_LEVEL_RELATIVE_LOWER (Reference Level Relative Lower) - Range table removed

- RSMXO_ATTR_REFERENCE_LEVEL_RELATIVE_MIDDLE (Reference Level Relative Middle) - Range table removed
- RSMXO_ATTR_REFERENCE_LEVEL_RELATIVE_UPPER (Reference Level Relative Upper) - Range table removed
- RSMXO_ATTR_REFERENCE_LEVEL_RELATIVE_HYSTESIS (Reference Level Relative Hysteresis) - Range table removed
 - RSMXO_ATTR_SPECTRUM_CENTER (Spectrum Center) - Range table removed
 - RSMXO_ATTR_SPECTRUM_SPAN (Spectrum Span) - Range table removed
 - RSMXO_ATTR_SPECTRUM_START (Spectrum Start) - Range table removed
 - RSMXO_ATTR_SPECTRUM_STOP (Spectrum Stop) - Range table removed
 - RSMXO_ATTR_SPECTRUM_PEAK_LIST_THRESHOLD (Spectrum Peak List Threshold) - Range table removed
- RSMXO_ATTR_PROTOCOL_SPI_TIMEOUT (Protocol SPI Timeout) - Range table removed
- RSMXO_ATTR_PROTOCOL_UART_TIMEOUT (Protocol UART Timeout) - Range table removed
- RSMXO_ATTR_LOGIC_SKEW (Logic Skew) - Range table removed
- RSMXO_ATTR_LOGIC_BIT_SKEW (Logic Bit Skew) - Range table removed
- RSMXO_ATTR_DIGITAL_CHANNEL_SKEW (Digital Channel Skew) - Range table removed
- RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_START (Frequency Response Analysis Start) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_STOP (Frequency Response Analysis Stop) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_POINTS_TOTAL (Frequency Response Analysis Points Total) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_POINTS_LOGARITHMIC (Frequency Response Analysis Points Logarithmic) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_AMPLITUDE (Frequency Response Analysis Amplitude) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_DELAY_TIME (Frequency Response Analysis Delay Time) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_AMPLITUDE_PROFILE_AMPLITUDE (Frequency Response Analysis Amplitude Profile Amplitude) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_GAIN_VERTICAL_SCALE (Frequency Response Analysis Gain Vertical Scale) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_GAIN_VERTICAL_OFFSET (Frequency Response Analysis Gain Vertical Offset) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_PHASE_VERTICAL_OFFSET (Frequency Response Analysis Phase Vertical Offset) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_AMPLITUDE_VERTICAL_SCALE (Frequency Response Analysis Amplitude Vertical Scale) - Range table removed
 - RSMXO_ATTR_FREQUENCY_RESPONSE_ANALYSIS_AMPLITUDE_VERTICAL_OFFSET (Frequency Response Analysis Amplitude Vertical Offset) - Range table removed
- RSMXO_ATTR_GENERATOR_MODULATION_CARRIER_PERIOD (Generator Modulation Carrier Period) - Range table removed
- RSMXO_ATTR_GENERATOR_MODULATION_FM_DEVIATION (Generator Modulation FM Deviation) - Range table removed
- RSMXO_ATTR_SCREENSHOT_INVERT_COLOR (Screenshot Invert Color) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_SCREENSHOT_DESTINATION (Screenshot Destination) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_SCREENSHOT_PRINTER_COLOR_SET (Screenshot Printer Color Set) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_SCREENSHOT_FILE_EXTENSION (Screenshot File Extension) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_SCREENSHOT_SAVE (Screenshot Save) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_SCREENSHOT_SAVE_NEXT (Screenshot Save Next) - Removed repeated capability HardcopyOutput
- RSMXO_ATTR_DISPLAY_PERSISTENCE_TIME (Display Persistence Time) - Range table removed

- * Removed attributes:
 - RSMXO_ATTR_CURSOR_ADVANCED_RESULT_DIALOG_DEFAULT
 - RSMXO_ATTR_EXECUTE_SELF_TEST
 - RSMXO_ATTR_GENERATOR_MODULATION_STATE
 - RSMXO_ATTR_GENERATOR_SOURCE
 - RSMXO_ATTR_PROBE_METER_VISIBILITY
 - RSMXO_ATTR_PROTOCOL_DETERMINE_THRESHOLD
 - RSMXO_ATTR_REPORT_COMMENT
 - RSMXO_ATTR_REPORT_CUSTOM_LOGO_FILE
 - RSMXO_ATTR_REPORT_FILE_NAME
 - RSMXO_ATTR_REPORT_LANGUAGE
 - RSMXO_ATTR_REPORT_LOGO_TYPE
 - RSMXO_ATTR_REPORT_PAPER_SIZE
 - RSMXO_ATTR_REPORT_SAVE
 - RSMXO_ATTR_REPORT_USER_NAME
 - RSMXO_ATTR_SCREENSHOT_DISPLAY_COLOR
 - RSMXO_ATTR_SCREENSHOT_ORIENTATION
 - RSMXO_ATTR_SELF_TEST_STATE
 - RSMXO_ATTR_SPECTRUM_SCALE_VERTICAL_OFFSET
 - RSMXO_ATTR_TRIGGER_EDGE_GROUND_ENABLED

2.5 Version 1.1.0 / 11 – 2022

* Support for MXO 1.1.0 FW

* Initial Release

3 Getting Started

3.1 LabWindows/CVI driver

The Rohde & Schwarz **rsmxo** Instrument driver can be used in LabWindows/CVI 6 and later. In order to be able to compile an application it is required to add following files to your LabWindows/CVI project:

- *rsmxo.c + rsmxo.h*
- *rsmxo_attributes.c + rsmxo_attributes.h*
- *rsmxo_utility.c + rsmxo_utility.h*
- *rscore.c + rscore.h*
- *rsmxo_callbacks.c*
- *rsmxo.fp + rsmxo.sub*

3.2 VXIplug&play driver in C/C++, LabWindows/CVI

The compiled source code from LabWindows/CVI driver is used. The compiled ANSI-C libraries exist for Windows 7 64-bit and newer.

Add the following files to your 64-bit target project:

- C:\Program Files\IVI Foundation\VISA\Win64\Include\rsmxo.h
- C:\Program Files\IVI Foundation\VISA\Win64\Lib_x64\msc\rsmxo64.lib (static)
- C:\Program Files\IVI Foundation\VISA\Win64\Bin\rsmxo_64.dll (dynamic)

- C:\Program Files\IVI Foundation\VISA\Win64\rsmxo\rsmxo.fp (in CVI only)
- C:\Program Files\IVI Foundation\VISA\Win64\rsmxo\rsmxo.sub (in CVI only)

3.3 VXIplug&play driver in MATLAB

MATLAB instrument driver **rsmxo.mdd** can be found here:

C:\Program Files\IVI Foundation\VISA\Win64\rsmxo\rsmxo.mdd

For more, refer to [1MA171 - How to use R&S instrument in MATLAB](#)

3.4 Linux and Mac OS X

To be able to use Rohde & Schwarz **rsmxo** Instrument driver in Linux or macOS, the functioning VISA is required. Check out [R&S VISA](#) for Linux or macOS.

3.5 Additional Help

LabWindows/CVI and VXIplug&play instrument driver contains the documentation in a compressed HTML format (Windows CHM help file **rsmxo_vxi.chm**):

C:\Program Files\IVI Foundation\VISA\Win64\rsmxo\rsmxo_vxi.chm

4 Customer support

Technical support – where and when you need it

For quick, expert help with any Rohde & Schwarz product, contact our customer support center. A team of highly qualified engineers provides support and works with you to find a solution to your query on any aspect of the operation, programming or applications of Rohde & Schwarz products.

Contact information

Contact our customer support center at www.rohde-schwarz.com/support
or follow this QR code:

