

LabVIEW driver history for the R&S® CMA180 Radio Tester

Products:

| [R&S CMA180](#)



Contents

1	Supported Instruments.....	3
2	Revision History.....	3
2.1	Version 4.0.100 / 09 – 2023	3
2.2	Version 1.7.200 / 06 – 2022	4
2.3	Version 1.7.100 / 06 – 2021	6
2.4	Version 1.5.610 / 05 – 2020	8
2.5	Version 1.5.502 / 03 – 2019	9
2.6	Version 1.5.501 / 02 – 2019	9
2.7	Version 1.5.400 / 04 – 2017	15
2.8	Version 1.5.200 / 06 – 2016	17
2.9	Version 1.0.300 / 06 – 2015	24
2.10	Version 1.0.200 / 03 – 2015	25
2.11	Version 1.0.2 / 01 – 2015	28
2.12	Version 1.0.1 / 10 – 2014	28
2.13	Version 1.0.1 / 05 – 2014	28
3	Installation of the LabVIEW driver	29
3.1	Installation on a Windows machine.....	29
3.2	Installation on a non-Windows machine.....	29
4	Customer support.....	30

SS

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
CMA180	4.0.100	

2 Revision History

2.1 Version 4.0.100 / 09 – 2023

Support for CMA version 4.0.10
New Core 7.6.0

* New:

- Configure POCSAG Repetition.vi
- Configure Generator Free Dialing Equal or Individual.vi
- Configure Generator Free Dialing Individual Digit Pause.vi
- Configure Generator Dialing SELCAL Individual Digit Time.vi
- Configure Generator Dialing SELCAL Standard.vi
- Configure VoIP ATM Frequency Enable.vi
- Configure Generator ILS Localizer AF Fly Invert Direction.vi
- Configure Generator ILS Glide Slope AF Fly Invert Direction.vi
- Configure Analyzer AF Decay Time.vi
- Configure Analyzer Demodulation Filter Distortion Width Factor.vi
- Configure Analyzer AF Filter Distortion Width Factor.vi
- Configure Analyzer SPDIF Input Filter Distortion Width Factor.vi
- Configure Analyzer VoIP Filter Distortion Width Factor.vi
- Configure Analyzer Delta Results RF Power PEP Mode.vi
- Analyzer Delta Results RF Power PEP Update.vi
- Configure Analyzer Delta Results RF Power PEP User Value.vi
- Configure Analyzer Sel Call Minimal Length.vi
- Configure Analyzer Free Dialing Tones Minimal Length.vi
- Configure Analyzer Free Dialing Tones Frequency Range.vi
- Configure Analyzer SELCAL Standard.vi
- Configure Analyzer RF PEP Limits.vi
- Fetch Analyzer Tone DCS Code Word.vi
- Read Analyzer Tone DCS Code Word.vi
- Read RF Delta Power PEP Result.vi
- Fetch RF Delta Power PEP Result.vi
- Query Analyzer Delta Results RF Power PEP Measured Value.vi
- Read Analyzer Results AF Signal.vi
- Fetch Analyzer Results AF Signal.vi
- Configure Search Routine Timeout.vi
- Configure RX RF Level.vi
- Configure Digital Payload Type.vi
- Query Digital P25 Payload Type.vi
- Configure Digital P25 BER Limit.vi
- Read Digital P25 BER Results.vi
- Fetch Digital P25 BER Results.vi

Query Digital P25 BER Limit Check Results.vi
Read Digital P25 Power Results.vi
Fetch Digital P25 Power Results.vi
Read Digital P25 Signal Info.vi
Fetch Digital P25 Signal Info.vi
Configure ACP Digital Standard.vi
Configure ACP Data rate.vi
OPC Sync Write Enable.vi
OPC Sync Query Enable.vi

* Updated:

Configure Analyzer Demodulation Filter Distortion Width.vi - Range table value updated
Configure Analyzer AF Input Filters Distortion Width.vi - Range table value updated
Configure Analyzer SPDIF Input Filters Distortion Width.vi - Range table value updated
Configure Analyzer VoIP Distortion Width.vi - Range table value updated
Configure Audio Source.vi - Range table values updated

* Deleted:

Fetch Audio Delay Result.vi
Fetch SPDIF Delay Result.vi
Fetch VoIP Delay Result.vi
Configure RX Sensitivity Search Target Parameter.vi

2.2 Version 1.7.200 / 06 – 2022

* Support for CMA version 1.7.20

* New Core 7.4.0

* New classes:

AF Analyzer > Results > Delay
Digital

* New:

Configure User Defined Modulation Mode.vi
Configure User Defined Modulation Inverted Enabled.vi
Configure User Defined Data Enabled.vi
Query XRT Generator PEP.vi
Configure Audio Display.vi
Configure Analyzer AF Output Source.vi
Fetch Audio Delay Result.vi
Fetch SPDIF Delay Result.vi
Fetch VoIP Delay Result.vi
Configure Search Routine Display.vi
Configure TX Sensitivity Target Parameter.vi
Configure RX Bandwidth Search Max Level.vi
Configure VSE Display.vi
Read Digital Meas Spectrum Results.vi
Fetch Digital Meas Spectrum Results.vi
Fetch Digital Meas Spectrum Start Frequency.vi
Fetch Digital Meas Spectrum Stop Frequency.vi
Updated:
Query User Defined Modulation Mode.vi - Changed access to R/W, added 2FSK
Configure Generator AF VoIP.vi - Added AF2 IN to Source parameter
Configure Analyzer VoIP Trigger.vi - Help
Configure Digital Meas Standard.vi - Added Spectrum
Configure Digital IQ Measurement Control.vi - Added Spectrum to Standard parameter
Configure Digital Meas IQ Recorder Sample Rate.vi - Added Spectrum to Standard parameter

Configure Spectrum Analyzer Zero Span RBW.vi - Added Bandpass RBW

2.3 Version 1.7.100 / 06 – 2021

* Support for CMA version 1.7.10

* New core 7.3.0

* New classes:

Generator >> Digital Settings >> DPMR

XRT Generator

Search Routines >> TX Common

Search Routines >> TX Sensitivity

Digital Standard Measurement >> Configuration >> DPMR Settings

Digital Standard Measurement >> Configuration >> P25 Settings

Digital Standard Measurement >> Configuration >> RF Settings

Digital Standard Measurement >> Configuration >> TETRA Settings

Base System >> Units

* New:

Query SIP Reason Protocol.vi

Query SIP Reason Cause.vi

Query SIP Reason Text.vi

Configure Generator AF Multitone Total Level.vi

Configure Analyzer AF Output Upper Limit Level.vi

Configure Analyzer VoIP URI CMA.vi

Configure Analyzer VoIP Upper Limit Level.vi

Query Analyzer VoIP Head Fields.vi

Query Analyzer VoIP Squelch State.vi

Disable Analyzer All Filters.vi

Configure Analyzer Filter Notch Path.vi

Configure Analyzer Demodulation Filter Notch.vi

Configure Analyzer AF Input Filter Notch.vi

Configure Analyzer SPDIF Filter Notch.vi

Configure Analyzer VoIP Filter Notch.vi

Configure Analyzer Delta Results Demodulation Frequency Deviation Mode.vi

Analyzer Delta Results Demodulation Frequency Deviation Update.vi

Configure Analyzer Delta Results Demodulation Frequency Deviation User Value.vi

Query Analyzer Delta Results Demodulation Frequency Deviation Measured Value.vi

Configure Analyzer Delta Results Demodulation RMS Frequency Deviation Mode.vi

Analyzer Delta Results Demodulation RMS Frequency Deviation Update.vi

Configure Analyzer Delta Results Demodulation RMS Freq Deviation User Value.vi

Query Analyzer Delta Results Demodulation RMS Freq Deviation Measured Value.vi

Configure Analyzer Delta Results SPDIF RMS Level Mode.vi

Analyzer Delta Results SPDIF RMS Level Update.vi

Configure Analyzer Delta Results SPDIF RMS Level User Value.vi

Query Analyzer Delta Results SPDIF RMS Level Measured Value.vi

Configure Analyzer Delta Results VoIP RMS Level Mode.vi

Analyzer Delta Results VoIP RMS Level Update.vi

Configure Analyzer Delta Results VoIP RMS Level User Value.vi

Query Analyzer Delta Results VoIP RMS Level Measured Value.vi

Query Analyzer RSSI Code.vi

Configure Search Routine Overview Type.vi

Read RX Sensitivity Search Signal Quality Results.vi

Read RX Sensitivity Search RF Level Results.vi

Read RX Sensitivity Search Signal Quality Single Results.vi

Read RX Sensitivity Search Sensitivity Result.vi

Read RX Bandwidth Search Signal Quality Results.vi

Read RX Bandwidth Search Frequency Results.vi

Read RX Bandwidth Search Noise Level Trace Results.vi

Read RX Bandwidth Search Noise Level Results.vi

Read RX Bandwidth Search Single Frequency Results.vi
Read RX Bandwidth Search Single Noise Level Results.vi
Read RX Bandwidth Search Single Bandwidth Result.vi
Read RX Bandwidth Search Single Center Offset Result.vi
Configure RX Squelch Search Extent.vi
Read RX Squelch Search Signal Quality Results.vi
Read RX Squelch Search RF Level Results.vi
Read RX Squelch Search Single Off Level Result.vi
Read RX Squelch Search Single Off Level Quality Result.vi
Read RX Squelch Search Single On Level Result.vi
Read RX Squelch Search Single On Level Quality Result.vi
Read RX Squelch Search Single Tight Level Result.vi
Read RX Squelch Search Single Hysteresis Result.vi
Read Switched SNR Search Single Result.vi
Save Digital Meas Configuration.vi
Load Digital Meas Configuration.vi
Configure Digital Meas IQ Recorder Sample Rate.vi
Configure Digital Meas IQ Recorder LTE Channel Bandwidth.vi
Configure Digital Meas DPMR FSK Deviation Error Limit.vi
Configure Digital Meas DPMR FSK Frequency Error Limit.vi
Configure Digital Meas DPMR Magnitude Error Limit.vi
Configure Digital Meas P25 FSK Deviation Error Limit.vi
Configure Digital Meas P25 FSK Frequency Error Limit.vi
Configure Digital Meas P25 Modulation Fidelity Error Limit.vi
Read Digital Meas DPMR Symbols.vi
Fetch Digital Meas DPMR Symbols.vi
Query Digital Meas RF Results.vi
Read Digital Meas FSK Deviation Error Results.vi
Fetch Digital Meas FSK Deviation Error Results.vi
Query Digital Meas FSK Deviation Error Results.vi
Query Digital Meas FSK Freq Error Results.vi
Query Digital Meas Magnitude Error Results.vi
Read Digital Meas Phase Error Results.vi
Fetch Digital Meas Phase Error Results.vi
Query Digital Meas Phase Error Results.vi
Read Digital Meas EVM Results.vi
Fetch Digital Meas EVM Results.vi
Query Digital Meas EVM Results.vi
Read Digital Meas P25 Modulation Fidelity Results.vi
Fetch Digital Meas P25 Modulation Fidelity Results.vi
Query Digital Meas P25 Modulation Fidelity Results.vi
Read Digital Meas LTE EVM Results Current.vi
Fetch Digital Meas LTE EVM Results Current.vi
Read Digital Meas LTE Modulation Results Current.vi
Fetch Digital Meas LTE Modulation Results Current.vi
Read Digital Meas LTE Power Results Current.vi
Fetch Digital Meas LTE Power Results Current.vi
Fetch Digital Meas Symbol Distribution X Results.vi
Configure Spectrum Analyzer Tracking Generator VSWR Mode.vi
Configure FFT Spectrum All Markers Enabled.vi
Configure Global Display Language.vi
Updated:

All attributes with RS_VAL_RAWSTRING data type renamed to RSCMA_ATTR_HIDDEN_...
Query DMR Pulse Shape.vi - Parameter Impulse Length no longer used
Query NXDN Pulse Shape.vi - Parameter Impulse Length no longer used
Configure Analyzer AF Demodulator.vi - Parameters State Left, State Right are no longer used
Configure Analyzer Demodulation Trigger.vi - Parameters State, Repetition are no longer used
Configure Analyzer AF Trigger.vi - Parameter State is no longer used
Configure Analyzer SPDIF Trigger.vi - Parameter State is no longer used

Configure Analyzer VoIP Trigger.vi - Parameter State is no longer used
 Configure Analyzer Delta Results SPDIF Level Mode.vi - SCPI command updated
 Analyzer Delta Results SPDIF Level Update.vi - SCPI command updated
 Configure Analyzer Delta Results SPDIF Level User Value.vi - SCPI command updated
 Query Analyzer Delta Results SPDIF Level Measured Value.vi - SCPI command updated
 Configure Analyzer Delta Results VoIP Level Mode.vi - SCPI command updated
 Analyzer Delta Results VoIP Level Update.vi - SCPI command updated
 Configure Analyzer Delta Results VoIP Level User Value.vi - SCPI command updated
 Query Analyzer Delta Results VoIP Level Measured Value.vi - SCPI command updated
 Read Analyzer Demodulation Results.vi - Values Frequency Deviation Peak, Frequency Deviation RMS added to Measurement Type
 Fetch Analyzer Demodulation Results.vi - Values Frequency Deviation Peak, Frequency Deviation RMS added to Measurement Type
 Configure Search Routine Mode.vi - SCPI command updated
 Configure Search Routine RX Settling Time.vi - SCPI command updated
 Configure Search Routine RX Additional Points.vi - SCPI command updated
 Configure Digital Measurement Statistics.vi - Parameter Stop Condition is no longer used
 Configure Digital Meas Standard.vi - Value DPMR added to Standard
 Query Digital Meas DMR Pulse Shape.vi - Parameters Impulse Length, Roll-Off Factor are no longer used
 Configure CMA Sound.vi - Parameter CMA Source is no longer used
 System Version.vi - SCPI command updated
 Deleted:
 Apply VoIP Frequency.vi
 IPC Init.vi
 Query IPC Status.vi
 Query IPC Result.vi
 Apply Analyzer VoIP Frequency.vi
 Configure Analyzer Demodulation Filter Distortion Frequency.vi
 Configure Analyzer AF Input Limits.vi
 Read Analyzer AF Input Results.vi
 Fetch Analyzer AF Input Results.vi
 Read Analyzer Multitone Results.vi
 Fetch Analyzer Multitone Results.vi
 Configure Search Routine Audio Path.vi
 Read Digital Meas DMR Symbols Hexadecimal.vi
 Fetch Digital Meas DMR Symbols Hexadecimal.vi
 Read Digital Meas NXDN Symbols Hexadecimal.vi
 Fetch Digital Meas NXDN Symbols Hexadecimal.vi
 Read Digital Meas TETRA Symbols Hexadecimal.vi
 Fetch Digital Meas TETRA Symbols Hexadecimal.vi

2.4 Version 1.5.610 / 05 – 2020

* Version 1.5.610
 * New core 6.71.0

* New (33 items):
 Configure Generator AF Internal Generator Dual Tone.vi
 Configure Generator Dialing DTMF Reset To Standard.vi
 Configure Generator Dialing Sel Call Reset To Standard.vi
 Configure Generator Dialing SELCAL Reset To Standard.vi
 Configure VoIP URI Port.vi
 Configure Generator ILS Glide Slope AF Frequency Enabled.vi
 Configure Analyzer Display.vi
 Configure Analyzer Find RF Signal Burst Signal Enabled.vi
 Configure Analyzer AF First Input Maximum Level.vi

Configure Analyzer AF Second Input Maximum Level.vi
 Configure Analyzer AF First Output Level.vi
 Configure Analyzer AF Second Output Level.vi
 Configure Analyzer VoIP URI Port.vi
 Configure Analyzer Delta Results Demodulation Modulation Depth Mode.vi
 Analyzer Delta Results Demodulation Modulation Depth Update.vi
 Configure Analyzer Delta Results Demodulation Modulation Depth User Value.vi
 Query Analyzer Delta Results Demodulation Modulation Depth Measured Value.vi
 Configure Analyzer DTMF Tones Reset To Standard.vi
 Configure Analyzer Sel Call Reset To Standard.vi
 Configure Analyzer SELCAL Reset To Standard.vi
 Configure Analyzer Demodulation Limits Extended.vi
 Configure Analyzer AF Input Limits Extended.vi
 Configure Analyzer SPDIF Limits Extended.vi
 Configure Analyzer VoIP Limits Extended.vi
 Read Analyzer RF Carrier Frequency Result.vi
 Fetch Analyzer RF Carrier Frequency Result.vi
 Read Delta Analyzer Demodulation Result.vi
 Fetch Delta Analyzer Demodulation Result.vi
 Fetch RX Sensitivity Search Sensitivity Result.vi
 Query RX Sensitivity Search Sensitivity Error Code.vi
 Fetch RX Bandwidth Search Noise Level Trace Results.vi
 Fetch RX Bandwidth Search Noise Level Results.vi
 Configure Switched SNR Search AF Source.vi

* Updated (12 items):

Configure NXDN Data PRBS Seed Value.vi : - new default value
 Configure User Defined Data.vi : - new default value and range for Sequence Length
 Configure User Defined Pulse Shape.vi : - new range & default value for Bandwidth
 Configure Analyzer AF Input.vi : - new range and default value for Maximum Level
 Configure Analyzer VoIP.vi : - updated range table for Generator Coupling
 Configure Analyzer Demodulation Filters.vi : - new default val for Highpass Filter
 Fetch Analyzer Oscilloscope Results.vi : - added item to Input Type
 Read Delta Analyzer Signal Frequency Result.vi : - added items to Meas & Result
 Fetch Delta Analyzer Signal Frequency Result.vi : - added items to Meas & Result
 Configure FFT Spectrum Trigger.vi : - new range for Offset
 Configure Scenario.vi : - updated range table
 Configure Tracing File.vi : - new default value for Start Mode and Stop Mode
 Configure Analyzer RF Signal.vi : order changed - External Attenuation sent before Expected Power

2.5 Version 1.5.502 / 03 – 2019

* Fixed attribute flags

2.6 Version 1.5.501 / 02 – 2019

* Support for CMA version 1.5.50

* New:

Subsystem Generator -> Digital Settings
 Subsystem Search Routines
 Subsystem Digital Standard Measurement
 Subsystem Base System -> AF Impedance
 Query Generator VoIP PTT Indicator.vi
 Configure Generator ARB Range.vi

Configure VoIP URI CMA.vi
Query AnalyzerVoIP PCM Codec.vi
Configure Apply VoIP Settings To Measurement RF.vi
Configure Generator VOR AF Deviation.vi
Configure Generator ILS Localizer AF Frequency.vi
Configure Analyzer Dialing Start Timeout.vi
Configure Analyzer Dialing End Timeout.vi
Configure Analyzer Find RF Signal.vi
Configure Analyzer Find RF Signal Limit Freq Range.vi
Configure Analyzer AF Input Frequency Counter.vi
Configure Analyzer Sel Call Tones Measurement Accuracy.vi
Configure Analyzer Free Dialing Tones Measurement Accuracy.vi
Configure Analyzer FFT All Markers Enabled.vi
Configure Analyzer FFT Marker Placement.vi
Read Analyzer Tone Repetitions.vi
Fetch Analyzer Tone Repetitions.vi
Fetch Analyzer FFT Marker Position.vi
Fetch Analyzer FFT Marker Position Search.vi
Fetch Spectrum Analyzer Frequency Marker Position Value.vi
Fetch Spectrum Analyzer Zero Span Marker Position Value.vi
Configure EPS Aperture Time.vi
Configure Power Measurement RF Connector.vi
Configure FFT Spectrum RF Connector.vi
Fetch FFT Spectrum Analyzer Frequency Marker Position.vi
Fetch FFT Spectrum Analyzer Frequency Marker Position Value.vi
System Reset.vi
Reset All.vi
Reset Base.vi
Restart Device.vi
System Shutdown.vi
System Shutdown Device.vi
* Updated:
Configure Generator RF Signal.vi
Configure Generator ARB Characteristics.vi
Configure Generator AF VoIP.vi
Configure VoIP.vi
Configure Generator VOR RF Settings.vi
Configure Analyzer RF Signal.vi
Configure Analyzer Channel RF Signal.vi
Configure Analyzer VoIP.vi
Apply Analyzer VoIP Frequency.vi
Query Analyzer VoIP Frequency.vi
Configure Analyzer Demodulation Filter Distortion Frequency.vi
Configure Analyzer DTMF Tone.vi
Configure Analyzer Free Dialing Tone.vi
Query Analyzer SIP Connection State.vi
Query Analyzer SIP Response.vi
Query Analyzer SIP Code.vi

* Deleted:

Configure Analyzer Dialing Timeout.vi - replaced with Configure Analyzer Dialing Start Timeout.vi and
Configure Analyzer Dialing End Timeout.vi
Configure Impedance Matching Unit.vi
New attributes:
VoIP PTT Indicator (RSCMA_ATTR_VOIP_PTT_INDICATOR)
VoIP URI CMA (RSCMA_ATTR_VOIP_URI_CMA)
VoIP Apply To Measurement RF (RSCMA_ATTR_VOIP_APPLY_TO_MEASUREMENT_RF)
Generator VOR AF Deviation Enabled
(RSCMA_ATTR_GENERATOR_VOR_AF_DEVIATION_ENABLED)
Generator ILS Localizer AF Frequency Left Enabled
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_LEFT_ENABLED)

Generator ILS Localizer AF Frequency Right Enabled
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_RIGHT_ENABLED)
Digital Data Source (RSCMA_ATTR_DIGITAL_DATA_SOURCE)
DMR Modulation Mode (RSCMA_ATTR_DMR_MODULATION_MODE)
DMR Data Pattern (RSCMA_ATTR_DMR_DATA_PATTERN)
DMR Data PRBS Seed Value (RSCMA_ATTR_DMR_DATA_PRBS_SEED_VALUE)
DMR Data Symbol Rate (RSCMA_ATTR_DMR_DATA_SYMBOL_RATE)
DMR Data Colour Code (RSCMA_ATTR_DMR_DATA_COLOUR_CODE)
DMR Data Source Address (RSCMA_ATTR_DMR_DATA_SOURCE_ADDRESS)
DMR Data Group Address (RSCMA_ATTR_DMR_DATA_GROUP_ADDRESS)
DMR Pulse Shape Filter (RSCMA_ATTR_DMR_PULSE_SHAPE_FILTER)
DMR Pulse Shape Impulse Length (RSCMA_ATTR_DMR_PULSE_SHAPE_IMPULSE_LENGTH)
DMR Pulse Shape Roll-Off Factor (RSCMA_ATTR_DMR_PULSE_SHAPE_ROLLOFF_FACTOR)
NXDN Modulation Transmission (RSCMA_ATTR_NXDN_MODULATION_TRANSMISSION)
NXDN Modulation Mode (RSCMA_ATTR_NXDN_MODULATION_MODE)
NXDN Data Pattern (RSCMA_ATTR_NXDN_DATA_PATTERN)
NXDN Data PRBS Seed Value (RSCMA_ATTR_NXDN_DATA_PRBS_SEED_VALUE)
NXDN Data Symbol Rate (RSCMA_ATTR_NXDN_DATA_SYMBOL_RATE)
NXDN Data RAN (RSCMA_ATTR_NXDN_DATA_RAN)
NXDN Data Source Unit ID (RSCMA_ATTR_NXDN_DATA_SOURCE_UNIT_ID)
NXDN Data Destination Unit ID (RSCMA_ATTR_NXDN_DATA_DESTINATION_UNIT_ID)
NXDN Pulse Shape Filter (RSCMA_ATTR_NXDN_PULSE_SHAPE_FILTER)
NXDN Pulse Shape Impulse Length (RSCMA_ATTR_NXDN_PULSE_SHAPE_IMPULSE_LENGTH)
NXDN Pulse Shape Roll-Off Factor (RSCMA_ATTR_NXDN_PULSE_SHAPE_ROLLOFF_FACTOR)
POCSAG Modulation Mode (RSCMA_ATTR_POCSAG_MODULATION_MODE)
POCSAG Modulation Deviation (RSCMA_ATTR_POCSAG_MODULATION_DEVIATION)
POCSAG Modulation Inverted (RSCMA_ATTR_POCSAG_MODULATION_INVERTED)
POCSAG Data Symbol Rate (RSCMA_ATTR_POCSAG_DATA_SYMBOL_RATE)
POCSAG Data Pager Address (RSCMA_ATTR_POCSAG_DATA_PAGER_ADDRESS)
POCSAG Data Function Bits (RSCMA_ATTR_POCSAG_DATA_FUNCTION_BITS)
POCSAG Data Pager Type (RSCMA_ATTR_POCSAG_DATA_PAGER_TYPE)
POCSAG Data Message Content (RSCMA_ATTR_POCSAG_DATA_MESSAGE_CONTENT)
P25 Modulation Mode (RSCMA_ATTR_P25_MODULATION_MODE)
P25 Data Pattern (RSCMA_ATTR_P25_DATA_PATTERN)
P25 Data C4FM Symbol Rate (RSCMA_ATTR_P25_DATA_C4FM_SYMBOL_RATE)
P25 Data CQPSK Symbol Rate (RSCMA_ATTR_P25_DATA_CQPSK_SYMBOL_RATE)
P25 Data NAC (RSCMA_ATTR_P25_DATA_NAC)
P25 Data Talk Group ID (RSCMA_ATTR_P25_DATA_TALK_GROUP_ID)
P25 Data Source ID (RSCMA_ATTR_P25_DATA_SOURCE_ID)
P25 Data Emergency Enabled (RSCMA_ATTR_P25_DATA_EMERGENCY_ENABLED)
P25 Pulse Shape C4FM Filter (RSCMA_ATTR_P25_PULSE_SHAPE_C4FM_FILTER)
P25 Pulse Shape C4FM Impulse Length
(RSCMA_ATTR_P25_PULSE_SHAPE_C4FM_IMPULSE_LENGTH)
P25 Pulse Shape C4FM Roll-Off Factor
(RSCMA_ATTR_P25_PULSE_SHAPE_C4FM_ROLLOFF_FACTOR)
P25 Pulse Shape CQPSK Filter (RSCMA_ATTR_P25_PULSE_SHAPE_CQPSK_FILTER)
P25 Pulse Shape CQPSK Impulse Length
(RSCMA_ATTR_P25_PULSE_SHAPE_CQPSK_IMPULSE_LENGTH)
P25 Pulse Shape CQPSK Roll-Off Factor
(RSCMA_ATTR_P25_PULSE_SHAPE_CQPSK_ROLLOFF_FACTOR)
Analyzer Find RF Signal Detection Mode
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_DETECTION_MODE)
Analyzer Find RF Signal Timeout (RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_TIMEOUT)
Analyzer Find RF Signal Automatically Apply Enabled
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_AUTOMATICALLY_APPLY_ENABLED)
Analyzer Find RF Signal Audio Gen Coupling
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_AUDIO_GEN_COUPLING)
Analyzer Find RF Signal Audio Frequency
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_AUDIO_FREQUENCY)
Analyzer Find RF Signal Limit Freq Range Enabled
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_LIMIT_FREQ_RANGE_ENABLED)

Analyzer Find RF Signal Limit Freq Range Lower
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_LIMIT_FREQ_RANGE_LOWER)
Analyzer Find RF Signal Limit Freq Range Upper
(RSCMA_ATTR_ANALYZER_FIND_RF_SIGNAL_LIMIT_FREQ_RANGE_UPPER)
Analyzer AF Input Frequency Counter
(RSCMA_ATTR_ANALYZER_AF_INPUT_FREQUENCY_COUNTER)
Analyzer VoIP URI CMA (RSCMA_ATTR_ANALYZER_VOIP_URI_CMA)
Analyzer VoIP PCM Codec (RSCMA_ATTR_ANALYZER_VOIP_PCM_CODEC)
Analyzer VoIP Apply To Measurement RF
(RSCMA_ATTR_ANALYZER_VOIP_APPLY_TO_MEASUREMENT_RF)
Analyzer Free Dialing Tones Measurement Accuracy
(RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_MEASUREMENT_ACCURACY)
Analyzer Sel Call Tones Measurement Accuracy
(RSCMA_ATTR_ANALYZER_SEL_CALL_TONES_MEASUREMENT_ACCURACY)
Analyzer FFT All Markers Enabled (RSCMA_ATTR_ANALYZER_FFT_ALL_MARKERS_ENABLED)
Analyzer FFT Marker Placement (RSCMA_ATTR_ANALYZER_FFT_MARKER_PLACEMENT)
Search Routine Audio Path (RSCMA_ATTR_SEARCH_ROUTINE_AUDIO_PATH)
Initialize Search Routine (RSCMA_ATTR_INITIALIZE_SEARCH_ROUTINE)
Stop Search Routine (RSCMA_ATTR_STOP_SEARCH_ROUTINE)
Abort Search Routine (RSCMA_ATTR_ANALYZER_ABORT_SEARCH_ROUTINE)
RX Sensitivity Search Maximum RF Level
(RSCMA_ATTR_RX_SENSITIVITY_SEARCH_MAXIMUM_RF_LEVEL)
RX Sensitivity Search Dialing Before Measurement Enabled
(RSCMA_ATTR_RX_SENSITIVITY_SEARCH_DIALING_BEFORE_MEASUREMENT_ENABLED)
RX Sensitivity Search Target Parameter
(RSCMA_ATTR_RX_SENSITIVITY_SEARCH_TARGET_PARAMETER)
RX Sensitivity Search Target Parameter Value
(RSCMA_ATTR_RX_SENSITIVITY_SEARCH_TARGET_PARAMETER_VALUE)
Digital Meas Statistic Count (RSCMA_ATTR_DIGITAL_MEAS_STATISTIC_COUNT)
Digital Meas PVT Result Enabled (RSCMA_ATTR_DIGITAL_MEAS_PVT_RESULT_ENABLED)
Digital Meas Eye Diagram Result Enabled
(RSCMA_ATTR_DIGITAL_MEAS_EYE_DIAGRAM_RESULT_ENABLED)
Digital Meas Symbol Distribution Result Enabled
(RSCMA_ATTR_DIGITAL_MEAS_SYMBOL_DISTRIBUTION_RESULT_ENABLED)
Digital Meas Statistic Repetition Mode
(RSCMA_ATTR_DIGITAL_MEAS_STATISTIC_REPETITION_MODE)
Digital Meas Statistic Repetition Coupling Enabled
(RSCMA_ATTR_DIGITAL_MEAS_STATISTIC_REPETITION_COUPLING_ENABLED)
Digital Meas Statistic Repetition Automatic Mode Enabled
(RSCMA_ATTR_DIGITAL_MEAS_STATISTIC_REPETITION_AUTOMATIC_MODE_ENABLED)
Digital Meas Stop Condition (RSCMA_ATTR_DIGITAL_MEAS_STOP_CONDITION)
Digital Meas Timeout (RSCMA_ATTR_DIGITAL_MEAS_TIMEOUT)
Digital Meas DMR Demodulation Mode
(RSCMA_ATTR_DIGITAL_MEAS_DMR_DEMODULATION_MODE)
Digital Meas DMR Demodulation Symbol Rate
(RSCMA_ATTR_DIGITAL_MEAS_DMR_DEMODULATION_SYMBOL_RATE)
Digital Meas DMR Pulse Shape Filter
(RSCMA_ATTR_DIGITAL_MEAS_DMR_PULSE_SHAPE_FILTER)
Digital Meas DMR Pulse Shape Impulse Length
(RSCMA_ATTR_DIGITAL_MEAS_DMR_PULSE_SHAPE_IMPULSE_LENGTH)
Digital Meas DMR Pulse Shape Roll-Off Factor
(RSCMA_ATTR_DIGITAL_MEAS_DMR_PULSE_SHAPE_ROLLOFF_FACTOR)
Initialize Digital Measurement (RSCMA_ATTR_INITIALIZE_DIGITAL_MEASUREMENT)
Stop Digital Measurement (RSCMA_ATTR_STOP_DIGITAL_MEASUREMENT)
Abort Digital Measurement (RSCMA_ATTR_ABORT_DIGITAL_MEASUREMENT)
EPS Aperture Time (RSCMA_ATTR_EPS_APERTURE_TIME)
FFT Spectrum Analyzer All Markers Enabled
(RSCMA_ATTR_FFT_SPECTRUM_ANALYZER_ALL_MARKERS_ENABLED)
FFT Spectrum Analyzer Marker Placement
(RSCMA_ATTR_FFT_SPECTRUM_ANALYZER_MARKER_PLACEMENT)
AF Impedance Input External Circuitry
(RSCMA_ATTR_AF_IMPEDANCE_INPUT_EXTERNAL_CIRCUITRY)

AF Impedance Input Attenuator Enabled
(RSCMA_ATTR_AF_IMPEDANCE_INPUT_ATTENUATOR_ENABLED)
AF Impedance Input R Z600A (RSCMA_ATTR_AF_IMPEDANCE_INPUT_R_Z600A)
AF Impedance Output External Circuitry
(RSCMA_ATTR_AF_IMPEDANCE_OUTPUT_EXTERNAL_CIRCUITRY)
AF Impedance Output R Z600A (RSCMA_ATTR_AF_IMPEDANCE_OUTPUT_R_Z600A)
System Reset (RSCMA_ATTR_SYSTEM_RESET)
System Reset All (RSCMA_ATTR_SYSTEM_RESET_ALL)
System Reset Base (RSCMA_ATTR_SYSTEM_RESET_BASE)
System Restart Device (RSCMA_ATTR_SYSTEM_RESTART_DEVICE)
System Shutdown (RSCMA_ATTR_SYSTEM_SHUTDOWN)
System Shutdown Device (RSCMA_ATTR_SYSTEM_SHUTDOWN_DEVICE)

* Modified attributes:

VoIP URI User (RSCMA_ATTR_VOIP_URI_USER) - Data type modified (ViInt32 to ViString)
VoIP Frequency ID (RSCMA_ATTR_VOIP_FREQUENCY_ID) - new range: <0.1;999.99>
Generator RF External Attenuation
(RSCMA_ATTR_GENERATOR_RF_EXTERNAL_ATTENUATION) - new range: <-50;90>
ARB Trigger Delay (RSCMA_ATTR_ARB_TRIGGER_DELAY) - new range: <0;100>
Generator DCS Tone Turn Off Code Length
(RSCMA_ATTR_GENERATOR_DCS_TONE_TURN_OFF_CODE_LENGTH) - Changed range
Generator Sel Call Standard (RSCMA_ATTR_GENERATOR_SEL_CALL_STANDARD) - New standards supported
Generator VOR RF External Attenuation
(RSCMA_ATTR_GENERATOR_VOR_RF_EXTERNAL_ATTENUATION) - new range: <-50;90>
Analyzer RF External Attenuation (RSCMA_ATTR_ANALYZER_RF_EXTERNAL_ATTENUATION) - new range: <-50;90>
Analyzer Channel Offset (RSCMA_ATTR_ANALYZER_CHANNEL_OFFSET) - new range: <2;2>
Analyzer SIP Connection State (RSCMA_ATTR_ANALYZER_SIP_CONNECTION_STATE) - Short command was modified
Analyzer SIP Code (RSCMA_ATTR_ANALYZER_SIP_CODE) - Short command was modified
Analyzer SIP Response (RSCMA_ATTR_ANALYZER_SIP_RESPONSE) - Short command was modified
Analyzer VoIP Enabled (RSCMA_ATTR_ANALYZER_VOIP_ENABLED) - Short command was modified
Analyzer VoIP URI User (RSCMA_ATTR_ANALYZER_VOIP_URI_USER) - Data type modified (ViInt32 to ViString)
Analyzer VoIP URI IP (RSCMA_ATTR_ANALYZER_VOIP_URI_IP) - Short command was modified
Analyzer VoIP Generator Coupling (RSCMA_ATTR_ANALYZER_VOIP_GENERATOR_COUPLING) - Short command was modified
Analyzer VoIP Frequency ID (RSCMA_ATTR_ANALYZER_VOIP_FREQUENCY_ID) - Data type changed (ViInt32 to ViReal64)
Analyzer Apply VoIP Frequency (RSCMA_ATTR_ANALYZER_APPLY_VOIP_FREQUENCY) - Short command was modified
Analyzer RF Bandpass Filter (RSCMA_ATTR_ANALYZER_RF_BANDPASS_FILTER) - New range table values, now is writable
Analyzer Demodulation Trigger Repetition
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_REPETITION) - Changed command
Analyzer Demodulation Trigger FM Threshold
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_FM_THRESHOLD) - new range: <-96;96>
Analyzer Demodulation Trigger State
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_STATE) - Changed command
Analyzer AF Trigger Repetition (RSCMA_ATTR_ANALYZER_AF_TRIGGER_REPETITION) - Changed command
Analyzer AF Trigger Coupling (RSCMA_ATTR_ANALYZER_AF_TRIGGER_COUPLING) - Added VoIP
Analyzer SPDIF Trigger Repetition (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_REPETITION) - Changed command
Analyzer DTMF Tones Sequence Length
(RSCMA_ATTR_ANALYZER_DTMF_TONES_SEQUENCE_LENGTH) - new range: <1;42>
Analyzer Free Dialing Tones Sequence Length
(RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_SEQUENCE_LENGTH) - new range: <1;42>
Analyzer Sel Call Tones Standard (RSCMA_ATTR_ANALYZER_SEL_CALL_TONES_STANDARD) - New standards supported

RF External Attenuation (RSCMA_ATTR_RF_EXTERNAL_ATTENUATION) - new range: <-50;90>

* Deleted attributes:

ARB Range (RSCMA_ATTR_ARB_RANGE)

AF Impedance Box Enabled (RSCMA_ATTR_AF_IMPEDANCE_BOX_ENABLED)

AF Impedance Box Impedance (RSCMA_ATTR_AF_IMPEDANCE_BOX_IMPEDANCE)

Modified Range Tables:

rscma_rngExtAtt - RSCMA_ATTR_GENERATOR_RF_EXTERNAL_ATTENUATION,

RSCMA_ATTR_ANALYZER_RF_EXTERNAL_ATTENUATION,

RSCMA_ATTR_RF_EXTERNAL_ATTENUATION

Range changed to <-50.0;90.0>

rscma_rngARBTriggerDelay - RSCMA_ATTR_ARB_TRIGGER_DELAY

Range changed to <0.0;100.0>

RsCma_rngGeneratorVORExternalAttenuation -

RSCMA_ATTR_GENERATOR_VOR_RF_EXTERNAL_ATTENUATION

Range changed to <-50;90>

RsCma_rngAnalyzerDTMFTonesSequenceLength -

RSCMA_ATTR_ANALYZER_DTMF_TONES_SEQUENCE_LENGTH

Range changed to <1;42>

RsCma_rngAnalyzerFreeDialingTonesSequenceLength -

RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_SEQUENCE_LENGTH

Range changed to <1;42>

RsCma_rngAFVoIPSource - RSCMA_ATTR_AF_VOIP_SOURCE

New items: RSCMA_VAL_VOIP_SOURCE_GEN4

RsCma_rngVoIPFrequencyID - RSCMA_ATTR_VOIP_FREQUENCY_ID,

RSCMA_ATTR_ANALYZER_VOIP_FREQUENCY_ID

Range changed to <0.1;999.99>

RsCma_rngVoIPFrequencyID - RSCMA_ATTR_VOIP_FREQUENCY_ID,

RSCMA_ATTR_ANALYZER_VOIP_FREQUENCY_ID

Changed data type ("ViReal64", "ViInt32")

2.7 Version 1.5.400 / 04 – 2017

- * Support for CMA version 1.5.40
- * Exchanged Driver Core 6.7.0 that supports Simulation mode and Logging
- * All VISA resource name inputs are mandatory
- * Changed Palette Icons and Driver Icon strip
- * Cleaned up all the Front Panels and Block Diagrams

* New:

Query Reference Frequency Warming Up.vi
Query Generator SIP Connection State.vi
Query Generator SIP Response.vi
Query Generator SIP Code.vi
Configure Generator AF Internal Generator Dialing State.vi
Configure Generator AF Internal Generator Dialing Mode.vi
Configure Generator AF VoIP.vi
Configure Generator DCS Code Word.vi
Configure Generator DCS Rate Offset.vi
Configure Generator Dialing DTMF Enable User Defined Tone Table.vi
Configure Generator Dialing DTMF User Defined Tone Table.vi
Configure Generator Dialing Sel Call Enable User Defined Tone Table.vi
Configure Generator Dialing Sel Call User Defined Tone Table.vi
Configure Generator Dialing SELCAL.vi
Configure Generator Dialing SELCAL Enable User Defined Tone Table.vi
Configure Generator Dialing SELCAL User Defined Tone Table.vi
Configure VoIP.vi
Apply VoIP Frequency.vi
Query VoIP Frequency.vi
Configure Analyzer Repetition Automatic Mode.vi
Configure Analyzer Repetition Coupling.vi
Configure Analyzer Trigger Timeout.vi
Configure Analyzer DCS Timeout.vi
Configure Analyzer Dialing Timeout.vi
Configure Analyzer VoIP.vi
Apply Analyzer VoIP Frequency.vi
Query Analyzer VoIP Frequency.vi
Configure Analyzer Demodulation Bandpass Filter Bandwidth.vi
Configure Analyzer VoIP Filters.vi
Configure Analyzer VoIP Distortion Frequency.vi
Configure Analyzer VoIP Distortion Width.vi
Configure Analyzer Demodulation Trigger Source.vi
Query Analyzer Demodulation Measurement Time.vi
Configure Analyzer AF Trigger Source.vi
Query Analyzer AF Measurement Time.vi
Configure Analyzer SPDIF Trigger Source.vi
Query Analyzer SPDIF Measurement Time.vi
Configure Analyzer VoIP Trigger.vi
Query Analyzer VoIP Measurement Time.vi
Configure Analyzer DTMF Enable User Defined Tone Table.vi
Configure Analyzer DTMF User Defined Tone Table.vi
Configure Analyzer Sel Call From Generator.vi
Configure Analyzer Sel Call Sequence Length.vi
Configure Analyzer Sel Call Enable User Defined Tone Table.vi
Configure Analyzer Sel Call User Defined Tone Table.vi
Configure Analyzer SELCAL From Generator.vi
Configure Analyzer SELCAL Enable User Defined Tone Table.vi
Configure Analyzer SELCAL User Defined Tone Table.vi
Configure Analyzer VoIP Limits.vi
Query Analyzer SIP Connection State.vi
Query Analyzer SIP Response.vi
Query Analyzer SIP Code.vi

Read Analyzer Tone DCS Last Code Word.vi
Fetch Analyzer Tone DCS Last Code Word.vi
Read Analyzer Tone DCS Number Of Matches.vi
Fetch Analyzer Tone DCS Number Of Matches.vi
Read Analyzer Tone DCS Turn Off Code Length.vi
Fetch Analyzer Tone DCS Turn Off Code Length.vi
Configure Spectrum Analyzer Repetition Coupling.vi
Select Spectrum Application.vi
Select Spectrum Trace.vi
Configure EPS Repetition Coupling.vi
Configure EPS Display.vi
Configure NRTZ Used Device.vi
Configure NRTZ Repetition Coupling.vi
Configure NRTZ Attenuation Port.vi
Configure ACP Repetition Coupling.vi
Select ACP Application.vi
Select ACP Trace.vi
Configure Power Measurement Repetition Automatic Mode.vi
Configure Power Measurement Repetition Coupling.vi
Configure IQ Recorder Write To File Setting.vi
Configure FFT Spectrum Repetition Coupling.vi
Select FFT Spectrum Application.vi
Select FFT Spectrum Trace.vi
Query Operating Mode.vi
Query Battery Information.vi
Query Battery Slot Information.vi
Configure Sound Squelch Enabled.vi
IPC Init.vi
Query IPC Status.vi
Query IPC Result.vi
Configure Global Display Tab Mode.vi
Query Global Display Available Applications.vi
Select Global Display Application.vi
Query Active RF Path Correction File Date.vi
Minimize Test Software.vi
Restart Test Software.vi

* Updated:

Configure Generator AF Internal Generator Tone Mode.vi
Configure Generator DCS Tone.vi
Configure Generator Free Dialing.vi
Configure Generator Dialing Sel Call Standard.vi
Configure Generator Dialing Sel Call.vi
Configure Analyzer Demodulation Trigger.vi
Configure Analyzer AF Trigger.vi
Configure Analyzer SPDIF Trigger.vi
Configure Analyzer Oscilloscope X Division.vi
Configure Analyzer Tone Mode.vi
Configure Analyzer Sel Call Tone.vi
Configure Analyzer Tone Limits.vi
Read Analyzer Signal Power Frequency Results.vi
Fetch Analyzer Signal Power Frequency Results.vi
Read Analyzer Signal Quality Results.vi
Fetch Analyzer Signal Quality Results.vi
Query Analyzer Signal Quality Limit Check Results.vi
Read Analyzer Oscilloscope Results.vi
Fetch Analyzer Oscilloscope Results.vi
Read Analyzer Tone Results.vi
Fetch Analyzer Tone Results.vi
Read Analyzer Tone Sequence Results.vi
Fetch Analyzer Tone Sequence Results.vi
Read Analyzer FFT Results.vi

Fetch Analyzer FFT Results.vi
Query ACP Limit Check Results.vi
Configure FFT Spectrum Trigger.vi
Configure Scenario.vi
Configure CMA Sound.vi

2.8 Version 1.5.200 / 06 – 2016

* Support for CMA version 1.5.20

* New:

Subsystem NRTZ
Subsystem I/Q Recorder
Subsystem Global Display
Query Generator Reliability Message.vi
Configure Generator CTCSS Tone State.vi
Configure Generator DCS Tone.vi
Query Generator DCS Tone Data Rate.vi
Configure Generator Dialing DTMF.vi
Configure Generator Free Dialing.vi
Configure Generator Free Dialing Tone Type.vi
Configure Generator Free Dialing Single Tone List.vi
Configure Generator Free Dialing Dual Tone List.vi
Configure Generator Dialing Sel Call Standard.vi
Configure Generator Dialing Sel Call.vi
Configure Generator VOR State.vi
Configure Generator VOR RF Settings.vi
Configure Generator VOR RF Connector Output.vi
Configure Generator VOR AF Connector Output.vi
Configure Generator VOR AF For Reference Signal.vi
Configure Generator VOR AF With Variable Phase.vi
Configure Generator VOR AF ID Signal.vi
Configure Generator ILS.vi
Configure Generator ILS Localizer RF Settings.vi
Configure Generator ILS Localizer RF Connector Output.vi
Configure Generator ILS Localizer Channel.vi
Configure Generator ILS Localizer AF Settings.vi
Configure Generator ILS Localizer AF Connector Output.vi
Configure Generator ILS Localizer AF ID Signal.vi
Configure Generator ILS Glide Slope RF Settings.vi
Configure Generator ILS Glide Slope RF Connector Output.vi
Configure Generator ILS Glide Slope AF Settings.vi
Configure Generator ILS Glide Slope AF Connector Output.vi
Configure Generator ILS Glide Slope Channel.vi
Configure Generator Marker Beacon State.vi
Configure Generator Marker Beacon RF Settings.vi
Configure Generator Marker Beacon RF Connector Output.vi
Configure Generator Marker Beacon AF Settings.vi
Configure Generator Marker Beacon AF Connector Output.vi
Configure Generator Marker Beacon AF ID Signal.vi
Configure Analyzer Enable Measurement Results.vi
Configure Analyzer Demodulation Trigger.vi
Configure Analyzer AF Trigger.vi
Configure Analyzer SPDIF Trigger.vi
Configure Analyzer Oscilloscope X Division.vi
Configure Analyzer Tone Mode.vi
Configure Analyzer DTMF Tone.vi
Configure Analyzer Free Dialing Tone.vi
Configure Analyzer Single Tone List.vi

Configure Analyzer Dual Tone List.vi
Configure Analyzer Sel Call Tone.vi
Configure Analyzer DCS Tone.vi
Configure Analyzer Tone Limits.vi
Read Analyzer Oscilloscope Results.vi
Fetch Analyzer Oscilloscope Results.vi
Read Analyzer Tone Results.vi
Fetch Analyzer Tone Results.vi
Read Analyzer Tone Sequence Results.vi
Fetch Analyzer Tone Sequence Results.vi
Read Analyzer Tone DCS Results.vi
Fetch Analyzer Tone DCS Results.vi
Fetch Analyzer Frequency Counter Error.vi
Configure Spectrum Analyzer Detector.vi
Configure Spectrum Analyzer Markers State.vi
Configure Spectrum Analyzer Frequency Marker Mode.vi
Configure Spectrum Analyzer Frequency Marker Range.vi
Configure Spectrum Analyzer Zero Span Marker Mode.vi
Configure Spectrum Analyzer Zero Span Marker Range.vi
Fetch Spectrum Analyzer Frequency Marker Position.vi
Fetch Spectrum Analyzer Zero Span Marker Position.vi
Configure RF Audible Warning.vi
Configure CMA Sound.vi
Configure System Speaker.vi
Configure Speaker.vi
Query Latest Specific Calibration.vi
Clear Status.vi
ID Query Response.vi
Process All Previous Commands.vi
Query OPC.vi

* Updated:

Configure Generator AF Internal Generator Tone Mode.vi - New values in range table (DTMF, Selective Calling, Free Dialing, Square Signal)
Configure Generator Preemphasis Filter.vi - New value in range table (750 us)
Configure Generator Tones.vi - New value in Active Tone range table (DCS)
Configure Analyzer Demodulation Filters.vi - New values in Lowpass Filter range table (255 Hz, 3.4 kHz)
Read Analyzer Signal Power Frequency Results.vi - New values in Measurement Type range table (Demodulation Left, Demodulation Right)
Fetch Analyzer Signal Power Frequency Results.vi - New values in Measurement Type range table (Demodulation Left, Demodulation Right)
Configure ACP Upper ACLR Limits.vi - limit changed
Configure Power Measurement Trigger.vi - SCPI command changed
Configure Reference Frequency.vi - New value in Source range table (Inv)
Read To File From Instrument.vi - data handling for big files
Write File To Instrument.vi - data handling for big files
Configure Spectrum Analyzer Frequency Center Span.vi - range checking removed at 'Center' control

* Deleted:

Fetch Spectrum Analyzer Marker Next Peak.vi
Fetch Spectrum Analyzer Reference Marker Search Peak.vi
Fetch Spectrum Analyzer Reference Marker Next Peak.vi

* New attributes:

Generator CTCSS Tone Enabled (RSCMA_ATTR_GENERATOR CTCSS_TONE_ENABLED)
Generator DCS Tone Enabled (RSCMA_ATTR_GENERATOR_DCS_TONE_ENABLED)
Generator DCS Tone FSK Deviation (RSCMA_ATTR_GENERATOR_DCS_TONE_FSK_DEVIATION)
Generator DCS Tone Inverted FSK (RSCMA_ATTR_GENERATOR_DCS_TONE_INVERTED_FSK)
Generator DCS Tone Data Rate (RSCMA_ATTR_GENERATOR_DCS_TONE_DATA_RATE)
Generator DCS Tone Turn Off Code (RSCMA_ATTR_GENERATOR_DCS_TONE_TURN_OFF_CODE)
Generator DCS Tone Turn Off Code Length
(RSCMA_ATTR_GENERATOR_DCS_TONE_TURN_OFF_CODE_LENGTH)

Generator Dialing Start (RSCMA_ATTR_GENERATOR_DIALING_START)
Generator Dialing DTMF Sequence (RSCMA_ATTR_GENERATOR_DIALING_DTMF_SEQUENCE)
Generator Dialing DTMF Repeat (RSCMA_ATTR_GENERATOR_DIALING_DTMF_REPEAT)
Generator Dialing DTMF Pause (RSCMA_ATTR_GENERATOR_DIALING_DTMF_PAUSE)
Generator Dialing DTMF Digit Time (RSCMA_ATTR_GENERATOR_DIALING_DTMF_DIGIT_TIME)
Generator Dialing DTMF Digit Pause (RSCMA_ATTR_GENERATOR_DIALING_DTMF_DIGIT_PAUSE)
Generator Free Dialing Tone Type (RSCMA_ATTR_GENERATOR_FREE_DIALING_TONE_TYPE)
Generator Free Dialing Sequence (RSCMA_ATTR_GENERATOR_FREE_DIALING_SEQUENCE)
Generator Free Dialing Repeat (RSCMA_ATTR_GENERATOR_FREE_DIALING_REPEAT)
Generator Free Dialing Pause (RSCMA_ATTR_GENERATOR_FREE_DIALING_PAUSE)
Generator Free Dialing Digit Time (RSCMA_ATTR_GENERATOR_FREE_DIALING_DIGIT_TIME)
Generator Free Dialing Digit Pause (RSCMA_ATTR_GENERATOR_FREE_DIALING_DIGIT_PAUSE)
Generator Sel Call Standard (RSCMA_ATTR_GENERATOR_SEL_CALL_STANDARD)
Generator Sel Call Sequence (RSCMA_ATTR_GENERATOR_SEL_CALL_SEQUENCE)
Generator Sel Call Repeat (RSCMA_ATTR_GENERATOR_SEL_CALL_REPEAT)
Generator Sel Call Pause (RSCMA_ATTR_GENERATOR_SEL_CALL_PAUSE)
Generator Sel Call Digit Time (RSCMA_ATTR_GENERATOR_SEL_CALL_DIGIT_TIME)
Generator Sel Call Digit Pause (RSCMA_ATTR_GENERATOR_SEL_CALL_DIGIT_PAUSE)
Generator Sel Call Digit Repeat (RSCMA_ATTR_GENERATOR_SEL_CALL_DIGIT_REPEAT)
Generator AF Multitone Frequency (RSCMA_ATTR_GENERATOR_AF_MULTITONE_FREQUENCY)
Generator VOR Enabled (RSCMA_ATTR_GENERATOR_VOR_ENABLED)
Generator VOR Signal State (RSCMA_ATTR_GENERATOR_VOR_SIGNAL_STATE)
Generator VOR RF Output Enabled (RSCMA_ATTR_GENERATOR_VOR_RF_OUTPUT_ENABLED)
Generator VOR RF Output Connector
(RSCMA_ATTR_GENERATOR_VOR_RF_OUTPUT_CONNECTOR)
Generator VOR RF Output Level (RSCMA_ATTR_GENERATOR_VOR_RF_OUTPUT_LEVEL)
Generator VOR RF External Attenuation
(RSCMA_ATTR_GENERATOR_VOR_RF_EXTERNAL_ATTENUATION)
Generator VOR RF Frequency (RSCMA_ATTR_GENERATOR_VOR_RF_FREQUENCY)
Generator VOR AF Output Enabled (RSCMA_ATTR_GENERATOR_VOR_AF_OUTPUT_ENABLED)
Generator VOR AF Output Connector
(RSCMA_ATTR_GENERATOR_VOR_AF_OUTPUT_CONNECTOR)
Generator VOR AF Output Level (RSCMA_ATTR_GENERATOR_VOR_AF_OUTPUT_LEVEL)
Generator VOR AF Reference Signal Enabled
(RSCMA_ATTR_GENERATOR_VOR_AF_REFERENCE_SIGNAL_ENABLED)
Generator VOR AF Modulation Depth
(RSCMA_ATTR_GENERATOR_VOR_AF_MODULATION_DEPTH)
Generator VOR AF Carrier Frequency
(RSCMA_ATTR_GENERATOR_VOR_AF_CARRIER_FREQUENCY)
Generator VOR AF Deviation (RSCMA_ATTR_GENERATOR_VOR_AF_DEVIATION)
Generator VOR AF Frequency (RSCMA_ATTR_GENERATOR_VOR_AF_FREQUENCY)
Generator VOR AF VAR Enabled (RSCMA_ATTR_GENERATOR_VOR_AF_VAR_ENABLED)
Generator VOE AF VAR Modulation Depth
(RSCMA_ATTR_GENERATOR_VOE_AF_VAR_MODULATION_DEPTH)
Generator VOR AF VAR Bearing Angle
(RSCMA_ATTR_GENERATOR_VOR_AF_VAR_BEARING_ANGLE)
Generator VOR AF VAR Direction (RSCMA_ATTR_GENERATOR_VOR_AF_VAR_DIRECTION)
Generator VOR AF ID Signal Enabled
(RSCMA_ATTR_GENERATOR_VOR_AF_ID_SIGNAL_ENABLED)
Generator VOR AF ID Signal Modulation Depth
(RSCMA_ATTR_GENERATOR_VOR_AF_ID_SIGNAL_MODULATION_DEPTH)
Generator VOR AF ID Signal Frequency
(RSCMA_ATTR_GENERATOR_VOR_AF_ID_SIGNAL_FREQUENCY)
Generator ILS Enabled (RSCMA_ATTR_GENERATOR_ILS_ENABLED)
Generator ILS Signal State (RSCMA_ATTR_GENERATOR_ILS_SIGNAL_STATE)
Generator ILS Source (RSCMA_ATTR_GENERATOR_ILS_SOURCE)
Generator ILS RF External Attenuation
(RSCMA_ATTR_GENERATOR_ILS_RF_EXTERNAL_ATTENUATION)
Generator ILS RF Frequency Pairment
(RSCMA_ATTR_GENERATOR_ILS_RF_FREQUENCY_PAIRMENT)
Generator ILS Localizer RF Frequency (RSCMA_ATTR_GENERATOR_ILS_LOC_RF_FREQUENCY)
Generator ILS Localizer RF Level (RSCMA_ATTR_GENERATOR_ILS_LOC_RF_LEVEL)

Generator ILS Localizer RF Output Enabled
(RSCMA_ATTR_GENERATOR_ILS_LOC_RF_OUTPUT_ENABLED)
Generator ILS RF Output Connector
(RSCMA_ATTR_GENERATOR_ILS_RF_OUTPUT_CONNECTOR)
Generator ILS Localizer AF Enabled (RSCMA_ATTR_GENERATOR_ILS_LOC_AF_ENABLED)
Generator ILS Localizer AF SDM (RSCMA_ATTR_GENERATOR_ILS_LOC_AF_SDM)
Generator ILS Localizer AF DDM (RSCMA_ATTR_GENERATOR_ILS_LOC_AF_DDM)
Generator ILS Localizer AF Fly (RSCMA_ATTR_GENERATOR_ILS_LOC_AF_FLY)
Generator ILS Localizer AF Frequency Left
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_LEFT)
Generator ILS Localizer AF Frequency Modulation Depth Left
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_MODULATION_DEPTH_LEFT)
Generator ILS Localizer AF Frequency Right
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_RIGHT)
Generator ILS Localizer AF Frequency Modulation Depth Right
(RSCMA_ATTR_GENERATOR_ILS_LOCALIZER_AF_FREQUENCY_MODULATION_DEPTH_RIGHT)
Generator ILS Localizer AF Phase Offset
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_PHASE_OFFSET)
Generator ILS Localizer AF Output Enabled
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_OUTPUT_ENABLED)
Generator ILS Localizer AF Output Connector
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_OUTPUT_CONNECTOR)
Generator ILS Localizer AF Output Level
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_OUTPUT_LEVEL)
Generator ILS Localizer AF ID Signal Enabled
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_ID_SIGNAL_ENABLED)
Generator ILS Localizer AF ID Signal Modulation Depth
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_ID_SIGNAL_MODULATION_DEPTH)
Generator ILS Localizer AF ID Signal Frequency
(RSCMA_ATTR_GENERATOR_ILS_LOC_AF_ID_SIGNAL_FREQUENCY)
Generator ILS Glide Slope RF Frequency
(RSCMA_ATTR_GENERATOR_ILS_GSL_RF_FREQUENCY)
Generator ILS Glide Slope RF Level (RSCMA_ATTR_GENERATOR_ILS_GSL_RF_LEVEL)
Generator ILS Glide Slope RF Output Enabled
(RSCMA_ATTR_GENERATOR_ILS_GSL_RF_OUTPUT_ENABLED)
Generator ILS Glide Slope AF Enabled (RSCMA_ATTR_GENERATOR_ILS_GSL_AF_ENABLED)
Generator ILS Glide Slope AF SDM (RSCMA_ATTR_GENERATOR_ILS_GSL_AF_SDM)
Generator ILS Glide Slope AF DDM (RSCMA_ATTR_GENERATOR_ILS_GSL_AF_DDM)
Generator ILS Glide Slope AF Fly (RSCMA_ATTR_GENERATOR_ILS_GSL_AF_FLY)
Generator ILS Glide Slope AF Frequency Upper
(RSCMA_ATTR_GENERATOR_ILS_GLIDE_SLOPE_AF_FREQUENCY_UPPER)
Generator ILS Glide Slope AF Frequency Modulation Depth Upper
(RSCMA_ATTR_GENERATOR_ILS_GLIDE_SLOPE_AF_FREQUENCY_MODULATION_DEPTH_UPPER)
Generator ILS Glide Slope AF Frequency Lower
(RSCMA_ATTR_GENERATOR_ILS_GLIDE_SLOPE_AF_FREQUENCY_LOWER)
Generator ILS Glide Slope AF Frequency Modulation Depth Lower
(RSCMA_ATTR_GENERATOR_ILS_GLIDE_SLOPE_AF_FREQUENCY_MODULATION_DEPTH_LOWER)
Generator ILS Glide Slope AF Phase Offset
(RSCMA_ATTR_GENERATOR_ILS_GSL_AF_PHASE_OFFSET)
Generator ILS Glide Slope AF Output Enabled
(RSCMA_ATTR_GENERATOR_ILS_GSL_AF_OUTPUT_ENABLED)
Generator ILS Glide Slope AF Output Connector
(RSCMA_ATTR_GENERATOR_ILS_GSL_AF_OUTPUT_CONNECTOR)
Generator ILS Glide Slope AF Output Level
(RSCMA_ATTR_GENERATOR_ILS_GSL_AF_OUTPUT_LEVEL)
Generator Marker Beacon Enabled (RSCMA_ATTR_GENERATOR_MARKER_BEACON_ENABLED)
Generator Marker Beacon Signal State (RSCMA_ATTR_GENERATOR_MBE_SIGNAL_STATE)
Generator Marker Beacon RF Output Enabled
(RSCMA_ATTR_GENERATOR_MBE_RF_OUTPUT_ENABLED)

Generator Marker Beacon RF Output Connector
(RSCMA_ATTR_GENERATOR_MBE_RF_OUTPUT_CONNECTOR)
Generator Marker Beacon RF Frequency (RSCMA_ATTR_GENERATOR_MBE_RF_FREQUENCY)
Generator Marker Beacon RF Level (RSCMA_ATTR_GENERATOR_MBE_RF_LEVEL)
Generator Marker Beacon RF External Attenuation
(RSCMA_ATTR_GENERATOR_MBE_RF_EXTERNAL_ATTENUATION)
Generator Marker Beacon AF Enabled (RSCMA_ATTR_GENERATOR_MBE_AF_ENABLED)
Generator Marker Beacon AF Modulation Depth
(RSCMA_ATTR_GENERATOR_MBE_AF_MODULATION_DEPTH)
Generator Marker Beacon AF Frequency (RSCMA_ATTR_GENERATOR_MBE_AF_FREQUENCY)
Generator Marker Beacon AF Output Enabled
(RSCMA_ATTR_GENERATOR_MBE_AF_OUTPUT_ENABLED)
Generator Marker Beacon AF Output Connector
(RSCMA_ATTR_GENERATOR_MBE_AF_OUTPUT_CONNECTOR)
Generator Marker Beacon AF Output Level
(RSCMA_ATTR_GENERATOR_MBE_AF_OUTPUT_LEVEL)
Generator Marker Beacon ID Signal Enabled
(RSCMA_ATTR_GENERATOR_MBE_ID_SIGNAL_ENABLED)
Generator Marker Beacon ID Signal Modulation Depth
(RSCMA_ATTR_GENERATOR_MBE_ID_SIGNAL_MODULATION_DEPTH)
Generator Marker Beacon ID Signal Frequency
(RSCMA_ATTR_GENERATOR_MBE_ID_SIGNAL_FREQUENCY)
Analyzer AF Spectrum State (RSCMA_ATTR_ANALYZER_AF_SPECTRUM_STATE)
Analyzer Oscilloscope State (RSCMA_ATTR_ANALYZER_OSCILLOSCOPE_STATE)
Analyzer Demodulation Trigger Enabled
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_ENABLED)
Analyzer Demodulation Trigger Repetition
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_REPETITION)
Analyzer Demodulation Trigger FM Threshold
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_FM_THRESHOLD)
Analyzer Demodulation Trigger PM Threshold
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_PM_THRESHOLD)
Analyzer Demodulation Trigger AM Threshold
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_AM_THRESHOLD)
Analyzer Demodulation Trigger SSB Threshold
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_SSB_THRESHOLD)
Analyzer Demodulation Trigger Slope
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_SLOPE)
Analyzer Demodulation Trigger Offset
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_OFFSET)
Analyzer Demodulation Trigger Coupling
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_COUPLING)
Analyzer Demodulation Trigger State
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_STATE)
Analyzer Demodulation Trigger X Division
(RSCMA_ATTR_ANALYZER_DEMODULATION_TRIGGER_XDIVISION)
Analyzer AF Trigger Enabled (RSCMA_ATTR_ANALYZER_AF_TRIGGER_ENABLED)
Analyzer AF Trigger Repetition (RSCMA_ATTR_ANALYZER_AF_TRIGGER_REPETITION)
Analyzer AF Trigger Threshold (RSCMA_ATTR_ANALYZER_AF_TRIGGER_THRESHOLD)
Analyzer AF Trigger Slope (RSCMA_ATTR_ANALYZER_AF_TRIGGER_SLOPE)
Analyzer AF Trigger Offset (RSCMA_ATTR_ANALYZER_AF_TRIGGER_OFFSET)
Analyzer AF Trigger Coupling (RSCMA_ATTR_ANALYZER_AF_TRIGGER_COUPLING)
Analyzer AF Trigger State (RSCMA_ATTR_ANALYZER_AF_TRIGGER_STATE)
Analyzer AF Trigger X Division (RSCMA_ATTR_ANALYZER_AF_TRIGGER_XDIVISION)
Analyzer SPDIF Trigger Enabled (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_ENABLED)
Analyzer SPDIF Trigger Repetition (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_REPETITION)
Analyzer SPDIF Trigger Threshold (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_THRESHOLD)
Analyzer SPDIF Trigger Slope (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_SLOPE)
Analyzer SPDIF Trigger Offset (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_OFFSET)
Analyzer SPDIF Trigger Coupling (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_COUPLING)
Analyzer SPDIF Trigger State (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_STATE)
Analyzer SPDIF Trigger X Division (RSCMA_ATTR_ANALYZER_SPDIF_TRIGGER_XDIVISION)

Analyzer Demodulation Tone Mode (RSCMA_ATTR_ANALYZER_DEMODULATION_TONE_MODE)
Analyzer Left SPDIF Tone Mode (RSCMA_ATTR_ANALYZER_LEFT_SPDIF_TONE_MODE)
Analyzer Right SPDIF Tone Mode (RSCMA_ATTR_ANALYZER_RIGHT_SPDIF_TONE_MODE)
Analyzer AF Input Tone Mode (RSCMA_ATTR_ANALYZER_AF_INPUT_TONE_MODE)
Analyzer DTMF Tones Sequence Length
(RSCMA_ATTR_ANALYZER_DTMF_TONES_SEQUENCE_LENGTH)
Analyzer DTMF Tones Configuration From Generator
(RSCMA_ATTR_ANALYZER_DTMF_TONES_CONFIGURATION_FROM_GENERATOR)
Analyzer Free Dialing Tones Type (RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_TYPE)
Analyzer Free Dialing Tones Sequence Length
(RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_SEQUENCE_LENGTH)
Analyzer Free Dialing Tones Configuration From Generator
(RSCMA_ATTR_ANALYZER_FREE_DIALING_TONES_CONFIGURATION_FROM_GENERATOR)
Analyzer Sel Call Tones Standard (RSCMA_ATTR_ANALYZER_SEL_CALL_TONES_STANDARD)
Analyzer DCS Tones Expected Code Word
(RSCMA_ATTR_ANALYZER_DCS_TONES_EXPECTED_CODE_WORD)
Analyzer DCS Tones Inverted Modulation
(RSCMA_ATTR_ANALYZER_DCS_TONES_INVERTED_MODULATION)
Analyzer Main State (RSCMA_ATTR_ANALYZER_MAIN_STATE)
Spectrum Analyzer Detector (RSCMA_ATTR_SPECTRUM_ANALYZER_DETECTOR)
Spectrum Analyzer Trigger Source Catalog
(RSCMA_ATTR_SPECTRUM_ANALYZER_TRIGGER_SOURCE_CATALOG)
Spectrum Analyzer All Markers Enabled
(RSCMA_ATTR_SPECTRUM_ANALYZER_ALL_MARKERS_ENABLED)
Spectrum Analyzer Marker Placement
(RSCMA_ATTR_SPECTRUM_ANALYZER_MARKER_PLACEMENT)
Spectrum Analyzer Marker Zero Span Placement
(RSCMA_ATTR_SPECTRUM_ANALYZER_MARKER_ZERO_SPAN_PLACEMENT)
NRTZ Repetition Mode (RSCMA_ATTR_NRTZ_REPETITION_MODE)
NRTZ Statistic Count (RSCMA_ATTR_NRTZ_STATISTIC_COUNT)
NRTZ PEP Hold Time (RSCMA_ATTR_NRTZ_PEP_HOLD_TIME)
NRTZ Direction (RSCMA_ATTR_NRTZ_DIRECTION)
NRTZ Frequency (RSCMA_ATTR_NRTZ_FREQUENCY)
NRTZ Resolution (RSCMA_ATTR_NRTZ_RESOLUTION)
NRTZ Bandwidth (RSCMA_ATTR_NRTZ_BANDWIDTH)
NRTZ Attenuation Enabled (RSCMA_ATTR_NRTZ_ATTENUATION_ENABLED)
NRTZ Attenuation (RSCMA_ATTR_NRTZ_ATTENUATION)
NRTZ CCDF Threshold (RSCMA_ATTR_NRTZ_CCDF_THRESHOLD)
NRTZ Forward Power Result (RSCMA_ATTR_NRTZ_FORWARD_POWER_RESULT)
NRTZ Reverse Power Result (RSCMA_ATTR_NRTZ_REVERSE_POWER_RESULT)
Start NRTZ Zeroing (RSCMA_ATTR_START_NRTZ_ZEROING)
NRTZ Init (RSCMA_ATTR_NRTZ_INIT)
NRTZ Abort (RSCMA_ATTR_NRTZ_ABORT)
NRTZ Stop (RSCMA_ATTR_NRTZ_STOP)
NRTZ Identification (RSCMA_ATTR_NRTZ_IDENTIFICATION)
Power Measurement Trigger Source Catalog
(RSCMA_ATTR_POWER_MEASUREMENT_TRIGGER_SOURCE_CATALOG)
FFT Trigger Source Catalog (RSCMA_ATTR_FFT_TRIGGER_SOURCE_CATALOG)
IQ Recorder Timeout (RSCMA_ATTR_IQ_RECORDER_TIMEOUT)
IQ Recorder Sample Ratio (RSCMA_ATTR_IQ_RECORDER_SAMPLE_RATIO)
IQ Recorder Max Sample Rate (RSCMA_ATTR_IQ_RECORDER_MAX_SAMPLE_RATE)
IQ Recorder Magnitude Unit (RSCMA_ATTR_IQ_RECORDER_MAGNITUDE_UNIT)
IQ Recorder Filter Type (RSCMA_ATTR_IQ_RECORDER_FILTER_TYPE)
IQ Recorder Bandpass Filter Bandwidth
(RSCMA_ATTR_IQ_RECORDER_BANDPASS_FILTER_BANDWIDTH)
IQ Recorder Gauss Filter Bandwidth
(RSCMA_ATTR_IQ_RECORDER_GAUSS_FILTER_BANDWIDTH)
IQ Recorder Result File (RSCMA_ATTR_IQ_RECORDER_RESULT_FILE)
IQ Recorder Result File Format (RSCMA_ATTR_IQ_RECORDER_RESULT_FILE_FORMAT)
IQ Recorder Trigger Source (RSCMA_ATTR_IQ_RECORDER_TRIGGER_SOURCE)
IQ Recorder Trigger Source Catalog
(RSCMA_ATTR_IQ_RECORDER_TRIGGER_SOURCE_CATALOG)

IQ Recorder Trigger Slope (RSCMA_ATTR_IQ_RECORDER_TRIGGER_SLOPE)
IQ Recorder Trigger Threshold (RSCMA_ATTR_IQ_RECORDER_TRIGGER_THRESHOLD)
IQ Recorder Trigger Offset (RSCMA_ATTR_IQ_RECORDER_TRIGGER_OFFSET)
IQ Recorder Trigger Timeout (RSCMA_ATTR_IQ_RECORDER_TRIGGER_TIMEOUT)
IQ Recorder Trigger Min Gap (RSCMA_ATTR_IQ_RECORDER_TRIGGER_MIN_GAP)
IQ Recorder Init (RSCMA_ATTR_IQ_RECORDER_INIT)
IQ Recorder Abort (RSCMA_ATTR_IQ_RECORDER_ABORT)
IQ Recorder Stop (RSCMA_ATTR_IQ_RECORDER_STOP)
RF Audible Warning (RSCMA_ATTR_RF_AUDIBLE_WARNING)
CMA Source (RSCMA_ATTR_CMA_SOURCE)
CMA Sound Volume Enabled (RSCMA_ATTR_CMA_SOUND_VOLUME_ENABLED)
CMA Sound Volume (RSCMA_ATTR_CMA_SOUND_VOLUME)
Speaker Enabled (RSCMA_ATTR_SPEAKER_ENABLED)
System Sound Volume Enabled (RSCMA_ATTR_SYSTEM_SOUND_VOLUME_ENABLED)
System Sound Volume (RSCMA_ATTR_SYSTEM_SOUND_VOLUME)
Global Display Enabled (RSCMA_ATTR_GLOBAL_DISPLAY_ENABLED)
Modified attributes:
Generator RF Level (RSCMA_ATTR_GENERATOR_RF_LEVEL) - Range table removed
Generator RF Mode (RSCMA_ATTR_GENERATOR_RF_MODE) - Removed
RSCMA_VAL_GENMODE_TRA, Tracking
ARB Frequency Offset (RSCMA_ATTR_ARB_FREQUENCY_OFFSET) - New range, from -10.0e6 to 10.0e6 Hz
ARB File Samples (RSCMA_ATTR_ARB_FILE_SAMPLES) - Changed data type.
AF Internal Generator Enabled (RSCMA_ATTR_AF_INTERNAL_GENERATOR_ENABLED) - Changed to Read Only
AF Input Maximum Level (RSCMA_ATTR_AF_INPUT_MAXIMUM_LEVEL) - Range set to 0.01 mV to 30.0 V
AF Output Level (RSCMA_ATTR_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V
Analyzer RF Connector (RSCMA_ATTR_ANALYZER_RF_CONNECTOR) - Command in range table corrected
Analyzer RF Frequency (RSCMA_ATTR_ANALYZER_RF_FREQUENCY) - SCPI command fixed
Analyzer RF Expected Power (RSCMA_ATTR_ANALYZER_RF_EXPECTED_POWER) - SCPI command fixed
Analyzer RF External Attenuation (RSCMA_ATTR_ANALYZER_RF_EXTERNAL_ATTENUATION) - SCPI command fixed
Analyzer AF Input Maximum Level (RSCMA_ATTR_ANALYZER_AF_INPUT_MAXIMUM_LEVEL) - Added range 10E-6 V to 30 V
Analyzer AF Output Level (RSCMA_ATTR_ANALYZER_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V
Analyzer AF Output Source (RSCMA_ATTR_ANALYZER_AF_OUTPUT_SOURCE) - Changed to Read Only, command updated
RF Expected Nominal Power (RSCMA_ATTR_RF_EXPECTED_NOMINAL_POWER) - Default value changed
Spectrum Analyzer Frequency Center (RSCMA_ATTR_SPECTRUM_ANALYZER_FREQUENCY_CENTER) - Range table removed
Spectrum Analyzer Tracking Generator Calibrate (RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_CALIBRATE) - Fixed command
Power Measurement Step Length (RSCMA_ATTR_POWER_MEASUREMENT_STEP_LENGTH) - Default value changed
Power Measurement Measurement Length (RSCMA_ATTR_POWER_MEASUREMENT_MEASUREMENT_LENGTH) - Default value changed
Power Measurement Gauss Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_GAUSS_BANDWIDTH) - Range changed
Power Measurement Bandpass Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_BANDPASS_BANDWIDTH) - Range changed
Power Measurement Trigger Slope (RSCMA_ATTR_POWER_MEASUREMENT_TRIGGER_SLOPE) - Command changed.
Power Measurement Trigger Gap (RSCMA_ATTR_POWER_MEASUREMENT_TRIGGER_GAP) - Command changed.
Reference Frequency Internal Range (RSCMA_ATTR_REFERENCE_FREQUENCY_INTERNAL_RANGE) - New value in range table

Reference Frequency External Range

(RSCMA_ATTR_REFERENCE_FREQUENCY_EXTERNAL_RANGE) - New value in range table

Reference Frequency Adjustment Value

(RSCMA_ATTR_REFERENCE_FREQUENCY_ADJUSTMENT_VALUE) - Maximum value in range table changed

* Modified Range Tables:

rngLowpassFilter - RSCMA_ATTR_GENERATOR_LOWPASS_FILTER,

RSCMA_ATTR_ANALYZER_DEMODULATION_LOWPASS_FILTER,

RSCMA_ATTR_ANALYZER_AF_LOWPASS_FILTER

New items: RSCMA_VAL_LOWPASS_F255, RSCMA_VAL_LOWPASS_F3K4

rngGeneratorActiveTone - RSCMA_ATTR_GENERATOR_TONES_ACTIVE_TONE

New items: RSCMA_VAL_TONES_ACTIVE_DCS

rngIntExt - RSCMA_ATTR_REFERENCE_FREQUENCY_SOURCE

New items: RSCMA_VAL_INV

RsCma_rngGeneratorPreemphasisFilter - RSCMA_ATTR_GENERATOR_PREEMPHASIS_FILTER

New items: RSCMA_VAL_PREEMPHASIS_T750

RsCma_rngAFInternalGeneratorToneMode -

RSCMA_ATTR_AF_INTERNAL_GENERATOR_TONE_MODE

New items: RSCMA_VAL_TONE_MODE_DTMF, RSCMA_VAL_TONE_MODE_SELCL,

RSCMA_VAL_TONE_MODE_FDI, RSCMA_VAL_TONE_MODE_SQU

2.9 Version 1.0.300 / 06 – 2015

* Support for CMA version 1.0.30

* Modified VIs:

Fetch Power Measurement.vi, Read Power Measurement.vi - changed API, result selection is done using single control

Configure Analyzer AF Input.vi

Configure Generator Channel Definition.vi

Configure Analyzer Channel Definition.vi

CMA now sends 10 digits if sending floating-point number, modifications to Initialize.vi, Read To File

From Instrument.vi, Write File To Instrument.vi, _Default Instrument Setup.vi

Configure Generator ARB File.vi - changed API, reliability indicator added

* New VIs:

Configure Analyzer Demodulation Filter Distortion Width.vi

Configure Analyzer AF Input Filters Distortion Width.vi

Configure Analyzer SPDIF Input Filters Distortion Width.vi

ACP subsystem

* Removed VIs:

Fetch Spectrum Analyzer Reference Marker.vi

* New attributes:

Spectrum Analyzer Tracking Generator Calibration State

(RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_CALIBRATION_STATE)

ACP Timeout (RSCMA_ATTR_ACP_TIMEOUT)

ACP Repetition (RSCMA_ATTR_ACP_REPETITION)

ACP Statistic Count (RSCMA_ATTR_ACP_STATISTIC_COUNT)

ACP Measure On Exception (RSCMA_ATTR_ACP_MEASURE_ON_EXCEPTION)

ACP Channel Space (RSCMA_ATTR_ACP_CHANNEL_SPACE)

ACP Offset (RSCMA_ATTR_ACP_OFFSET)

ACP Measurement Bandwidth (RSCMA_ATTR_ACP_MEASUREMENT_BANDWIDTH)

ACP OBW Percentage (RSCMA_ATTR_ACP_OBW_PERCENTAGE)

ACP OBW Enabled (RSCMA_ATTR_ACP_OBW_ENABLED)

ACP OBW Upper Limit (RSCMA_ATTR_ACP_OBW_UPPER_LIMIT)

ACP Init (RSCMA_ATTR_ACPT_INIT)

ACP Abort (RSCMA_ATTR_ACP_ABORT)
 ACP Stop (RSCMA_ATTR_ACP_STOP)
 AF Impedance Box Enabled (RSCMA_ATTR_AF_IMPEDANCE_BOX_ENABLED)
 AF Impedance Box Impedance (RSCMA_ATTR_AF_IMPEDANCE_BOX_IMPEDANCE)
 Modified attributes:
 Generator RF Mode (RSCMA_ATTR_GENERATOR_RF_MODE) - Removed
 RSCMA_VAL_GENMODE_TRA, Tracking
 ARB Frequency Offset (RSCMA_ATTR_ARB_FREQUENCY_OFFSET) - New range, from -10.0e6 to 10.0e6 Hz
 ARB File Samples (RSCMA_ATTR_ARB_FILE_SAMPLES) - Changed data type.
 AF Internal Generator Enabled (RSCMA_ATTR_AF_INTERNAL_GENERATOR_ENABLED) - Changed to Read Only
 AF Input Maximum Level (RSCMA_ATTR_AF_INPUT_MAXIMUM_LEVEL) - Range set to 0.01 mV to 30.0 V
 AF Output Level (RSCMA_ATTR_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V
 Analyzer RF Connector (RSCMA_ATTR_ANALYZER_RF_CONNECTOR) - Command in range table corrected
 Analyzer RF Frequency (RSCMA_ATTR_ANALYZER_RF_FREQUENCY) - SCPI command fixed
 Analyzer RF Expected Power (RSCMA_ATTR_ANALYZER_RF_EXPECTED_POWER) - SCPI command fixed
 Analyzer RF External Attenuation (RSCMA_ATTR_ANALYZER_RF_EXTERNAL_ATTENUATION) - SCPI command fixed
 Analyzer AF Input Maximum Level (RSCMA_ATTR_ANALYZER_AF_INPUT_MAXIMUM_LEVEL) - Added range 10E-6 V to 30 V
 Analyzer AF Output Level (RSCMA_ATTR_ANALYZER_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V
 Analyzer AF Output Source (RSCMA_ATTR_ANALYZER_AF_OUTPUT_SOURCE) - Changed to Read Only, command updated
 RF Expected Nominal Power (RSCMA_ATTR_RF_EXPECTED_NOMINAL_POWER) - Default value changed
 Spectrum Analyzer Tracking Generator Calibrate (RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_CALIBRATE) - Fixed command
 Power Measurement Step Length (RSCMA_ATTR_POWER_MEASUREMENT_STEP_LENGTH) - Default value changed
 Power Measurement Measurement Length (RSCMA_ATTR_POWER_MEASUREMENT_MEASUREMENT_LENGTH) - Default value changed
 Power Measurement Gauss Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_GAUSS_BANDWIDTH) - Range changed
 Power Measurement Bandpass Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_BANDPASS_BANDWIDTH) - Range changed
 Reference Frequency Internal Range (RSCMA_ATTR_REFERENCE_FREQUENCY_INTERNAL_RANGE) - New value in range table
 Reference Frequency External Range (RSCMA_ATTR_REFERENCE_FREQUENCY_EXTERNAL_RANGE) - New value in range table
 Reference Frequency Adjustment Value (RSCMA_ATTR_REFERENCE_FREQUENCY_ADJUSTMENT_VALUE) - Maximum value in range table changed

2.10 Version 1.0.200 / 03 – 2015

* Support for CMA version 1.0.20

* Reliability control help updated

* New VIs:

Configure Generator ARB Marker Delays.vi

Query Generator ARB Trigger Source Catalog.vi

Configure Generator AF Internal Generator Tone Mode.vi

Configure Generator AF Modulation State.vi

Configure Generator AF Output State.vi
Configure Generator AF SPDIF Output State.vi
Configure Generator AF Multitone.vi
Configure Generator AF Multitone Frequencies.vi
Configure Generator AF Multitone Enable Individual Tone.vi
Configure Generator AF Multitone Tone List.vi
Configure Analyzer RF Signal State.vi
Configure Analyzer AF Output.vi
Configure Analyzer AF SPDIF Output.vi
Query Analyzer AF SPDIF Output Source.vi
Configure Analyzer Demodulation Filter Distortion Frequency.vi
Configure Analyzer RF Demodulation PM Limits.vi
Query Analyzer RF Carrier Limit Check Results.vi
Query Analyzer Demodulation Limit Check Results.vi
Query Analyzer Signal Quality Limit Check Results.vi
Fetch Spectrum Analyzer Reference Marker.vi
Configure Audio Source.vi
Reliability Indicator.vi
Configure Generator Preemphasis Filter.vi

* New attributes:

AF Internal Generator Tone Mode (RSCMA_ATTR_AF_INTERNAL_GENERATOR_TONE_MODE)
AF Output Enabled (RSCMA_ATTR_AF_OUTPUT_ENABLED)
Generator Preemphasis Filter (RSCMA_ATTR_GENERATOR_PREEMPHASIS_FILTER)
Generator AF Multitone Enable All (RSCMA_ATTR_GENERATOR_AF_MULTITONE_ENABLE_ALL)
Generator AF Multitone Level (RSCMA_ATTR_GENERATOR_AF_MULTITONE_LEVEL)
Generator AF Multitone Crest Factor
(RSCMA_ATTR_GENERATOR_AF_MULTITONE_CREAST_FACTOR)
Generator AF Multitone Total Level (RSCMA_ATTR_GENERATOR_AF_MULTITONE_TOTAL_LEVEL)
Generator AF Multitone Enable Tone
(RSCMA_ATTR_GENERATOR_AF_MULTITONE_ENABLE_TONE)
Analyzer RF Signal Enabled (RSCMA_ATTR_ANALYZER_RF_SIGNAL_ENABLED)
Analyzer AF Output Enabled (RSCMA_ATTR_ANALYZER_AF_OUTPUT_ENABLE)
Analyzer Demodulation Enable Filters For Demodulation Results
(RSCMA_ANALYZER_DEMODULATION_RESULTS_FILTERS_ENABLE)
RF Connector (RSCMA_ATTR_RF_CONNECTOR)
RF Coupling (RSCMA_ATTR_RF_COUPLING)
Spectrum Analyzer Tracking Generator Mode
(RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_MODE)
Spectrum Analyzer Tracking Generator Calibrate
(RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_CALIBRATE)
Spectrum Analyzer Tracking Generator Normalize
(RSCMA_ATTR_SPECTRUM_ANALYZER_TRACKING_GENERATOR_NORMALIZE)
Control Connector TTL2 Update (RSCMA_ATTR_CONTROL_CONNECTOR_TTL2_UPDATE)
Audio Source (RSCMA_ATTR_AUDIO_SOURCE)
Reference Frequency Locked (RSCMA_ATTR_REFERENCE_FREQUENCY_LOCKED)

Modified VIs:

Configure Generator ARB Characteristics.vi - range changed at parameter 'Frequency Offset'
Configure Generator AF Internal Generator.vi - parameter 'State' no longer used
Configure Generator AF Input.vi - parameter 'State' no longer used, Maximum Level has new rane
0.01V to 30.0V
Configure Generator AF Output.vi - range changed at parameter 'Level'
Configure Analyzer Demodulation Filters.vi - Distortion Frequency parameters moved into a new VI
Configure Analyzer AF Input Filters.vi - FP control fixed at parameter 'Highpass Filter'
Read Analyzer Demodulation Results.vi - Phase Deviation added, Array Size updated, Results help
updated
Fetch Analyzer Demodulation Results.vi - Phase Deviation added, Array Size updated, Results help
updated
Read Analyzer Signal Quality Results.vi - Array Size updated, Results help updated
Fetch Analyzer Signal Quality Results.vi - Array Size updated, Results help updated
Configure Analyzer FM Pilot Limits.vi - default value at parameter 'Deviation Upper' fixed
Configure Analyzer FM RDS Limits.vi - default value and range at parameter 'Upper' fixed

Configure Analyzer RF Carrier Limits.vi - ranges changed at parameters 'Frequency Error ...' and 'Power ...'

Read Analyzer FFT Results.vi - added new Input Types and Result Types values, Array Size updated

Fetch Analyzer FFT Results.vi - added new Input Types and Result Types values, Array Size updated

Find Analyzer RF Signal.vi - help updated

Configure Power Measurement Filter.vi - range changed at parameter 'Bandwidth'

Configure Power Measurement Statistics.vi - default values changed at parameters 'Measurement Length' and 'Step Length'

Configure Power Measurement RF Settings.vi - default value changed at parameter 'Expected Nominal Power', parameters 'Frequency Offset', 'User Margin', 'Mixer Level Offset' no longer used

Configure Reference Frequency Adjustment.vi - range changed at parameter 'Value'

Configure Reference Frequency.vi - new value at parameter 'Lock In Range'

Configure FFT Spectrum RF Settings.vi - parameters 'Frequency Offset', 'User Margin', 'Mixer Level Offset' no longer used

Query Common Reliability.vi - control help updated

Set Analyzer Frequency As Reference Frequency.vi - SCPI command in help fixed

Configure Control Connector Pins States.vi - range and default value changed at parameter 'Index'

Query Generator ARB Number Of Samples.vi - changed data type to DBL

Modified attributes:

ARB Frequency Offset (RSCMA_ATTR_ARB_FREQUENCY_OFFSET) - New range, from -10.0e6 to 10.0e6 Hz

AF Internal Generator Enabled (RSCMA_ATTR_AF_INTERNAL_GENERATOR_ENABLED) - Changed to Read Only

AF Output Level (RSCMA_ATTR_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V

Analyzer RF Connector (RSCMA_ATTR_ANALYZER_RF_CONNECTOR) - Command in range table corrected

Analyzer RF Frequency (RSCMA_ATTR_ANALYZER_RF_FREQUENCY) - SCPI command fixed

Analyzer RF Expected Power (RSCMA_ATTR_ANALYZER_RF_EXPECTED_POWER) - SCPI command fixed

Analyzer RF External Attenuation (RSCMA_ATTR_ANALYZER_RF_EXTERNAL_ATTENUATION) - SCPI command fixed

Analyzer AF Output Level (RSCMA_ATTR_ANALYZER_AF_OUTPUT_LEVEL) - New range, from 10.0e-6 to 5.0 V

Analyzer AF Output Source (RSCMA_ATTR_ANALYZER_AF_OUTPUT_SOURCE) - Changed to Read Only, command updated

RF Expected Nominal Power (RSCMA_ATTR_RF_EXPECTED_NOMINAL_POWER) - Default value changed

Power Measurement Step Length (RSCMA_ATTR_POWER_MEASUREMENT_STEP_LENGTH) - Default value changed

Power Measurement Measurement Length (RSCMA_ATTR_POWER_MEASUREMENT_MEASUREMENT_LENGTH) - Default value changed

Power Measurement Gauss Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_GAUSS_BANDWIDTH) - Range changed

Power Measurement Bandpass Bandwidth (RSCMA_ATTR_POWER_MEASUREMENT_BANDPASS_BANDWIDTH) - Range changed

Reference Frequency Internal Range (RSCMA_ATTR_REFERENCE_FREQUENCY_INTERNAL_RANGE) - New value in range table

Reference Frequency External Range (RSCMA_ATTR_REFERENCE_FREQUENCY_EXTERNAL_RANGE) - New value in range table

Reference Frequency Adjustment Value (RSCMA_ATTR_REFERENCE_FREQUENCY_ADJUSTMENT_VALUE) - Maximum value in range table changed

AF Input Maximum Level (RSCMA_ATTR_AF_INPUT_MAXIMUM_LEVEL) - Added range 10E-6 V to 30 V

Analyzer AF Input Maximum Level (RSCMA_ATTR_ANALYZER_AF_INPUT_MAXIMUM_LEVEL) - Added range 10E-6 V to 30 V

ARB File Samples (RSCMA_ATTR_ARB_FILE_SAMPLES) - changed data type

Spectrum Analyzer Zero Span Gauss RB

(RSCMA_ATTR_SPECTRUM_ANALYZER_ZERO_SPAN_GAUSS_RBW) - Minimum value changed to 100

Spectrum Analyzer Frequency Sweep RBW
(RSCMA_ATTR_SPECTRUM_ANALYZER_FREQUENCY_SWEEP_RBW) - Minimum value changed to 100

* Removed VIs:
Configure Generator AF SPDIF Input.vi

* Deleted attributes:
AF Input Enabled (RSCMA_ATTR_AF_INPUT_ENABLED)
RF Frequency Offset (RSCMA_ATTR_RF_FREQUENCY_OFFSET)
RF User Margin (RSCMA_ATTR_RF_USER_MARGIN)
RF Mixer Level Offset (RSCMA_ATTR_RF_MIXER_LEVEL_OFFSET)
2015-02-12 Miloslav Macko
Version 1.0.2, small adjustments for the CMA firmware 1.0.20

* Updated:
RSCMA_ATTR_ID_QUERY_RESPONSE - bug fixed
Configure Analyzer RF Connector.vi - fixed missing "RF IN" ring value
Configure Analyzer Demodulation Filters.vi - fixed missing "Highpass filter" ring values; Added CONF:AFRF:MEAS:DEM:FILT:DFR %.;%lf,%lf direct write; Added AF Analyzer\Filters\Demodulation\Analyzer Demodulation Results Filters Enable
RSCMA_ANALYZER_DEMODULATION_RESULTS_FILTERS_ENABLE
CONFigure:AFRF:MEAS:DEModulation:FILTer:ENABle
Configure Power Measurement Statistics.vi - swapped the order of "Set Power Measurement Step Length ()" and "Set Power Measurement Measurement Length ()"
Configure Generator AF Internal Generator.vi -
RSCMA_ATTR_AF_INTERNAL_GENERATOR_ENABLED is only readable, setting is done with the new attribute RSCMA_ATTR_AF_OUTPUT_ENABLE
Configure Generator AF Output.vi - Set AF Output Source () ExVI can only has the following values: GEN1 | GEN2 | AF11 | AF12 | SPIL | SPIR; Added Generator\AF Settings\Output\AF Output Enable
RSCMA_ATTR_AF_OUTPUT_ENABLE SOURce:AFRF:GEN:AOUT:ENABle
The range rscma_rngAFOutputLevel changed to 10E-6 V .. 5 V

2.11 Version 1.0.2 / 01 – 2015

* Updated:
RSCMA_ATTR_ID_QUERY_RESPONSE - bug fixed

2.12 Version 1.0.1 / 10 – 2014

* Updated:
RSCMA_ATTR_ARB_FILE_CLOCK_RATE - data type changed from Int32 to Real64
RSCMA_ATTR_ID_QUERY_RESPONSE - bug fixed

2.13 Version 1.0.1 / 05 – 2014

* Initial release

3 Installation of the LabVIEW driver

Before you start the installer, close your LabVIEW application.

3.1 Installation on a Windows machine

The driver is distributed as WinZip self-extracting executable file. Installer supported operation systems: Win7, Win8, Win10.

Preconditions:

- LabVIEW 2015 or newer installed
- Any VISA installed – R&S VISA 5.12.3 or newer / NI VISA 18.0 or newer

When you start the driver WinZip installer, it performs the following steps:

1. Unpacking of the driver's **instr.lib** and **user.lib** directories content as well as the **Installer.vi** into a temporary folder: `C:\temp\rscma-1v2015-4.0.100`
The driver is compiled in LabVIEW 2015 64-bit. From there you can copy it to another location or run the **Installer.vi** manually later. The content of the temporary folder is not deleted after the installation is finished. Starting the same installation again will overwrite all the data in that temporary folder.
2. After unpacking, the **Installer.vi** automatically starts in the **last opened version of LabVIEW**. In case you have more than one version of LabVIEW installed on your machine, make sure that the last opened LabVIEW version is the one in which you want to install the driver. If that is not the case, cancel the installation, open and close your desired LabVIEW version and run the installer again. You can have the driver installed parallel for more LabVIEW versions by repeating the installation process for each desired version.
3. On the installer options page you can change the location of the **instr.lib** part of the driver. **user.lib** part must be placed in the default location, otherwise the Express VI configuration will not properly function.
Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
4. If you have an older `rsidr_toolbox`, the installer updates it to the last version.
5. The LabVIEW is closed and after starting it again, the driver is ready for use.

3.2 Installation on a non-Windows machine

In case you would like to install the driver on a non-Windows machine, use a Windows machine to start the driver's WinZip self-extracting executable file. **This machine does not need to have LabVIEW installed.**

After the **Step 1** (see the chapter 2.1), copy the content of the temporary folder to your target machine and start the **Installer.vi** manually.

From that point onwards, the installation process is the same as described in Steps 2, 3, 4 and 5.

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:

