

LabVIEW Driver History for the R&S®CMW Wideband Radio Communication Tester

Products:

| R&S®CMW500



| R&S®CMW270



| R&S®CMW100



Driver history for LabVIEW

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1 Installation of the LabVIEW driver

Before you start the installer, please close your LabVIEW application.

1.1 Installation on a Windows machine

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

Preconditions:

- LabVIEW 2015 or newer installed
- Any VISA installed – R&S VISA 5.12.4 or newer / NI VISA 5.16 or newer

When you start the driver WinZip installer, the following steps are being performed:

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\rscmwXXX-lv-x.x.x**
The driver is compiled in LabVIEW 2015 64-bit. From there you can copy 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 the data in this temporary folder.
2. After unpacking, the **Installer.vi** is automatically started 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 use the driver. If that's not the case, cancel the installation at this point, 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 have a choice to uncheck the **Mass-compiling** option (**not recommended, because of the driver's performance penalty as well as VIs opening times**) and also 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 function.
On this page you also see the actual LabVIEW version.
Hitting **Next** button will first delete the old driver (if it existed), copy the new driver and mass-compile it.
4. The LabVIEW is closed and after starting it again the driver is ready for use.

1.2 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 doesn't need to have LabVIEW installed.**

After the **Step 1** from the previous chapter is finished, 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 the previous chapter Steps 2, 3, and 4.

2 RScmw - Base unit (3.7.400)

rscmw Base driver		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
3.7.400	05/2019	* Update for firmware 3.7.40 * Added functions: - rscmw Query CMWS Device ID.vi - rscmw Deactivate All Attenuation Correction Tables.vi - rscmw Deactivate CMWS AllAttenuation Correction Tables.vi - rscmw Configure Screenshot Area.vi - rscmw Reset Device.vi
3.7.100	12/2017	* Update for firmware 3.7.10 * Updated: - rscmw Configure Subinstruments.vi - rscmw Initiate User Trigger.vi - rscmw Initialize.vi, rscmw Initialize with Options.vi, rscmw Close.vi and Utility VIs have new VI icons

rscmw Base driver		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
3.5.1000	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New: <ul style="list-style-type: none"> - rscmw Query Internal Temperature.vi - rscmw Assign Resources To Subinstruments.vi - rscmw Configure Multiple Window Mode.vi - rscmw Configure Device Group.vi - rscmw Configure Screenshot Format.vi - rscmw Clear Status.vi - rscmw Process All Previous Commands.vi - rscmw Query OPC.vi - rscmw Get Max Number Of Subinstruments.vi - rscmw Create Macro.vi - rscmw Start Macro Recording.vi - rscmw Stop Macro Recording.vi - rscmw Delete Macro.vi - rscmw Delete All Macros.vi - rscmw Save Macro.vi - rscmw Load Macro.vi - rscmw Query Macro.vi - rscmw Query Macro Labels.vi - rscmw Configure Remote Trace.vi - rscmw Configure Remote Trace File.vi - rscmw Configure Remote Trace Filter.vi - rscmw Configure Remote Trace Start Stop Mode.vi - rscmw Write Command With OPC Sync.vi - rscmw Query With OPC Sync.vi - rscmw Write Command.vi - rscmw Configure Error Checking.vi - rscmw Reliability Indicator.vi * Updates and fixes: <ul style="list-style-type: none"> - rscmw Query Option List.vi - rscmw Query Subnet Node Info.vi - rscmw File Directory Path Count.vi - rscmw File Directory Path.vi - rscmw Read File Attributes.vi
3.2.701	04/2016	<p>New installer type – self-extracting WinZip package.</p> <p>Fixed memory leak apparent when driver is used in bad pattern scenario with many inits/closes during program life cycle</p>

rscmw Base driver		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
3.2.700	02/2015	<ul style="list-style-type: none"> * Update for CMW firmware version 3.2.70 * Added SCPI command searcher * Added VIs/attributes: <ul style="list-style-type: none"> - rscmw Configure Monitor Display State.vi - rscmw Configure Tree Navigation Mode.vi - rscmw Configure Startup Behavior.vi - rscmw Query Calibration Date Time.vi - rscmw Query RF Correction File.vi - rscmw Query Network Adapter.vi - rscmw Query Attenuation Correction Table Existence.vi - rscmw Save Screenshot To File.vi * Updates and fixes: <ul style="list-style-type: none"> - rscmw Query Common Reliability.vi - rscmw Configure Signaling Message Monitoring.vi - rscmw Configure Subnet Node.vi - rscmw Get Attenuation Correction Table.vi
3.0.120	08/2012	<p>Update for CMW firmware version 3.0.10</p> <ul style="list-style-type: none"> * Added VIs/attributes: <ul style="list-style-type: none"> - rscmw All Generators Off.vi - rscmw All Measurements Off.vi - rscmw All Signaling Applications Off.vi - rscmw Query Option Version Info.vi - rscmw Configure Signaling Message Monitoring.vi - rscmw Configure Fan Control.vi - rscmw Clear SCPI Remote Trace Display.vi - rscmw Configure Base Trigger Slope.vi - rscmw Initiate User Trigger.vi - rscmw Configure Subnet Node.vi - rscmw Query Subnet Node Info.vi - rscmw Configure Network Adapter.vi - rscmw Query Subnet Monitor.vi - rscmw Refresh Subnet Monitor.vi - rscmw Configure CMWS Attenuation Correction Table Direction.vi - rscmw Configure CMWS GPRF Generator Single RF Connector.vi - rscmw Configure CMWS GPRF Generator Individual RF Connector.vi - rscmw Get Attenuation Correction Tables Count.vi - rscmw Get CMWS Attenuation Correction Table.vi - rscmw Data Set Application Operations.vi - rscmw reset Application.vi - rscmw Preset Application.vi * Updates and fixes: <ul style="list-style-type: none"> - RSCMW_ATTR_GET_RESOURCE_STRING - added new resources as repeated capabilities - rscmw Configure Attenuation Correction Table.vi - new operations added - rscmw Configure Attenuation Correction Table Direction.vi - updated API - rscmw Get Attenuation Correction Table.vi - updated API - rscmw Get Aliases.vi - help fix

rscmw Base driver		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
2.1.100	08/2011	<p>Release for CMW firmware version 2.1.20</p> <p>* Added features:</p> <ul style="list-style-type: none"> - Calibration subsystem - Buffer subsystem - Timer subsystem <p>* Added functions/attributes:</p> <ul style="list-style-type: none"> - rscmw Configure Synchronization Mode.vi - rscmw Query Option List.vi - rscmw Query Common Reliability.vi - rscmw Query Connector Relation.vi - rscmw Configure Report Display.vi - rscmw Get Subinstruments Info.vi - rscmw Query Device ID.vi - rscmw Query Base Trigger Source Catalog.vi - rscmw Query All Calibrations.vi - rscmw Query Latest Calibration.vi - rscmw Buffer Operations.vi - rscmw Fetch Buffer.vi - rscmw Fetch Buffer Lines.vi - rscmw Set Timestamp.vi - rscmw Query Timestamp.vi - rscmw Start Timer.vi - rscmw Get Current Drive.vi - rscmw Data Set File Operations.vi - rscmw Set File Attributes.vi - rscmw Read File Attributes.vi - rscmw Get Aliases.vi <p>* Updates and fixes:</p> <ul style="list-style-type: none"> - Updated rscmw Configure Attenuation Correction Table - valid values added (help) - Updated rscmw Configure Attenuation Correction Table Direction - Connector values added - Updated rscmw File Manager Operations - attribute <p>RSCMW_ATTR_FILE_MANAGER_CHANGE_DRIVE added</p>
1.0.50	03/2009	<p>Supports Firmware Version: 1.0.6</p> <p>* Added features:</p> <ul style="list-style-type: none"> - Status subsystem - Frequency-Dependent Attenuation Settings - Base Trigger - Address Settings subsystem - Display Settings subsystem - Device Settings subsystem <p>* Added functions/attributes:</p> <ul style="list-style-type: none"> - rscmw Get Reference Frequency State.vi - rscmw error code query.vi <p>* Updates and fixes:</p> <ul style="list-style-type: none"> - Updated rscmw Configure Reference Oscillator.vi - Updated rscmw Lock Controls.vi - Updated file (MMEMory) subsystem - Updated rscmw Error List.vi - Updated rscmw Preset.vi - new preset ways <p>* Fixed rsidr_core - see rsidr_core.c for list of changes</p>

rscmw Base driver		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
1.0.40	09/2009	Modifications: - New rsidr_core version - fixed Rs_SpecificDriverNew - Fixed rscmw_RsClose function
1.0	10/2007	Initial revision

3 RScmwAM - Audio Measurement (3.7.200)

rscmwam driver for Audio Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.200	04/2018	Update for CMW firmware version 3.7.20 Added: Recording Playback Modified: rscmwam Activate Audio Scenario.vi
3.7.100	03/2018	Update for CMW firmware version 3.7.10 rscmwam Initialize.vi, rscmwam Initialize with Options.vi, rscmwam Close.vi and Utility VIs have new VI icons Added: rscmwam Query Single Tone Analog Measurement Limits Check Results.vi rscmwam Query Single Tone Digital Measurement Limits Check Results.vi rscmwam Clear Speech Event Log.vi Modified: rscmwam Configure Single Tone Analog Measurement Limits.vi - added new parameters rscmwam Activate Audio Scenario.vi rscmwam Read Single Tone Analog Measurement Limits.vi rscmwam Fetch Single Tone Analog Measurement Limits.vi
3.5.300	03/2017	Update for CMW firmware version 3.5.30 Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging All VISA resource name inputs are mandatory Changed Palette Icons Cleaned up all the Front Panels Added: rscmwam Activate Audio Scenario.vi rscmwam Configure Speech Analysis Filter.vi rscmwam Configure Error Checking.vi Modified: rscmwam Close.vi - removed >L Deleted:
3.5.200	11/2016	Update for CMW firmware version 3.5.20 Added: rscmwam Configure Clock Drift.vi rscmwam Query Event Log All Entries.vi rscmwam Query Event Log Last Entry.vi rscmwam Clear Status.vi rscmwam ID Query Response.vi rscmwam Process All Previous Commands.vi rscmwam Query OPC.vi rscmwam Bin Data From File To Instrument.vi rscmwam Bin Data To File From Instrument.vi rscmwam Read To File From Instrument.vi rscmwam Write From File To Instrument.vi

rscmwam driver for Audio Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.5.100	03/2015	Update for CMW firmware version 3.5.10 Added: rscmwam Configure Audio Measurement and Generator.vi rscmwam Configure External Analog Speech Analysis.vi rscmwam Configure External Digital Speech Analysis.vi rscmwam Configure Microphone and Speaker Test.vi rscmwam Query Possible Master Strings.vi
3.2.300	11/2014	Update for firmware version 3.2.30 Express VI version 2.0.0 Revision changed according to CVI driver
3.2.200	06/2014	Update for CMW firmware version 3.2.20 Added: rscmwam Configure Single Tone Measurement Filter Window Function.vi rscmwam Configure Single Tone Spectrum State.vi rscmwam Configure Speech Analysis Control.vi
3.2.100	06/2013	- Initial version

4 RScmwBTM - Bluetooth Measurement (4.0.200)

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
4.0.200	07/2022	<ul style="list-style-type: none"> * Update for firmware version 4.0.20 * New core 7.3.0 * New: <ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Measurement List Segment CTE Settings.vi - rscmwbtm Fetch Multi Eval List Segment Modulation Average Extended.vi - rscmwbtm Fetch Multi Eval List Segment Modulation Maximum Extended.vi - rscmwbtm Fetch Multi Eval List Segment Extreme Modulation.vi - rscmwbtm Fetch Multi Eval List Segment Extreme Modulation Extended.vi * Updated: <ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Measurement List Segment Setup.vi - Packet Type and Payload Length updated - rscmwbtm Configure Multi Eval Measurement List Segment Extended Setup.vi - Packet Type and Payload Length updated - rscmwbtm Configure Input Signal Access Address LE.vi - Access Address data type changed from ViInt32 to ViInt64
3.8.200	01/2021	<ul style="list-style-type: none"> * Update for firmware version 3.8.20 * New core 6.72.0 * Reworked all the VI Front Panels to Silver-style * New: <ul style="list-style-type: none"> - PER Measurement - rscmwbtm Configure Input Signal Stable Modulation Index.vi - rscmwbtm Configure Input Signal Low Energy DTM.vi - rscmwbtm Configure Input Signal External Attenuation.vi - rscmwbtm Refresh DUT Devices.vi - rscmwbtm Configure DUT HW Interface.vi - rscmwbtm Reset EUT.vi - rscmwbtm Query EUT Result.vi - rscmwbtm Configure EUT Communication Protocol.vi - rscmwbtm Configure DUT RS232.vi - rscmwbtm Query DUT COM Ports Catalog.vi - rscmwbtm Clean Event Log.vi - rscmwbtm Query Event Log All Entries.vi - rscmwbtm Query Event Log Last Entry.vi
3.7.900	06/2020	<ul style="list-style-type: none"> * Update for firmware version 3.7.90 * New core 6.60.0 * New: <ul style="list-style-type: none"> - Configure Input Signal Low Energy CTE Antenna Settings.vi - Configure Multi Eval Limits EDR Differential Phase Encoding.vi - Read Multi Eval EDR Phase Encoding Combined Signal.vi - Fetch Multi Eval EDR Phase Encoding Combined Signal.vi - Query Multi Eval EDR Phase Encoding Combined Signal.vi - Query Multi Eval PDEV Trace Limit Check Results.vi

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		* Updated: - Configure Input Signal Low Energy CTE Settings.vi - add items AOA1, AOA2 - Fetch Multi Eval Detected Low Energy LR Packet Type.vi - add Advertiser - Fetch Multi Eval Detected Low Energy 2M Packet Type.vi - add Advertiser - Fetch Multi Eval Detected Low Energy CTE Type.vi - add AOA1 - Fetch Multi Eval Detected Low Energy 2M CTE Type.vi - add AOA1 - Read Multi Eval Spectrum ACP Results.vi - update command - Fetch Multi Eval Spectrum ACP Results.vi - update command - Query Multi Eval Spectrum ACP Limit Check Results.vi - update command
3.7.800	08/2019	* Update for firmware version 3.7.80 * New VIs/attributes: - RSCMWBTM_ATTR_TRX_MEASUREMENT_ABORT - RSCMWBTM_ATTR_TRX_MEASUREMENT_INIT - RSCMWBTM_ATTR_TRX_MEASUREMENT_STOP - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_CTE_SLOT_TYPE - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_2M_CTE_SLOT_TYPE - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_CTE_UNITS - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_2M_CTE_UNITS - RSCMWBTM_ATTR_INPUT_SIGNAL_LE2M_PACKET_TYPE - RSCMWBTM_ATTR_CONFIGURE_RF_MEASUREMENT_MODE_LE - rscmwbtm Query Multi Eval Low Energy CTE Limit Check Results.vi - rscmwbtm Query Multi Eval Low Energy CTE Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Low Energy CTE Standard Deviation Results.vi - rscmwbtm Query Multi Eval Low Energy CTE Limit Check Results.vi - rscmwbtm Fetch Multi Eval Low Energy CTE Results.vi - rscmwbtm Read Multi Eval Low Energy CTE Results.vi - rscmwbtm Query Multi Eval Low Energy 2M CTE Limit Check Results.vi - rscmwbtm Query Multi Eval Low Energy 2M CTE Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Low Energy 2M CTE Standard Deviation Results.vi - rscmwbtm Read Multi Eval Low Energy 2M CTE Standard Deviation Results.vi - rscmwbtm Fetch Multi Eval Low Energy 2M CTE Results.vi - rscmwbtm Read Multi Eval Low Energy 2M CTE Results.vi - rscmwbtm Query Multi Eval Normal Mode LE 2M Limit Check Results.vi - rscmwbtm Fetch Multi Eval Normal Mode LE 2M Results.vi - rscmwbtm Read Multi Eval Normal Mode LE 2M Results.vi - rscmwbtm Query Multi Eval Normal Mode LE 2M Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Normal Mode LE 2M Standard Deviation Results.vi - rscmwbtm Read Multi Eval Normal Mode LE 2M Standard Deviation Results.vi - rscmwbtm Query Multi Eval Normal Mode LE LR Limit Check Results.vi - rscmwbtm Fetch Multi Eval Normal Mode LE LR Results.vi - rscmwbtm Read Multi Eval Normal Mode LE LR Results.vi - rscmwbtm Query Multi Eval Normal Mode LE LR Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Normal Mode LE LR Standard Deviation Results.vi - rscmwbtm Read Multi Eval Normal Mode LE LR Standard Deviation Results.vi - rscmwbtm Query Multi Eval PVT Normal Mode LE 2M Limit Check Results.vi - rscmwbtm Fetch Multi Eval PVT Normal Mode LE 2M Results.vi - rscmwbtm Read Multi Eval PVT Normal Mode LE 2M Results.vi - rscmwbtm Query Multi Eval PVT Normal Mode LE LR Limit Check Results.vi - rscmwbtm Fetch Multi Eval PVT Normal Mode LE LR Results.vi - rscmwbtm Read Multi Eval PVT Normal Mode LE LR Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Normal Mode LE 2M Limit Check Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Normal Mode LE 2M Results.vi

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwbtm Read Multi Eval Spectrum ACP Normal Mode LE 2M Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Normal Mode LE LR Limit Check Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Normal Mode LE LR Results.vi - rscmwbtm Read Multi Eval Spectrum ACP Normal Mode LE LR Results.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE Frequency Drift.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE 2M Frequency Drift.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE Frequency Offset.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE 2M Frequency Offset.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE Power Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy CTE 2M Power Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy Frequency 2 Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Frequency 2 Deviation.vi - rscmwbtm Configure TRX Measurement Results.vi - rscmwbtm Fetch Multi Eval Detected Low Energy CTE Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy CTE Units.vi - rscmwbtm Fetch Multi Eval Detected Low Energy 2M CTE Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy 2M CTE Units.vi - rscmwbtm Fetch Multi Eval PDEV Trace.vi - rscmwbtm Fetch Multi Eval SPower Trace.vi - rscmwbtm Read Multi Eval SPower Trace.vi - rscmwbtm Fetch TRX Measurement Spectrum ACP.vi - rscmwbtm Fetch TRX Measurement Current Modulation.vi - rscmwbtm Fetch TRX Measurement Power.vi - rscmwbtm Fetch TRX Measurement Spot Check.vi - rscmwbtm Query TRX Measurement Status.vi <p>* Updated VIs/attributes:</p> <ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Measurement Assign Views All.vi - rscmwbtm Fetch Multi Eval Detected Low Energy LR Packet Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy 2M Packet Type.vi - rscmwbtm Query Multi Eval Normal Mode LE Limit Check Results.vi - rscmwbtm Read Multi Eval Normal Mode LE Standard Deviation Results.vi - rscmwbtm Fetch Multi Eval Normal Mode LE Standard Deviation Results.vi - rscmwbtm Query Multi Eval Normal Mode LE Standard Deviation Limit Check Results.vi - rscmwbtm Read Multi Eval PVT Normal Mode LE Results.vi - rscmwbtm Fetch Multi Eval PVT Normal Mode LE Results.vi - rscmwbtm Query Multi Eval PVT Normal Mode LE Limit Check Results.vi - rscmwbtm Fetch RX Quality Detected Advertiser Address.vi - rscmwbtm Fetch RX Quality Sensitivity.vi - rscmwbtm Fetch RX Quality Spot Check.vi - rscmwbtm Fetch RX Quality State.vi - rscmwbtm Fetch RX Quality State List.vi - rscmwbtm Query Multi Eval Spectrum ACP Normal Mode LE Limit Check Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Normal Mode Limit Check Results.vi
3.7.600	06/2019	<p>* Update for firmware version 3.7.60</p> <p>* New core 3.5.0</p> <p>* New VI's / Attributes:</p> <ul style="list-style-type: none"> - RSCMWBTM_ATTR_CONFIGURE_RF_CHANNEL_TO_MEASURE_LE - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_CODING_SCHEME - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_PHYSICAL_LAYER - RSCMWBTM_ATTR_RXQ_ADVERTISER_CHANNEL - RSCMWBTM_ATTR_RXQ_EXTERNAL_ATTENUATION - RSCMWBTM_ATTR_RXQ_ARB_PROCESSING_ENABLED

rscmwbtm driver for Bluetooth Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWBTM_ATTR_RXQ_MEASUREMENT_MODE - RSCMWBTM_ATTR_RXQ_PER_TX_LEVEL - RSCMWBTM_ATTR_RXQ_PER_PACKETS_TO_SEND - RSCMWBTM_ATTR_RXQ_SCANNER_ADDRESS - RSCMWBTM_ATTR_RXQ_SCANNER_ADDRESS_TYPE - RSCMWBTM_ATTR_RXQ_SENSITIVITY_RETRY_COUNT - RSCMWBTM_ATTR_RXQ_SENSITIVITY_START_LEVEL - RSCMWBTM_ATTR_RXQ_SENSITIVITY_STEP_SIZE - RSCMWBTM_ATTR_RXQ_SPOT_CHECK_TX_LEVEL - RSCMWBTM_ATTR_QUERY_RXQ_STATE - rscmwbtm Configure MEval Meas List Segment Extended Setup.vi - rscmwbtm Configure MEval Limits Low Energy LR Frequency Drift.vi - rscmwbtm Read MEval Meas Low Energy Coded Standard Deviation Results.vi - rscmwbtm Fetch MEval Meas Low Energy Coded Standard Deviation Results.vi - rscmwbtm Query MEval Meas Low Energy Coded Standard Deviation Limit Check Results.vi - rscmwbtm Read MEval Meas Normal Mode Results.vi - rscmwbtm Fetch MEval Meas Normal Mode Results.vi - rscmwbtm Query MEval Meas Normal Mode Limit Check Results.vi - rscmwbtm Read MEval Meas Normal Mode Standard Deviation Results.vi - rscmwbtm Fetch MEval Meas Normal Mode Standard Deviation Results.vi - rscmwbtm Query MEval Meas Normal Mode Standard Deviation Limit Check Results.vi - rscmwbtm Read MEval Meas Normal Mode LE Results.vi - rscmwbtm Fetch MEval Meas Normal Mode LE Results.vi - rscmwbtm Query MEval Meas Normal Mode LE Limit Check Results.vi - rscmwbtm Read MEval Meas Normal Mode LE Standard Deviation Results.vi - rscmwbtm Fetch MEval Meas Normal Mode LE Standard Deviation Results.vi - rscmwbtm Query MEval Meas Normal Mode LE Standard Deviation Limit Check Results.vi - rscmwbtm Read MEval Meas PVT Normal Mode Results.vi - rscmwbtm Fetch MEval Meas PVT Normal Mode Results.vi - rscmwbtm Query MEval Meas PVT Normal Mode Limit Check Results.vi - rscmwbtm Read MEval Meas PVT Normal Mode LE Results.vi - rscmwbtm Fetch MEval Meas PVT Normal Mode LE Results.vi - rscmwbtm Query MEval Meas PVT Low Energy LE Limit Check Results.vi - rscmwbtm Read MEval Meas Spectrum ACP Normal Mode Results.vi - rscmwbtm Fetch MEval Meas Spectrum ACP Normal Mode Results.vi - rscmwbtm Query MEval Meas Spectrum ACP Normal Mode Limit Check Results.vi - rscmwbtm Read MEval Meas Spectrum ACP Normal Mode LE Results.vi - rscmwbtm Fetch MEval Meas Spectrum ACP Normal Mode LE Results.vi - rscmwbtm Query MEval Meas Spectrum ACP Normal Mode LE Limit Check Results.vi - rscmwbtm Read MEval Meas Spectrum ACP Trace Results.vi - rscmwbtm Fetch MEval Meas Spectrum ACP Trace Results.vi - rscmwbtm Read MEval Meas Spectrum Gated ACP Trace Results.vi - rscmwbtm Fetch MEval Meas Spectrum Gated ACP Trace Results.vi - rscmwbtm Read MEval Meas Spectrum OBW Trace Results.vi - rscmwbtm Fetch MEval Meas Spectrum OBW Trace Results.vi - rscmwbtm Fetch MEval Meas List Segment Modulation Extended.vi - rscmwbtm Fetch MEval Meas List Segment Modulation Standard Deviation Extended.vi - rscmwbtm Fetch RX Quality Detected Advertiser Address.vi - rscmwbtm Fetch RX Quality PER.vi - rscmwbtm Fetch RX Quality PER Packets Received.vi - rscmwbtm Fetch RX Quality Sensitivity.vi - rscmwbtm Fetch RX Quality Spot Check.vi - rscmwbtm Fetch RX Quality State.vi

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwbtm Fetch RX Quality State List.vi - rscmwbtm Configure RX Quality Signal Route.vi - rscmwbtm Configure RX Quality Signal Route Usage.vi * Updated functions/attributes: <ul style="list-style-type: none"> - RSCMWBTM_ATTR_INPUT_SIGNAL_LE_PACKET_TYPE: Added DATA packet type. - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_PACKET_TYPE: Added ADVERTISER packet type. - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_PATTERN: Added ALL1 pattern. - rscmwbtm Configure Input Signal Low Energy Settings.vi: Removed ALT pattern. - rscmwbtm Configure Input Signal Low Energy 2M Settings.vi: Removed ALT pattern. - rscmwbtm Configure MEval Meas List Segment Setup.vi: Added ADVERTISER packet type and ALL1 pattern. - rscmwbtm Configure MEval Meas List.vi: Added ADVERTISER packet type and ALL1 pattern. - rscmwbtm Configure MEval Limits Basic Modulation Ratio.vi: Updated range. - rscmwbtm Configure MEval Limits Low Energy Frequency Drift.vi: Updated default value. - rscmwbtm Configure MEval Limits Low Energy Modulation Ratio.vi: Updated range. - rscmwbtm Configure MEval Limits Low Energy 2M Frequency Drift.vi: Updated default value. - rscmwbtm Configure MEval Limits Low Energy 2M Modulation Ratio.vi: Updated range. - rscmwbtm Read MEval Meas Basic Rate Results.vi: Added XMAX, XMIN commands. - rscmwbtm Fetch MEval Meas Basic Rate Results.vi: Added XMAX, XMIN commands. - rscmwbtm Query MEval Meas Basic Rate Limit Check Results.vi: Added XMAX, XMIN commands. - rscmwbtm Read MEval Meas Low Energy Results.vi: Added XMAX, XMIN commands. - rscmwbtm Fetch MEval Meas Low Energy Results.vi: Added XMAX, XMIN commands. - rscmwbtm Query MEval Meas Low Energy Limit Check Results.vi: Added XMAX, XMIN commands. - rscmwbtm Read MEval Meas Low Energy LR Results.vi: Added XMAX, XMIN commands. - rscmwbtm Fetch MEval Meas Low Energy LR Results.vi: Added XMAX, XMIN commands. - rscmwbtm Query MEval Meas Low Energy LR Limit Check Results.vi: Added XMAX, XMIN commands. - rscmwbtm Read MEval Meas Low Energy 2M Results.vi: Added XMAX, XMIN commands. - rscmwbtm Fetch MEval Meas Low Energy 2M Results.vi: Added XMAX, XMIN commands. - rscmwbtm Query MEval Meas Low Energy 2M Limit Check Results.vi: Added XMAX, XMIN commands. - rscmwbtm Fetch Multi Eval Detected Low Energy Packet Type.vi: Added DATA packet type. - rscmwbtm Fetch Multi Eval Detected Low Energy LR Packet Type.vi: Added DATA packet type. - rscmwbtm Fetch Multi Eval Detected Low Energy 2M Packet Type.vi: Added DATA packet type.
3.7.100	12/2017	<ul style="list-style-type: none"> * Update for firmware version 3.7.10 * Updated: <ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Limits EDR Power Vs Time.vi - rscmwbtm Initialize.vi, rscmwbtm Initialize with Options.vi, rscmwbtm Close.vi and Utility VIs have new VI icons
3.5.700	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.70 * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New: <ul style="list-style-type: none"> - rscmwbtm Configure Input Signal PHY LE.vi - rscmwbtm Configure Input Signal LE LR Coding Scheme.vi - rscmwbtm Configure Input Signal Access Address LE.vi - rscmwbtm Configure Input Signal Low Energy LR Settings.vi - rscmwbtm Configure Input Signal Low Energy 2M Settings.vi - rscmwbtm Configure Input Signal Low Energy 2M Off Slots Count.vi

rscmwbtm driver for Bluetooth Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Limits Low Energy LR 99.9 Percent.vi - rscmwbtm Configure Multi Eval Limits Low Energy LR Frequency Offset.vi - rscmwbtm Configure Multi Eval Limits Low Energy LR Frequency Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy LR Power vs Time.vi - rscmwbtm Configure Multi Eval Limits Low Energy LR Spectrum ACP.vi - rscmwbtm Configure Multi Eval Limits Low Energy LR Frequency Acc.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M 99.9 Percent.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Frequency Offset.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Frequency Drift.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Frequency Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Modulation Ratio.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Power vs Time.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Spectrum ACP.vi - rscmwbtm Configure Multi Eval Limits Low Energy 2M Frequency Acc.vi - rscmwbtm Read Multi Eval Low Energy LR Results.vi - rscmwbtm Fetch Multi Eval Low Energy LR Results.vi - rscmwbtm Query Multi Eval Low Energy Limit Check LR Results.vi - rscmwbtm Read Multi Eval Low Energy LR Standard Deviation Results.vi - rscmwbtm Fetch Multi Eval Low Energy LR Standard Deviation Results.vi - rscmwbtm Query Multi Eval Low Energy LR Standard Deviation Limit Check Results.vi - rscmwbtm Read Multi Eval Low Energy 2M Results.vi - rscmwbtm Fetch Multi Eval Low Energy 2M Results.vi - rscmwbtm Query Multi Eval Low Energy Limit Check 2M Results.vi - rscmwbtm Read Multi Eval Low Energy 2M Standard Deviation Results.vi - rscmwbtm Fetch Multi Eval Low Energy 2M Standard Deviation Results.vi - rscmwbtm Query Multi Eval Low Energy 2M Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Detected Low Energy LR Packet Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy 2M Packet Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy LR Pattern Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy 2M Pattern Type.vi - rscmwbtm Fetch Multi Eval Detected Pattern Low Energy 2M Yield.vi - rscmwbtm Fetch Multi Eval Detected Coding.vi - rscmwbtm Read Multi Eval PVT Low Energy LR Results.vi - rscmwbtm Fetch Multi Eval PVT Low Energy LR Results.vi - rscmwbtm Query Multi Eval PVT Low Energy LR Limit Check Results.vi - rscmwbtm Read Multi Eval PVT Low Energy 2M Results.vi - rscmwbtm Fetch Multi Eval PVT Low Energy 2M Results.vi - rscmwbtm Query Multi Eval PVT Low Energy 2M Limit Check Results.vi - rscmwbtm Read Multi Eval Spectrum ACP Low Energy LR Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Low Energy LR Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Low Energy LR Limit Check Results.vi - rscmwbtm Read Multi Eval Spectrum ACP Low Energy 2M Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Low Energy 2M Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Low Energy 2M Limit Check Results.vi - rscmwbtm Configure Error Checking.vi - rscmwbtm Write Command With OPC Sync.vi - rscmwbtm Query With OPC Sync.vi - rscmwbtm Write Command.vi * Modified: <ul style="list-style-type: none"> - rscmwbtm Configure Multi Eval Measurement ACP Mode.vi - added LE2M - rscmwbtm Configure Multi Eval Measurement Filter Bandwidth.vi - added LE Long Range and LE2M - rscmwbtm Fetch Multi Eval Detected Low Energy Packet Type.vi - added support for ADVERTISING packet type

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		- rscmwbtm Close.vi - removed >L
3.5.500	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.500 * Added *OPC? after each command * New functions - rscmwbtm Configure Input Signal Auto Synchronize.vi - rscmwbtm Configure Input Signal Test Packet Synch Word.vi - rscmwbtm Bin Data From File To Instrument.vi - rscmwbtm Bin Data To File From Instrument.vi - rscmwbtm Clear Status.vi - rscmwbtm ID Query Response.vi - rscmwbtm Process All Previous Commands.vi - rscmwbtm Query OPC.vi
3.5.300	12/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.300 * New functions - rscmwbtm Configure Input Signal Low Energy Off Slots Count.vi - rscmwbtm Configure Multi Eval Measurement List CMWS Connector.vi * Updated functions - rscmwbtm Configure Multi Eval Measurement List Segment Setup.vi - rscmwbtm Configure Multi Eval Measurement List.vi - rscmwbtm Fetch Multi Eval Detected Pattern Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy Pattern Type.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.100 * Modified functions - rscmwbtm Configure Analyzer Stand Alone Scenario.vi - rscmwbtm Query Signal Routing.vi
3.2.701	02/2015	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * Added functions - rscmwbtm Read Multi Eval Spectrum ACP Low Energy Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Low Energy Results.vi - rscmwbtm Read Multi Eval PVT Low Energy Results.vi - rscmwbtm Fetch Multi Eval PVT Low Energy Results.vi * Modified functions - rscmwbtm Read Multi Eval Basic Rate Frequency Range.vi - reading with Get Measurement.vi - rscmwbtm Fetch Multi Eval Basic Rate Frequency Range.vi - reading with Get Measurement.vi * Obsolete functions - rscmwbtm Read Multi Eval Spectrum ACP Low Energy Limit Check Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Low Energy Limit Check Results.vi - rscmwbtm Read Multi Eval PVT Low Energy Limit Check Results.vi - rscmwbtm Fetch Multi Eval PVT Low Energy Limit Check Results.vi
3.2.700	11/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * Express VI version 1.50.1 * Modified functions - rscmwbtm Configure MEval Meas List Segment Setup.vi - rscmwbtm Configure MEval Meas List.vi - rscmwbtm Read MEval Meas PVT Basic Rate Results.vi - rscmwbtm Fetch MEval Meas PVT Basic Rate Results.vi - rscmwbtm Query MEval Meas PVT Basic Rate Limit Check Results.vi
3.2.500	06/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.500 * Added functions - rscmwbtm Configure Measurement Display.vi - rscmwbtm Configure Analyzer Combined Signal Path.vi - rscmwbtm Configure RF.vi - rscmwbtm Configure Multi Eval Measurement Frequency Range.vi

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - List measurement - rscmwbtm Configure Multi Eval Limits EDR Phase Encoding.vi - rscmwbtm Configure Multi Eval Limits Spectrum Frequency Range.vi - rscmwbtm Configure Multi Eval Limits Spectrum Frequency Accuracy.vi - rscmwbtm Configure Multi Eval Limits Low Energy Frequency Acc.vi - rscmwbtm Read Multi Eval Measurement Basic Rate Frequency Range.vi - rscmwbtm Fetch Multi Eval Measurement Basic Rate Frequency Range.vi - rscmwbtm Query Multi Eval Measurement Basic Rate Frequency Range.vi - rscmwbtm Read Multi Eval Measurement Basic Rate Trace Frequency Range Average.vi - rscmwbtm Fetch Multi Eval Measurement Basic Rate Trace Frequency Range Average.vi - rscmwbtm Read Multi Eval Measurement EDR Phase Encoding.vi - rscmwbtm Fetch Multi Eval Measurement EDR Phase Encoding.vi - rscmwbtm Query Multi Eval Measurement EDR Phase Encoding.vi * Modified functions - rscmwbtm Configure Analyzer Stand Alone Scenario.vi - rscmwbtm Configure Multi Eval Measurement Statistics Count.vi - rscmwbtm Configure Multi Eval Measurement Assign Views.vi - rscmwbtm Configure Multi Eval Measurement Trigger.vi - rscmwbtm Configure Multi Eval Limits Spectrum ACP.vi - rscmwbtm Read Multi Eval Measurement PVT Basic Rate Results.vi - rscmwbtm Fetch Multi Eval Measurement PVT Basic Rate Results.vi - rscmwbtm Query Multi Eval Measurement PVT Basic Rate Limit Check Results.vi - rscmwbtm Read Multi Eval Measurement PVT EDR Results.vi - rscmwbtm Fetch Multi Eval Measurement PVT EDR Results.vi - rscmwbtm Query Multi Eval Measurement PVT EDR Limit Check Results.vi
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.100 * Modified functions - rscmwbtm QuerySignalRouting.vi - RX3, RX4
3.0.120	04/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Version 3.0.120 * Added - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_PATTERN - RSCMWBTM_ATTR_INPUT_SIGNAL_LOW_ENERGY_PATTERN_LENGTH - rscmwbtm Configure Multi Eval Limits Packet Type Basic Frequency Drift.vi - rscmwbtm Configure Multi Eval Limits Basic Modulation Ratio.vi - rscmwbtm Configure Multi Eval Limits Low Energy99 Percent.vi - rscmwbtm Configure Multi Eval Limits Low Energy Frequency Offset.vi - rscmwbtm Configure Multi Eval Limits Low Energy Frequency Drift.vi - rscmwbtm Configure Multi Eval Limits Low Energy Frequency Deviation.vi - rscmwbtm Configure Multi Eval Limits Low Energy Modulation Ratio.vi - rscmwbtm Configure Multi Eval Limits Low Energy Power Vs Time.vi - rscmwbtm Configure Multi Eval Limits Low Energy Spectrum ACP.vi - rscmwbtm Read Multi Eval Low Energy Limit Check Results.vi - rscmwbtm Fetch Multi Eval Low Energy Limit Check Results.vi - rscmwbtm Query Multi Eval Low Energy Limit Check Results.vi - rscmwbtm Read Multi Eval Low Energy Standard Deviation Limit Check Results.vi - rscmwbtm Fetch Multi Eval Low Energy Standard Deviation Limit Check Results.vi - rscmwbtm Query Multi Eval Low Energy Standard Deviation Limit Check Results.vi - rscmwbtm FetchMulti Eval Detected Low Energy Packet Type.vi - rscmwbtm Fetch Multi Eval Detected Low Energy Pattern Type.vi - rscmwbtm Fetch Multi Eval Detected Pattern Low Energy Yield.vi - rscmwbtm Read Multi Eval PVT Low Energy Limit Check Results.vi - rscmwbtm Fetch Multi Eval PVT Low Energy Limit Check Results.vi

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwbtm Query Multi Eval PVT Low Energy Limit Check Results.vi - rscmwbtm Read Multi Eval Spectrum A C P Low Energy Limit Check Results.vi - rscmwbtm Fetch Multi Eval Spectrum ACP Low Energy Limit Check Results.vi - rscmwbtm Query Multi Eval Spectrum ACP Low Energy Limit Check Results.vi * Modified - rscmwbtm Query Signal Routing.vi - rscmwbtm Configure Input Signal Burst Type.vi - rscmwbtm Configure Multi Eval ACP Mode.vi - rscmwbtm Configure Multi Eval Measurement Filter Bandwidth.vi - rscmwbtm Configure Multi Eval Limits Spectrum OBW.vi - rscmwbtm Fetch Multi Eval Detected Payload Length.vi - rscmwbtm Query Multi Eval Spectrum Gated ACP Limit Check Results.vi - rscmwbtm Read Multi Eval Spectrum Gated ACP Results.vi - rscmwbtm Fetch Multi Eval Spectrum Gated ACP Results.vi - rscmwbtm Fetch Multi Eval Spectrum Gated ACP Trace.vi * Modified help - all Reliability help updated
2.1.101	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.100	07/2011	Release for CMW firmware version 2.1.10.xx * Added - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_20DB_STATISTIC_COUNT - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_ACP_STATISTIC_COUNT - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_GATED_ACP_STATISTIC_COUNT - rscmwbtm Configure Input Signal Detection Mode.vi RSCMWBTM_ATTR_INPUT_SIGNAL_DETECTION_MODE - rscmwbtm Configure Multi Eval Measurement ACPStatisticsCount.vi RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_ACP_STATISTIC_COUNT - rscmwbtm_Configure Multi Eval Measurement ACP Mode.vi RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_ACP_MODE_BR RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_ACP_MODE_EDR - rscmwbtm Configure Multi Eval Limits Spectrum Gated ACP.vi - rscmwbtm Fetch Multi Eval Detected Basic Rate Packet Type.vi - rscmwbtm Fetch Multi Eval Detected EDR Packet Type.vi - rscmwbtm Fetch Multi Eval Detected OffSlots Count.vi - rscmwbtm Fetch Multi Eval Detected Pattern Type.vi - rscmwbtm Fetch Multi Eval Detected Pattern Yield.vi - rscmwbtm Fetch Multi Eval Detected Payload Length.vi - rscmwbtm Read Multi Eval Measurement Spectrum Gated ACP Results.vi - rscmwbtm Fetch Multi Eval Measurement Spectrum Gated ACP Results.vi - rscmwbtm Query Multi Eval Measurement Spectrum Gated ACP Limit Check Results.vi - rscmwbtm Read Multi Eval Measurement Spectrum Gated ACP Trace.vi - rscmwbtm Fetch Multi Eval Measurement Spectrum Gated ACP Trace.vi * Modified functions - rscmwbtm Configure Input Signal EDR Burst Settings.vi - added Off Slots Count - rscmwbtm Configure Input Signal Basic Burst Settings.vi - added Off Slots Count - rscmwbtm Configure Multi Eval Measurement Statistics Count.vi - API changed, now configures all measurement type, added new settings - rscmwbtm Configure Multi Eval Measurement Assign Views.vi - added Spectrum Gated ACP view - rscmwbtm Configure Multi Eval Measurement Assign Views All.vi - added Spectrum Gated ACP view - rscmwbtm Read Multi Eval Measurement Basic Rate Results.vi - added Modulation Ratio

rscmwbtm driver for Bluetooth Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwbtm Fetch Multi Eval Measurement Basic Rate Results.vi - added Modulation Ratio - rscmwbtm Query Multi Eval Measurement Basic Rate Limit Check Results.vi - added Modulation Ratio - rscmwbtm Read Multi Eval Measurement Basic Rate Standard Deviation.vi - added Modulation Ratio - rscmwbtm Head Multi Eval Measurement Basic Rate Standard Deviation.vi - added Modulation Ratio - rscmwbtm Query Multi Eval Measurement Basic Rate Standard Deviation Limit Check Results.vi - added Modulation Ratio - rscmwbtm Read Multi Eval Measurement Spectrum ACP Results.vi - changed command, now returns all 79 Channels - rscmwbtm Fetch Multi Eval Measurement Spectrum ACP Results.vi - changed command, now returns all 79 Channels - rscmwbtm Query Multi Eval Measurement Spectrum ACP Limit Check Results.vi - changed command, now returns all 79 Channels - rscmwbtm Read Multi Eval Measurement Spectrum ACP Trace.vi - changed command, now returns all 79 Channels - rscmwbtm Fetch Multi Eval Measurement Spectrum ACP Trace.vi - changed command, now returns all 79 Channels
2.0.110	02/2011	<p>Release for CMW firmware version 2.0.10.xx</p> <p>* Added VIs/attributes</p> <ul style="list-style-type: none"> - rscmwbtm Query Signal Routing.vi - rscmwbtm Configure MEvalMeasTimeout.vi <p>* Modified functions</p> <ul style="list-style-type: none"> - rscmwbtm Configure Analyzer Stand Alone Scenario.vi - rscmwbtm Read Multi Eval Spectrum ACP Results.vi - changed command - rscmwbtm Fetch Multi Eval Spectrum ACP Results.vi - changed command - rscmwbtm Query Multi Eval Spectrum ACP LimitCheckResults.vi - changed command - rscmwbtm Read Multi Eval Spectrum ACP Trace.vi - changed command - rscmwbtm Fetch Multi Eval Spectrum ACP Trace.vi -changed command
1.0.150	02/2010	<p>Release for CMW firmware version 1.0.15</p> <p>Added features</p> <ul style="list-style-type: none"> - Power vs Time measurement - Differential Error Vector Magnitude measurement - Phase Difference measurement - Frequency Deviation measurement - IQ Constellation Error Measurement <p>Added VIs/attributes</p> <ul style="list-style-type: none"> - RSCMWBTM_ATTR_INPUT_SIGNAL_DEVICE_BD_ADDRESS - RSCMWBTM_ATTR_MULTI_EVAL_MEASUREMENT_PVT_STATISTIC_COUNT - rscmwbtm Configure Input Signal Bluetooth Device Address.vi - rscmwbtm Configure Multi Eval Measurement PVT Statistics Count.vi - rscmwbtm Configure Multi Eval Measurement Assign Views.vi - rscmwbtm Configure Multi Eval Measurement Assign Views All.vi - rscmwbtm Configure Multi Eval Limits Basic Power vs Time.vi - rscmwbtm Configure Multi Eval Limits EDR Power vs Time.vi <p>* Modified VIs</p> <ul style="list-style-type: none"> - rscmwbtmConfigure Multi Eval Measurement Statistics Count.vi
1.0.100	07/2009	<p>Release for CMW firmware version 1.0.10.1</p> <p>Initial revision</p>

5 RScmwBTS - Bluetooth Signaling (4.0.200)

rscmwbt driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
4.0.200	07/2022	Update for firmware version 4.0.20 New core 7.3.0 Modified: rscmwbt Configure Connection Packets Type eSCO.vi - Packets Type values updated rscmwbt Configure Connection Packets Type SCO.vi - Packets Type values updated rscmwbt Query Connection Signaling LE State.vi - State values updated
3.8.200	01/2021	* Update for firmware version 3.8.20 * New core 6.72.0 * Reworked all the VI Front Panels to Silver-style New: rscmwbt Configure EUT Ignore Power Control Capability.vi rscmwbt Configure EUT Tx Power Step Size.vi rscmwbt Configure EUT Power Control.vi rscmwbt Query EUT Power Control LE State.vi rscmwbt Refresh Connection Devices.vi rscmwbt Query Connection Signaling LE State.vi
3.7.900	07/2020	Update for firmware version 3.7.90 New core 6.60.0 New: rscmwbt Configure RF Rx Tx Channel Number.vi rscmwbt Query RF Frequency For Test Mode.vi rscmwbt Configure PHY LE Test Mode.vi rscmwbt Configure LELR Test Mode Coding.vi rscmwbt Configure Connection Packets Type eSCO.vi rscmwbt Configure Connection Packets Type SCO.vi rscmwbt Configure Connection Test Mode Available.vi rscmwbt Configure Connection Test Mode PIN.vi rscmwbt Configure Connection Test Mode Send Enable PIN.vi rscmwbt Configure Connection Wait For Checking Map.vi rscmwbt Configure RXQ Inter Burst Length.vi rscmwbt Configure RXQ Ignore Test End.vi rscmwbt Configure RXQ Dump IQ Pairs.vi rscmwbt Read RXQ Test Mode PER Values.vi rscmwbt Fetch RXQ Test Mode PER Values.vi rscmwbt Query RXQ Test Mode PER Limit Check Results.vi rscmwbt Read RXQ Test Mode LR PER Values.vi rscmwbt Fetch RXQ Test Mode LR PER Values.vi rscmwbt Query RXQ Test Mode LR PER Limit Check Results.vi rscmwbt Read RXQ 2M Test Mode PER Values.vi rscmwbt Fetch RXQ 2M Test Mode PER Values.vi rscmwbt Query RXQ 2M Test Mode PER Limit Check Results.vi rscmwbt Read RXQ Test Mode PER Values.vi rscmwbt Fetch RXQ Test Mode PER Values.vi rscmwbt Query RXQ Test Mode PER Limit Check Results.vi rscmwbt Read RXQ Test Mode LR PER Values.vi

rscmwbtn driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		<p>rscmwbtn Fetch RXQ Test Mode LR PER Values.vi rscmwbtn Query RXQ Test Mode LR PER Limit Check Results.vi rscmwbtn Read RXQ 2M Test Mode PER Values.vi rscmwbtn Fetch RXQ 2M Test Mode PER Values.vi rscmwbtn Query RXQ 2M Test Mode PER Limit Check Results.vi rscmwbtn Configure RXQ IQ Coherency Measure On Exception.vi rscmwbtn Configure RXQ IQ Dynamic Range Measure On Exception.vi rscmwbtn Configure RXQ IQ Dynamic Range Antenna Mean Amplitude Limit Check State.vi rscmwbtn Read RXQ IQ Dynamic Range Antenna Mean Amplitude Values.vi rscmwbtn Fetch RXQ IQ Dynamic Range Antenna Mean Amplitude Values.vi rscmwbtn Query RXQ IQ Dynamic Range Antenna Mean Amplitude Limit Check Results.vi rscmwbtn Read RXQ 2M IQ Dynamic Range Antenna Mean Amplitude Values.vi rscmwbtn Fetch RXQ 2M IQ Dynamic Range Antenna Mean Amplitude Values.vi rscmwbtn Query RXQ 2M IQ Dynamic Range Antenna Mean Amplitude Limit Check Results.vi</p> <p>Modified:</p> <p>rscmwbtn Configure RF DTX Mode.vi - added Test mode LE, LR, LE2M rscmwbtn Configure RF DTX Frequency Drift.vi - added Test mode LE, LR, LE2M rscmwbtn Configure RF DTX Frequency Offset.vi - added Test mode LE, LR, LE2M rscmwbtn Configure RF DTX Modulation Index LE Standard.vi - added Test Mode LE, LR, LE2M rscmwbtn Configure RF DTX Modulation Index LE Stable.vi - added Test Mode LE, LR, LE2M rscmwbtn Configure RF DTX Symbol Timing Error LE Value.vi - added Test mode LE, LR, LE2M rscmwbtn Query RF DTX Frequency Drift.vi - added Test Mode LE, LELR, LE2M rscmwbtn Query RF DTX Frequency Offset.vi - added Test Mode LE, LELR, LE2M rscmwbtn Query RF DTX Symbol Timing Error.vi - added Test Mode LE, LELR, LE2M rscmwbtn Query RF DTX Modulation Index.vi - added Std Test Mode LE, LELR, LE2M rscmwbtn Query RF DTX Stable Modulation Index.vi - added Test Mode LE, LELR, LE2M rscmwbtn Configure CMW Operating Mode.vi - added AUDIO a LETM rscmwbtn Configure Connection Packets Pattern.vi - added Test Mode LE, LR, LE2M rscmwbtn Configure Connection Packets Payload Length.vi - added Test Mode LE, LELR, LE2M rscmwbtn Configure Connection CTE Signal Characteristics.vi - removed AOA and added AOA1 rscmwbtn Query Generator State.vi - added audio types to Sub State rscmwbtn Signaling Action.vi - added AUDC, ADEX, ADEN rscmwbtn Query Signaling BR EDR State.vi - added states for audio mode rscmwbtn Configure Signaling Limits.vi - added BER/PER Test Mode LE, LELR, LE2M and Search rscmwbtn Configure RXQ Number Of Data Packets.vi - added Test mode LE, LR, LE2M and Search rscmwbtn Configure RXQ LE Integrity.vi - added Test Mode LE, LR, LE2M and Search rscmwbtn Configure RXQ Level Step.vi - added Test Mode LE rscmwbtn Read RXQ IQ Coherency Values.vi - scpi cmd&resurn values updated rscmwbtn Fetch RXQ IQ Coherency Values.vi - added Results parameters rscmwbtn Query RXQ IQ Coherency Limit Check Results.vi - added Results parameters rscmwbtn Read RXQ IQ Coherency Non Reference Values.vi - added Results parameters rscmwbtn Fetch RXQ IQ Coherency Non Reference Values.vi - added Results parameters rscmwbtn Query RXQ IQ Coherency Non Reference Limit Check Results.vi - added Results params rscmwbtn Read RXQ 2M IQ Coherency Values.vi - added Results parameters rscmwbtn Fetch RXQ 2M IQ Coherency Values.vi - added Results parameters rscmwbtn Query RXQ 2M IQ Coherency Limit Check Results.vi - added Results parameters rscmwbtn Read RXQ 2M IQ Coherency Non Reference Values.vi - added Results parameters rscmwbtn Fetch RXQ 2M IQ Coherency Non Reference Values.vi - added Results parameters rscmwbtn Query RXQ 2M IQ Coherency Non Reference Limit Check Results.vi - added Results par rscmwbtn Read RXQ IQ Dynamic Range Values.vi - added Results parameters rscmwbtn Fetch RXQ IQ Dynamic Range Values.vi - added Results parameters rscmwbtn Query RXQ IQ Dynamic Range Limit Check Results.vi - added Results parameters rscmwbtn Read RXQ 2M IQ Dynamic Range Values.vi - added Results parameters rscmwbtn Fetch RXQ 2M IQ Dynamic Range Values.vi - added Results parameters</p>

rscmwbts driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwbts Query RXQ 2M IQ Dynamic Range Limit Check Results.vi - added Results parameters
3.7.800	09/2016	<p>Update for firmware version 3.7.80</p> <p>New:</p> <ul style="list-style-type: none"> rscmwbts Configure RF Input External Attenuation.vi rscmwbts Configure RF Output External Attenuation.vi rscmwbts Configure RF Antennas Gain Offset.vi rscmwbts Configure Connection Packets Type LE.vi rscmwbts Configure Connection Packets Type LE2M.vi rscmwbts Configure Connection CTE Signal Characteristics.vi rscmwbts Configure Connection Paging LE Central.vi rscmwbts Configure Connection Paging LE Peripheral.vi rscmwbts Query EUT Normal Mode Connection Settings.vi rscmwbts Query EUT LE Signaling Capabilities.vi rscmwbts Initiate RXQ IQ Coherency Measurement.vi rscmwbts Stop RXQ IQ Coherency Measurement.vi rscmwbts Abort RXQ IQ Coherency Measurement.vi rscmwbts Configure RXQ IQ Coherency Samples Limit.vi rscmwbts Configure RXQ IQ Coherency Samples Number.vi rscmwbts Configure RXQ IQ Coherency Packets Number.vi rscmwbts Configure RXQ IQ Coherency Non Reference Samples Limit.vi rscmwbts Query RX Quality IQ Coherency State.vi rscmwbts Read RXQ IQ Coherency Values.vi rscmwbts Fetch RXQ IQ Coherency Values.vi rscmwbts Query RXQ IQ Coherency Limit Check Results.vi rscmwbts Read RXQ IQ Coherency Non Reference Values.vi rscmwbts Fetch RXQ IQ Coherency Non Reference Values.vi rscmwbts Query RXQ IQ Coherency Non Reference Limit Check Results.vi rscmwbts Read RXQ IQ Coherency MRP Trace Results.vi rscmwbts Fetch RXQ IQ Coherency MRP Trace Results.vi rscmwbts Read RXQ 2M IQ Coherency Values.vi rscmwbts Fetch RXQ 2M IQ Coherency Values.vi rscmwbts Query RXQ 2M IQ Coherency Limit Check Results.vi rscmwbts Read RXQ 2M IQ Coherency Non Reference Values.vi rscmwbts Fetch RXQ 2M IQ Coherency Non Reference Values.vi rscmwbts Query RXQ 2M IQ Coherency Non Reference Limit Check Results.vi rscmwbts Initiate RXQ IQ Dynamic Range Measurement.vi rscmwbts Stop RXQ IQ Dynamic Range Measurement.vi rscmwbts Abort RXQ IQ Dynamic Range Measurement.vi rscmwbts Configure RXQ IQ Dynamic Range Samples Number.vi rscmwbts Configure RXQ IQ Dynamic Range Packets Number.vi rscmwbts Configure RXQ IQ Dynamic Range Limit Check State.vi rscmwbts Query RX Quality IQ Dynamic Range State.vi rscmwbts Read RXQ IQ Dynamic Range Values.vi rscmwbts Fetch RXQ IQ Dynamic Range Values.vi rscmwbts Query RXQ IQ Dynamic Range Limit Check Results.vi rscmwbts Read RXQ 2M IQ Dynamic Range Values.vi rscmwbts Fetch RXQ 2M IQ Dynamic Range Values.vi rscmwbts Query RXQ 2M IQ Dynamic Range Limit Check Results.vi <p>Modified:</p> <ul style="list-style-type: none"> rscmwbts Configure RF DTX Mode.vi - LE Normal Mode, LE2M Normal Mode added rscmwbts Configure RF DTX Frequency Drift.vi - LE Normal Mode, LE2M Normal Mode and LELR Normal Mode added rscmwbts Configure RF DTX Frequency Offset.vi - LE Normal Mode, LE2M Normal Mode and LELR Normal Mode added

rscmwbt driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		<p>rscmwbt Configure RF DTX Modulation Frequency.vi - LE Normal Mode, LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Configure RF DTX Modulation Index LE Standard.vi - LE Normal Mode, LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Configure RF DTX Symbol Timing Error LE Value.vi - LE Normal Mode, LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Query RF DTX Frequency Drift.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Query RF DTX Frequency Offset.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Query RF DTX Symbol Timing Error.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Query RF DTX Modulation Index.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Configure RF LEx PER Limit.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Configure Signaling Limits.vi - LE2M Normal Mode and LELR Normal Mode added</p> <p>rscmwbt Configure RXQ Number Of Data Packets.vi - LE2M Normal Mode, LELR Normal Mode, LE2M Normal Mode Search, LELR Normal Mode Search added</p>
3.7.600	06/2019	<p>Update for firmware version 3.7.60</p> <p>New:</p> <p>rscmwbt Query Connection Targets For Paging LE.vi</p> <p>rscmwbt Query EUT Normal Mode Settings.vi</p> <p>rscmwbt Query EUT Signaling Information.vi</p> <p>rscmwbt Clean Event Log.vi</p> <p>rscmwbt Query Event Log All Entries.vi</p> <p>rscmwbt Query Event Log Last Entry.vi</p> <p>rscmwbt Read RXQ Normal Mode PER Values.vi</p> <p>rscmwbt Fetch RXQ Normal Mode PER Values.vi</p> <p>rscmwbt Query RXQ Normal Mode PER Limit Check Results.vi</p> <p>rscmwbt Read RXQ Normal Mode PER Search Values.vi</p> <p>rscmwbt Fetch RXQ Normal Mode PER Search Values.vi</p> <p>rscmwbt Query RXQ Normal Mode PER Search Limit Check Results.vi</p> <p>Modified:</p> <p>rscmwbt Configure Connection LE.vi - Baud Rate updated</p> <p>rscmwbt Configure RXQ Level Step.vi - LE Normal Mode Search added</p> <p>rscmwbt Configure RXQ Number Of Data Packets.vi - LE Normal Mode, LE Normal Mode Search added</p> <p>rscmwbt Configure RF DTX Modulation Frequency.vi - Normal Mode added</p> <p>rscmwbt Query RF TX Frequency Drift.vi - Normal Mode added</p> <p>rscmwbt Query RF DTX Frequency Offset.vi - Normal Mode added</p> <p>rscmwbt Query RF DTX Symbol Timing Error.vi - Normal Mode added</p> <p>rscmwbt Query RF DTX Modulation Index.vi - Normal Mode added</p> <p>rscmwbt Configure RF LEx PER Limit.vi - Normal Mode added</p> <p>rscmwbt Configure Signaling Limits.vi - Normal Mode added</p> <p>Deleted:</p> <p>rscmwbt Configure RF DTX Modulation Index Mode.vi</p>
3.7.100	12/2017	<p>* rscmwbt Initialize.vi, rscmwbt Initialize with Options.vi, rscmwbt Close.vi and Utility VIs have new VI icons</p> <p>* Updated:</p> <p>- rscmwbt Configure RF Signal Routing.vi</p> <p>- rscmwbt Configure Connection BR EDR.vi</p>
3.5.700	03/2017	<p>Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging</p> <p>All VISA resource name inputs are mandatory</p> <p>Changed Icons strip color to blue for measurement drivers and orange for signaling drivers</p> <p>Changed Palette Icons</p> <p>Cleaned up all the Front Panels and Block Diagrams</p> <p>Added:</p> <p>rscmwbt Configure RF DTX Modulation Frequency.vi</p>

rscmwbtn driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwbtn Configure RF DTX Modulation Index LE Standard.vi rscmwbtn Configure RF DTX Modulation Index LE Stable.vi rscmwbtn Configure RF DTX Symbol Timing Error LE Value.vi rscmwbtn Query RF DTX Stable Modulation Index.vi rscmwbtn Configure CMW Operating Mode.vi rscmwbtn Configure PHY LE.vi rscmwbtn Configure LELR Coding.vi rscmwbtn Send Custom HCI Byte.vi rscmwbtn Configure Connection Audio Link Setup.vi rscmwbtn Query Connection Audio A2DP Bit Rate.vi rscmwbtn Configure Connection Audio Acceptor Role.vi rscmwbtn Configure RF LEX PER Limit.vi rscmwbtn Read RXQ LR PER Values.vi rscmwbtn Fetch RXQ LR PER Values.vi rscmwbtn Query RXQ LR PER Limit Check Results.vi rscmwbtn Read RXQ 2M PER Values.vi rscmwbtn Fetch RXQ 2M PER Values.vi rscmwbtn Query RXQ 2M PER Limit Check Results.vi rscmwbtn Read RXQ LR PER Search Values.vi rscmwbtn Fetch RXQ LR PER Search Values.vi rscmwbtn Query RXQ LR PER Search Limit Check Results.vi rscmwbtn Read RXQ 2M PER Search Values.vi rscmwbtn Fetch RXQ 2M PER Search Values.vi rscmwbtn Query RXQ 2M PER Search Limit Check Results.vi rscmwbtn Configure Error Checking.vi rscmwbtn Write Command With OPC Sync.vi rscmwbtn Query With OPC Sync.vi rscmwbtn Write Command.vi Updated: rscmwbtn Configure RF DTX Mode.vi - added LE Long Range and LE2M rscmwbtn Configure RF DTX Frequency Drift.vi - added LE Long Range and LE2M rscmwbtn Configure RF DTX Frequency Offset.vi - added LE Long Range and LE2M rscmwbtn Query RF DTX Frequency Drift.vi - added LE Long Range and LE2M rscmwbtn Query RF DTX Frequency Offset.vi - added function parameter Array Size, added LE Long Range and LE2M rscmwbtn Query RF DTX Symbol Timing Error.vi - added function parameter Array Size, added LE Long Range and LE2M rscmwbtn Query RF DTX Modulation Index.vi - added function parameter Array Size, added LE Long Range and LE2M rscmwbtn Configure Audio Profile Roles.vi - added A2DP sink role rscmwbtn Configure Connection Packets Pattern.vi - added LE Long Range and LE2M rscmwbtn Configure Connection Packets Payload Length.vi - added LE Long Range and LE2M rscmwbtn Configure Connection Speech Codec.vi - added new codecs rscmwbtn Query Generator State.vi - added new states rscmwbtn Query Signaling State.vi - added new states rscmwbtn Query Signaling BR EDR State.vi - added new states rscmwbtn Query Audio Link Info.vi - added new codecs rscmwbtn Configure Signaling Limits.vi - added new burst and measurement types (LE2M and LELR) rscmwbtn Configure RXQ Number Of Data Packets.vi - added new burst and measurement types (LE2M and LELR) rscmwbtn Configure RXQ LE Integrity.vi - added new burst and measurement types (LE2M and LELR) rscmwbtn Query RX Quality PER Search State.vi - added new states rscmwbtn Close.vi - removed >L
3.5.500	11/2016	Added:

rscmwbts driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwbts Configure Audio Profile Roles.vi rscmwbts Configure Stack Delay.vi rscmwbts Reset LE EUT USB Device.vi rscmwbts Configure Delay After LE EUT Reset.vi rscmwbts Configure AFH Mode.vi rscmwbts Configure AFH User Channels.vi rscmwbts Query AFH User Channels.vi rscmwbts Configure Connection Speech Codec.vi rscmwbts Configure Connection Test Packet Synch Word.vi rscmwbts Configure Connection Audio Profiles.vi rscmwbts Configure Connection Audio Volumes.vi rscmwbts Query Audio Link Info.vi rscmwbts Query EUT E-SCO.vi rscmwbts Configure Signaling Limits.vi rscmwbts Configure RXQ LE Integrity.vi rscmwbts Configure RXQ Level Step.vi rscmwbts Configure RXQ Search Timeout.vi rscmwbts Initiate RXQ BER Search Measurement.vi rscmwbts Stop RXQ BER Search Measurement.vi rscmwbts Abort RXQ BER Search Measurement.vi rscmwbts Query RX Quality BER Search State.vi rscmwbts Initiate RXQ PER Search Measurement.vi rscmwbts Stop RXQ PER Search Measurement.vi rscmwbts Abort RXQ PER Search Measurement.vi rscmwbts Query RX Quality PER Search State.vi rscmwbts Read RXQ PER Search Values.vi rscmwbts Fetch RXQ PER Search Values.vi rscmwbts Query RXQ PER Search Limit Check Results.vi rscmwbts Set OPC Timeout.vi rscmwbts Get OPC Timeout.vi rscmwbts Clear Status.vi rscmwbts ID Query Response.vi rscmwbts Process All Previous Commands.vi rscmwbts Query OPC.vi rscmwbts Bin Data From File To Instrument.vi rscmwbts Bin Data To File From Instrument.vi Updated: rscmwbts Signaling Action.vi rscmwbts Configure RXQ Number Of Data Packets.vi rscmwbts Error Query.vi rscmwbts Read To File From Instrument.vi rscmwbts Write From File To Instrument.vi rscmwbts Query RX Quality BER State All.vi rscmwbts Query EUT Power Control States.vi rscmwbts Query EUT Power Control State.vi Deleted: rscmwbts Configure Signaling Limit.vi
3.5.303	08/2016	Added: rscmwbts Query RX Quality PERState.vi rscmwbts Initiate RX QBER Measurement.vi rscmwbts Stop RX QBER Measurement.vi rscmwbts Abort RX QBER Measurement.vi rscmwbts Query RX Quality BER State.vi rscmwbts Query RX Quality BER State All.vi

rscmwbts driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwbts Read RXQ BER Values.vi rscmwbts Fetch RXQ BER Values.vi rscmwbts Query RXQ BER Limit Check Results.vi rscmwbts Read RXQ PER Values.vi rscmwbts Fetch RXQ PER Values.vi rscmwbts Query RXQ PER Limit Check Results.vi
3.5.300	12/2015	Update for firmware version 3.5.300 Added: rscmwbts Configure Connection BR EDR HW Interface.vi rscmwbts Configure Connection BR EDR Protocol.vi rscmwbts Configure Connection BR EDR.vi rscmwbts Configure Connection BR EDR USB Device.vi rscmwbts Query Connection USB EUT.vi rscmwbts Configure Connection LE USB Device.vi rscmwbts Query Signaling BR EDR State.vi USB Information Updated: rscmwbts Configure Connection Paging.vi rscmwbts Configure Connection Packets Pattern.vi rscmwbts Configure Connection Packets Payload Length.vi rscmwbts Configure Connection LE HW Interface.vi rscmwbts Configure Connection LE Protocol.vi rscmwbts Configure Connection LE.vi rscmwbts Signaling Action.vi
3.5.100	03/2015	* Update for firmware 3.5.10 * Updated: - rscmwbts Configure Connection LE Communication Protocol.vi
3.2.700	11/2014	Update for firmware version 3.2.700 Express VI version 1.50.1 Added: rscmwbts Configure RF Auto Ranging.vi rscmwbts Configure RF Channel Number.vi rscmwbts Configure RF LE PER Limit.vi rscmwbts Configure RF LE Number Of Data Packets.vi rscmwbts Configure RF LE Test Packets Ratio.vi rscmwbts Query RF Frequency For Direct Test Mode.vi rscmwbts Configure RF DTX Modulation Index LE.vi rscmwbts Configure RF DTX Symbol Timing Error LE.vi rscmwbts Query Connection Packets Payload Length LE.vi rscmwbts Configure Connection Enhanced Power Control Mode.vi Connection LE rscmwbts Query Signaling LE State.vi rscmwbts Query EUT Power Control States.vi rscmwbts Query EUT Power Control State.vi PER Updated: rscmwbts Configure RF DTX Frequency Drift.vi rscmwbts Configure RF DTX Frequency Offset.vi rscmwbts Query RF DTX Frequency Drift.vi rscmwbts Query RF DTX Frequency Offset.vi rscmwbts Query RF DTX Symbol Timing Error.vi rscmwbts Query RF DTX Modulation Index.vi rscmwbts Configure Connection Burst Type.vi

rscmwbt driver for Bluetooth Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwbt Configure Connection Packets Pattern.vi rscmwbt Configure Connection Power Control.vi
3.2.500	05/2014	Added: rscmwbt Configure RF Hopping.vi rscmwbt Configure RF Test Mode.vi rscmwbt Configure RF Loopback.vi rscmwbt Configure RF Tx Test.vi rscmwbt Query RF Frequency Loopback.vi rscmwbt Query RF Frequency TX Test.vi DTX rscmwbt Configure Connection Burst Type.vi rscmwbt Configure Connection Packets Pattern.vi rscmwbt Configure Connection Packets Payload Length.vi rscmwbt Configure Connection Packets Type BR.vi rscmwbt Configure Connection Packets Type EDR.vi rscmwbt Configure Connection Power Control.vi rscmwbt Configure Connection Poll Period.vi rscmwbt Configure Connection Poll Period Minimum.vi rscmwbt Configure Connection Whitening.vi rscmwbt Query EUT Power Controlling.vi rscmwbt Configure Signaling Limit.vi rscmwbt Configure RXQ Condition.vi rscmwbt Configure RXQ Timeout.vi Updated: Instance count to 16 rscmwbt Configure RF Signal Routing.vi rscmwbt Query Generator State.vi rscmwbt Signaling Action.vi rscmwbt Query Signaling State.vi
3.0.120	04/2013	- Initial version

6 RScmwC2M - CDMA2000 Measurement (3.7.100)

rscmw2m driver for CDMA2000 Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.100	02/2018	<ul style="list-style-type: none"> * Update for firmware 3.7.10 * Exchanged Driver Core 6.10.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons * Cleaned up all the Front Panels and Block Diagrams
3.5.500	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.50 * New: <ul style="list-style-type: none"> - rscmw2m Clear Status.vi - rscmw2m ID Query Response.vi - rscmw2m Process All Previous Commands.vi - rscmw2m Query OPC.vi - rscmw2m Bin Data From File To Instrument.vi - rscmw2m Bin Data To File From Instrument.vi * Updated: <ul style="list-style-type: none"> - rscmw2m Configure Analyzer Channel.vi - new items in 'Band' (BC20, BC21) - rscmw2m Query Analyzer Routing Settings.vi - new items in 'RX Connector', 'RF Converter' - rscmw2m Configure Analyzer Stand Alone Scenario.vi - new items in 'RX Connector', 'RF Converter' - rscmw2m Configure Multi Eval Measurement List Mode Segment CMWS Connector.vi - new items in 'Connector'
3.5.110	10/2015	<ul style="list-style-type: none"> * Updated functions <ul style="list-style-type: none"> - rscmw2m Configure MEval Meas List Mode Segment Length.vi - rscmw2m Configure MEval Meas List Mode Modulation Results.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware 3.5.10 * New VIs: <ul style="list-style-type: none"> - rscmw2m Configure Multi Eval Measurement List Mode CMWS Connector Mode.vi - rscmw2m Configure Multi Eval Measurement List Mode Segment CMWS Connector.vi * Updated VIs: <ul style="list-style-type: none"> - rscmw2m Configure Analyzer Stand Alone Scenario.vi - new values at parameter "RX Connector" - rscmw2m Query Analyzer Routing Settings.vi - new values at parameter "RX Connector" * Deleted VIs: <ul style="list-style-type: none"> - rscmw2m Query Multi Eval Channel Power I Signal Limits Check Result.vi - use rscmw2m Query Multi Eval Channel Power IQ Signal Limits Check Result.vi * New attributes: <ul style="list-style-type: none"> - Multi Eval Measurement List Mode CMWS Connector Mode (RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_LIST_MODE_CMWS_CONNECTOR_MODE) - Multi Eval Measurement List Mode Segment CMWS Connector (RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_LIST_MODE_SEGMENT_CMWS_CONNECTOR) * Modified attributes: <ul style="list-style-type: none"> - Analyzer Remote Display (RSCMWC2M_ATTR_ANALYZER_REMOTE_DISPLAY) - Range table SCPI command fixed * Modified Range Tables: <ul style="list-style-type: none"> - rscmw2m_rngRemoteDisplay.RSCMWC2M_VAL_REMOTE_DISPLAY_MEV - RSCMWC2M_ATTR_ANALYZER_REMOTE_DISPLAY Command changed ("MEVA", "MEV")
3.2.800	06/2014	<ul style="list-style-type: none"> * Update for firmware 3.2.800

rscmw2m driver for CDMA2000 Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> * New: - rscmw2m Configure Multi Eval ACP RBW.vi - rscmw2m Configure Multi Eval ACP Extended Offsets.vi - rscmw2m Configure Multi Eval ACP Extended RBW.vi - rscmw2m Configure Multi Eval Limits ACP Absolute.vi - rscmw2m Read Multi Eval ACP Results Absolute.vi - rscmw2m Fetch Multi Eval ACP Results Absolute.vi - rscmw2m Query Multi Eval ACP Limit Check Results Absolute.vi - rscmw2m Read Multi Eval ACPResultsExtended.vi - rscmw2m Fetch Multi Eval ACP ResultsExtended.vi - rscmw2m Query Multi Eval ACP LimitCheckResultsExtended.vi - rscmw2m Read Multi Eval ACP ResultsExtendedAbsolute.vi - rscmw2m Fetch Multi Eval ACP ResultsExtendedAbsolute.vi - rscmw2m Query Multi Eval ACP LimitCheckResultsExtendedAbsolute.vi - rscmw2m Fetch Multi Eval List Mode Adjacent Channel Power Extended Results.vi - rscmw2m Query Multi Eval List Mode Adjacent Channel Power Extended Limits Check Result.vi - rscmw2m Fetch Multi Eval List Mode All ACP Extended Results.vi - rscmw2m Query Multi Eval List Mode All ACP Extended Limits Check Result.vi - rscmw2m Fetch Multi Eval List Mode All ACP Off Center Extended Results.vi - rscmw2m Query Multi Eval List Mode All ACP Off Center Extended Limits Check Results.vi * Updated: - Instance range 1 to 16 - rscmw2m Configure Multi Eval Limits ACP - 20 results
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware 3.2.100 * New: - rscmw2m Query Multi Eval Meas Occupied Bandwidth Trace Limits Check Result.vi - rscmw2m Query Multi Eval Meas Spectrum Trace.vi - rscmw2m Query Multi Eval Meas List Mode All Reliability Limits Check Result.vi - rscmw2m Configure OLTR Initial Lower Limit.vi - rscmw2m Query OLTR Limits Check Results.vi * Updated: - rscmw2m Query Multi Eval Meas List Mode Channel Time Offset Limits Check Result.vi - rscmw2m Query Multi Eval Meas List Mode Adjacent Channel Power Limits Check Result.vi - rscmw2m Fetch Multi Eval Meas List Mode Occupied Bandwidth Results.vi - rscmw2m Query Multi Eval Meas List Mode Occupied Bandwidth Limits Check Result.vi - rscmw2m Query Multi Eval Meas List Mode All Modulation Standard Deviation Limits Check Result.vi - rscmw2m Fetch Multi Eval Meas List Mode All Occupied Bandwidth Results.vi - rscmw2m Query Multi Eval Meas List Mode All Occupied Bandwidth Limits Check Result.vi - rscmw2m Fetch Multi Eval Meas List Mode All Occupied Bandwidth Standard Deviation.vi - rscmw2m Query Multi Eval Meas List Mode All Occupied Bandwidth Standard Deviation Limits Check Result.vi
3.0.200	04/2013	<ul style="list-style-type: none"> * Update for firmware version 3.0.20 * New: - rscmw2m Read OLTR Limits Check Results.vi - rscmw2m Fetch OLTR Limits Check Results.vi * Update: - rscmw2m Configure Analyzer Stand Alone Scenario.vi - rscmw2m Query Analyzer Routing Settings.vi
3.0.120	06/2012	<ul style="list-style-type: none"> Modifications: * Update for firmware version 3.0.10 * Added VIs for reading all list mode segments results of individual measurements * Open Loop Time Response Measurement

rscmw2m driver for CDMA2000 Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> * New: <ul style="list-style-type: none"> - rscmw2m Configure Multi Eval Measurement Trigger Offset.vi - rscmw2m Read Multi Eval ACP Statistical Results.vi - rscmw2m Fetch Multi Eval ACP Statistical Results.vi - rscmw2m Query Multi Eval ACP Statistical Limits Check Results.vi - rscmw2m Fetch Multi Eval Channel Phase Offset State.vi - rscmw2m Query Multi Eval Channel Phase Offset Trace Limit Check Results.vi - rscmw2m Fetch Multi Eval Channel Time Offset State.vi - rscmw2m Query Multi Eval Channel Time Offset Trace Limit Check Results.vi - rscmw2m Fetch Multi Eval List Mode All Reliability Results.vi * Modified: <ul style="list-style-type: none"> - rscmw2m Read Multi Eval Channel Phase Offset Trace Results.vi - Minimum removed - rscmw2m Fetch Multi Eval Channel Phase Offset Trace Results.vi - Minimum removed - rscmw2m Read Multi Eval Channel Time Offset Trace Results.vi - Minimum removed - rscmw2m Fetch Multi Eval Channel Time Offset Trace Results.vi - Minimum removed - rscmw2m Fetch Multi Eval List Mode Adjacent Channel Power Results.vi - commands changed - rscmw2m Query Multi Eval List Mode Adjacent Channel Power Limits Check Result.vi - commands changed - rscmw2m Fetch Multi Eval List Mode All Adjacent Channel Power Results.vi - commands changed - rscmw2m Query Multi Eval List Mode All Adjacent Channel Power Limits Check Result.vi - commands changed
2.0.110	04/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 2.0.11.xx * Added Features <ul style="list-style-type: none"> - List Mode limits - Channel Power Measurements for CMW 3.0.0Beta (Channel Power, Channel Power Phase Offset, Channel Power Time Offset, Occupied Bandwidth) * Added functions/attributes <ul style="list-style-type: none"> - rscmw2m Query Analyzer Routing Settings.vi - rscmw2m Configure Multi Eval Timeout.vi - rscmw2m Configure Multi Eval Trigger Delay.vi - rscmw2m Configure Multi Eval Minimum Trigger Gap.vi - rscmw2m Query Multi Eval Code Domain Power Trace Limits Check Result.vi - rscmw2m Fetch Multi Eval Code Domain Power State.vi - rscmw2m Fetch Multi Eval Code Domain Power Limit Check Results.vi - rscmw2m Query Multi Eval Code Domain Error Trace Limits Check Result.vi - rscmw2m Fetch Multi Eval Code Domain Error State.vi - rscmw2m Fetch Multi Eval Code Domain Error Limits Check Result.vi - rscmw2m Query Multi Eval ACP Limits Check Result.vi - rscmw2m Configure Multi Eval List Mode Retrigger Mode.vi * Removed functions/attributes <ul style="list-style-type: none"> - rscmw2m Query Analyzer Used Scenario.vi * Modified functions/attributes <ul style="list-style-type: none"> - rscmw2m Configure Analyzer Combined Signal Path Scenario.vi - modified to work with latest firmware - rscmw2m Configure Multi Eval Trigger.vi - changed SCPI syntax - rscmw2m Query Multi Eval Trigger Source Catalog.vi - changed SCPI syntax - rscmw2m Configure Multi Eval List Mode Segment Length.vi - changed API due to changed command syntax
1.0.152	07/2010	<p>Release for CMW firmware version 1.0.15.20</p> <ul style="list-style-type: none"> * Added Features <ul style="list-style-type: none"> - List Mode Measurement * Added VIs

rscmw2m driver for CDMA2000 Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmw2m Query Analyzer Combined Signal Path Catalog.vi - rscmw2m Query Analyzer Used Scenario.vi * Modified functions/attributes - rscmw2m Configure Analyzer Combined Signal Path Scenario.vi, rscmw2m Configure Analyzer Stand Alone Scenario.vi - modified to work with latest firmware
1.0.150	02/2010	Release for CMW firmware version 1.0.15 Added VIs/attributes <ul style="list-style-type: none"> - rscmw2m Configure Analyzer Combined Signal Path Scenario.vi - rscmw2m Configure Analyzer Stand Alone Scenario.vi - rscmw2m Configure Analyzer External Attenuation.vi - rscmw2m Configure Analyzer Frequency Offset.vi Modified VIs/attributes <ul style="list-style-type: none"> - rscmw2m Configure Analyzer Frequency Offset.vi - modified ranges - rscmw2m Configure Analyzer Channel.vi - rscmw2m Configure Radio Configuration.vi Removed VIs <ul style="list-style-type: none"> - rscmw2m Configure Signal Routing.vi
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Added VIs/attributes <ul style="list-style-type: none"> - rscmw2m Configure Multi Eval Measurement Results All.vi - rscmw2m Query Multi Eval ACP Out of Tolerance Limits Check Result.vi - rscmw2m QueryMulti Eval Modulation Results Limits Check Result.vi - rscmw2m Query Multi Eval Modulation Standard Deviation Limits Check Result.vi * Modified VIs/attributes <ul style="list-style-type: none"> - rscmw2m Configure Analyzer.vi - modified ranges
1.0.40	07/2008	Release for CMW firmware version 1.0.4 Modified VIs/attributes: <ul style="list-style-type: none"> - RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE - complete redesign - RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SLOPE - changed command - RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_THRESHOLD – changed command - RSCMWC2M_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT – changed command - rscmw2m Configure Multi Eval Measurement Trigger.vi - redesign, see above rscmw2m Read Multi Eval Measurement Modulation Results, rscmw2m Fetch Multi Eval Measurement Modulation Results - added Minimum measurement New VIs/attributes: <ul style="list-style-type: none"> - RSCMWC2M_ATTR_ANALYZER_BAND_CLASS - RSCMWC2M_ATTR_ANALYZER_CHANNEL - rscmw2m Configure Analyzer Channel.vi
1.0.30	05/2008	Release for CMW firmware version 1.0.3 Initial revision

7 RScmwC2G - CDMA2000 Generator (2.0.110)

rscmw2g driver for CDMA2000 Generator		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW280		
Revision	Date	Note
2.0.110	04/2011	Modification: * Update for firmware version 2.0.11.xx * Added: - rscmw2g Configure Generator External Attenuation.vi - rscmw2g Configure Generator Routing.vi - rscmw2g Configure Generator External Attenuation.vi * Removed: - rscmw2g Configure Generator Signal Routing.vi
1.0.150	02/2010	Release for CMW firmware version 1.0.15.0 Initial revision

8 RScmwC2S - CDMA2000 Signaling (3.7.400)

rscmw2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.400	04/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.40 * New: <ul style="list-style-type: none"> - rscmw2s Configure Hybrid Mode Fading.vi - rscmw2s Configure Hybrid Mode Fading External.vi * Updated: <ul style="list-style-type: none"> - rscmw2s Query Signal Routing.vi - Hybrid mode with fading added to scenario - rscmw2s Query Active Scenario.vi - Hybrid mode with fading added to scenario - rscmw2s Query Active Scenario Fader.vi - Hybrid mode with fading added to scenario
3.7.100	02/2018	<ul style="list-style-type: none"> * Update for firmware 3.7.10 * Code improvement * rscmw2s Initialize.vi, rscmw2s Initialize with Options.vi, rscmw2s Close.vi and Utility VIs have new VI icons
3.5.610	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.610 * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels * New: <ul style="list-style-type: none"> - rscmw2s Configure Reverse Power Control Segment.vi - rscmw2s Configure Network Distance Based Registration.vi - rscmw2s Configure Network Autonomous Registration.vi - rscmw2s Configure Network Power Up Down Registration.vi - rscmw2s Configure Network Parameter Change Registration.vi - rscmw2s Reset RX Quality Statistics.vi - rscmw2s Query MS Info RX Quality.vi - rscmw2s Preconfigure Settings.vi - rscmw2s Set Fast Sweep Mode.vi * Updated: <ul style="list-style-type: none"> - rscmw2s Configure Broadcast Message.vi * Deleted: <ul style="list-style-type: none"> - rscmw2s Set Fast Sweep Mode.vi
3.5.500	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.50 * New: <ul style="list-style-type: none"> - rscmw2s Configure Hybrid Mode Lite.vi - rscmw2s Configure Network System Base Station ID.vi - rscmw2s Configure Network Access Probes Sequences.vi - rscmw2s Configure External DAU.vi - rscmw2s Query Event Log Last Entry.vi - rscmw2s Query Event Log All Entries.vi - rscmw2s Clear Status.vi - rscmw2s ID Query Response.vi - rscmw2s Process All Previous Commands.vi - rscmw2s Query OPC.vi - rscmw2s Read To File From Instrument.vi

rscmwc2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwc2s Bin Data From File To Instrument.vi - rscmwc2s Bin Data To File From Instrument.vi * Updated: <ul style="list-style-type: none"> - rscmwc2s Configure Routing.vi - Multi-CMW support added - rscmwc2s Query Signal Routing.vi - Multi-CMW support added - rscmwc2s Query Active Scenario.vi - Hybrid Mode Lite added - rscmwc2s Query Active Scenario Fader.vi - Hybrid Mode Lite added - rscmwc2s Configure RF Signal Frequency.vi - added Bands (BC20, BC21) - rscmwc2s Configure Hybrid Mode.vi - Multi-CMW support added - rscmwc2s Configure Signal Routing Standard Cell Fading.vi - Multi-CMW support added - rscmwc2s Configure Signal Routing Standard Cell Fading External.vi - Multi-CMW support added - rscmwc2s Configure RX Quality Measurement Timeout.vi - Radio Link Protocol (RLP) Timeout SCPI command removed - rscmwc2s Configure Handoff Target.vi - added Bands (BC20, BC21) - rscmwc2s Configure Sending Method.vi - added Sending Method (SO18, SO19, SO35, SO36) - rscmwc2s Configure RX Quality Measurement Timeout.vi - Radio Link Protocol (RLP) Timeout SCPI command removed * Deleted: <ul style="list-style-type: none"> - rscmwc2s Configure MS Service Option Control Message State.vi - rscmwc2s Configure RX Quality RLP Measurement Control.vi - rscmwc2s RX Quality RLP Measurement Init.vi - rscmwc2s RX Quality RLP Measurement Abort.vi - rscmwc2s RX Quality RLP Measurement Stop.vi - rscmwc2s Query RX Quality RLP Measurement Status.vi
3.5.110	10/2015	<ul style="list-style-type: none"> * Update for firmware 3.5.11 * New VIs: <ul style="list-style-type: none"> - rscmwc2s Configure RX Quality RLP Window Size.vi - Pilot Strength - rscmwc2s Fetch RX Quality Pilot Strength Results.vi - rscmwc2s Fetch RX Quality Serving Frequency Power Results.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwc2s Query Physical Layer DSSS Walsh Code.vi - rscmwc2s Configure Accept MS Originated Call.vi - rscmwc2s Configure Network Broadcast Slot Cycle Index.vi - rscmwc2s Query RX Quality Measurement Status.vi - rscmwc2s Configure RX Quality Evaluation Results State.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware 3.5.10 * New VIs: <ul style="list-style-type: none"> - rscmwc2s Configure Physical Layer PCH.vi - rscmwc2s Query Physical Layer PCH.vi - rscmwc2s Configure Physical Layer QPCH.vi - rscmwc2s Query Physical Layer QPCH.vi - rscmwc2s Configure Network Broadcast Slot Cycle Index.vi - rscmwc2s Configure Network Page Registered MS.vi - rscmwc2s Query Receive Queue Message.vi - rscmwc2s Reset Incoming Message Queue.vi - rscmwc2s Query Receive Queue Status.vi - rscmwc2s Configure Sending Method.vi - rscmwc2s Query Sent Message Status.vi - rscmwc2s Send Data Blocks.vi - rscmwc2s Query Event Log.vi - rscmwc2s Configure RX Quality Pilot Strength.vi - rscmwc2s Read RX Quality Pilot Strength Results.vi

rscmwc2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwc2s Read RX Quality Serving Frequency Power Results.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwc2s Configure Physical Layer Channel.vi - added QPCH Level - rscmwc2s Configure Network Call Indicators.vi - Caller ID parameter type changed from Integer to String - rscmwc2s Configure IQ Input.vi - Path range changed - rscmwc2s Configure Speech Service.vi - Delay range changed - rscmwc2s Configure Broadcast Message.vi - CMAS changed to WEA - rscmwc2s Query RX Quality RLP Throughput.vi - Changing TX and RX ranges * New attributes: <ul style="list-style-type: none"> - Code Channel QPCH Level (RSCMWC2S_ATTR_CODE_CHANNEL_QPCH_LEVEL) - Code Channel QPCH State (RSCMWC2S_ATTR_CODE_CHANNEL_QPCH_STATE) - Physical Layer PCH Channel (RSCMWC2S_ATTR_PHYSICAL_LAYER_PCH_CHANNEL) - Physical Layer PCH Level (RSCMWC2S_ATTR_PHYSICAL_LAYER_PCH_LEVEL) - Physical Layer PCH Rate (RSCMWC2S_ATTR_PHYSICAL_LAYER_PCH_RATE) - Physical Layer QPCH Channel (RSCMWC2S_ATTR_PHYSICAL_LAYER_QPCH_CHANNEL) - Physical Layer QPCH IBIT (RSCMWC2S_ATTR_PHYSICAL_LAYER_QPCH_IBIT) - Physical Layer QPCH Level (RSCMWC2S_ATTR_PHYSICAL_LAYER_QPCH_LEVEL) - Physical Layer QPCH Rate (RSCMWC2S_ATTR_PHYSICAL_LAYER_QPCH_RATE) - Network Broadcast Slot Cycle Index (RSCMWC2S_ATTR_NETWORK_BROADCAST_SLOT_CYCLE_INDEX) - Network Page Registered MS (RSCMWC2S_ATTR_NETWORK_PAGE_REGISTERED_MS) - SMS Broadcast WEA Messages (RSCMWC2S_ATTR_SMS_BROADCAST_WEA_MESSAGES) - RX Quality Pilot Strength Repetition (RSCMWC2S_ATTR_RX_QUALITY_PILOT_STRENGTH_REPETITION) - RX Quality Pilot Strength Update Rate (RSCMWC2S_ATTR_RX_QUALITY_PILOT_STRENGTH_UPDATE_RATE) - OTASP Receive Reset (RSCMWC2S_ATTR_OTASP_RECEIVE_RESET) - PDM Receive Reset (RSCMWC2S_ATTR_PDM_RECEIVE_RESET) - OTASP Send Method (RSCMWC2S_ATTR_OTASP_SEND_METHOD) - PDM Send Method (RSCMWC2S_ATTR_PDM_SEND_METHOD) * Modified attributes: <ul style="list-style-type: none"> - Data End To End State (RSCMWC2S_ATTR_DATA_END_TO_END_STATE) - SCPI command fixed - Network Caller ID (RSCMWC2S_ATTR_NETWORK_CALLER_ID) - Data type changed from ViInt32 to ViString * Modified Range Tables: <ul style="list-style-type: none"> - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_FCH - Enum name changed ("FCH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_FCH - Description changed ("FCH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_PCH - Enum name changed ("PCH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_PCH - Description changed ("PCH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_PICH - Enum name changed ("PICH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_PICH - Description changed ("PICH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_SYNC - Enum name changed ("SYNC", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_SYNC - Description changed ("SYNC", "")

rscmwc2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_OCNS - Enum name changed ("OCNS", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_OCNS - Description changed ("OCNS", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_SCH - Enum name changed ("SCH", "") - rscmwc2s_rngPhysicalChannel.RSCMWC2S_VAL_CHANNEL_SCH - Description changed ("SCH", "") - rscmwc2s_rngPhysicalChannel - New items: RSCMWC2S_VAL_CHANNEL_QPCH - rscmwc2s_rngPhysicalChannel - Changed enum name ("PhysicalChannel", "") - rscmwc2s_rngSpeechEchoDelay - RSCMWC2S_ATTR_LOOPBACK_SERVICE_SPEECH_ECHO_DELAY Range changed to <0.02;10.00> - rscmwc2s_rngSpeechEVRCRateRestriction.RSCMWC2S_VAL_SERVICE_SPEECH_RATE_RESTRICTION_AUTO - RSCMWC2S_ATTR_SPEECH_SERVICE_EVRC_RATE_RESTRICTION Description changed ("Auto", "") - rscmwc2s_rngSpeechEVRCRateRestriction.RSCMWC2S_VAL_SERVICE_SPEECH_RATE_RESTRICTION_FULL - RSCMWC2S_ATTR_SPEECH_SERVICE_EVRC_RATE_RESTRICTION Description changed ("Full", "") - rscmwc2s_rngSpeechEVRCRateRestriction.RSCMWC2S_VAL_SERVICE_SPEECH_RATE_RESTRICTION_HALF - RSCMWC2S_ATTR_SPEECH_SERVICE_EVRC_RATE_RESTRICTION Description changed ("Half", "") - rscmwc2s_rngSpeechEVRCRateRestriction.RSCMWC2S_VAL_SERVICE_SPEECH_RATE_RESTRICTION_QUARTER - RSCMWC2S_ATTR_SPEECH_SERVICE_EVRC_RATE_RESTRICTION Description changed ("Quarter", "") - rscmwc2s_rngSpeechEVRCRateRestriction.RSCMWC2S_VAL_SERVICE_SPEECH_RATE_RESTRICTION_EIGHTH - RSCMWC2S_ATTR_SPEECH_SERVICE_EVRC_RATE_RESTRICTION Description changed ("Eighth", "") - rscmwc2s_rngFadingSimulatorInsertionLossMode.RSCMWC2S_VAL_FADING_INSERTION_LOSS_MODE_NORMAL - RSCMWC2S_ATTR_FADING_SIMULATOR_INSERTION_LOSS_MODE Description changed ("Normal", "Normal: the insertion loss is determined by the fading profile.") - rscmwc2s_rngFadingSimulatorInsertionLossMode.RSCMWC2S_VAL_FADING_INSERTION_LOSS_MODE_USER - RSCMWC2S_ATTR_FADING_SIMULATOR_INSERTION_LOSS_MODE Description changed ("User", "User: the insertion loss can be adjusted by the user.") - rscmwc2s_rngFadingSimulatorRestartMode.RSCMWC2S_VAL_FADING_RESTART_MODE_AUTO - RSCMWC2S_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Auto", "Auto: fading automatically starts with the DL signal") - rscmwc2s_rngFadingSimulatorRestartMode.RSCMWC2S_VAL_FADING_RESTART_MODE_MANUAL - RSCMWC2S_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Manual", "Manual: fading is started and restarted manually.") - rscmwc2s_rngFadingSimulatorRestartMode.RSCMWC2S_VAL_FADING_RESTART_MODE_TRIGGER - RSCMWC2S_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Trigger", "Trigger: fading start is triggered by external trigger")
3.2.800	05/2014	* Update for firmware 3.2.800

rscmw2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> * New Subsystem - Internal Fading - Reconfigure * New: - rscmw2s Configure Speech Codec Enabled.vi - rscmw2s Query Active Scenario Fader.vi - rscmw2s Configure Signal Routing Standard Cell Fading.vi - rscmw2s Configure Signal Routing Standard Cell Fading External.vi - rscmw2s Configure IQ Input.vi - rscmw2s Configure Reverse Power Control Repetition.vi - rscmw2s Configure Reverse Power Control Run Sequence.vi - rscmw2s Configure MS Info ESN.vi - rscmw2s Configure MS Info MEID.vi - rscmw2s Configure Broadcast Message.vi - rscmw2s Configure RX Quality Remote Display.vi - rscmw2s Query RX Quality Speech Data Frame Percent.vi * Updated: - rscmw2s Query Signal Routing.vi - API changed (IQ added) - rscmw2s Query Active Scenario.vi - SCF added - rscmw2s Configure Hybrid Mode.vi - Connectors values changed - rscmw2s Query Physical Layer SCH Data Rate.vi - 14 kbps to 230 kbps - rscmw2s Configure Reverse Power Control.vi - Pattern
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware 3.2.100 * New: - rscmw2s Query Active Scenario.vi - rscmw2s Configure Speech Codec State.vi - rscmw2s Configure Hybrid Mode.vi - rscmw2s Configure Enhanced Variable Rate Codec.vi - rscmw2s Query Voice Coder Type.vi - rscmw2s Fetch RX Quality RLP Status.vi - Results Speech * Updated: - rscmw2s Query Signal Routing.vi - rscmw2s Configure Physical Layer.vi - rscmw2s Configure Speech Service.vi - rscmw2s Configure RX Quality RLP Update Rate.vi - rscmw2s Configure RX Quality Evaluation Results State.vi - rscmw2s Reset RX Quality Measurement RLP Statistics.vi * Deleted: - rscmw2s Configure Single SUU Hybrid Mode.vi
3.0.200	04/2013	<ul style="list-style-type: none"> * Update for firmware version 3.0.20 * New: - rscmw2s Configure Single SUU Hybrid Mode.vi - rscmw2s Configure System Time Leap Seconds.vi - rscmw2s Configure Daylight Savings Time Indicator State.vi - rscmw2s Configure local Time Offset.vi - rscmw2s Query Local Time Offset.vi - rscmw2s Configure Physical Layer SCH Frame Offset.vi - rscmw2s Query Physical Layer DSSS Walsh Code.vi - rscmw2s Configure Physical Layer SCH Error Correcting Code.vi - rscmw2s Configure Physical Layer SCH Multiplex PDU Number.vi - rscmw2s Configure Physical Layer SCH Frame Type.vi - rscmw2s Query Physical Layer SCH Data Rate.vi

rscmwc2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwc2s Query Physical Layer SCH Frame Size.vi - rscmwc2s Configure Accept Packet Calls.vi - rscmwc2s Configure Data Service Circular Buffer Frames.vi - rscmwc2s Configure Data Service Channel Pattern Generation.vi - rscmwc2s Configure Data Service Channel Pattern.vi - rscmwc2s Configure Data Service Transmission Off Period.vi - rscmwc2s Configure Data Service Transmission On Period.vi - rscmwc2s Configure Packet Data Service Inactivity Timer.vi - rscmwc2s Configure Packet Data Service dormant Timer.vi - rscmwc2s Configure MS Service Option Control Message State.vi - rscmwc2s Configure Network System Windows Settings.vi - rscmwc2s Configure Network IMSI.vi - rscmwc2s Configure Wildcard Broadcasting.vi - rscmwc2s Query Supplemental Channel Data Rate.vi - rscmwc2s Query MS Info IP Address.vi - rscmwc2s Clear Received Message Info.vi - rscmwc2s Configure RX Quality RLP Measurement Control.vi - rscmwc2s Configure RX Quality RLP Update Rate.vi - rscmwc2s Query RX Quality Main Measurement Status.vi - rscmwc2s Configure RX Quality Evaluation Results State.vi
		<ul style="list-style-type: none"> - rscmwc2s RX Quality RLP Measurement Init.vi - rscmwc2s RX Quality RLP Measurement Abort.vi - rscmwc2s RX Quality RLP Measurement Stop.vi - rscmwc2s Query RX Quality RLP Measurement Status.vi - rscmwc2s Read RX Quality Forward Supplemental Channel.vi - rscmwc2s Fetch RX Quality Forward Supplemental Channel.vi - rscmwc2s Query RX Quality Forward Supplemental Channel Limit Check Results.vi - rscmwc2s Fetch RX Quality Forward Supplemental Channel Measurement Status.vi - rscmwc2s Reset RX Quality Measurement RLP Statistics.vi - rscmwc2s Query RX Quality RLP Data Frame Number.vi - rscmwc2s Query RX Quality RLP Throughput.vi * Updated - rscmwc2s Configure Routing.vi - rscmwc2s Query Signal Routing.vi - rscmwc2s Configure Physical Layer.vi - rscmwc2s Configure Physical Layer Channel.vi (New channel, attribute, and command are added) - rscmwc2s Read Rx Quality Results.vi (New value is added to the results array) - rscmwc2s Fetch Rx Quality Results.vi (New value is added to the results array) - rscmwc2s Query Rx Quality Limit Check Results.vi (New value is added to the results array) * Modified - rscmwc2s Query Physical Layer Channel Eb Nt.vi (New command,control,attribute are added) - rscmwc2s Configure Walsh Code Qof.vi (New command,control are added) - rscmwc2s Query Multiplied Options.vi (New command,control are added) - rscmwc2s Configure RX Quality Measurement Timeout.vi (New command, Repeated capability, and control are added) - rscmwc2s Configure RX Quality Measurement Control Settings.vi (New command, Repeated capability, and control are added) - rscmwc2s Configure RX Quality Measurement Mfer Limits.vi (New command, Repeated capability, and control are added) - rscmwc2s Configure RX Quality Measurement Min Confidence Level Limits.vi (New command, Repeated capability, and control are added) - rscmwc2s RX Quality Measurement Init.vi (New command, Repeated capability, and control are added)

rscmw2s driver for CDMA2000 Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmw2s RX Quality Measurement Abort.vi (New command, Repeated capability, and control are added) - rscmw2s RX Quality Measurement Stop.vi (New command, Repeated capability, and control are added) - rscmw2s Query RX Quality Measurement Status.vi (New command, and control are added)
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.10 * New: <ul style="list-style-type: none"> - rscmw2s Configure Data End To End State.vi - rscmw2s Configure Time Settings.vi - rscmw2s Configure Time.vi - rscmw2s Configure Date.vi - rscmw2s Configure Message Monitoring.vi - rscmw2s Configure RX Quality Measurement Timeout.vi * Modified <ul style="list-style-type: none"> - rscmw2s Configure RF Signal Frequency.vi - attribute order changed - rscmw2s RX Quality Measurement Init.vi - Command changed - rscmw2s RX Quality Measurement Abort.vi - Command changed - rscmw2s RX Quality Measurement Stop.vi - Command changed - rscmw2s Query RX Quality Measurement Status.vi - Command changed
2.1.101	02/2012	<p>Modifications:</p> <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.100	07/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Compatibility with CMW cdma2000 signaling version 2.1.10.16 * Added <ul style="list-style-type: none"> - RSCMWC2S_ATTR_NETWORK_PROTOCOL_REVISION - RSCMWC2S_ATTR_NETWORK_MIN_PROTOCOL_REVISION * Modified <ul style="list-style-type: none"> - rscmw2s Configure Network System Parameters.vi - added Protocol Revision, Min Protocol Revision - rscmw2s Configure Network Access Probes.vi - removed Sequences Attempt
2.0.110	04/2011	<p>Modifications:</p> <ul style="list-style-type: none"> * Compatibility with CMW cdma2000 signaling version 2.0.11.xx * Added features <ul style="list-style-type: none"> - Messaging * Added <ul style="list-style-type: none"> - rscmw2s Configure Routing.vi - rscmw2s Query Signal Routing.vi - RSCMWC2S_ATTR_MOBILE_COUNTRY_CODE - rscmw2s Configure MS Capabilities Report.vi * Modified <ul style="list-style-type: none"> - rscmw2s Configure Network Mobile ID.vi - mobile ID data type changed to string, removed Registration Data, added Mobile Country Code * Removed <ul style="list-style-type: none"> - rscmw2s Configure RF Signal Routing.vi - RSCMWC2S_ATTR_MOBILE_USE_REGISTRATION_DATA - rscmw2s Query Network Mobile Registration Data.vi
1.0.150	01/2010	<p>Release for CMW firmware version 1.0.15.0</p> <p>Initial revision</p>

9 RScmwEVM - 1xEVDO Measurement (3.7.100)

rscmwvm driver for 1xEVDO Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.100	02/2018	<ul style="list-style-type: none"> * Update for firmware 3.7.10 * Code improvement
3.5.600	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams
3.5.500	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.50 * Added <ul style="list-style-type: none"> - rscmwvm Clear Status.vi - rscmwvm ID Query Response.vi - rscmwvm Process All Previous Commands.vi - rscmwvm QueryOPC.vi - rscmwvm Bin Data From File To Instrument.vi - rscmwvm Bin Data To File From Instrument.vi * Updated: <ul style="list-style-type: none"> - rscmwvm Configure Analyzer Channel.vi - new items in 'Band' (BC20, BC21) - rscmwvm Query Analyzer Routing Settings.vi - new items in 'RX Connector' (values 6 and higher) - rscmwvm Configure Analyzer Stand Alone Scenario.vi - new items in 'RX Connector' (values 6 and higher)
3.5.110	09/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.11 * Updated: <ul style="list-style-type: none"> - rscmwvm Configure MEval Measurement List Mode Segment.vi - rscmwvm Configure Multi Eval Measurement List Mode Modulation Results.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware 3.5.10 * New VIs: <ul style="list-style-type: none"> - rscmwvm Configure MEval Measurement List Mode Segment Connector.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwvm Query Analyzer Routing Settings.vi - values added to parameter 'RX Connector' - rscmwvm Configure Analyzer Remote Display.vi - SCPI command parameter fixed * New attributes: <ul style="list-style-type: none"> - Multi Eval Measurement Trigger Delay (RSCMWEVM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_DELAY) - Multi Eval Measurement List Mode Segment CMWS Connector (RSCMWEVM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_MODE_SEGMENT_CMWS_CONNECTOR) * Modified Range Tables: <ul style="list-style-type: none"> - rscmwvm_rngTrigTimeout - RSCMWEVM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT Range changed to <0;83.88607E+3> - rscmwvm_rngTrigTimeout - RSCMWEVM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT Changed units ("s", "ms") - rscmwvm_rngRemoteDisplay.RSCMWEVM_VAL_REMOTE_DISPLAY_MEV - RSCMWEVM_ATTR_ANALYZER_REMOTE_DISPLAY Command changed ("MEVA", "MEV")
3.2.800	05/2014	<ul style="list-style-type: none"> * Update for firmware 3.2.800 * New:

rscmwvm driver for 1xEVDO Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwvm Configure Analyzer Remote Display.vi - rscmwvm Configure Analyzer Remote Display.vi - rscmwvm Configure Multi Eval ACP Frequency Lower RBW.vi - rscmwvm Configure Multi Eval ACP Frequency Upper RBW.vi - rscmwvm Configure Multi Eval ACP Frequency Lower Offset Extended.vi - rscmwvm Configure Multi Eval ACP Frequency Upper Offset Extended.vi - rscmwvm Configure Multi Eval ACP Frequency Lower RBW Extended.vi - rscmwvm Configure Multi Eval ACP Frequency Upper RBW Extended.vi - rscmwvm Configure Multi Eval Limits Carrier Lower Absolute.vi - rscmwvm Configure Multi Eval Limits Carrier Upper Absolute.vi - rscmwvm Configure Multi Eval Limits Carrier Lower Extended.vi - rscmwvm Configure Multi Eval Limits Carrier Upper Extended.vi - rscmwvm Configure Multi Eval Limits Carrier Lower Absolute Extended.vi - rscmwvm Configure Multi Eval Limits Carrier Upper Absolute Extended.vi - rscmwvm Read Multi Eval IQ Trace.vi - rscmwvm Fetch Multi Eval IQ Trace.vi - rscmwvm Read Multi Eval ACP Trace Absolute.vi - rscmwvm Fetch Multi Eval ACP Trace Absolute.vi - rscmwvm Query Multi Eval ACP Trace Limit Check Results Absolute.vi - rscmwvm Read Multi Eval ACP Trace Extended.vi - rscmwvm Fetch Multi Eval ACP Trace Extended.vi - rscmwvm Query Multi Eval ACP Trace Limit Check Results Extended.vi - rscmwvm Read Multi Eval ACP Trace Absolute Extended.vi - rscmwvm Fetch Multi Eval ACP Trace Absolute Extended.vi - rscmwvm Query Multi Eval ACP Trace Limit Check Results Absolute Extended.vi - rscmwvm Fetch Multi Eval List Mode ACP Extended Results.vi - rscmwvm Query Multi Eval List Mode ACP Limits Check Extended Results.vi - rscmwvm Fetch Multi Eval List Mode ACP Standard Deviation Extended.vi - rscmwvm Query Multi Eval List Mode ACP Standard Deviation Limits Check Extended.vi - rscmwvm Fetch Multi Eval List Mode All ACP Extended Results.vi - rscmwvm Query Multi Eval List Mode All ACP Limits Check Extended Results.vi - rscmwvm Fetch Multi Eval List Mode All ACP Standard Deviation Extended.vi - rscmwvm Query Multi Eval List Mode All ACP Standard Deviation Limits Check Extended.vi - rscmwvm Fetch Multi Eval List Mode All ACP Off Center Extended Results.vi - rscmwvm Query Multi Eval List Mode All ACP Off Center Limits Check Extended Results.vi * Deleted - rscmwvm Configure Multi Eval Measurement List Mode ACP Frequency Offsets.vi * Fixed: - rscmwvm Fetch Multi Eval List Mode ACP Results.vi - results parsing - rscmwvm Fetch Multi Eval List Mode ACP Standard Deviation.vi - results parsing - rscmwvm Query Multi Eval List Mode ACP Limits Check Results.vi - results parsing - rscmwvm Query Multi Eval List Mode ACP Standard Deviation Limits Check.vi - results parsing - rscmwvm Query Multi Eval List Mode ACP Limits Check Results.vi - wrong command - rscmwvm Query Multi Eval List Mode ACP Standard Deviation Limits Check.vi - wrong command
3.2.100	09/2013	<p>Update for firmware version 3.2.100</p> <p>* New:</p> <ul style="list-style-type: none"> - rscmwvm Query Multi Eval Meas ACP Trace Limit Check Results.vi - rscmwvm Query Multi Eval Meas Occupied Bandwidth Trace Limits Check Result.vi - rscmwvm Query Multi Eval Meas List Mode All Reliability Limits Check Result.vi - rscmwvm Query OLTR Measurement Guard Interval Time.vi - rscmwvm Configure OLTR Initial Lower Limit.vi - rscmwvm Query OLTR Trace State Limits Check Results.vi <p>* Updated:</p>

rscmwvm driver for 1xEVDO Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		- rscmwvm Query Analyzer Routing Settings.vi
3.0.200	04/2013	<ul style="list-style-type: none"> * Update for firmware version 3.0.20 * New: <ul style="list-style-type: none"> - rscmwvm Read OLTR Trace State.vi - rscmwvm Fetch OLTR Trace State.vi * Updated: <ul style="list-style-type: none"> - rscmwvm Configure Analyzer Stand Alone Scenario.vi - rscmwvm Fetch Multi Eval List Mode OBW Results.vi - rscmwvm Query Multi Eval List Mode OBW Limits Check Results.vi - rscmwvm Fetch Multi Eval List Mode OBW Standard Deviation.vi - rscmwvm Query Fetch Multi Eval List Mode OBW Standard Deviation Limits Check.vi - rscmwvm Fetch Multi Eval List Mode All OBW Results.vi - rscmwvm Query Multi Eval List Mode All OBW Limits Check Results.vi - rscmwvm Fetch Multi Eval List Mode All OBW Standard Deviation.vi - rscmwvm Query Fetch Multi Eval List Mode All OBW Standard Deviation Limits Check.vi
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Version 3.0.120 * New: <ul style="list-style-type: none"> - rscmwvm Configure Multi Eval Measurement Trigger Offset.vi - rscmwvm Configure OLTR Measurement.vi - rscmwvm Fetch Multi Eval Code Domain Pilot Trace Limits Check Results.vi - rscmwvm Fetch Multi Eval List Mode All ACP Off Center Results.vi - rscmwvm Fetch Multi Eval List Mode All ACP Out Of Tolerance Results.vi - rscmwvm Fetch Multi Eval List Mode All ACP Specific Results.vi - rscmwvm Fetch Multi Eval List Mode All ACP Statistic Count Results.vi - rscmwvm Fetch Multi Eval List Mode All DWC Power Specific Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation CFE Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation EVM Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation IQ Imbalance Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation IQ Origin Offset Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation Magnitude Error Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation MS Power Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation Out Of Tolerance Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation Phase Error Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation Statistic Count Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation TTE Results.vi - rscmwvm Fetch Multi Eval List Mode All Modulation Waveform Quality Results.vi - rscmwvm Fetch Multi Eval List Mode All OBW Frequencis Results.vi - rscmwvm Fetch Multi Eval List Mode All OBW Specific Limits Check Results.vi - rscmwvm Fetch Multi Eval List Mode All OBW Specific Results.vi - rscmwvm Fetch Multi Eval List Mode All Reliability Results.vi - rscmwvm Fetch Multi Eval List Mode All Specific Channel Power Results.vi - rscmwvm Fetch Multi Eval List Mode All Specific Channel Power State.vi - rscmwvm Fetch OLTR Trace.vi - rscmwvm Instrument Status Checking.vi - rscmwvm OLTR Measurement Abort.vi - rscmwvm OLTR Measurement Init.vi - rscmwvm OLTR Measurement Stop.vi - rscmwvm Option Checking.vi - rscmwvm Query Multi Eval Code Domain RRI Trace Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All ACP Off Center Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All ACP Specific Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All DWC Power Specific Limits Check Results.vi

rscmwvm driver for 1xEVDO Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwvm Query Multi Eval List Mode All Modulation CFE Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation EVM Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation IQ Imbalance Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation IQ Origin Offset Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation Magnitude Error Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation MS Power Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation Phase Error Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation TTE Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Modulation Waveform Quality Limits Check Results.vi - rscmwvm Query Multi Eval List Mode All Specific Channel Power Limit Check Results.vi - rscmwvm Query OLTR Measurement Reference Power Interval Time.vi - rscmwvm Query OLTR Measurement Repetition.vi - rscmwvm Query OLTR Measurement Status.vi - rscmwvm Read OLTR Trace.vi * Removed: - rscmwvm Query Analyzer Used Scenario.vi
2.1.251	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.250	11/2011	Release for CMW firmware version 2.1.25.xx Modificaitons: New VIs/Attributes: rscmwvm Configure RF Carrier Channel.vi rscmwvm Query RF Carrier Link Frequency.vi rscmwvm Configure RF Carrier Power Level.vi rscmwvm Configure RF Carrier Pilot State.vi rscmwvm Query RF Carrier Pilot AT State.vi rscmwvm Configure Forward Traffic Channel B Packet Type.vi rscmwvm Query Forward Traffic Channel B.vi rscmwvm Query Forward Traffic Channel B Loopback.vi rscmwvm Configure ACK Traffic Channel B.vi rscmwvm Query ACK Traffic Channel B.vi rscmwvm Configure Reverse Traffic Channel B Index.vi rscmwvm Query Reverse Traffic Channel B Packet Size.vi rscmwvm Query Carrier Status.vi rscmwvm Query Long Code Mask.vi rscmwvm Configure Handoff Carrier Target.vi rscmwvm Query Handoff Carrier Link Frequency.vi rscmwvm Configure Handoff Carrier Pilot States.vi rscmwvm Configure RX Quality Selected Carrier For Results.vi rscmwvm Configure RX Quality Measurement Repetition.vi rscmwvm Configure RX Quality PER Measurement Stop Condition.vi rscmwvm Configure RX Quality Forward PER Measurement Sent Packets.vi rscmwvm Configure RX Quality Reverse PER Measurement Sent Packets.vi rscmwvm Configure RX Quality Throughput Measurement Frames.vi rscmwvm Configure RX Quality Carrier Evaluation.vi rscmwvm Read RX Quality Reverse Link PER Results.vi rscmwvm Fetch RX Quality Reverse Link PER Results.vi rscmwvm Query RX Quality Reverse Link PER Limit Check Results.vi rscmwvm Fetch RX Quality Reverse Link PER Measurement Status.vi rscmwvm Read RX Quality Reverse Link Performance Results.vi rscmwvm Fetch RX Quality Reverse Link Performance Results.vi rscmwvm Query RX Quality Reverse Link Performance Limit Check Results.vi

rscmwvm driver for 1xEVDO Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100

Revision	Date	Note
		rscmwvs Fetch RX Quality Reverse Link Performance Measurement Status.vi RSCMWEVS_ATTR_RF_CARRIER_SETTING RSCMWEVS_ATTR_RF_CARRIER_CHANNEL RSCMWEVS_ATTR_RF_CARRIER_CHANNEL_OFFSET RSCMWEVS_ATTR_RF_CARRIER_FORWARD_LINK_FREQUENCY RSCMWEVS_ATTR_RF_CARRIER_REVERSE_LINK_FREQUENCY RSCMWEVS_ATTR_RF_CARRIER_POWER_LEVEL RSCMWEVS_ATTR_RF_CARRIER_PILOT_SETTING RSCMWEVS_ATTR_RF_CARRIER_ACTIVE_ON_AN RSCMWEVS_ATTR_RF_CARRIER_ASSIGNED_TO_AT RSCMWEVS_ATTR_RF_CARRIER_PILOT_AT_STATE RSCMWEVS_ATTR_LAYER_FORWARD_TRAFFIC_CHANNEL_B_PACKET_TYPE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_INDEX RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_PACKET_SIZE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_DATA_RATE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_SLOTS RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_LOOPBACK_ENABLE RSCMWEVS_ATTR_LAYER_ACK_TRAFFIC_CHANNEL_B RSCMWEVS_ATTR_QUERY_LAYER_ACK_TRAFFIC_CHANNEL_B RSCMWEVS_ATTR_LAYER_ACK_CHANNEL_B_MIN_INDEX RSCMWEVS_ATTR_LAYER_ACK_CHANNEL_B_MAX_INDEX RSCMWEVS_ATTR_LAYER_RMCTAP_MIN_PACKET_SIZE RSCMWEVS_ATTR_LAYER_RMCTAP_MAX_PACKET_SIZE RSCMWEVS_ATTR_QUERY_ACTIVE_FORWARD_LINK_CARRIERS RSCMWEVS_ATTR_QUERY_ACTIVE_REVERSE_LINK_CARRIERS RSCMWEVS_ATTR_QUERY_LONG_CODE_MASK_I RSCMWEVS_ATTR_QUERY_LONG_CODE_MASK_Q RSCMWEVS_ATTR_HANDOFF_CARRIER_CHANNEL_TARGET RSCMWEVS_ATTR_HANDOFF_CHANNEL_OFFSET RSCMWEVS_ATTR_HANDOFF_FORWARD_LINK_FREQUENCY RSCMWEVS_ATTR_HANDOFF_REVERSE_LINK_FREQUENCY RSCMWEVS_ATTR_HANDOFF_PILOT_ACTIVE_ON_AN RSCMWEVS_ATTR_HANDOFF_PILOT_ASSIGNED_TO_AT RSCMWEVS_ATTR_RX_QUALITY_SELECT_CARRIER_FOR_RESULTS RSCMWEVS_ATTR_RX_QUALITY_PER_REPETITION RSCMWEVS_ATTR_RX_QUALITY_THROUGHPUT_REPETITION RSCMWEVS_ATTR_RX_QUALITY_UPDATE_PERIOD RSCMWEVS_ATTR_RX_QUALITY_LINK_STOP_CONDITION RSCMWEVS_ATTR_RX_QUALITY_FORWARD_MAX_TEST_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_REVERSE_MAX_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_FORWARD_LINK_PERFORMANCE_MAX_FRAMES RSCMWEVS_ATTR_RX_QUALITY_REVERSE_LINK_PERFORMANCE_MAX_FRAMES RSCMWEVS_ATTR_RX_QUALITY_EVALUATION_DECISION RSCMWEVS_ATTR_RX_QUALITY_ASSIGN_VIEWS_REVERSE_LINK_PER RSCMWEVS_ATTR_RX_QUALITY_ASSIGN_VIEWS_REVERSE_LINK_PERFORMANCE Modified VIs/Attributes: rscmwvs GetError rscmwvs CheckStatusCallback rscmwvs ConfigureRFCarrierPilotState rscmwvs ConfigureForwardTrafficChannel rscmwvs ConfigureNetworkSystemParameters rscmwvs ConfigureNetworkAccessProperties rscmwvs ConfigureRXQualityMeasurementResults rscmwvs ConfigureRXQualityMeasurementLimits

rscmwvm driver for 1xEVDO Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		rscmwvs RXQualityMeasurementInit rscmwvs RXQualityMeasurementAbort rscmwvs RXQualityMeasurementStop rscmwvs QueryRXQualityMeasurementStatus rscmwvs ReadRXQualityForwardLinkPERResults rscmwvs FetchRXQualityForwardLinkPERResults rscmwvs QueryRXQualityForwardLinkPERLimitCheckResults rscmwvs ReadRXQualityForwardLinkPerformanceResults rscmwvs FetchRXQualityForwardLinkPerformanceResults rscmwvs QueryRXQualityForwardLinkPerformanceLimitCheckResults Deleted VIs/Attributes: rscmwvs Configure RX Quality Measurement Control Settings RSCMWEVS_ATTR_RX_QUALITY_REPETITION RSCMWEVS_ATTR_RX_QUALITY_STOP_CONDITION RSCMWEVS_ATTR_RX_QUALITY_MAX_TEST_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_MAX_FRAMES
2.0.110	02/2011	Release for CMW firmware version 2.0.10 Modifications: New VIs/Attributes: rscmwvs Configure Routing.vi rscmwvs Query Signal Routing.vi rscmwvs Query RF Signal Active Scenario.vi Removed VIs/attributes: rscmwvs Configure RF Input Signal Routing.vi rscmwvs Configure RF Output Signal Routing.vi rscmwvs Query RF Signal Active Scenario.vi RSCMWEVS_ATTR_RF_INPUT_CONNECTOR RSCMWEVS_ATTR_RF_OUTPUT_CONNECTOR
1.0.150	10/2010	Release for CMW firmware version 1.0.10.1 Initial Release

10 RScmwEVS - 1xEVDO Signaling (3.7.100)

rscmwEVS driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.100	02/1018	<ul style="list-style-type: none"> * Update for firmware 3.7.10 * Code improvement * Exchanged Driver Core 6.9.0 that supports Simulation mode and Logging * rscmwEVS Initialize.vi, rscmwEVS Initialize with Options.vi, rscmwEVS Close.vi and Utility VIs have new VI icons
3.5.610	03/2017	<p>Update for firmware version 3.5.610</p> <p>All VISA resource name inputs are mandatory</p> <p>Changed Icons strip color to blue for measurement drivers and orange for signaling drivers</p> <p>Changed Palette Icons</p> <p>Cleaned up all the Front Panels</p> <p>New VIs:</p> <ul style="list-style-type: none"> rscmwEVS Configure Reverse Power Control Repetition.vi rscmwEVS Configure Reverse Power Control Segment.vi rscmwEVS Configure RX Quality Measurement Timeout.vi rscmwEVS Start Reverse Power Control.vi
3.5.500	11/2016	<p>Update for firmware version 3.5.500</p> <p>New VIs:</p> <ul style="list-style-type: none"> rscmwEVS Configure Hybrid Mode Lite.vi rscmwEVS Configure External DAU.vi rscmwEVS Configure MAC Layer T2P Value Optimization.vi rscmwEVS Query eHRPD.vi rscmwEVS Query Max Reverse Bandwidth.vi rscmwEVS Query Event Log Last Entry.vi rscmwEVS Query Event Log All Entries.vi rscmwEVS Clear Status.vi rscmwEVS ID Query Response.vi rscmwEVS Process All Previous Commands.vi rscmwEVS Query OPC.vi rscmwEVS Bin Data From File To Instrument.vi rscmwEVS Bin Data To File From Instrument.vi <p>Updated VIs:</p> <ul style="list-style-type: none"> rscmwEVS Configure Handoff Target.vi - new items in 'Destination Band Class' (BC20, BC21) rscmwEVS Configure 1xEVDO And CDMA Neighbor Cells.vi - new items in 'Band Class' (BC20, BC21) rscmwEVS Configure RF Signal Frequency.vi - new items in 'Band Class' (BC20, BC21) rscmwEVS Query RF Signal Active Scenario.vi - new item in 'Scenario' (Hybrid Mode Lite) rscmwEVS Query RF Signal Active Scenario Fader.vi - new item in 'Scenario' (Hybrid Mode Lite) rscmwEVS Query Signal Routing.vi - new items in 'RX Connector' (values 9 and higher), 'TX Connector' (values 9 and higher), 'IQ Output Connector' (values 4 and higher), 'RX Converter' (values 4 and higher), 'TX Converter' (values 4 and higher) rscmwEVS Configure Routing.vi - new items in 'RF Input Connector' (values 9 and higher), 'RF Output Connector' (values 9 and higher), 'RF Input Converter' (values 4 and higher), 'RF Output Converter' (values 4 and higher) rscmwEVS Configure Hybrid Mode.vi - new items in 'RF Input Connector' (values 9 and higher), 'RF Output Connector' (values 9 and higher), 'RF Input Converter' (values 4 and higher), 'RF Output Converter' (values 4 and higher) rscmwEVS_Configure Signal Routing Standard Cell Fading.vi - new items in 'RF Input Connector' (values 9 and higher), 'RF Output Connector' (values 9 and higher), 'RF Input Converter' (values 4 and higher), 'RF Output Converter' (values 4 and higher)

rscmwevs driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<p>rscmwevs Configure Signal Routing Standard Cell Fading External.vi - new items in 'RF Input Connector' (values 9 and higher), 'RF Output Connector' (values 9 and higher), 'RF Input Converter' (values 4 and higher), 'RF Output Converter' (values 4 and higher), 'IQ Output Connector' (values 4 and higher)</p> <p>Deleted VIs: rscmwevs Configure Packet Data Serving Node.vi</p>
3.5.100	03/2015	<p>Update for firmware version 3.5.10</p> <p>New VIs: rscmwevs Query IQ Output.vi</p> <p>Updated VIs: rscmwevs Configure IQ Input.vi - range changed at parameter 'Path' rscmwevs Configure RF Carrier Power Level.vi - range changed at parameter 'Level'</p> <p>Modified Range Tables: rscmwevs_rngRF_Carrier_Power_Level - RSCMWEVS_ATTR_RF_CARRIER_POWER_LEVEL Range changed to <-180.0;90></p> <p>rscmwevs_rngFadingSimulatorInsertionLossMode.RSCMWEVS_VAL_FADING_INSERTION_LOSS_MODE_NORMAL - RSCMWEVS_ATTR_FADING_SIMULATOR_INSERTION_LOSS_MODE Description changed ("Normal", "Normal: the insertion loss is determined by the fading profile.")</p> <p>rscmwevs_rngFadingSimulatorInsertionLossMode.RSCMWEVS_VAL_FADING_INSERTION_LOSS_MODE_USER - RSCMWEVS_ATTR_FADING_SIMULATOR_INSERTION_LOSS_MODE Description changed ("User", "User: the insertion loss can be adjusted by the user.")</p> <p>rscmwevs_rngFadingSimulatorRestartMode.RSCMWEVS_VAL_FADING_RESTART_MODE_AUTO - RSCMWEVS_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Auto", "Auto: fading automatically starts with the DL signal")</p> <p>rscmwevs_rngFadingSimulatorRestartMode.RSCMWEVS_VAL_FADING_RESTART_MODE_MANUAL - RSCMWEVS_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Manual", "Manual: fading is started and restarted manually.")</p> <p>rscmwevs_rngFadingSimulatorRestartMode.RSCMWEVS_VAL_FADING_RESTART_MODE_TRIGGER - RSCMWEVS_ATTR_FADING_SIMULATOR_RESTART_MODE Description changed ("Trigger", "Trigger: fading start is triggered by external trigger")</p> <p>2014-06-04, Stanislav</p>
3.2.800	06/2014	<p>New Subsystems: Internal Fading</p> <p>New: rscmwevs Query RF Signal Active Scenario Fader.vi rscmwevs Configure Signal Routing Standard Cell Fading.vi rscmwevs Configure Signal Routing Standard Cell Fading External.vi rscmwevs Configure IQ Input.vi rscmwevs Configure Neighbor Cell.vi rscmwevs Configure LTE Neighbor Cells TreshX.vi rscmwevs Configure Test Application Preferred Packet Mode.vi rscmwevs Query RX Power.vi rscmwevs Query Negotiated Mode.vi rscmwevs Configure Test ESN.vi rscmwevs Configure Test MEID.vi rscmwevs Configure RX Quality Remote Display.vi</p> <p>Updated: rscmwevs Query Signal Routing.vi - API changed (IQ output added) rscmwevs Query RF Signal Active Scenario.vi - SCF added</p>
3.2.100	09/2013	<p>New: rscmwevs Configure Hybrid Mode.vi rscmwevs Configure Packet Data Serving Node.vi</p> <p>Updated:</p>

rscmwevs driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		rscmwevs Configure Reverse Power Control.vi rscmwevs Query Signal Routing.vi rscmwevs Configure RF Carrier Channel.vi rscmwevs Configure Network Access Properties.vi rscmwevs Configure LTE Neighbor Cells.vi rscmwevs Configure Handoff Carrier Target.vi Removed: rscmwevs Configure Signaling Universal Unit Hybrid Mode State.vi
3.0.200	04/2013	*Update for firmware version 3.0.20 *New: - rscmwevs Configure Signaling Universal Unit Hybrid Mode State.vi - rscmwevs Configure Leap Second Correction.vi - rscmwevs Configure Local Time Offset.vi - rscmwevs Query Local Time Offset.vi - rscmwevs Configure All Neighbor Cell Low Threshold.vi - rscmwevs Configure Neighbor Cell Low Threshold.vi - rscmwevs Configure 1xEVDO and CDMA Neighbor Cells.vi - rscmwevs Configure LTE Neighbor Cells.vi - rscmwevs Query Data Application Unit IP Address.vi - rscmwevs Configure RX Quality Data RLP Table Results State.vi *Updated: - rscmwevs Configure Routing
3.0.120	06/2012	Modifications: Update for firmware version 3.0.10 New subsystem Data Results Subsystem New: rscmwevs Configure Data End To End State.vi rscmwevs Configure Time Settings.vi rscmwevs Configure Time.vi rscmwevs Configure Date.vi rscmwevs Configure Reverse Traffic Termination Target.vi rscmwevs Configure Packet Preferred Application.vi rscmwevs Configure Network Security Settings.vi rscmwevs Configure Message Monitoring.vi rscmwevs Query Packet Data State.vi rscmwevs Query Test Application Information.vi rscmwevs Query Inter RAT.vi rscmwevs Query Active Application.vi rscmwevs Fetch RX Quality Forward Link PER Measurement Carrier Status.vi rscmwevs Fetch RX Quality Forward Link Performance Measurement Carrier Status.vi rscmwevs Fetch RX Quality Reverse Link PER Measurement Carrier Status.vi rscmwevs Fetch RX Quality Reverse Link Performance Measurement Carrier Status.vi Modified rscmwevs Configure Test Application.vi - command changed, Packet mode added
2.1.251	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.250	11/2011	Release for CMW firmware version 2.2.25.xx New VIs/Attributes: rscmwevs Configure RF Carrier Channel.vi rscmwevs Query RF Carrier Link Frequency.vi

rscmwevs driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		rscmwevs Configure RF Carrier Power Level.vi rscmwevs Configure RF Carrier Pilot State.vi rscmwevs Query RF Carrier Pilot AT State.vi rscmwevs Configure Forward Traffic Channel B Packet Type.vi rscmwevs Query Forward Traffic Channel B.vi rscmwevs Query Forward Traffic Channel B Loopback.vi rscmwevs Configure ACK Traffic Channel B.vi rscmwevs Query ACK Traffic Channel B.vi rscmwevs Configure Reverse Traffic Channel B Index.vi rscmwevs Query Reverse Traffic Channel B Packet Size.vi rscmwevs Query Carrier Status.vi rscmwevs Query Long Code Mask.vi rscmwevs Configure Handoff Carrier Target.vi rscmwevs Query Handoff Carrier Link Frequency.vi rscmwevs Configure Handoff Carrier Pilot States.vi rscmwevs Configure RX Quality Selected Carrier For Results.vi rscmwevs Configure RX Quality Measurement Repetition.vi rscmwevs Configure RX Quality PER Measurement Stop Condition.vi rscmwevs Configure RX Quality Forward PER Measurement Sent Packets.vi rscmwevs Configure RX Quality Reverse PER Measurement Sent Packets.vi rscmwevs Configure RX Quality Throughput Measurement Frames.vi rscmwevs Configure RX Quality Carrier Evaluation.vi rscmwevs Read RX Quality Reverse Link PER Results.vi rscmwevs Fetch RX Quality Reverse Link PER Results.vi rscmwevs Query RX Quality Reverse Link PER Limit Check Results.vi rscmwevs Fetch RX Quality Reverse Link PER Measurement Status.vi rscmwevs Read RX Quality Reverse Link Performance Results.vi rscmwevs Fetch RX Quality Reverse Link Performance Results.vi rscmwevs Query RX Quality Reverse Link Performance Limit Check Results.vi rscmwevs Fetch RX Quality Reverse Link Performance Measurement Status.vi RSCMWEVS_ATTR_RF_CARRIER_SETTING RSCMWEVS_ATTR_RF_CARRIER_CHANNEL RSCMWEVS_ATTR_RF_CARRIER_CHANNEL_OFFSET RSCMWEVS_ATTR_RF_CARRIER_FORWARD_LINK_FREQUENCY RSCMWEVS_ATTR_RF_CARRIER_REVERSE_LINK_FREQUENCY RSCMWEVS_ATTR_RF_CARRIER_POWER_LEVEL RSCMWEVS_ATTR_RF_CARRIER_PILOT_SETTING RSCMWEVS_ATTR_RF_CARRIER_ACTIVE_ON_AN RSCMWEVS_ATTR_RF_CARRIER_ASSIGNED_TO_AT RSCMWEVS_ATTR_RF_CARRIER_PILOT_AT_STATE RSCMWEVS_ATTR_LAYER_FORWARD_TRAFFIC_CHANNEL_B_PACKET_TYPE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_INDEX RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_PACKET_SIZE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_DATA_RATE RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_SLOTS RSCMWEVS_ATTR_QUERY_LAYER_FORWARD_TRAFFIC_CHANNEL_B_LOOPBACK_ENABLE RSCMWEVS_ATTR_LAYER_ACK_TRAFFIC_CHANNEL_B RSCMWEVS_ATTR_QUERY_LAYER_ACK_TRAFFIC_CHANNEL_B RSCMWEVS_ATTR_LAYER_ACK_CHANNEL_B_MIN_INDEX RSCMWEVS_ATTR_LAYER_ACK_CHANNEL_B_MAX_INDEX RSCMWEVS_ATTR_LAYER_RMCTAP_MIN_PACKET_SIZE RSCMWEVS_ATTR_LAYER_RMCTAP_MAX_PACKET_SIZE RSCMWEVS_ATTR_QUERY_ACTIVE_FORWARD_LINK_CARRIERS RSCMWEVS_ATTR_QUERY_ACTIVE_REVERSE_LINK_CARRIERS

rscmwEVS driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		RSCMWEVS_ATTR_QUERY_LONG_CODE_MASK_I RSCMWEVS_ATTR_QUERY_LONG_CODE_MASK_Q RSCMWEVS_ATTR_HANDOFF_CARRIER_CHANNEL_TARGET RSCMWEVS_ATTR_HANDOFF_CHANNEL_OFFSET RSCMWEVS_ATTR_HANDOFF_FORWARD_LINK_FREQUENCY RSCMWEVS_ATTR_HANDOFF_REVERSE_LINK_FREQUENCY RSCMWEVS_ATTR_HANDOFF_PILOT_ACTIVE_ON_AN RSCMWEVS_ATTR_HANDOFF_PILOT_ASSIGNED_TO_AT RSCMWEVS_ATTR_RX_QUALITY_SELECT_CARRIER_FOR_RESULTS RSCMWEVS_ATTR_RX_QUALITY_PER_REPETITION RSCMWEVS_ATTR_RX_QUALITY_THROUGHPUT_REPETITION RSCMWEVS_ATTR_RX_QUALITY_UPDATE_PERIOD RSCMWEVS_ATTR_RX_QUALITY_LINK_STOP_CONDITION RSCMWEVS_ATTR_RX_QUALITY_FORWARD_MAX_TEST_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_REVERSE_MAX_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_FORWARD_LINK_PERFORMANCE_MAX_FRAMES RSCMWEVS_ATTR_RX_QUALITY_REVERSE_LINK_PERFORMANCE_MAX_FRAMES RSCMWEVS_ATTR_RX_QUALITY_EVALUATION_DECISION RSCMWEVS_ATTR_RX_QUALITY_ASSIGN_VIEWS_REVERSE_LINK_PER RSCMWEVS_ATTR_RX_QUALITY_ASSIGN_VIEWS_REVERSE_LINK_PERFORMANCE Modified VIs/Attributes: rscmwEVS GetError rscmwEVS CheckStatusCallback rscmwEVS ConfigureRFCarrierPilotState rscmwEVS ConfigureForwardTrafficChannel rscmwEVS ConfigureNetworkSystemParameters rscmwEVS ConfigureNetworkAccessProperties rscmwEVS ConfigureRXQualityMeasurementResults rscmwEVS ConfigureRXQualityMeasurementLimits rscmwEVS RXQualityMeasurementInit rscmwEVS RXQualityMeasurementAbort rscmwEVS RXQualityMeasurementStop rscmwEVS QueryRXQualityMeasurementStatus rscmwEVS ReadRXQualityForwardLinkPERResults rscmwEVS FetchRXQualityForwardLinkPERResults rscmwEVS QueryRXQualityForwardLinkPERLimitCheckResults rscmwEVS ReadRXQualityForwardLinkPerformanceResults rscmwEVS FetchRXQualityForwardLinkPerformanceResults rscmwEVS QueryRXQualityForwardLinkPerformanceLimitCheckResults Deleted VIs/Attributes: rscmwEVS Configure RX Quality Measurement Control Settings RSCMWEVS_ATTR_RX_QUALITY_REPETITION RSCMWEVS_ATTR_RX_QUALITY_STOP_CONDITION RSCMWEVS_ATTR_RX_QUALITY_MAX_TEST_PACKETS_SENT RSCMWEVS_ATTR_RX_QUALITY_MAX_FRAMES

rscmwEVS driver for 1xEVDO Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
2.0.110	02/2011	Release for CMW firmware version 2.0.10.xx * New VIs/Attributes: - rscmwEVS Configure Routing.vi - rscmwEVS Query Signal Routing.vi - rscmwEVS Query RF Signal Active Scenario.vi * Removed VIs/attributes: - rscmwEVS Configure RF Input Signal Routing.vi - rscmwEVS Configure RF Output Signal Routing.vi - RSCMWEVS_ATTR_RF_INPUT_CONNECTOR - RSCMWEVS_ATTR_RF_OUTPUT_CONNECTOR
1.0.150	01/2010	Release for CMW firmware version 1.0.15.0 Initial revision

11 RScmwGM - GSM Measurement (3.7.220)

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.220	05/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.22 * New: <ul style="list-style-type: none"> - rscmwgm Read Multi Eval Spectrum Modulation Frequency Limits Results.vi - rscmwgm Fetch Multi Eval Spectrum Modulation Frequency Limits Results.vi - rscmwgm Read Multi Eval Spectrum Switching Frequency Limits Results.vi - rscmwgm Fetch Multi Eval Spectrum Switching Frequency Limits Results.vi * Modified: <ul style="list-style-type: none"> - rscmwgm Configure Multi Eval Measurement List Mode Segment.vi - added IF Power - rscmwgm Configure Multi Eval Measurement List Mode CMWS Connector.vi
3.5.400	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.400 * Exchanged Driver Core 6.6 that uses only synchronous VISA Write/Read, has more detailed error reporting and supports Simulation mode and Logging * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams* * Added <ul style="list-style-type: none"> - rscmwgm Configure Analyzer Channel And Band.vi - rscmwgm Configure MEval Meas Timeout.vi - rscmwgm Configure MEval Meas Ignore Initial Off Frames.vi - rscmwgm Configure Multi Eval Measurement List Mode Trigger Mode.vi - rscmwgm Configure MEval Meas List Mode CMWS Connector.vi - rscmwgm Configure Error Checking.vi - rscmwgm Initialize With Options.vi - rscmwgm rscmwbtscmwbtm Write Command With OPC Sync.vi - rscmwgm rscmwbtscmwbtm Query With OPC Sync.vi - rscmwgm rscmwbtscmwbtm Write Command.vi * Updated <ul style="list-style-type: none"> - rscmwgm Configure Analyzer.vi - rscmwgm Configure MEval Meas Modulation Scheme.vi - rscmwgm Configure MEval Meas PVT PCL.vi - rscmwgm Configure MEval Meas Spec Mod Time Freq Offset.vi
3.5.310	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.31 * Added <ul style="list-style-type: none"> - rscmwgm Clear Status.vi - rscmwgm ID Query Response.vi - rscmwgm Process All Previous Commands.vi - rscmwgm QueryOPC.vi - rscmwgm Bin Data From File To Instrument.vi - rscmwgm Bin Data To File From Instrument.vi * Updated: <ul style="list-style-type: none"> - rscmwgm Fetch Multi Eval List Mode All Reliability Results.vi ... bug fixed
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.10 * Help improvements * Updated: <ul style="list-style-type: none"> - rscmwgm Configure Analyzer Stand Alone Scenario.vi
3.2.700	10/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.70 * Express VI version 1.50.1 * Updated:

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		- rscmwgm_ConfigureMEvalLimitsPVTLowerLinesDynamic - Area max changed to 5
3.2.600	04/2014	* Update for firmware version 3.2.60 * New: - rscmwgm Configure Multi Eval Measurement List Mode Range.vi * Updated: - Range of instance in all functions has been changed to 1..16
3.2.100	09/2013	* Update for firmware version 3.2.10 * New: - rscmwgm Configure Analyzer Frequency Offset.vi RSCMWGM_ATTR_ANALYZER_FREQUENCY_OFFSET * Updated: - rscmwgm Query Signal Routing ... new returned RX connector values available, RX3/4 available for RF converter * Fixed: - rscmwgm Fetch Multi Eval List Mode All EVM Results.vi - rscmwgm Query Multi Eval List Mode All Check Limit EVM Results.vi - rscmwgm Fetch Multi Eval List Mode All Magnitude Error Results.vi - rscmwgm Query Multi Eval List Mode All Check Limit Magnitude Error Results.vi - rscmwgm Fetch Multi Eval List Mode All Phase Error Results.vi - rscmwgm Query Multi Eval List Mode All Check Limit Phase Error Results.vi
3.0.201	01/2013	Modifications: Express VI causing 'Attribute not writable' error
3.0.200	12/2012	Modifications: New rscmwgm Fetch Multi Eval Modulation View Throughput.vi
3.0.120	06/2012	Modifications: Added VIs for reading all list mode segment results of individual measurement. New: rscmwgm Configure Analyzer Measure Protocol Scenario Application.vi rscmwgm Configure Multi Eval Measurement List Mode Ignore Idle Frames.vi rscmwgm Fetch Multi Eval Demodulated Bits.vi rscmwgm Fetch Multi Eval List Mode All AM-PM Delay Results.vi rscmwgm Fetch Multi Eval List Mode All BER Results.vi rscmwgm Fetch Multi Eval List Mode All Burst Power Results.vi rscmwgm Fetch Multi Eval List Mode All Carrier Frequency Error Results.vi rscmwgm Fetch Multi Eval List Mode All EVM Percentile.vi rscmwgm Fetch Multi Eval List Mode All EVM Results.vi rscmwgm Fetch Multi Eval List Mode All IQ Imbalance Results.vi rscmwgm Fetch Multi Eval List Mode All IQ Origin Offset Results.vi rscmwgm Fetch Multi Eval List Mode All Magnitude Error Percentile.vi rscmwgm Fetch Multi Eval List Mode All Magnitude Error Results.vi rscmwgm Fetch Multi Eval List Mode All Phase Error Percentile.vi rscmwgm Fetch Multi Eval List Mode All Phase Error Results.vi rscmwgm Fetch Multi Eval List Mode All Power Vs Time Average Burst Power Results.vi rscmwgm Fetch Multi Eval List Mode All Power Vs Time Subvector At Position Results.vi rscmwgm Fetch Multi Eval List Mode All Power Vs Time Useful Part Results.vi rscmwgm Fetch Multi Eval List Mode All Reliability Results.vi rscmwgm Fetch Multi Eval List Mode All Spectrum Modulation Burst Power Results.vi rscmwgm Fetch Multi Eval List Mode All Spectrum Modulation Carrier Power Results.vi rscmwgm Fetch Multi Eval List Mode All Spectrum Switching Burst Power Results.vi rscmwgm Fetch Multi Eval List Mode All Spectrum Switching Carrier Power Results.vi

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		rscmwgm Fetch Multi Eval List Mode All Transmit Time Error Results.vi rscmwgm Query Multi Eval List Mode All Check Limit AM-PM Delay Results.vi rscmwgm Query Multi Eval List Mode All Check Limit Burst Power Results.vi rscmwgm Query Multi Eval List Mode All Check Limit Carrier Frequency Error Results.vi rscmwgm Query Multi Eval List Mode All Check Limit EVM Percentile.vi rscmwgm Query Multi Eval List Mode All Check Limit EVM Results.vi rscmwgm Query Multi Eval List Mode All Check Limit IQ Imbalance Results.vi rscmwgm Query Multi Eval List Mode All Check Limit IQ Origin Offset Results.vi rscmwgm Query Multi Eval List Mode All Check Limit Magnitude Error Percentile.vi rscmwgm Query Multi Eval List Mode All Check Limit Magnitude Error Results.vi rscmwgm Query Multi Eval List Mode All Check Limit Phase Error Percentile.vi rscmwgm Query Multi Eval List Mode All Check Limit Phase Error Results.vi rscmwgm Query Multi Eval List Mode All Check Limit Power Vs Time Average Burst Power.vi rscmwgm Query Multi Eval List Mode All Check Limit Spectrum Modulation Burst Power.vi rscmwgm Query Multi Eval List Mode All Check Limit Spectrum Modulation Carrier Power.vi rscmwgm Query Multi Eval List Mode All Check Limit Spectrum Switching Burst Power.vi rscmwgm Query Multi Eval List Mode All Check Limit Spectrum Switching Carrier Power.vi rscmwgm Query Multi Eval List Mode All Check Limit Transmit Time Error Results.vi Modified: Documentation updated: rscmwgm Fetch Multi Eval List Mode All Modulation Results.vi rscmwgm Fetch Multi Eval List Mode All Spectrum BER.vi rscmwgm Query Multi Eval List Mode All Check Limit Spectrum BER.vi Deleted: rscmwgm Query Routing Scenario.vi
2.1.101	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.100	07/2011	Release for CMW firmware version 2.1.10.xx New rscmwgm Configure Multi Eval Measurement Decode.vi RSCMWGM ATTR MULTI EVAL MEASUREMENT DECODE rscmwgm Query Multi Eval Measurement List Mode Check Limit Modulation Results.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit Modulation Standard Deviation.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit Modulation Percentile.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit Spectrum Modulation.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit Spectrum Switching.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit Spectrum BER.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit PVT Results.vi rscmwgm Query Multi Eval Measurement List Mode Check Limit PVT Subvector.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Modulation Results.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Modulation Standard Deviation.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Modulation Percentile.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Spectrum Modulation .vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Spectrum Switching.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Spectrum BER.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit PVT Results.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit PVT Subvector.vi rscmwgm Fetch Multi Eval Measurement List Mode All Overview Results.vi rscmwgm Query Multi Eval Measurement List Mode All Check Limit Overview Results.vi Modified

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<p>Documentation updated, API changed</p> <p>rscmwgm Fetch Multi Eval Measurement List Mode Modulation Results.vi rscmwgm Fetch Multi Eval Measurement List Mode Modulation Standard Deviation.vi rscmwgm Fetch Multi Eval Measurement List Mode Modulation Percentile.vi rscmwgm Fetch Multi Eval Measurement List Mode Spectrum Modulation .vi rscmwgm Fetch Multi Eval Measurement List Mode Spectrum Switching.vi rscmwgm Fetch Multi Eval Measurement List Mode PVT Subvector.vi rscmwgm Fetch Multi Eval Measurement List Mode All Modulation Results.vi rscmwgm Fetch Multi Eval Measurement List Mode All Modulation Standard Deviation.vi rscmwgm Fetch Multi Eval Measurement List Mode All Modulation Percentile.vi rscmwgm Fetch Multi Eval Measurement List Mode All Spectrum Modulation .vi rscmwgm Fetch Multi Eval Measurement List Mode All Spectrum Switching.vi rscmwgm Fetch Multi Eval Measurement List Mode All PVT Subvector.vi</p> <p>Documentation updated:</p> <p>rscmwgm Fetch Multi Eval Measurement List Mode Spectrum BER.vi rscmwgm Fetch Multi Eval Measurement List Mode PVT Results rscmwgm Fetch Multi Eval Measurement List Mode All Spectrum BER.vi rscmwgm Fetch Multi Eval Measurement List Mode All PVT Results.vi</p>
2.0.110	04/2011	<p>Release for CMW firmware version 2.0.10</p> <p>New VIs/attributes:</p> <p>rscmwgm Configure Multi Eval Measurement Power vs. Time PCL.vi rscmwgm Configure Multi Eval Measurement VAMOS Training Sequence Code.vi RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_VAMOS_TSC rscmwgm Configure Multi Eval Measurement List Mode Segment.vi rscmwgm Fetch Multi Eval Power vs Time Burst Type.vi rscmwgm Fetch Multi Eval Power vs Time Realive Slot Timing.vi rscmwgm Fetch Multi Eval Power vs Time Training Sequence Code.vi</p> <p>Modified functions/attributes:</p> <p>rscmwgm Configure Analyzer Stand Alone Scenario.vi - connectors added RF3/4/A/B, RX2 rscmwgm Configure Multi Eval Measurement Trigger.vi - default value changed RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT</p> <p>Obsolete functions/attributes:</p> <p>RSCMWGM_ATTR_GENERATOR_OUTPUT_CONNECTOR rscmwgm Configure Multi Eval Measurement List Mode Segment Length.vi - replaced by Configure Multi Eval Measurement List Mode Segment</p>
1.0.152	06/2010	<p>Release for CMW firmware version 1.0.15.20</p> <p>New VIs/attributes:</p> <p>rscmwgm Configure Analyzer Measure Protocol Scenario.vi RSCMWGM_ATTR_MEASURE_PROTOCOL_SCENARIO rscmwgm Configure Analyzer Mixer Input Level.vi RSCMWGM_ATTR_ANALYZER_MIXER_INPUT_LEVEL rscmwgm Configure Multi Eval Limits PVT Upper Lines Dynamic.vi rscmwgm Configure Multi Eval Limits PVT Lower Lines Dynamic.vi</p>
1.0.100	07/2009	<p>Release for CMW firmware version 1.0.10.1</p> <p>New VIs/attributes:</p> <p>rscmwgm Configure Routing Scenario.vi RSCMWGM_ATTR_CONFIGURE_ROUTING_SCENARIO rscmwgm Configure Multi Eval Measurement BER Threshold.vi RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_BER_THRESHOLD_RUN</p>

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<p>RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_BER_THRESHOLD_START rscmwgm Configure Multi Eval Measurement Spectrum Modulation Power Average Mode.vi RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_POWER_AVERAGE rscmwgm Configure Multi Eval Measurement List Mode BER .vi rscmwgm Query Multi Eval Modulation Check Limit Results.vi rscmwgm Query Multi Eval Modulation Standard Deviation Check Limit Results.vi rscmwgm Query Multi Eval Modulation Percentile Check Limit Results.vi rscmwgm Query Multi Eval Power vs Time Check Limit Results.vi rscmwgm Query Multi Eval Power vs Time Subvector Check Limit Results.vi rscmwgm Query Multi Eval Spectrum Modulation Burst Power Check Limit Results.vi rscmwgm Query Multi Eval Spectrum Modulation Check Limit Result.vi rscmwgm Query Multi Eval Spectrum Switching Burst Power Check Limit Results.vi rscmwgm Query Multi Eval Spectrum Switching Check Limit Result.vi rscmwgm Read Multi Eval IQ Constellation Result.vi rscmwgm Read Multi Eval BER Result.vi rscmwgm Query Multi Eval BER Check Limit Result.vi rscmwgm Fetch Multi Eval List Mode Spectrum BER.vi rscmwgm Fetch Multi Eval List Mode All Spectrum BER.vi</p> <p>Modified VIs/attributes: rscmwgm Configure Multi Eval Measurement Statistics Count.vi - added new measurement RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_COUNT - added new measurement RSCMWGM_ATTR_MULTI_EVAL_MEASUREMENT_RESULT - added new measurement rscmwgm Configure Multi Eval Measurement Results.vi - added new measurement rscmwgm Configure Multi Eval Measurement Spectrum Modulation Freq Offset.vi - new values in array rscmwgm Configure Multi Eval Measurement Spectrum Switching Freq Offset.vi rscmwgm Configure Multi Eval Measurement List Mode Step Length.vi rscmwgm Configure Multi Eval Measurement List Mode Modulation Results.vi rscmwgm Configure Multi Eval Measurement List Mode PVT Results.vi rscmwgm Configure Multi Eval Measurement List Mode Spectrum Modulation Results.vi rscmwgm Configure Multi Eval Measurement List Mode Spectrum Switching Results.vi rscmwgm Fetch Multi Eval Power vs Time Subvector.vi rscmwgm Fetch Multi Eval IQ Constellation Result.vi rscmwgm Fetch Multi Eval List Mode Modulation Results.vi rscmwgm Fetch Multi Eval List Mode Power vs Time Subvector.vi rscmwgm Configure Multi Eval Measurement Threshold.vi - renamed to rscmwgm Configure Multi Eval Measurement BER Threshold.vi</p>
1.0.50	01/2009	<p>Release for CMW firmware version 1.0.53</p> <p>New Features: List Mode All measurement Added BER measurement Added I/Q constellation measurement Added subvector measurements</p> <p>Modified functions/attributes: rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE - changed data type to string rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SLOPE, rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_THRESHOLD, rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_DELAY, rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT_STATE, rscmwgm ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT - changed command</p>
1.0.41	08/2008	Release for CMW firmware version 1.0.4

rscmwgm driver for GSM Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		Modified: GPRF Generator subsystem moved to standalone driver
1.0.40	07/2008	Release for CMW firmware version 1.0.4 New functions/attributes: <ul style="list-style-type: none">- GPRF Generator subsystem- Multi Evaluation Measurement List Mode subsystem- rscmwgm Fetch Multi Eval Measurement Modulation Percentile.vi- rscmwgm Fetch Multi Eval Measurement Modulation Standard Deviation.vi- rscmwgm Read Multi Eval Measurement Modulation Percentile.vi- rscmwgm Read Multi Eval Measurement Modulation Standard Deviation.vi

12 RScmwGG - GSM Generator (2.1.0)

rscmwgg driver for GSM Generator		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW280		
Revision	Date	Note
2.1.0	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams
2.0.110	05/2011	Release for CMW firmware version 2.0.10 Modifications: <ul style="list-style-type: none"> * Added <ul style="list-style-type: none"> - rscmwgg_QueryGeneratorSignalRouting * Modified <ul style="list-style-type: none"> - rscmwgg_ConfigureGeneratorSignalRouting - added new routing settings * Obsolete <ul style="list-style-type: none"> - RSCMWGG_ATTR_GENERATOR_OUTPUT_CONNECTOR
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Initial Release

13 RScmwGS - GSM Signaling (3.7.220)

rscmwgs driver for GSM Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.220	05/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.22 * New: <ul style="list-style-type: none"> - rscmwgs Configure Connection Extended Uplink TBF.vi - rscmwgs Configure Network Time Send Network Name.vi - rscmwgs SMS Outgoing Protocol Identifier.vi - rscmwgs SMS Outgoing User Data Header.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwgs Configure Handover External Prepare LTE.vi - rscmwgs Configure Connection Circuit Switched.vi - rscmwgs Configure Network Cell SIM Card Type.vi - rscmwgs Configure Network Identity.vi - rscmwgs Configure Network Requested Mobile Data.vi - rscmwgs Configure Routing With Internal Diversity Fading.vi
3.7.100	01/2018	<ul style="list-style-type: none"> * rscmwgs Initialize.vi, rscmwgs Initialize with Options.vi, rscmwgs Close.vi and Utility VIs have new VI icons * New VIs: <ul style="list-style-type: none"> - rscmwgs Configure Network Cell IMSI Filter.vi - rscmwgs Configure Network Cell Support.vi - rscmwgs Configure Network Reject Causes CM Type.vi - rscmwgs Configure Connection Circuit Switched Attempt.vi - rscmwgs Configure Connection Circuit Switched Reject.vi - rscmwgs Query Connection Circuit Switched Attempt.vi - rscmwgs Query Connection Circuit Switched Reject.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwgs Configure Network Reject Causes.vi - rscmwgs Configure Network Neighbor Cell LTE.vi - rscmwgs Configure Connection Circuit Switched Call Release.vi - rscmwgs Configure Handover External Prepare LTE.vi * Deleted all obsolete VIs
3.5.400	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6 that uses only synchronous VISA Write/Read, has more detailed error messages and supports Simulation mode and Logging * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New: <ul style="list-style-type: none"> - rscmwgs Configure Network Cell EC GSM IoT.vi - rscmwgs Configure Network Cell SIM Card Type.vi - rscmwgs Configure Handover Mobility Mode.vi - rscmwgs Configure Message Monitoring.vi - rscmwgs Query Message Monitoring IP Address.vi - rscmwgs Configure Network Cell KI Value.vi - rscmwgs Configure Error Checking.vi - rscmwgs Initialize With Options.vi - rscmwgs Write Command With OPC Sync.vi - rscmwgs Query With OPC Sync.vi - rscmwgs Write Command.vi * Updated: <ul style="list-style-type: none"> - rscmwgs Connection State.vi - rscmwgs Packet Switched Connection State.vi

rscmwgs driver for GSM Signaling		
Driver history for LabVIEW driver		
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Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgs Configure Network Reject Causes.vi - rscmwgs Configure Network Neighbor Cell LTE.vi - rscmwgs Configure Network Neighbor Cell WCDMA.vi - rscmwgs Configure Connection Circuit Switched.vi - rscmwgs Configure Connection Circuit Switched VAMOS Support Level.vi - rscmwgs Configure Handover External Prepare LTE.vi - rscmwgs Configure Handover External Prepare W-CDMA.vi
3.5.310	11/2016	<p>* New VIs:</p> <ul style="list-style-type: none"> - rscmwgs Configure Routing Standard Cell.vi - rscmwgs Configure Routing Iq Out Rf In.vi - rscmwgs Configure Routing External Fading.vi - rscmwgs Configure Routing External Diversity Fading.vi - rscmwgs Configure BCCH Lower Limit Check.vi - rscmwgs Query Fading Simulator Insertion Loss.vi - rscmwgs Clear Event Log.vi - rscmwgs Query Voice Info.vi - rscmwgs Configure Network MOC Alerting Timer.vi - rscmwgs Configure Network Gmm Routing Area Reject Cause.vi - rscmwgs Configure Network Time Local Zone Offset.vi - rscmwgs Clear Status.vi - rscmwgs ID Query Response.vi - rscmwgs Process All Previous Commands.vi - rscmwgs QueryOPC.vi - rscmwgs Bin Data From File To Instrument.vi - rscmwgs Bin Data To File From Instrument.vi - rscmwgs Read To File From Instrument.vi - rscmwgs Write From File To Instrument.vi <p>* Updated VIs:</p> <ul style="list-style-type: none"> - rscmwgs Configure Routing With Internal Fading.vi - rscmwgs Configure Routing With Internal Diversity Fading.vi - rscmwgs Query Event Log Last Entry.vi - rscmwgs Query Event Log All Entries.vi - rscmwgs Configure Network Identity.vi - rscmwgs Configure Network Timers And Constants.vi - rscmwgs Configure Network Neighbor Cell WCDMA.vi - rscmwgs Configure Handover External Prepare WCDMA.vi - rscmwgs Configure BER Packet Switched Measurement Mode.vi - rscmwgs CBS Message Serial.vi - rscmwgs Configure Network Neighbor Cell TD-SCDMA.vi <p>* Moved to Obsolete:</p> <ul style="list-style-type: none"> - rscmwgs Configure Routing.vi - rscmwgs Configure Routing WithExternalFading.vi - rscmwgs Configure Routing WithExternalDiversityFading.vi
3.5.200	10/2015	<p>* Update for firmware 3.5.20</p> <p>* New:</p> <ul style="list-style-type: none"> - rscmwgs Configure Routing With Internal Diversity Fading.vi - rscmwgs Configure Routing With External Diversity Fading.vi - rscmwgs Query Mobile Tighter Capabilities.vi - rscmwgs Query VAMOS Level.vi - rscmwgs Configure Connection Circuit Switched AMR Signaling Mode.vi - rscmwgs Configure Connection Packet Switched Auto Dual Slot.vi

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Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgs Configure Connection Packet Switched Slot Config USF Downlink.vi - rscmwgs Configure Handover Dualband TCH.vi - rscmwgs Configure Handover Dualband Destination.vi - rscmwgs Configure Handover Percentage Of Downlink.vi - rscmwgs SMS Outgoing Last Message Sent.vi - CBS * Updated: - rscmwgs Query Signal Routing.vi - rscmwgs Configure Network Neighbor Cell LTE.vi - rscmwgs Configure Handover External Prepare LTE.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware 3.5.10 * Help improvements * Update: - rscmwgs Configure Speech Codec.vi
3.2.700	11/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * Express VI version 1.50.1 * New Subsystems: - External Handover * New: - rscmwgs Configure Network Cell Early Classmark Sending.vi - rscmwgs Configure Network Cell Initial Power Reduction.vi - rscmwgs Configure Network Cell Baring.vi - rscmwgs Configure Network Release Timer.vi - rscmwgs Configure Network Reject Causes.vi - rscmwgs Configure Connection Timing Advance.vi - rscmwgs Configure Connection Circuit Switched Echo Delay.vi - rscmwgs Configure Connection Circuit Switched DTX DL.vi - rscmwgs SMS Outgoing Service Time Source.vi - rscmwgs SMS Outgoing Service Time Date.vi - rscmwgs Query SMS Outgoing Message Segment.vi - rscmwgs Configure Measurement Report Settings.vi - rscmwgs Query Measurement Reports Received Blocks.vi - rscmwgs Query Measurement Reports Mean BEP Circuit Switched.vi - rscmwgs Query Measurement Reports CV BEP Circuit Switched.vi - rscmwgs Configure Network Cell Circuit Switched Enhanced Measurement Report.vi - rscmwgs Configure Network Time Transfer.vi * Update - rscmwgs Packet Switched Connection State.vi - SMS, PDP added - rscmwgs Configure Network Neighbor Cell GSM.vi - BSIC control added - rscmwgs Configure BER Circuit Switched Statistical Settings.vi - New values - rscmwgs Configure BER Circuit Switched Statistic Count - range - rscmwgs Read BER Circuit Switched Results.vi - API - rscmwgs Fetch BER Circuit Switched Results.vi - API - rscmwgs Read BER Packet Switched Results.vi - ranges - rscmwgs Fetch BER Packet Switched Results.vi - ranges - rscmwgs Read BER Packet Switched Single Carrier Results.vi - ranges - rscmwgs Fetch BER Packet Switched Single Carrier Results.vi - ranges
3.2.601	08/2014	<ul style="list-style-type: none"> * renamed VIs: - rscmwgs Read BLER All Carriers Results.vi to scmwgs Read BLER Over All Results.vi - rscmwgs Fetch BLER All Carriers Results.vi to rscmwgs Fetch BLER Over All Results.vi * Update - add numbers conversion delimiter to ',' for Read/Fetch measurement VIs

rscmwgs driver for GSM Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - for Fetch measurement VIs is used VISA write/read - rscmwgs Fetch BER Circuit Switched Results.vi - rscmwgs Fetch BER Packet Switched Results.vi - rscmwgs Fetch BER Packet Switched Single Carrier Results.vi - rscmwgs Fetch BLER Over All Results.vi - rscmwgs Fetch BLER Single Carrier Results.vi - rscmwgs Fetch RLC Throughput Results All.vi - rscmwgs Fetch RLC Throughput Single Trace Result.vi - rscmwgs Read BER Circuit Switched Results.vi - rscmwgs Read BER Packet Switched Results.vi - rscmwgs Read BER Packet Switched Single Carrier Results.vi - rscmwgs Read BLER Single Carrier Results.vi - rscmwgs Read CMR Performance Result.vi - rscmwgs Read RLC Throughput Results All.vi - rscmwgs Read RLC Throughput Single Trace Result.vi
3.2.600	04/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.600 * New - rscmwgs Configure External Delay Compensation.vi - RSCMWGS_ATTR_EXTERNAL_DELAY_COMPENSATION_UL - RSCMWGS_ATTR_EXTERNAL_DELAY_COMPENSATION_DL - rscmwgs Query APN Gateway.vi - RSCMWGS_ATTR_MOBILE_CAPABILITIES_APN - rscmwgs Query RX Power.vi - RSCMWGS_ATTR_MOBILE_CAPABILITIES_RX_POWER - rscmwgs Query Emergency Call Service Category.vi - rscmwgs Configure Network Cell Extended.vi - RSCMWGS_ATTR_NETWORK_CELL_PAGE_MODE - RSCMWGS_ATTR_NETWORK_CELL_NCC_PERMITTED - RSCMWGS_ATTR_NETWORK_CELL_MAX_RETRANS - RSCMWGS_ATTR_NETWORK_CELL_PAGING_WITH_MS_IDENTITY - rscmwgs Configure Network Immediate Assignment Timers.vi - RSCMWGS_ATTR_NETWORK_TIMER_T3122 - RSCMWGS_ATTR_NETWORK_TIMER_T3142 - rscmwgs Configure Network Cell Reselection Hysteresis.vi - RSCMWGS_ATTR_NETWORK_CELL_RESELECTION_HYSTERESIS - rscmwgs Configure Network Cell Allowed DL Channels.vi - rscmwgs Configure Network Cell Connection Request.vi - rscmwgs Configure Network Cell Synchronization.vi - RSCMWGS_ATTR_NETWORK_CELL_SYNCHRONIZATION_OFFSET - RSCMWGS_ATTR_NETWORK_CELL_SYNCHRONIZATION_ZONE - Measurement Reports - RSCMWGS_ATTR_NEIGHBOR_CELL_THRESHOLD_TDSCDMA <ul style="list-style-type: none"> - rscmwgs Configure Network Neighbor Cell WCDMA.vi - rscmwgs Configure Connection Frequency Offset.vi - RSCMWGS_ATTR_CONNECTION_RANDOM_FREQUENCY_OFFSET_ENABLED - RSCMWGS_ATTR_CONNECTION_FREQUENCY_OFFSET_DOWNLINK - RSCMWGS_ATTR_CONNECTION_FREQUENCY_OFFSET_UPLINK - rscmwgs Query Connection Error.vi - RSCMWGS_ATTR_CONNECTION_ERROR - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_ERROR - rscmwgs Configure Connection Circuit Switched Call Release.vi - RSCMWGS_ATTR_CONNECTION_CALL_RELEASE - rscmwgs Configure Connection Packet Switched Auto Slot.vi

rscmwgs driver for GSM Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_AUTO_SLOT_CONFIG_ENABLED - rscmwgs Configure Connection Packet Switched BEP Period 2.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_BEP_PERIOD_2 - rscmwgs Configure Connection Packet Switched BCS Data Corruption Rate.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_BCS_DATA_CORRUPTION_RATE - rscmwgs Configure Connection Packet Switched Downlink Power Control.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_DOWNLINK_POWER_CONTROL_ENABLED - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_DOWNLINK_POWER_CONTROL_P0 - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_POWER_REDUCTION_MODE - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_POWER_REDUCTION_FIELD - rscmwgs Configure Connection Packet Switched Always Send RLC Data Blocks.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_ALWAYS_SEND_RLC_DATA_BLOCKS - rscmwgs Fetch BER Circuit Switched Intermediate Results.vi - rscmwgs Query BER Circuit Switched Round Trip Delay.vi <ul style="list-style-type: none"> - RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_ROUND_TRIP_DELAY - rscmwgs Configure BER Packet Switched Measurement Mode.vi - RSCMWGS_ATTR_BER_PACKET_SWITCHED_MEASUREMENT_MODE - rscmwgs Read BER Packet Switched Single Carrier Results.vi - rscmwgs Fetch BER Packet Switched Single Carrier Results.vi - rscmwgs Fetch BER Packet Switched Intermediate Results.vi - rscmwgs Fetch BER Packet Switched Intermediate Enhanced Results.vi - rscmwgs Query SMS Incoming Message Segment.vi <ul style="list-style-type: none"> - CMR Performance measurement * Update - rscmwgs Configure Network Cell Reselection.vi: RxLevMin Access - range and default value - rscmwgs Configure Network Neighbor Cell Threshold.vi: added TD-SCDMA <ul style="list-style-type: none"> - rscmwgs Configure Network Neighbor Cell GSM.vi - added "Measurement Enabled" control - rscmwgs Configure Network Neighbor Cell LTE.vi - added "Measurement Enabled" control - rscmwgs Configure Network Neighbor Cell WCDMA.vi - added "Measurement Enabled" control - rscmwgs Read BER Packet Switched Results.vi, rscmwgs Fetch BER Packet Switched Results.vi - added "Non Assigned USF" control
3.2.201	02/2014	<ul style="list-style-type: none"> * Fixed RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_CLASS * Fixed RSCMWGS_ATTR_SIGNALING_CONNECTION_STATE, RSCMWGS_ATTR_SIGNALING_PACKET_SWITCHED_CONNECTION_STATE rscmwgs_QueryConnectionState, rscmwgs_QueryPacketSwitchedConnectionState - added missing states
3.2.200	10/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.20 * New: <ul style="list-style-type: none"> - rscmwgs Configure Speech Code.vi - RSCMWGS_ATTR_SIGNALING_SPEECH_CODE - rscmwgs Configure Fading Simulator Doppler Frequency.vi - RSCMWGS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE - RSCMWGS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY - rscmwgs_Query Codec List Support.vi - rscmwgs_Configure Network Cell Reselection.VI - RSCMWGS_ATTR_NETWORK_CELL_RESELECTION_QUALITY_RXLEVMIN_ACCESS - RSCMWGS_ATTR_NETWORK_CELL_RESELECTION_QUALITY_RXLEVMIN_EUTRAN - RSCMWGS_ATTR_NETWORK_CELL_RESELECTION_QUALITY_RXLEVMIN_UTRAN

rscmwgs driver for GSM Signaling

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Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWGS_ATTR_NETWORK_CELL_RESELECTION_TRESELECTION - rscmwgs_Configure Network Neighbor Cell Threshold.VI - RSCMWGS_ATTR_NEIGHBOR_CELL_THRESHOLD_LTE - RSCMWGS_ATTR_NEIGHBOR_CELL_THRESHOLD_WCDMA - rscmwgs_Configure Network Neighbor Cell GSM.VI - rscmwgs_Configure Network Neighbor Cell LTE.VI - rscmwgs_Configure Network Neighbor Cell WCDMA.VI - rscmwgs_Configure Connection Circuit Switched Wideband AMR Threshold.vi - rscmwgs_Configure Handover Destination.vi - RSCMWGS_ATTR_HANDOVER_DESTINATION - rscmwgs_Query Handover Destination.vi - RSCMWGS_ATTR_HANDOVER_DESTINATION_CATALOG - rscmwgs_Read BLER Single Carrier Results.vi - rscmwgs_Fetch BLER Single Carrier Results.vi - rscmwgs_Read BLER Over All Results.vi - rscmwgs_Fetch BLER Over All Results.vi - rscmwgs_Configure RLC Throughput Measurement Timeout.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_TIMEOUT - rscmwgs_Configure RLC Throughput Measurement.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_REPETITION - RSCMWGS_ATTR_RLC_THROUGHPUT_WINDOW - rscmwgs_RLC Throughput Measurement Init.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_INIT - rscmwgs_RLC Throughput Measurement Abort.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_ABORT - rscmwgs_RLC Throughput Measurement Stop.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_STOP - rscmwgs_Query RLC Throughput Measurement Status.vi - RSCMWGS_ATTR_RLC_THROUGHPUT_STATE - rscmwgs_Query RLC Throughput Measurement Status All.vi - rscmwgs_Read RLC Throughput Single Trace Result.vi - rscmwgs_Fetch RLC Throughput Single Trace Result.vi - rscmwgs_Read RLC Throughput Results All.vi - rscmwgs_Fetch RLC Throughput Results All.vi - rscmwgs_SMS Outgoing Message Domain.vi - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_DOMAIN - rscmwgs_SMS Outgoing Message Internal Parameters.vi - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_CODING_GROUP - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_CLASS - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_ORIGINATOR_SMSC_ADDRESS - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_ORIGINATING_ADDRESS - rscmwgs_SMS Outgoing Message Binary.vi - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_DATA_CODING - rscmwgs_Query SMS Incoming Message Data Coding.vi - RSCMWGS_ATTR_SMS_INCOMING_MESSAGE_DATA_CODING - rscmwgs_QueryGenerator Detail State.vi ... it replaces the old VI rscmwgs_Query Generator State.vi, interface changed <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwgs_Configure Fading Simulator.vi - rscmwgs_Configure Connection Circuit Switched.vi - rscmwgs_Configure BER Circuit Switched Statistical Settings.vi - rscmwgs_SMS Outgoing Message Text.vi

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		- rscmwgs Query SMS Incoming Message Text.vi
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.10 * New: <ul style="list-style-type: none"> - rscmwgs Configure Routing With Internal Fading.vi - rscmwgs Configure RF Frequency Offset.vi - RSCMWGS_ATTR_FREQUENCY_OFFSET_DL - RSCMWGS_ATTR_FREQUENCY_OFFSET_UL - rscmwgs Configure RF Power Uplink Mixer Level Offset.vi - RSCMWGS_ATTR_RF_MIXER_LEVEL_OFFSET - rscmwgs Query Fading Simulator Clipping Counter.vi - RSCMWGS_ATTR_FADING_SIMULATOR_CLIPPING_COUNTER * Updated: <ul style="list-style-type: none"> - rscmwgs Configure Fading Simulator.vi ... new standards added - rscmwgs Configure Fading AWGN.vi ... Bandwidth Ratio and signalToNoiseRatio range changed * Fixed: <ul style="list-style-type: none"> - rscmwgs Configure Connection Packet Switched Data Source.vi
3.0.200	01/2013	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.20 * New: <ul style="list-style-type: none"> - Network Cell Time configuration and transfer - Fading Simulator - rscmwgs Configure Connection Packet Switched Incremental Redundancy.vi - rscmwgs Configure IQ Input.vi - rscmwgs Query IQ Output.vi - rscmwgs Configure End To End.vi - rscmwgs Query Connection Packet Switched Max Throughput.vi - rscmwgs Configure Handover Uplink Timeslots Enable.vi - rscmwgs Configure Handover Downlink Timeslots Enable.vi - rscmwgs Query Extended Dynamic Allocation Support.vi * Updated: <ul style="list-style-type: none"> - RSCMWGS_ATTR_NETWORK_REQUESTED_AUTHENTICATION - changed SCPI command - rscmwgs Configure Network Cell Packet Switched.vi - activated 'Signal Level Filter Period', 'BEP Period', 'PC Meas Channel' - rscmwgs Configure Connection Packet Switched Settings.vi - activated 'Extended Dynamic Allocation' * Removed: <ul style="list-style-type: none"> - All obsolete functions and attributes
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.10 * New: <ul style="list-style-type: none"> - rscmwgs Configure BCCH and TCH PDCH Scenario.vi - rscmwgs Configure BCCH Level.vi - rscmwgs Query Evenet Log Last Entry.vi - rscmwgs Query Evenet Log All Entries.vi - rscmwgs Configure Connection Circuit Switched AMR Narrow Band 8PSK Half Rate.vi - rscmwgs Configure Connection Circuit Switched AMR Wide Band 8PSK Full Rate.vi - rscmwgs Configure Connection Circuit Switched AMR Wide Band 8PSK Half Rate.vi - rscmwgs Configure Connection CircuitSwitched AMR 8PSK Codec Mode Downlink.vi - rscmwgs Configure Connection CircuitSwitched AMR 8PSK Codec Mode Uplink.vi - rscmwgs Query Connection Circuit Switched AMR 8PSK MS Codec Mode.vi

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		<ul style="list-style-type: none"> - rscmwgs Configure Connection Circuit Switched Half Rate Subchannel.vi * Updated functions: <ul style="list-style-type: none"> - rscmwgs Configure External Attenuation.vi - Added "Output2" and "BCCH" - rscmwgs Configure Connection Circuit Switched.vi - Added "Data Source" support - rscmwgs Configure Connection Packet Switched Settings.vi - Added Control "Ack Type" support - rscmwgs Configure Routing.vi - added RX3, RX4, TX3, TX4 connector
2.1.201	02/2012	Modifications: <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.200	08/2011	Release for CMW firmware version 2.1.20.x <ul style="list-style-type: none"> * New: <ul style="list-style-type: none"> -RSCMWGS_ATTR_CONNECTION_TRAFFIC_CHANNEL_STATE -RSCMWGS_ATTR_HANDOVER_UPLINK_CODING_SCHEME -rscmwgs Configure Connection Circuit Switched Traffic Channels State.vi -rscmwgs Configure Connection Circuit Switched Wideband AMR Rate.vi -rscmwgs Configure Handover Uplink Coding Scheme.vi * Updated: <ul style="list-style-type: none"> -RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_LIMIT_FER_FACCH -RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_LIMIT_FER_SACCH -rscmwgs Configure Connection Circuit Switched AMR Codec Mode.vi - Added new repeated capability "Band" -rscmwgs Query Connection Circuit Switched AMR MS Codec Mode.vi - Added new repeated capability "Band" -rscmwgs Configure BER Circuit Switched Limit.vi - Added two new controls and two new attributes -rscmwgs Read BER Circuit Switched Results.vi - Added two new indicators -rscmwgs Fetch BER Circuit Switched Results.vi - Added two new indicators
2.1.100	07/2011	Release for CMW firmware version 2.1.10.xx <ul style="list-style-type: none"> * New: <ul style="list-style-type: none"> - rscmwgs Configure Connection Circuit Switched VAMOS Support Level.vi - rscmwgs Configure Handover Uplink Gamma.vi - rscmwgs Configure Handover Downlink Coding Scheme.vi
2.0.110	04/2011	Release for CMW firmware version 2.0.10 <ul style="list-style-type: none"> * Added VIs/attributes <ul style="list-style-type: none"> - RSCMWGS_ATTR_BCCH_BAND - RSCMWGS_ATTR_NETWORK_RADIOLINK_TIMEOUT_BS - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_CODING_SCHEME_UPLINK - RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_MODE - rscmwgs Query Signal Routing.vi - rscmwgs Configure RF Power Uplink.vi - RSCMWGS_ATTR_EXPECTED_NOMINAL_POWER_MODE - RSCMWGS_ATTR_EXPECTED_NOMINAL_POWER - RSCMWGS_ATTR_EXPECTED_NOMINAL_POWER_MARGIN - rscmwgs Query Measurement Reports Count.vi - RSCMWGS_ATTR_MEASUREMENT_REPORTS_COUNT - rscmwgs Query Measurement Reports C Value.vi - RSCMWGS_ATTR_MEASUREMENT_REPORTS_SIGNAL_VARIANCE - Query Measurement Reports Mean BEP - RSCMWGS_ATTR_MEASUREMENT_REPORTS_MEAN_8PSK_BEP - RSCMWGS_ATTR_MEASUREMENT_REPORTS_MEAN_GMSK_BEP - RSCMWGS_ATTR_MEASUREMENT_REPORTS_MEAN_QAM_BEP

rscmwgs driver for GSM Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgs Query Measurement Reports CV BEP.vi - RSCMWGS_ATTR_MEASUREMENT_REPORTS_CV_GMSK_BEP - RSCMWGS_ATTR_MEASUREMENT_REPORTS_CV_8PSK_BEP - RSCMWGS_ATTR_MEASUREMENT_REPORTS_CV_QAM_BEP - rscmwgs Query Multislot Class.vi - RSCMWGS_ATTR_MOBILE_CAPABILITIES_MULTISLOT_CLASS - rscmwgs Query Band Power Class.vi - rscmwgs Configure Network Cell Packet Switched Domain State.vi - RSCMWGS_ATTR_NETWORK_CELL_PACKET_SWITCHED_CONNECTIONS_ENABLE - rscmwgs Configure Connection Circuit Switched AMR Rate.vi - rscmwgs Configure Connection Circuit Switched AMR Codec Mode.vi - RSCMWGS_ATTR_CONNECTION_AMR_CODEC_MODE_DOWNLINK - RSCMWGS_ATTR_CONNECTION_AMR_CODEC_MODE_UPLINK - rscmwgs Query Connection Circuit Switched AMR MS Codec Mode.vi - RSCMWGS_ATTR_CONNECTION_MS_CODEC_MODE_DOWNLINK - RSCMWGS_ATTR_CONNECTION_MS_CODEC_MODE_UPLINK - rscmwgs Configure Connection Packet Switched Slot Config.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_TBF_LEVEL - rscmwgs Configure Measurement Slot Settings.vi - RSCMWGS_ATTR_MEASUREMENT_SLOT - rscmwgs Configure BER Circuit Switched Measurement Timeout.vi - RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_TIMEOUT - rscmwgs Configure BER Circuit Switched Limit BER.vi - RSCMWGS_ATTR_BER_CIRCUIT_SWITCHED_LIMIT_BER - rscmwgs Configure BER Packet Switched Measurement Timeout.vi - RSCMWGS_ATTR_BER_PACKET_SWITCHED_TIMEOUT - rscmwgs Configure BLER Measurement Timeout.vi - RSCMWGS_ATTR_BLER_TIMEOUT - rscmwgs SMS Outgoing Message Text.vi - RSCMWGS_ATTR_SMS_OUTGOING_MESSAGE_TEXT - rscmwgs SMS Incoming Message Reset.vi - RSCMWGS_ATTR_SMS_INCOMING_MESSAGE_RESET - rscmwgs Query SMS Incoming Message Status.vi - RSCMWGS_ATTR_SMS_INCOMING_MESSAGE_READ_FLAG - RSCMWGS_ATTR_SMS_INCOMING_MESSAGE_LENGTH - rscmwgs Query SMS Incoming Message Text.vi - RSCMWGS_ATTR_SMS_INCOMING_MESSAGE_TEXT * Modified VIs/attributes: - RSCMWGS_ATTR_NETWORK_REQUESTED_CLASSMARK - Reserved for future use. - RSCMWGS_ATTR_NETWORK_CELL_PACKET_SWITCHED_SIGNAL_LEVEL_FILTER_PERIOD - Reserved for future use. - RSCMWGS_ATTR_NETWORK_CELL_PACKET_SWITCHED_BEP_PERIOD - Reserved for future use. - RSCMWGS_ATTR_NETWORK_CELL_PACKET_SWITCHED_PC_MEAS_CHANNEL - Reserved for future use. - RSCMWGS_ATTR_CONNECTION_DATA_SOURCE - Reserved for future use. - RSCMWGS_ATTR_CONNECTION_MS_POWER_CHANGE - Reserved for future use. - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_TESTMODE_B_ACK - Reserved for future use. - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_TESTMODE_S_SRB_INFO - Reserved for future use. - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_EXTENDED_DYNAMIC_ALLOCATION - Reserved for future use.

rscmwgs driver for GSM Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_CONTROL_ACK_TYPE - Reserved for future use. - rscmwgs Configure Routing.vi - new scenario available, RF connectors added - rscmwgs Configure BCCH.vi - added band selection - rscmwgs Query Measurement Reports.vi - query lowe and upper range - rscmwgs Query Measurement Reports Sub.vi - query lowe and upper range - rscmwgs Configure Network Requested Mobile Data.vi - control Classmark Request is now reserved for future use - rscmwgs Configure Network Cell Circuit Switched.vi - function is now reserved for future use - rscmwgs Configure Network Cell Packet Switched.vi - controls Signal Level Filter Period, BEP Period, PC Meas Channel are now reserved for future use - rscmwgs Configure Network Timers And Constants.vi -control Radiolink Timeout BS State removed - rscmwgs Configure Connection Circuit Switched.vi - Loop added values A, B; Traffic Mode - added values FV2, HV1, ANFG, ANHG, controls Data Source, MS Power Change are now reserved for future use - RSCMWGS_ATTR_CONNECTION_TRAFFIC_MODE - RSCMWGS_ATTR_CONNECTION_LOOP - rscmwgs Configure Connection Circuit Switched VAMOS.vi - additional TSC preferences added - rscmwgs Configure Connection Packet Switched Service.vi - controls Testmode B with UL ACK, Testmode S/SRB with Sys Info are now reserved for future use - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_BLER_POLLING_BLOCKS - command changed - rscmwgs Configure Connection Packet Switched Settings.vi - controls Extended Dynamic Allocation, Control Ack Type are now reserved for future use - rscmwgs Configure Connection Packet Switched Slot Config Uplink.vi - configuration of individual slots is possible - rscmwgs Configure Connection Packet Switched Slot Config Downlink.vi - configuration of individual slots is possible - rscmwgs Configure Connection Packet Switched FARN.vi - command changed - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_FARN_DOWNLINK_EVENT_BASED - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_FARN_DOWNLINK_POLLED - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_FARN_UPLINK_MODE - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_FARN_UPLINK_TIMEShift - rscmwgs Configure Handover.vi - destination GSM 400 and GSM GT 800 removed - RSCMWGS_ATTR_HANDOVER_DESTINATION_BAND - rscmwgs Query Handover Band.vi - command changed - RSCMWGS_ATTR_HANDOVER_BAND - rscmwgs Configure BER Circuit Switched Statistical Settings.vi - added measurement mode selection * Obsolete VIs/attributes - RSCMWGS_ATTR_CONNECTION_VAMOS_PROFILE - RSCMWGS_ATTR_CONNECTION_VAMOS_SUBCHANNEL_POWER_IMBALANCE_RATIO - RSCMWGS_ATTR_CONNECTION_VAMOS_SUBCHANNEL - RSCMWGS_ATTR_CONNECTION_VAMOS_TSC_SET - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_SCONFIG_DOWNLINK_CODING_SCHEME - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_SCONFIG_ENABLE_UPLINK0 - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_SCONFIG_ENABLE_DOWNLINK - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_SCONFIG_LEVEL_DOWNLINK - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_SCONFIG_GAMMA_UPLINK - rscmwgs Configure Connection Packet Switched Missing Block Rate.vi - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_MISSING_BLOCK_RATE_DOWNLINK - RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_MISSING_BLOCK_RATE_UPLINK

rscmwgs driver for GSM Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none">- rscmwgs Configure Band.vi- RSCMWGS_ATTR_BAND- rscmwgs Configure Connection Packet Switched Downlink.vi- RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_TBF_START_TIME- RSCMWGS_ATTR_CONNECTION_PACKET_SWITCHED_CODING_SCHEME_DOWNLINK- rscmwgs Configure Connection Packet Switched Uplink.vi- rscmwgs Configure Connection Circuit Switched AMR F Rate.vi- rscmwgs Configure Connection Circuit Switched AMR H Rate.vi
1.0.150	02/2010	Release for CMW firmware version 1.0.15 Initial revision

14 RScmwGPRF - General Purpose RF (4.0.200)

rscmwgprf driver for GPRF		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
4.0.200	07/2022	<ul style="list-style-type: none"> * Support for CMW version 4.0.20 * New core 7.3.0 * New: <ul style="list-style-type: none"> - rscmwgprf Sequencer List Create New Entries.vi - rscmwgprf Configure Sequencer Restart Marker Delay.vi - rscmwgprf Configure Sequencer Waveform Marker Delay.vi * Modified: <ul style="list-style-type: none"> - rscmwgprf Configure Power Measurement Parameters.vi - range checking at Measurement removed
3.7.300	04/2019	<ul style="list-style-type: none"> * Update for FW version 3.7.30 * New: <ul style="list-style-type: none"> - rscmwgprf Configure Generator All Connectors.vi - rscmwgprf Query Generator ARB Progress File Processing.vi - Sequencer mode support - Pathloss measurement support * Modified: <ul style="list-style-type: none"> - rscmwgprf Configure Analyzer Stand Alone Scenario.vi - added missing connectors - rscmwgprf Configure Analyzer Mixer Level Offset.vi - changed range - rscmwgprf Configure Power Measurement Single Parameter Set.vi - changed ranges - rscmwgprf Configure IQ vs Slot Measurement List Range.vi - changed ranges - rscmwgprf Configure IQ vs Slot Measurement Filter.vi - added Nyquist filter
3.7.100	03/2018	<ul style="list-style-type: none"> * Update for FW version 3.7.10 * New: <ul style="list-style-type: none"> - rscmwgprf Query Generator ARB Multisegment Current Segment Number.vi * Modified: <ul style="list-style-type: none"> - rscmwgprf Configure Generator Frequency Level.vi - Level default value changed - rscmwgprf Initialize.vi, rscmwgprf Initialize with Options.vi, rscmwgprf Close.vi and Utility VIs have new VI icons
3.5.1110	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New: <ul style="list-style-type: none"> - rscmwgprf Query Power Measurement Predefined Sets Catalog.vi - rscmwgprf Configure Power Measurement List Index CMWS All Connectors.vi - rscmwgprf Configure Power Measurement List Index CMWS Connector Mode.vi - rscmwgprf Configure Power Measurement Predefined Set.vi - rscmwgprf Write Command With OPC Sync.vi - rscmwgprf Query With OPC Sync.vi - rscmwgprf Write Command.vi * Modified: <ul style="list-style-type: none"> - rscmwgprf Configure Power Measurement Trigger.vi
3.5.1000	08/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.90.xx * New: <ul style="list-style-type: none"> - rscmwgprf Configure Generator ARB Trigger Source.vi - rscmwgprf Query Generator ARB Trigger Source Catalog.vi

rscmwgprf driver for GPRF**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgprf Generator ARB Clear User Defined Marker.vi - rscmwgprf Configure Generator List CMWS Connector Set.vi - rscmwgprf Configure Power Measurement List Index CMWS Connector.vi - rscmwgprf Configure IQ Recorder Measurement Forma Write Results To IQ File.vi - rscmwgprf Clear Status.vi - rscmwgprf ID Query Response.vi - rscmwgprf Process All Previous Commands.vi - rscmwgprf Query OPC.vi - rscmwgprf Configure Generator Connectors.vi - rscmwgprf Configure Generator List Index CMWS Usage.vi - rscmwgprf Query Power Sensor IDN.vi
3.5.200	03/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.20.4 * New: <ul style="list-style-type: none"> - rscmwgprf Query Generator ARB File Path.vi * Modified: <ul style="list-style-type: none"> - rscmwgprf Configure IQ Recorder Meas Parameters.vi * Updated attributes: <ul style="list-style-type: none"> - RS_ATTR_OPC_CALLBACK - data type changed to Address - RS_ATTR_CHECK_STATUS_CALLBACK - data type changed to Address
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.10.xx * Updated Instance range to 32 * Help improvements * Modified <ul style="list-style-type: none"> - rscmwgprf Configure Analyzer Stand Alone Scenario.vi - rscmwgprf Configure Analyzer Measure IQ In Scenario.vi - rscmwgprf Query Analyzer Scenario.vi - rscmwgprf Configure Generator Stand Alone Scenario.vi - rscmwgprf Configure Generator IQ Out Scenario.vi - rscmwgprf Query Generator Signal Routing.vi
3.2.700	11/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.70.xx * Express VI version 2.0.0 * Added <ul style="list-style-type: none"> - rscmwgprf Configure Generator ARB Trigger Slope.vi * Modified <ul style="list-style-type: none"> - rscmwgprf Configure Spectrum Measurement Frequency Center Span.vi - Center range removed
3.2.400	04/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.400 - Update Instance range to 16
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.100 * Added <ul style="list-style-type: none"> - Spectrum Analyzer >> Marker - rscmwgprf Fetch Power Measurement Sample Set Particular.vi - rscmwgprf Read Power Measurement IQ Data Particular.vi - rscmwgprf Fetch Power Measurement IQ Data Particular.vi - rscmwgprf Fetch Power Measurement IQ Data BinaryParticular.vi - rscmwgprf Configure Spectrum Measurement Trigger Timeout State.vi - rscmwgprf Configure IQ Vs Slot Measurement Trigger Timeout State.vi - rscmwgprf Configure IQ Recorder Measurement Trigger Timeout State.vi - rscmwgprf Query Generator Active List Index.vi - rscmwgprf Initiate List Cycling.vi - rscmwgprf Configure Power Measurement List TX Increment Timing.vi - rscmwgprf Configure Power Measurement Parameter Predefined Set.vi

rscmwgprf driver for GPRF**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgprf Query Power Measurement Parameter Predefined Sets Catalog.vi - rscmwgprf Configure Power Measurement Trigger Timeout State.vi - rscmwgprf Configure FFT Measurement Trigger Timeout State.vi - rscmwgprf Configure Analyzer Frequency Offset.vi * Modified - rscmwgprf Configure Analyzer Stand Alone Scenario.vi - Converter RX3, RX4 - rscmwgprf Query Analyzer Scenario.vi - Converter RX3, RX4 - rscmwgprf Configure Generator Stand Alone Scenario.vi - Converter TX3, TX4 - rscmwgprf Configure Generator IQ Out Scenario.vi - Connector IQ60, IQ80 - rscmwgprf Query Generator Signal Routing.vi - Converter TX3, TX4, ITX1, ITX2 - rscmwgprf Configure Generator List.vi - Dwell Time max value - rscmwgprf Configure Generator List Index Repetition.vi - Repetition max value - rscmwgprf Configure Generator List Single Index Repetition.vi - Max values - rscmwgprf Fill Generator List.vi - Index Repetition max value - rscmwgprf Configure Power Measurement Single Parameter Set.vi - Offset default value - rscmwgprf Configure Power Measurement List Index.vi - Index max value - rscmwgprf Configure Power Measurement List Range.vi - Max values - rscmwgprf Configure Power Measurement List Single IQ Data Enable.vi - Index max value - rscmwgprf Configure Power Measurement List Single Index Repetition.vi - Index max value - rscmwgprf Configure Power Measurement List Single Retrigger.vi - Index max value - rscmwgprf Configure Power Measurement List Single Parameter Set.vi - Index max value - rscmwgprf Fetch Power Measurement Parameter Sample Set.vi - Index max value - rscmwgprf Read Power Measurement IQ Data.vi - Index max value - rscmwgprf Fetch Power Measurement IQ Data.vi - Index max value - rscmwgprf Fetch Power Measurement IQ Data Bin.vi - Index max value - rscmwgprf Configure Spectrum Measurement Frequency Start Stop.vi - Start/Stop ranges
3.0.121	01/2013	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.12.xx * Added - rscmwgprf Read Power Measurement IQ Data.vi - rscmwgprf Configure Power Measurement Trigger TX Increment Timing.vi * Modified - rscmwgprf Query Generator Reliability.vi - redesigned to provide more information - rscmwgprf Fetch Power Measurement IQ Data.vi - changed maximum index - rscmwgprf Fetch Power Measurement Sample Set.vi - added new result * Removed - RSCMWGPRF_ATTR_GENERATOR_RELIABILITY
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.12.xx * Added - Spectrum Analyzer - Digital I/Q Settings - rscmwgprf Configure Analyzer Measure IQ In Scenario.vi - rscmwgprf Configure Generator IQ Out Scenario.vi - rscmwgprf Query Generator Reliability.vi - rscmwgprf Configure Generator ARB Trigger Delay.vi - rscmwgprf Configure Generator ARB File Samples Subrange.vi - rscmwgprf Query Generator ARB File Option.vi - rscmwgprf Fill Generator List.vi - rscmwgprf Read Power Measurement List Mode.vi

rscmwgprf driver for GPRF		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgprf Fetch Power Measurement List Mode.vi - rscmwgprf Power Measurement Error Code List Mode.vi - rscmwgprf Read Power Measurement Standard Deviation List Mode.vi - rscmwgprf Fetch Power Measurement Standard Deviation List Mode.vi - rscmwgprf Power Measurement Standard Deviation Error Code List Mode.vi - rscmwgprf Fetch Power Measurement Statistics Trace.vi - rscmwgprf Fetch Power Measurement CCDF Percentiles.vi - rscmwgprf Fetch Power Measurement CCDF Statistic Results.vi - rscmwgprf Fetch Power Measurement Sample Statistic Counters.vi - rscmwgprf Configure IQ Recorder Measurement Format.vi - rscmwgprf Configure IQ Recorder Measurement Sample Rate.vi * Modified - rscmwgprf Fetch Power Measurement IQ Data Binary
2.1.252	02/2012	Modifications: <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.251	02/2012	Modifications: <ul style="list-style-type: none"> - Upgraded core
2.1.250	12/2011	Release for CMW firmware version 2.1.25.xx * Added <ul style="list-style-type: none"> - rscmwgprf Configure Power Measurement List Single Parameter Set.vi - rscmwgprf Configure Power Measurement Parameter Set.vi - rscmwgprf Configure Power Measurement Parameter Bandwidth.vi - rscmwgprf Configure Power Measurement List IQ Data Capture.vi - rscmwgprf Configure Power Measurement List Magnitude Unit.vi - rscmwgprf Configure Power Measurement List Single IQ Data Enable.vi - rscmwgprf Configure Power Measurement List IQ Data Enable.vi - rscmwgprf Configure Power Measurement Parameter Set Mode.vi - rscmwgprf Configure Power Measurement Single Parameter Set.vi - rscmwgprf Configure Power Measurement List Parameter Set.vi - rscmwgprf Fetch Power Measurement Sample Set.vi - rscmwgprf Fetch Power Measurement IQ Data.vi - rscmwgprf Fetch Power Measurement IQ Data Binary.vi - rscmwgprf Configure IQ Recorder Measurement Magnitude Unit.vi - RSCMWGPRF_ATTR_POWER_MEASUREMENT_LIST_IQ_DATA_CAPTURE - RSCMWGPRF_ATTR_POWER_MEASUREMENT_LIST_MAGNITUDE_UNIT - RSCMWGPRF_ATTR_POWER_MEASUREMENT_PARAMETER_SET_MODE - RSCMWGPRF_ATTR_IQ_RECORDER_MEASUREMENT_MAGNITUDE_UNIT
2.0.110	04/2011	Release for CMW firmware version 2.0.11.xx * Added <ul style="list-style-type: none"> - rscmwgprf Configure Generator Stand Alone Scenario.vi - rscmwgprf Query Generator Signal Routing.vi - rscmwgprf Configure Generator External Attenuation.vi - rscmwgprf Configure Generator List Index Repetition.vi - rscmwgprf Query Generator List Index Repetition.vi - rscmwgprf Configure Generator List Single Index Repetition.vi - rscmwgprf Query Generator List Single Index Repetition.vi - rscmwgprf Configure Generator List Index Reenable.vi - rscmwgprf Query Generator List Index Reenable.vi - rscmwgprf Configure Generator List Single Index Reenable.vi - rscmwgprf Query Generator List Single Index Reenable.vi

rscmwgprf driver for GPRF

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwgprf Configure Power Sensor Measurement Timeout.vi - rscmwgprf Configure Power Measurement List Single Index Repetition.vi - rscmwgprf Configure Power Measurement List Index Repetition.vi - rscmwgprf Configure Power Measurement List Single Retrigger.vi - rscmwgprf Configure Power Measurement List Retrigger.vi - rscmwgprf Configure IQ vs Slot Measurement Trigger Mode.vi - rscmwgprf Configure IQ vs Slot Measurement Single Index Retrigger.vi - rscmwgprf Configure IQ vs Slot Measurement Retrigger.vi - rscmwgprf Configure IQ vs Slot Measurement Timeout.vi - rscmwgprf Configure IQ Recorder Measurement Timeout.vi - rscmwgprf Configure FFT Measurement Timeout.vi * Modified - rscmwgprf Configure Analyzer Stand Alone Scenario.vi * Removed - rscmwgprf Configure Analyzer Scenario.vi - rscmwgprf Configure Generator Signal Routing.vi
1.0.152	06/2010	<p>Release for CMW firmware version 1.0.15.20</p> <p>Added functions/attributes</p> <ul style="list-style-type: none"> - rscmwgprf Query Analyzer Combined Signal Path Scenario Catalog.vi - rscmwgprf Query Analyzer Scenario.vi - rscmwgprf Query Generator ARB Multisegment Next Segment.vi - rscmwgprf Query Generator ARB File Version.vi - rscmwgprf Query Generator ARB Multisegment Clock Rate.vi - rscmwgprf Query Generator ARB Multisegment Duration.vi - rscmwgprf Query Generator ARB Multisegment Name.vi - rscmwgprf Query Generator ARB Multisegment Number.vi - rscmwgprf Query Generator ARB Multisegment Peak To Average Ratio.vi - rscmwgprf Query Generator ARB Multisegment Peak Offset.vi - rscmwgprf Query Generator ARB Multisegment Samples.vi - rscmwgprf Restart List Generator.vi - rscmwgprf Configure Power Measurement List Index.vi - rscmwgprf Fetch IQ Recorder Meas Reliability.vi - RSCMWGPRF_ATTR_ARB_SEGMENT_NEXT - RSCMWGPRF_ATTR_ARB_FILE_VERSION - RSCMWGPRF_ATTR_ARB_MULTISEGMENT_CLOCK_RATE - RSCMWGPRF_ATTR_ARB_MULTISEGMENT_DURATION - RSCMWGPRF_ATTR_LIST_MODE_RESTART
1.0.150	12/2009	<p>Release for CMW firmware version 1.0.15</p> <p>Removed functions</p> <ul style="list-style-type: none"> - rscmwgprf Configure Signal Routing.vi <p>Added functions/attributes</p> <ul style="list-style-type: none"> - rscmwgprf Configure Analyzer External Attenuation.vi - rscmwgprf Configure Analyzer Scenario.vi - rscmwgprf Configure Analyzer Stand Alone Scenario.vi - rscmwgprf Configure Analyzer Combined Signal Path Scenario.vi - rscmwgprf Configure Analyzer Mixer Level Offset.vi - rscmwgprf Configure Generator ARB Additional Samples.vi - rscmwgprf Configure Generator ARB Marker Delay.vi - rscmwgprf Configure Generator ARB User Defined Marker.vi - rscmwgprf Query Generator ARB Multisegment Current Segment.vi

rscmwgprf driver for GPRF**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWGPRF_ATTR_ANALYZER_COMBINED_SIGNAL_PATH_SCENARIO - RSCMWGPRF_ATTR_ANALYZER_MIXER_LEVEL_OFFSET - RSCMWGPRF_ATTR_ARB_ADDITIONAL_SAMPLES
1.0.100	07/2009	<p>Release for CMW firmware version 1.0.10.1</p> <p>Removed attributes</p> <ul style="list-style-type: none"> - RSCMWGPRF_ATTR_LIST_MODE - RSCMWGPRF_ATTR_LIST_MODE_CURRENT_INDEX <p>Removed VIs</p> <ul style="list-style-type: none"> - rscmwgprf Configure Generator List Mode.vi - rscmwgprf Configure Generator List Current Step.vi <p>Added VIs/attributes</p> <ul style="list-style-type: none"> - rscmwgprf Configure Generator Digital Gain.vi - ARB - rscmwgprf Configure Generator List Start Position.vi - rscmwgprf Configure Generator List Statistics.vi - rscmwgprf Configure Generator List Stepping.vi - rscmwgprf Query Generator Increment Mode Catalog.vi - rscmwgprf Query Generator Increment Initial Trigger Mode Catalog.vi - rscmwgprf Query Power Measurement Trigger Source Catalog.vi - rscmwgprf Power Measurement Error Codes.vi - rscmwgprf Query IQ vs Slot Measurement Trigger Source Catalog.vi - rscmwgprf Query IQ vs Slot Measurement Trigger Source Catalog.vi - rscmwgprf Configure IQ Recorder Measurement Ratio.vi - rscmwgprf Configure IQ Recorder Measurement List.vi - rscmwgprf rscmwgprf_QueryIQRecorderMeasurementListLength.vi - rscmwgprf Configure IQ Recorder Measurement List Range.vi - rscmwgprf Configure FFT Measurement Peak Search Markers.vi - rscmwgprf IQ vs Slot Measurement Overall Frequency Error Error Codes.vi - RSCMWGPRF_ATTR_FFT_MEASUREMENT_PEAK_SEARCH_MARKERS - RSCMWGPRF_ATTR_ANALYZER_SCENARIO - rscmwgprf Configure Analyzer Scenario.vi <p>Modified VIs/attributes</p> <ul style="list-style-type: none"> - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_SOURCE - changed command, changed data type - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_SLOPE - changed command - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_THRESHOLD - changed command - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_OFFSET - changed command - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_TIMEOUT - changed command - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_MODE - changed command - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_GAP - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_SOURCE - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_SLOPE - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_THRESHOLD - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_OFFSET - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_TIMEOUT - changed command - RSCMWGPRF_ATTR_IQ_VS_SLOT_MEASUREMENT_TRIGGER_GAP - changed command - rscmwgprf Configure IQ vs Slot Measurement Trigger.vi - changed API - rscmwgprf Configure Power Measurement Trigger.vi - changed API

rscmwgprf driver for GPRF		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		- rscmwgprf Configure IQ vs Slot Measurement List.vi - fixed maximum list length
1.0.50	12/2008	Release for CMW firmware version 1.0.53 - Added Features: - FFT Spectrum Analyzer
1.0.40	07/2008	Release for CMW firmware version 1.0.4 Modified: Modified VIs/attributes: - rscmwgprf Configure Generator List.vi - completely redesigned - New functions/attributes: - RSCMWGPRF_ATTR_LIST_MODE_SINGLE_CYCLE - rscmwgprf_InitiateListSingleCycle - RSCMWGPRF_ATTR_POWER_MEASUREMENT_TRIGGER_GAP - rscmwgprf_ConfigurePwrMeasTriggerGap - IQ vs Slot measurement subsystem
1.20	05/2008	Release for CMW firmware version 1.0.2 Initial release

15 RScmwLM - LTE Measurement (4.0.200)

rscmwlm driver for LTE Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
4.0.200	07/2022	<ul style="list-style-type: none"> * Update for firmware version 4.0.20 * New core 7.3.0 * New: <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement eMTC Maximum Bandwidth.vi - rscmwlm Configure List Segment PLC ID Mode.vi - rscmwlm Configure List Segment PLC ID.vi - rscmwlm Fetch Multi Evaluation List Mode Total TX Power SCC.vi - rscmwlm Configure Multi Evaluation Measurement Trigger IF Power Narrowband.vi * Updated: <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Requirements Channel.vi - Channel Bandwidth 1 range updated - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Area Channel.vi - Channel Bandwidth 1 range updated - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation OBW Channel.vi - Channel Bandwidth 1 range updated - rscmwlm Configure List Segment - Retrigger Flag and Network Signaled Value ranges updated - rscmwlm Configure Multi Evaluation Measurement Network Value.vi - range extended, FP's parameter changed from ring to input
3.7.700	06/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.70 * New: <ul style="list-style-type: none"> - rscmwlm Query Multi Evaluation Spectrum Emission RBW.vi
3.7.550	05/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.55 * New functions/attributes <ul style="list-style-type: none"> - rscmwlm Configure Measurement Signal Type.vi - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation ModeCSP.vi - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation Mapping.vi - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation MappingPCC.vi - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation MappingSCC.vi - rscmwlm Adjust Multi Evaluation Measurement Carrier Aggregation.vi - rscmwlm Query Multi Evaluation Measurement Instance And Carrier Same CMW.vi - rscmwlm Configure Multi Evaluation Measurement Offset RB.vi - rscmwlm Configure Multi Evaluation Measurement RB Allocation NRB PSSCH.vi - rscmwlm Configure Multi Evaluation Measurement RB Allocation NRB PSSCH.vi - rscmwlm Configure Multi Evaluation Measurement RB Allocation Offset PSSCH.vi - rscmwlm Configure Multi Evaluation Measurement RB Allocation Offset PSSCH.vi - rscmwlm Configure Multi Evaluation Measurement Sidelink Channel Type.vi - rscmwlm Configure Multi Eval Measurement Modulation Equalizer.vi - rscmwlm Configure List Segment Resource Block Allocation Sidelink.vi - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Requirements Sidelink.vi - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Additional Tolerance.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation ACLR Channel 3 Carriers.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation OBW Channel 3 Carriers.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Area Channel 3 Carriers.vi - rscmwlm Read Multi Evaluation Meas Spectrum Flatness Trace Phase.vi - rscmwlm Fetch Multi Evaluation Meas Spectrum Flatness Trace Phase.vi - rscmwlm Read Multi Evaluation Meas Power Monitor Single Results SCC.vi

rscmwlm driver for LTE Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Fetch Multi Evaluation Meas Power Monitor Single Results SCC.vi - rscmwlm Fetch Multi Evaluation Meas List Mode Sidelink Channel Type.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Sidelink Channel Type.vi - rscmwlm Fetch Multi Evaluation Meas Sidelink Channel Type.vi <p>* Updated functions:</p> <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement Carrier Aggregation Mode.vi - ICD, ICE added - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation Mode CSP.vi - ring values changed - rscmwlm Configure Multi Evaluation Measurement Carrier Aggregation SCC.vi - command changed from SCC to CC - rscmwlm Configure Multi Evaluation Measurement Network Value.vi - NS 33 added - rscmwlm Configure Multi Evaluation Measurement Network ValueCarrierAggregation.vi - NS 33 added - rscmwlm Configure Multi Evaluation Measurement SCC PLC ID.vi - API changed, command changed from SCC to CC - rscmwlm Configure Multi Evaluation Measurement Modulation.vi - Q256 added - rscmwlm Configure List Segment.vi - NS33, PSSCH, PSCCH added - rscmwlm Configure List Segment SCC.vi - SCC to CC - rscmwlm Configure List Segment Component Carrier.vi - command and values changed - rscmwlm Configure List Segment Modulation.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits EVM.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Magnitude Error.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Phase Error.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Carrier Frequency Error.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits IQ Offset.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Inband Emission.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Inband Emission IQ Offset.vi - Q256 added - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Area.vi - help changed - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Requirements.vi - help changed - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Area Channel.vi - help changed - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Area Combination.vi - help changed - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Requirements Channel.vi - frequencies range - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Requirements Combination.vi - frequencies range - rscmwlm Read Multi Evaluation Meas Inband Emission Trace SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Inband Emission Trace SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Inband Emission SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Inband Emission Extreme SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Inband Emission RB Index SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Inband Emission RB Index Extreme SCC.vi - command changed from SCC to CC - rscmwlm Read Multi Evaluation Meas RB Allocation Table SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas RB Allocation Table SCC.vi - command changed from SCC to CC - rscmwlm Read Multi Evaluation Meas Power Monitor SCC.vi - command changed from SCC to CC

rscmwlm driver for LTE Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Fetch Multi Evaluation Meas Power Monitor SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas List Mode Detected Modulation Scheme.vi - Q256 added - rscmwlm Fetch Multi Evaluation List Mode All Segments Detected Modulation.vi - Q256 added - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission Margin SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission Margin Extreme SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission RB Index SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission RB Index Extreme SCC.vi - command changed from SCC to CC - rscmwlm Fetch Multi Evaluation Meas Detected Modulation Scheme.vi - Q256 added
3.7.100	01/2018	<ul style="list-style-type: none"> * Update for firmware version 3.7.10 * New functions/attributes - rscmwlm Configure Analyzer eMTC.vi - rscmwlm Configure Multi Evaluation Measurement LO Location.vi - rscmwlm Configure Multi Evaluation Measurement RB Allocation Narrowband.vi - rscmwlm Configure List Segment eMTC Narrowband.vi * Updated functions: - Initialize.vi, Initialize with Options.vi, Close.vi and Utility VIs have new VI icons - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Requirements.vi - Table, Resolution Bandwidth updated - rscmwlm Configure Multi Evaluation Measurement Network Value.vi - Network Signaled Value updated - rscmwlm Configure Multi Evaluation Measurement Network Value Carrier Aggregation.vi - Network Signaled Value updated - rscmwlm Configure List Segment.vi - Network Signaled Value updated - rscmwlm Configure PRACH Preambles Numbers.vi - maximum increased - rscmwlm Read Multi Evaluation Spectrum Emission Traces.vi - Resolution Bandwidth updated - rscmwlm Fetch Multi Evaluation Spectrum Emission Traces.vi - Resolution Bandwidth updated - rscmwlm Read PRACH Modulation Preamble Result.vi - Number Of Preamble max increased - rscmwlm Fetch PRACH Modulation Preamble Result.vi - Number Of Preamble max increased - rscmwlm Fetch PRACH Multi Preamble Frequency Offset.vi - Number Of Preamble max increased - rscmwlm Fetch PRACH Multi Preamble Sequence Index.vi - Number Of Preamble max increased - rscmwlm Fetch PRACH Multi Preamble Sequence Correlation.vi - Number Of Preamble max increased
3.5.510	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.51 * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New functions/attributes - rscmwlm Configure Multi Evaluation Measurement RB Allocation Multicluster.vi - rscmwlm Configure List Segment Power.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Total TX Power.vi - rscmwlm Query Multi Evaluation List Mode All Segments Total TX Power Limt Check.vi

rscmwlm driver for LTE Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Fetch Multi Evaluation List Mode Total TX Power.vi - rscmwlm Query Multi Evaluation List Mode Total TX Power Limit Check.vi <p>* Updated functions:</p> <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation ACLR Channel.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation OBW Channel.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Area Channel.vi - rscmwlm Configure Multi Evaluation Limits Carrier Aggregation SEM Requirements Channel.vi
3.5.400	11/2016	<p>* New VIs:</p> <ul style="list-style-type: none"> - rscmwlm_ConfigureMulti Evaluation MeasurementMeasureSlot.vi - rscmwlm Configure Multi Evaluation Measurement EVM vs Symbol.vi - rscmwlm Configure List Segment SCC.vi - rscmwlm Configure List Segment Component Carrier.vi - rscmwlm Adjust List Segment SCC Frequency.vi - rscmwlm Read Multi Evaluation Meas EVM Peak.vi - rscmwlm Fetch Multi Evaluation Meas EVM Peak.vi - rscmwlm Read Multi Evaluation Meas EVM Vs Modulation Symbol.vi - rscmwlm Fetch Multi Evaluation Meas EVM Vs Modulation Symbol.vi - rscmwlm Read Multi Evaluation Meas Power Monitor Single Results.vi - rscmwlm Fetch Multi Evaluation Meas Power Monitor Single Results.vi - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission Margin SCC.vi - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission Margin Extreme SCC.vi - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission RB Index SCC.vi - rscmwlm Fetch Multi Evaluation Meas List Mode Inband Emission RB Index Extreme SCC.vi - rscmwlm Clear Status.vi - rscmwlm ID Query Response.vi - rscmwlm Process All Previous Commands.vi - rscmwlm QueryOPC.vi - rscmwlm Bin Data From File To Instrument.vi - rscmwlm Bin Data To File From Instrument.vi - rscmwlm Read To File From Instrument.vi - rscmwlm Write From File To Instrument.vi <p>* Updated VIs:</p> <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Stand Alone Scenario.vi - new values - rscmwlm Configure Analyzer.vi - band range - rscmwlm Query Signal Routing.vi - new values - rscmwlm Query Multi Evaluation Measurement Carrier Aggregation Aggregated.vi - ranges changed - rscmwlm Configure List Segment.vi - Band range - rscmwlm Read Multi Evaluation Meas Modulation.vi - New values - rscmwlm Fetch Multi Evaluation Meas Modulation.vi - New values - rscmwlm Query Multi Evaluation Meas Modulation Limit Check Results.vi - New values - rscmwlm Read Multi Evaluation Meas Modulation Standard Deviation.vi - New values - rscmwlm Fetch Multi Evaluation Meas Modulation Standard Deviation.vi - New values - rscmwlm Query Multi Evaluation Meas Modulation Standard Deviation Limit Check Results.vi - New values <p>values</p> <ul style="list-style-type: none"> - rscmwlm Read Multi Evaluation Meas Modulation Extreme.vi - New values - rscmwlm Fetch Multi Evaluation Meas Modulation Extreme.vi - New values - rscmwlm Query Multi Evaluation Meas Modulation Extreme Limit Check Results.vi - New values - rscmwlm Configure List Segment Modulation.vi
3.5.210	11/2015	<p>* New functions:</p> <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement SCC PLC ID.vi <p>* Updated functions:</p>

rscmwlm driver for LTE Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement Carrier Aggregation Carrier.vi - rscmwlm Configure PRACH Preambles Numbers.vi - rscmwlm Configure PRACH Preambles Period.vi - rscmwlm Read PRACH Modulation Preamble Result.vi - rscmwlm Fetch PRACH Modulation Preamble Result.vi - rscmwlm Fetch PRACH Multi Preamble Frequency Offset.vi - rscmwlm Fetch PRACH Multi Preamble Sequence Index.vi - rscmwlm Fetch PRACH Multi Preamble Sequence Correlation.vi
3.5.100	04/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.100 * New: <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Scenario Combined Signal Path.vi - rscmwlm Configure List CMWS Connector Mode.vi - rscmwlm Configure List Segment CMWS Connector.vi - rscmwlm Configure Multi Evaluation Measurement Carrier Agregation LO Location.vi - rscmwlm Configure PRACH Preambles Period.vi - rscmwlm Configure Multi Evaluation Meas Trigger.vi * Deprecated: <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Combined Signal Path Scenario.vi - rscmwlm Configure Multi Evaluation Measurement Trigger.vi
3.2.820	10/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.82 * Express VI version 1.50.1 * New functions/attributes <ul style="list-style-type: none"> - rscmwlm_ReadMultiEvaluationMeasModulationEVMSubcarrierTrace - rscmwlm_FetchMultiEvaluationMeasModulationEVMSubcarrierTrace - rscmwlm_ReadMultiEvaluationMeasModulationEVMSubcarrierTraceStandardDeviation - rscmwlm_FetchMultiEvaluationMeasModulationEVMSubcarrierTraceStandardDeviation * Updated functions <ul style="list-style-type: none"> - rscmwlm_ConfigureMultiEvaluationMeasurementNetworkValue - rscmwlm_ConfigureListSegment - rscmwlm_ConfigureMultiEvaluationLimitsSpectrumEmissionMaskArea - rscmwlm_ConfigureMultiEvaluationLimitsSpectrumEmissionMaskRequirements - rscmwlm_ConfigureMultiEvaluationLimitsCarrierAggregationSEMAreaChannel - rscmwlm_ConfigureMultiEvaluationLimitsCarrierAggregationSEMAreaCombination - rscmwlm_ConfigureMultiEvaluationLimitsCarrierAggregationSEMRequirementsChannel - rscmwlm_ConfigureMultiEvaluationLimitsCarrierAggregationSEMRequirementsCombination - rscmwlm_FetchMultiEvaluationSpectrumEmissionMargin - rscmwlm_FetchMultiEvaluationMeasListModeSpectrumEmissionMargin - rscmwlm_FetchMultiEvaluationListModeSpectrumEmissionMarginPositions
3.2.701	05/2014	<ul style="list-style-type: none"> * Fixed rscmwlm Configure Multi Evaluation Measurement Modulation.vi - swapped item texts of 16-QAM and 64-QAM of control 'Modulation Scheme'
3.2.700	04/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * New subsystems <ul style="list-style-type: none"> - Carrier Aggregation - Power - Inband Emission SCC - RB Allocation Table SCC - Power Monitor SCC * New <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement Network Value Carrier Agregation.vi * Modified <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Stand Alone Scenario.vi - RX3, RX 4

rscmwlm driver for LTE Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Query Signal Routing.vi - RX3, RX 4 - rscmwlm Configure Multi Evaluation Measurement Network Value.vi - NS17 - 20 - rscmwlm Configure List Segment.vi - Changed API - Modulation results functions - added Gain Imbalance and Quadrature result
3.2.100	08/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.10.x * New - rscmwlm Configure Frequency Offset.vi * Modified - rscmwlm Configure Analyzer.vi - operating band range changed to 44 - rscmwlm Fetch Multi Evaluation List Mode Power Monitor Offset.vi - changed maximum number of segments - rscmwlm Configure List Range.vi - number of measured segments increased to 1000
3.0.300	01/2013	<ul style="list-style-type: none"> Modifications: * Update for firmware version 3.0.30 * New functions/attributes - rscmwlm Fetch Multi Evaluation View Filter Throughput.vi
3.0.120	06/2012	<ul style="list-style-type: none"> Modifications: * Update for firmware version 3.0.12 * New functions/attributes - rscmwlm Configure Multi Evaluation BLER Measurement Scheduled Subframes.vi - rscmwlm Configure Multi Evaluation Measurement High Dynamic Mode State.vi - rscmwlm Configure Multi Evaluation Measurement Expected Nominal Power.vi - rscmwlm Configure Multi Evaluation Measurement Subframe Counts.vi - rscmwlm Query Multi Evaluation Measurement Reference Level.vi - rscmwlm Configure Multi Evaluation Measurement SRS State.vi - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_SRS_STATE - rscmwlm Configure List Segment Resource Block Allocation.vi - rscmwlm Configure Multi Evaluation Measurement Trigger Acquisition Mode.vi - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_ACQUISITION_MODE - rscmwlm Read Multi Evaluation Block Error Ratio.vi - rscmwlm Fetch Multi Evaluation Block Error Ratio.vi - rscmwlm_FetchMultiEvaluationListModeAllSegmentsACLR - rscmwlm Fetch Multi Evaluation List Mode All Segments ACLR.vi - rscmwlm Query Multi Evaluation List Mode All Segments ACLR Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments First Adjacent E-UTRA Channel.vi - rscmwlm Query Multi Evaluation Limit Check List Mode First Adjacent E-UTRA Channel.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Adjacent UTRA Channel.vi - rscmwlm Query Multi Evaluation Limit Check List Mode All Adjacent UTRA Channel.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Carrier Frequency Error.vi - rscmwlm Query Multi Evaluation List Mode All Carrier Frequency Error Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments IQ Offset.vi - rscmwlm Query Multi Evaluation List Mode All Segments IQ Offset Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Peak Power.vi - rscmwlm Query Multi Evaluation List Mode All Segments Peak Power Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Power Spectral Density.vi - rscmwlm Query Multi Evaluation List Mode All Power Spectral Density Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Transmit Time Error.vi - rscmwlm Query Multi Evaluation List Mode All Transmit Time Error Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments TX Power.vi - rscmwlm Query Multi Evaluation List Mode All Segments TX Power Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Detected Allocation.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Detected Channel Type.vi

rscmwlm driver for LTE Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Fetch Multi Evaluation List Mode All Segments Reliability.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Detected Modulation.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Inband Emission Margin.vi - rscmwlm Fetch Multi Evaluation List Mode All Segments Inband Emission Ressource Block.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Differences.vi - rscmwlm Query List Mode Equalizer Spectrum Flatness Differences Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Maximum.vi - rscmwlm Query List Mode Equalizer Spectrum Flatness Maximum Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Minimum.vi - rscmwlm Query List Mode Equalizer Spectrum Flatness Minimum Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Ripples.vi - rscmwlm Query List Mode Equalizer Spectrum Flatness Ripple Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Subcarrier Index.vi - rscmwlm Fetch Multi Evaluation List Mode Spectrum Emission Occupied Bandwidth.vi - rscmwlm Query Multi Evaluation Spectrum Emission Occupied Bandwidth Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Spectrum Emission TX Power.vi - rscmwlm Query Multi Evaluation List Mode Spectrum Emission TX Power Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Spectrum Emission Margin Positions.vi - rscmwlm Fetch Multi Evaluation List Mode Magnitude Error DMRS.vi - rscmwlm Query Multi Evaluation List Mode Magnitude Error DMRS Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Magnitude Error Peak.vi - rscmwlm Query Multi Evaluation List Mode Magnitude Error Peak Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Magnitude Error RMS.vi - rscmwlm Query Multi Evaluation List Mode Magnitude Error RMS Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Phase Error DMRS.vi - rscmwlm Query Multi Evaluation List Mode Phase Error DMRS Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Phase Error Peak.vi - rscmwlm Query Multi Evaluation List Mode Phase Error Peak Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode Phase Error RMS.vi - rscmwlm Query Multi Evaluation List Mode Phase Error RMS Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode EVM Demodulation Reference Signal.vi - rscmwlm Query Multi Evaluation EVM Demodulation Reference Signal Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode EVM Peak.vi - rscmwlm Query Multi Evaluation List Mode EVM Peak Limit Check.vi - rscmwlm Fetch Multi Evaluation List Mode EVM RMS.vi - rscmwlm Query Multi Evaluation List Mode EVM RMS Limit Check.vi - rscmwlm Configure PRACH Power High Dynamic Mode.vi - RSCMWLM_ATTR_PRACH_POWER_HIGH_DYNAMIC_MODE - rscmwlm Configure SRS High Dynamic Mode.vi - RSCMWLM_ATTR_SRS_HIGH_DYNAMIC_MODE * Updated functions - rscmwlm Analyzer Measure Protocol Test Scenario.vi - Addition of the control (Controller) - rscmwlm Read Multi Evaluation Equalizer Spectrum Flatness.vi - rscmwlm Fetch Multi Evaluation Equalizer Spectrum Flatness.vi - rscmwlm Read Multi Evaluation Equalizer Spectrum Flatness Extreme.vi - rscmwlm Fetch Multi Evaluation Equalizer Spectrum Flatness Extreme.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness.vi - rscmwlm Fetch Multi Evaluation List Mode Equalizer Spectrum Flatness Extreme.vi
2.1.201	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.200	07/2011	Release for CMW firmware version 2.1.20.x

rscmwlm driver for LTE Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100

Revision	Date	Note
		<ul style="list-style-type: none"> * New features - EVM vs Preamble - Power vs Preamble * New - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_MODE - RSCMWLM_ATTR_PRACH_MEASUREMENT_PREAMBLES_NUMBER - rscmwlm Configure Multi Evaluation Measurement Mode.vi - rscmwlm Configure PRACH Preambles Numbers.vi - rscmwlm Read PRACH EVM vs Preamble Trace.vi - rscmwlm Fetch PRACH EVM vs Preamble Trace.vi - rscmwlm Read PRACH Power vs Preamble Trace.vi - rscmwlm Fetch PRACH Power vs Preamble Trace.vi - rscmwlm Read PRACH Modulation Preamble Result.vi - rscmwlm Fetch PRACH Modulation Preamble Result.vi - rscmwlm Fetch PRACH Multi Preamble Frequency Offset.vi - rscmwlm Fetch PRACH Multi Preamble Sequence Index.vi - rscmwlm Fetch PRACH Multi Preamble Sequence Correlation.vi * Updated - rscmwlm Configure PRACH Results.vi - rscmwlm Configure PRACH Results All.vi
2.1.100	07/2011	<p>Release for CMW firmware version 2.1.10.xx</p> <ul style="list-style-type: none"> * New - Power Monitor in list mode - SRS Measurement - rscmwlm Configure Multi Evaluation Measurement Statistics Count.vi - rscmwlm Configure Multi Evaluation Measurement Network Value.vi - rscmwlm Configure Multi Evaluation Measurement Group Hopping.vi - rscmwlm Configure Multi Evaluation Measurement Exclusion Periods.vi - rscmwlm Configure List Segment Power Monitor.vi - rscmwlm Configure Multi Evaluation Limits Spectrum Emission Mask Requirements.vi - rscmwlm Query Multi Evaluation Equalizer Spectrum Flatness Limit Check.vi - rscmwlm Query Multi Evaluation Equalizer Spectrum Flatness Extreme Limit Check.vi - rscmwlm Query Multi Evaluation Limit Check List Mode ACLR.vi - rscmwlm Query Multi Evaluation List Mode Equalizer Spectrum Flatness Limit Check.vi - rscmwlm Query Multi Evaluation List Mode Equalizer Spectrum Flatness Extreme.vi - rscmwlm Query Multi Evaluation List Mode Modulation Limit Check.vi - rscmwlm Query Multi Evaluation List Mode Modulation Extreme Limit Check.vi * Updated - rscmwlm Fetch Multi Evaluation Detected Allocation.vi - added selection of result type - rscmwlm Fetch Multi Evaluation Detected Channel Type.vi - added selection of result type * Deleted - rscmwlm Configure PRACH Modulation EVM Window Length.vi
2.0.110	02/2011	<p>Release for CMW firmware version 2.0.11.xx</p> <ul style="list-style-type: none"> * New features - PRACH Measurement - Power Dynamics Measurement (part of Multi Evaluation Measurement) * New VIs/attributes - RSCMWLM_ATTR_MEASUREMENT_CHANNEL_BANDWIDTH - RSCMWLM_ATTR_MEASUREMENT_DUPLEX_MODE * Modified VIs/attributes

rscmwlm driver for LTE Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_RESULT - added new results, changed SFL to ESFL - rscmwlm Configure Multi Evaluation Measurement Results.vi - added new results - rscmwlm Configure Multi Evaluation Measurement Results All.vi - added new results - rscmwlm Fetch Multi Evaluation Measurement Spectrum Flatness Trace.vi, rscmwlm Fetch Multi Evaluation Measurement Spectrum Flatness Trace.vi - changed command syntax * Obsolete VIs/attributes - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_CHANNEL_BANDWIDTH - use RSCMWLM_ATTR_MEASUREMENT_CHANNEL_BANDWIDTH instead - RSCMWLM_ATTR_MULTI_EVAL_MEASUREMENT_DUPLEX_MODE - use RSCMWLM_ATTR_MEASUREMENT_DUPLEX_MODE instead - rscmwlm Fetch Multi Evaluation Measurement Spectrum Flatness Margin.vi
1.0.152	06/2010	Release for CMW firmware version 1.0.15.20 New features <ul style="list-style-type: none"> - Power Monitor results - RB Allocation Table results - New modulation measurement results New functions/attributes <ul style="list-style-type: none"> - rscmwlm Configure Multi Evaluation Measurement Spectrum Emission Mask Meas Filter.vi - rscmwlm Configure Multi Evaluation Measurement Subframe.vi - rscmwlm Configure Multi Evaluation Measurement Subframe Channel Type.vi - rscmwlm Configure Analyzer Mixer Level Offset.vi - rscmwlm Analyzer Measure Protocol Test Scenario.vi - rscmwlm Configure Analyzer Combined Signal Path Scenario.vi Obsolete functions <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Scenario.vi
1.0.150	12/2009	Release for CMW firmware version 1.0.15 New functions/attributes <ul style="list-style-type: none"> - Limits Check Results - rscmwlm Configure Analyzer Scenario.vi - rscmwlm Configure Analyzer Stand Alone Scenario.vi - rscmwlm Configure Analyzer External Attenuation.vi - rscmwlm Configure Multi Evaluation Measurement PUCCH.vi - rscmwlm Configure Multi Evaluation Measurement Channel Type.vi - rscmwlm Configure Multi Evaluation Measurement Spectrum ACLR.vi
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Initial revision

16 RScmwLS - LTE Signaling (4.0.200)

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
4.0.200	08/2022	<ul style="list-style-type: none"> * Support for CMW version 4.0.20 * New core 7.3.0 * New: <ul style="list-style-type: none"> - rscmwls Configure SPS Interval Uplink.vi - rscmwls CBS User Coding Scheme.vi - rscmwls CBS User Coding Message.vi - rscmwls CBS Warning Area.vi - rscmwls Configure NAS Ciphering Algorithm.vi - rscmwls Configure Connection Skip UI Tx.vi - rscmwls Configure eMTC Compact Scheduling SF Pattern.vi - rscmwls Configure eMTC DL Compact Scheduling A Additional NB.vi - rscmwls Configure eMTC DL Auto Mode A Additional NB.vi - rscmwls Configure eMTC User Defined Channel SF Pattern.vi - rscmwls Configure eMTC DL User Defined Channel A Additional NB.vi - rscmwls Configure eMTC Max Bandwidth 5 MHz.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx4 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx4 nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx4 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 8CC nx4 nx4 nx4 nx4 nx4 nx4 nx4 Flexible.vi * Updated: <ul style="list-style-type: none"> - rscmwls CBS ID Type.vi - added Geo Fencing - rscmwls CBS Source.vi - added User Coded - rscmwls Configure RMC Downlink Settings.vi - rings updated - Number Of Resource Blocks, Transport Block Size Index - rscmwls Configure RMC Uplink Settings.vi - rings updated - Number Of Resource Blocks, Transport Block Size Index - rscmwls Configure RMC Uplink Multi Cluster Settings.vi - rings updated - Number Of RB Cluster 1, Number Of RB Cluster 2, Position Of RB Cluster 1, Position Of RB Cluster 2, Transport Block Size Index - rscmwls Configure eMTC UL Auto Mode A.vi - Resouce Blocks, Transport Block Size Index updated - rscmwls Configure LTE Neighbor Cell List.vi - updated Band ring values, Entry range updated - rscmwls Configure RF Signal Frequency.vi - updated Operating Band ring values - rscmwls Configure RF Signal Frequency Bandwidth.vi - Operating Band range updated - rscmwls Configure RF Signal Additionsl Frequency Bands.vi - Operating Band range updated - rscmwls Configure UE Capabilities RF Bands All.vi - Operating Band range updated

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Handover Prepare.vi - Operating Band range updated - rscmwls Configure Handover Enhanced.vi - Operating Band range updated - rscmwls Configure Handover External Prepare LTE.vi - Band range updated - rscmwls Query RF Signal Routing Settings.vi - Scenario range updated - rscmwls Query RF Signal Routing Settings Extended.vi - Scenario range updated - rscmwls Query RF Signal Routing Active Scenario.vi - Scenario range updated - rscmwls Query Inter Frequency Need For Gaps.vi - updated Array Size and Inter Frequency Need for Gaps - rscmwls Query Inter Frequency Need For Gaps V1020.vi - updated Array Size and Inter Frequency Need for Gaps - rscmwls Query UTRA-FDD Inter RAT Need For Gaps.vi - updated Array Size and Inter RAT Need for Gaps - rscmwls Query UTRA-FDD Inter RAT Need For Gaps TDD.vi - updated Array Size and Inter RAT Need for Gaps - rscmwls Query GERAN Inter RAT Need For Gaps.vi - updated Array Size and Inter RAT Need for Gaps - rscmwls Query GERAN Inter RAT Need For Gaps V1020.vi - updated Inter RAT Need for Gaps - rscmwls Query CDMA2000 HRPD Inter RAT Need For Gaps.vi - updated Array Size and Inter RAT Need for Gaps - rscmwls Query CDMA2000 1xRTT Inter RAT Need For Gaps.vi - updated Array Size and Inter RAT Need for Gaps - rscmwls Query RF Parameters Supported Band Combination.vi - Results range updated - rscmwls Query RF Parameters Requested Bands.vi - Requested Bands range updated - rscmwls Configure UE Category.vi - SCPI commands updated, UE Category changed to ring - rscmwls Configure SPS Interval.vi - SCPI command updated
3.7.700	08/2019	<ul style="list-style-type: none"> * Support for CMW version 3.7.70 * All SCC's range extended from 1 to 7 * New: <ul style="list-style-type: none"> - rscmwls Configure Intraband Continuous UL.vi - rscmwls Configure Signal Routing 5CC Fading nx2 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC Fading nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx2 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx2 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx2 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 5CC nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx1 nx1 nx1 nx1 nx1 nx1 Flexible.vi - rscmwls Configure Signal Routing 6CC nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx2 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx2 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx2 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC nx2 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 6CC nx4 nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 6CC Fading nx2 nx2 nx2 nx2 nx2 Flexible.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Signal Routing 6CC Fading nx4 nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 6CC Fading nx2 nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx1 nx1 nx1 nx1 nx1 nx1 nx1 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx4 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx4 nx4 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx4 nx4 nx4 nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC nx2 nx4 nx4 nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC Fading nx2 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC Fading nx4 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 7CC Fading nx2 nx4 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC nx1 nx1 nx1 nx1 nx1 nx1 nx1 nx1 Flexible.vi - rscmwls Configure Signal Routing 8CC nx2 nx2 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 8CC Fading nx2 nx2 nx2 nx2 nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC Fading nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC Fading nx2 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 4CC nx2 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 4CC nx2 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 4CC nx2 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 4CC Fading nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure RF Signal Additionsl Frequency Bands.vi - rscmwls Configure UE Measurement Allow Interupt.vi - rscmwls Query UE Capabilities CE Mode A.vi - rscmwls Query UE Capabilities CE Mode B.vi - rscmwls Query UE Capabilities LAA Downlink.vi - rscmwls Query UE Capabilities LAA Ending Dw PTS.vi - rscmwls Query UE Capabilities LAA Second Slot Starting Position.vi - rscmwls Query UE Capabilities LAA Transmission Mode.vi - rscmwls Query RF Parameters Supported Band Combination QAM Support.vi - rscmwls Query RF Parameters Supported Band Combination CSI Processes.vi - rscmwls Query RF Parameters Supported Band Combination Multiple Timing Advance.vi - rscmwls Query RF Parameters Supported Band Combination Simultaneous RxTx.vi - rscmwls Query RF Parameters Supported Band Combination DC Support Asynchronous.vi - rscmwls Query RF Parameters Supported Band Combination DC Support Cell Grouping.vi - rscmwls Query RF Parameters Supported Band Combination DC Support NAICS 2CRS AP.vi - rscmwls Query UE Meas RSSI And Chanel Occupancy Reporting.vi - rscmwls Configure Uplink Power Master CC.vi - rscmwls Configure Physical Cell 256-QAM UL Support.vi - rscmwls Configure Physical Cell RAR MCS.vi - rscmwls Configure Network Time Send Network Name.vi - rscmwls Configure Connection eCall Over IMS Support.vi - rscmwls Configure Connection Downlink Dedicated Bearer RLC Mode.vi - rscmwls Query FWBCQI MCS Table CSI-RS Determined SCC Table Name.vi - rscmwls Query Uplink Maximum Throughput Cell All.vi - rscmwls Configure Connection Use QAM.vi - rscmwls Configure eMTC DL NB Position.vi - rscmwls Configure eMTC UL NB Position.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Connection ROHC Additional.vi - rscmwls Configure Connection ROHC Uplink Only Enabled.vi - rscmwls Configure Connection IDC Hardware Sharing Information.vi - rscmwls Query PUCCH Actual Format For CA.vi - rscmwls Configure UL HARQ DCI-0 PHICH.vi - rscmwls Configure eMTC RMC DL NB Position.vi - rscmwls Query CQI Follow WB Automatically Determined Mapping Table Name.vi - rscmwls Query CQI Follow WB Mapping Table List.vi - rscmwls Query CQI RI Follow WB Automatically Determined Mapping Table Name.vi - rscmwls QueryCQIRIFollowWBspecialSubframeAutomaticallyDetMappingTableName - rscmwls Query CQI RI Follow WB Mapping Table List.vi - rscmwls Query CQI PMI RI Follow WB Automatically Determined Mapping Table Name.vi - rscmwls Query CQI PMI RI Follow WB CSI-RS Automatically Determined Mapping Table Name.vi - rscmwls Query CQI PMI RI Follow WB CSI-RS Mapping Table List.vi - rscmwls Configure eMTC DL Auto Mode B.vi - rscmwls Configure eMTC UL Auto Mode B.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwls Configure RF Signal Frequency.vi - add new bands - rscmwls Configure Handover Prepare.vi - Add spectrum control changed from enum to int - rscmwls Configure Handover Enhanced.vi - Add spectrum control changed from enum to int - rscmwls Query UE Capabilities UE Category DL.vi - Command changed - rscmwls Query UE Capabilities UE Category UL.vi - Command changed - rscmwls Configure Connection Settings.vi - Add Spec emm. control changed - rscmwls Configure Connection DL FB Channel Continuous F Subframes.vi - QAM 1024 added - rscmwls Configure Connection DL FB Channel Multi Cluster F Subframes.vi - QAM 1024 added - rscmwls Configure Connection DL FB Channel Continuous PIP Subframes.vi - QAM 1024 added - rscmwls Configure Connection DL FB Channel Multi Cluster PIP Subframes.vi - QAM 1024 added - rscmwls Configure Connection DL FB Channel Continuous PEP Subframes.vi - QAM 1024 added - rscmwls Configure Connection DL FB Channel Multi Cluster PEP Subframes.vi - QAM 1024 added - rscmwls Query PUCCH Actual Format For CA.vi - New formats - rscmwls Configure UL HARQ DCI-0 PHICH.vi - New values - rscmwls Configure RMC Downlink Settings.vi - QAM 1024 added - rscmwls Configure RMC Uplink Settings.vi - QAM64 added - rscmwls Configure RMC Uplink Multi Cluster Settings.vi - QPSK removed, Q64 added - rscmwls Configure User Defined Channel Downlink.vi - QAM 1024 added - rscmwls Configure User Defined Channel Multi Cluster Downlink.vi - QAM 1024 added - rscmwls Configure User Defined Channel Uplink.vi - QAM 256 added - rscmwls Configure User Defined Channel Multi Cluster Uplink.vi - QAM 64,256 added - rscmwls Configure User Defined TTI Based.vi - QAM 1024 added - rscmwls Configure User Defined TTI Based All.vi - QAM 1024 added - rscmwls Configure CQI Follow WB PMI.vi - QAM 1024 added - rscmwls Configure CQI Follow WB PMI Multi-Cluster DL Allocation.vi - QAM 1024 added - rscmwls Configure CQI Follow WB PMI RI.vi - QAM 1024 added - rscmwls Configure CQI Follow WB PMI RI Multi-Cluster DL Allocation.vi - QAM 1024 added - rscmwls Configure eMTC PUCCH Repetition.vi - Mode B add new values - rscmwls Configure eMTC CE Settings.vi - Mode B, removed level - rscmwls Fetch Extended BLER PMI RI Results.vi - RI Range - rscmwls Configure Connected Long DRX Cycle.vi <p>* Deleted:</p> <ul style="list-style-type: none"> - rscmwls Configure SCC Inband Contiguous To PCC.vi - rscmwls Configure IQ In.vi

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query IQ Out.vi - rscmwls Configure Flexible Scenario1 Cell 4 RF Out.vi - rscmwls Configure Flexible Scenario1 Cell IQ Out RF In.vi - rscmwls Configure Flexible Scenario 1 Cell Fading 1 RF Out External.vi - rscmwls Configure Flexible Scenario 1 Cell Fading 2 RF Out External.vi - rscmwls Configure Flexible Scenario 1 Cell Fading MIMO4x22 RF Out Internal.vi - rscmwls Configure Flexible Scenario 1 Cell Fading MIMO4x22 RF Out External.vi - rscmwls Configure Flexible Scenario 2CC CA Fading 2 RF Out External.vi - rscmwls Configure Flexible Scenario 2CC CA Fading 4 RF Out External.vi - rscmwls Configure Scenario 3CC CA Fading 6 RF Out External.vi - rscmwls Configure Scenario 4CC CA Fading 8 RF Out External.vi - rscmwls Configure Standard Fading Simulator.vi
3.7.550	05/2019	<ul style="list-style-type: none"> * Support for CMW version 3.7.55 * New VIs: <ul style="list-style-type: none"> - rscmwls Configure Signal Routing 5CC nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 3CC Fading nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx4 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 4CC Fading nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 4CC nx4 nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 4CC nx4 nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 4CC nx4 nx4 nx4 nx4 Flexible.vi - rscmwls Configure RF Signal Frequency Bandwidth.vi - rscmwls Query RF Parameters Modified MPR Behavior.vi - rscmwls Configure Accept Attach.vi - rscmwls Configure CQI Reporting Simultaneous AckNack CQI.vi - rscmwls Query Connection Random Bursts DL Ending Partial SF Code Rate.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwls Configure Handover Prepare.vi - NS25 - NS32, band 48-51 added - rscmwls Configure Handover Enhanced.vi - NS25 - NS32, band 48-51 added - rscmwls Configure Handover External Prepare LTE.vi - band 48-51 added - rscmwls Configure UE Capabilities RF Bands All.vi - new bands - rscmwls Configure Fading Simulator.vi - Insertion loss range changed - rscmwls Configure UL HARQ.vi - HARQ range - rscmwls Configure eMTC RMC.vi - NB position new values - rscmwls Configure Connected DRX Timer - rscmwls Configure RMC Uplink Multi Cluster Settings - rscmwls Configure RMC Uplink Settings
3.7.100	04/2017	<ul style="list-style-type: none"> * Support for CMW version 3.7.10 * rscmwls Initialize.vi, rscmwls Initialize with Options.vi, rscmwls Close.vi and Utility VIs have new VI icons * Added Secondary Component Carrier 4 * New VI's: <ul style="list-style-type: none"> - rscmwls Configure SCC Frame Structure.vi - rscmwls Configure eMTC Enabled.vi - rscmwls Configure Signal Routing 1CC nx4 Flexible.vi - rscmwls Configure Signal Routing 1CC Fading nx4 Flexible.vi - rscmwls Configure Signal Routing 1CC Fading nx2 Flexible.vi - rscmwls Configure Signal Routing 1CC Fading 1x1 Internal.vi - rscmwls Configure Signal Routing 2CC Fading nx4 nx2 Flexible.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Signal Routing 2CC Fading nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 2CC nx2 nx4 Flexible.vi - rscmwls Configure Signal Routing 2CC nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 2CC nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC Fading nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 5CC nx2 nx2 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx4 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx4 nx2 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx2 nx4 nx2 Flexible.vi - rscmwls Configure Signal Routing 3CC nx2 nx4 nx4 Flexible.vi - rscmwls Configure Signal Routing 4CC nx4 nx2 nx2 Flexible.vi - rscmwls Configure Downlink Uplink Separation.vi - rscmwls Configure SCC Synchronization Set State.vi - rscmwls Query SCC Synchronization Set State.vi - rscmwls Configure SCC Synchronization Set State Assign.vi - UE Measurement Report SCC - rscmwls Configure Physical Cell 64QAM UL Support.vi - rscmwls Configure Physical Cell SRS Dedicated Configuration.vi - rscmwls Configure Physical Cell SRS pSRS Offset.vi - rscmwls Configure T3402 Timer.vi - rscmwls Configure T3412 Extended Timer.vi - rscmwls Configure IMS Emergency Support.vi - rscmwls Configure Connection PCCH Config nB.vi - rscmwls Configure Connection Half Duplex.vi - rscmwls Configure Connection Number Of Layers.vi - rscmwls Configure Connection ROHC Enable For.vi - rscmwls Configure Connection Burst Type.vi - rscmwls Configure Connection Start Position of First Subframe of Burst.vi - rscmwls Configure Connection Partial Subframe Configuration.vi - rscmwls Configure Connection Initial Partial Subframe.vi - rscmwls Configure Connection Occupied OFDM Symbols in Last Subframe of Burst.vi - rscmwls Configure Connection Burst Transmission Probability.vi - rscmwls Configure Connection SCC Number Of Layers.vi - Connection LAA - rscmwls Configure MIMO TM9 Matrix Selection.vi - rscmwls Configure MIMO TM9 Coefficients Matrix.vi - rscmwls Configure MIMO TM 2To6 Static Channel Model Enabled.vi - rscmwls Configure MIMO TM2To6 Matrix Selection.vi - rscmwls Configure Connected DRX UL Grant.vi - rscmwls Configure Connected eDRX Idle Mode.vi - rscmwls Configure PUCCH Format For CA.vi - rscmwls Query PUCCH Actual Format For CA.vi - rscmwls Configure eMTC RMC.vi - rscmwls Configure CQI PMI Config Index LAA.vi - eMTC Settings * Updated VI's: - rscmwls Select Component Carrier.vi - rscmwls Configure SCC Use UL.vi - rscmwls Query RF Signal Routing Supported Scenarios.vi - rscmwls Configure RF Signal Output Attenuation.vi - rscmwls Configure RF Signal Frequency.vi - rscmwls Configure RF Signal Frequency Band.vi - rscmwls Configure Handover Prepare.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Handover Enhanced.vi - rscmwls Configure Handover External Prepare LTE.vi - rscmwls Configure UL Power PUSCH.vi - rscmwls Configure Uplink Power Maximum Cell.vi - rscmwls Query PRACH Power Cell.vi - rscmwls Configure Advanced Toggling At RRC Settings Cell.vi - rscmwls Query POUE PUSCH Toggling State Cell.vi - rscmwls Configure TX Power Control Single Cell.vi - rscmwls Configure TX Power Control Single Execute Cell.vi - rscmwls Configure TX Power Control 3GPP Pattern Cell.vi - rscmwls Configure TX Power Control Setting Type Cell.vi - rscmwls Configure TX Power Control Target Power Cell.vi - rscmwls Configure TX Power Control PUCCH Target Power Cell.vi - rscmwls Configure Physical Cell SRS State.vi - rscmwls Configure Physical Cell SRS.vi - rscmwls Configure Physical Cell SRS BW Config.vi - rscmwls Configure Physical Cell SRS Dedicated BW.vi - rscmwls Configure Physical Cell SRS Hopping BW.vi - rscmwls Configure Synchronization Timing Offset.vi - rscmwls Configure LTE Neighbor Cell List.vi - rscmwls Configure WCDMA Neighbor Cell List.vi - rscmwls Configure MIMO Settings.vi - rscmwls Configure Static Channel Coefficients MIMO.vi - rscmwls Configure Beamforming Model.vi - rscmwls Configure CSIRS SCC.vi - rscmwls Configure Power Ports SCC.vi - rscmwls Configure AWGN Offset SCC.vi - rscmwls Configure Port Zero Mapping SCC.vi - rscmwls Configure FWB CQI MCS Table User Defined SCC.vi - rscmwls Configure ASEM Aggregation SCC.vi - rscmwls Configure Scheduling Type.vi - rscmwls Configure Multicluster UL.vi - rscmwls Configure Multicluster DL.vi - rscmwls Configure Connection Use Stream 1 Settings.vi - rscmwls Configure Connection Use 256QAM.vi - rscmwls Configure MIMO TM9 Parameters.vi - rscmwls Configure MIMO TM9 Precoding Matrix.vi - rscmwls Configure MIMO TM9 CSIRS Parameters.vi - rscmwls Configure MIMO TM9 Zero Power Parameters.vi - rscmwls Configure MIMO TM9 Matrix.vi - rscmwls Configure Connected DRX Timer.vi - rscmwls Configure Connected Long DRX Cycle.vi - rscmwls Configure Circuit Switched Fallback WCDMA Target.vi - rscmwls Configure PDCCH Agregation Level.vi - rscmwls Configure RMC Downlink Settings.vi - rscmwls Configure RMC Downlink Version.vi - rscmwls Configure RMC Uplink Settings.vi - rscmwls Configure RMC Uplink Multi Cluster Settings.vi - rscmwls Configure User Defined TTI Based.vi - rscmwls Configure User Defined TTI Based All.vi - rscmwls Configure TX Power Control Closed Loop Target Power Offset.vi - rscmwls Configure UE Measurement SCC RSSI.vi - rscmwls Query UE Measurement SCC RSSI.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query UE Measurement SCC Channel Occupancy.vi - rscmwls Configure Synchronization Zone.vi - rscmwls Configure Connection Start Position of First Subframe of Burst.vi - rscmwls Configure Connection Partial Subframe Configuration.vi - rscmwls Configure Connection Fixed Length Of Burst.vi - rscmwls Query Connection Stream Settings.vi * Deleted - RSCMWLS_ATTR_SCC_DUPLEX_MODE - instead use RSCMWLS_ATTR_SCC_NUM_DUPLEX_MODE
3.5.510	03/2017	<ul style="list-style-type: none"> * Support for CMW version 3.5.51 * Exchanged Driver Core 6.6 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New VI's: <ul style="list-style-type: none"> - rscmwls Query RF Signal Routing Supported Scenarios.vi - rscmwls Configure Physical Cell CSAT SCell Muting.vi - rscmwls Configure UL HARQ DCI 0 PHICH.vi - rscmwls Configure CQI PMI RI Follow WB Scheduled CQI.vi - rscmwls Configure CQI PMI RI Follow WB Multi Cluster DL Allocation.vi - rscmwls Configure CQI PMI RI Follow WB Special Subframes User Defined Mapping Table.vi - rscmwls Configure CQI PMI RI Follow WB CSI RS Subframes User Defined Mapping Table.vi - rscmwls Configure CQI RI Follow WB Scheduled CQI.vi - rscmwls Configure CQI RI Follow WB Multi Cluster DL Allocation.vi - rscmwls Configure CQI RI Follow WB Special Subframes User Defined Mapping Table.vi - rscmwls Configure CQI Follow WB PMI Scheduled CQI.vi - rscmwls Configure CQI Follow WB PMI Multi Cluster DL Allocation.vi - rscmwls Configure CQI Follow WB PMI RI Scheduled CQI.vi - rscmwls Configure CQI Follow WB PMI RI Multi Cluster DL Allocation.vi - rscmwls Configure CQI Follow WB Scheduled CQI.vi - rscmwls Configure CQI Follow WB Multi Cluster DL Allocation.vi - rscmwls Configure CQI Follow WB Special Subframe User Defined Mapping Table.vi - rscmwls Configure Multicluster DL.vi - rscmwls Configure User Defined Channel Multi Cluster Downlink.vi - rscmwls Configure TX Power Control Closed Loop Target Power Offset.vi - rscmwls Query CQI Follow WB Special Subframe Automatically Determined Mapping Table.vi - rscmwls Query CQI Follow WB CSI RS Automatically Determined Mapping Table.vi - rscmwls Query CQI PMI RI Follow WB Special Subframe Auto Determined Mapping Table.vi - rscmwls Query CQI PMI RI Follow WB CSI RS Automatically Determined Mapping Table.vi - rscmwls Query CQI RI Follow WB Special Subframe Automatically Determined Mapping Table.vi - rscmwls Query UE Capabilities Other Parameters.vi - rscmwls Query UE Capabilities RLC Parameters.vi - rscmwls Query Based Network Performance Logged MBSFN Measurements.vi - rscmwls Query Inter RAT CDMA2000 NW Sharing.vi - rscmwls Query UE Capabilities DC Parameters.vi - rscmwls Query UE Capabilities MAC Parameters.vi - rscmwls Query UE Capabilities MBMS Parameters.vi - rscmwls Query UE Meas Parameters.vi - rscmwls Query PDCP Parameters.vi - rscmwls Query UE Physical Layer Parameters.vi - rscmwls Query RF Parameters Requested Bands.vi

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query UE Capabilities SL Parameters.vi - rscmwls Query UE Capabilities WLAN IW.vi - rscmwls SMS Incoming Message Select File.vi - rscmwls Query SMS Incoming Message File Info.vi - rscmwls SMS Outgoing Message Select File.vi - rscmwls Query SMS Outgoing Message File Info.vi - rscmwls SMS Outgoing Message Handling.vi - rscmwls Query Inter RAT UTRA TDD Configuration.vi - rscmwls Configure Connection Use 256 QAM.vi - rscmwls Configure Connection ROHC.vi - rscmwls Configure Network RAND Value.vi <p>* Updated VI's:</p> <ul style="list-style-type: none"> - rscmwls Configure CQI Follow WB PMI.vi - new value in 'Modulation Type' parameter - rscmwls Configure CQI Follow WB PMI RI - new value in 'Modulation Type' parameter - rscmwls Query RF Parameters Supported Bands.vi - range extended to 256 - rscmwls Query RF Parameters Half Duplex For Bands.vi - range extended to 256 - rscmwls Query UE Capabilities Category Information.vi - range changed - rscmwls CBS ID.vi - range changed - rscmwls CBS ID Type.vi - new values in 'ID Type' parameter - rscmwls Configure Reject Causes.vi - new values in 'Reject Attach' and 'Reject Tracking Area Update' parameters - rscmwls Fetch Extended BLER Uplink Results.vi - rscmwls Configure RMC Uplink Resource Block Position.vi <p>* New attributes:</p> <ul style="list-style-type: none"> - RSCMWLS_ATTR_QUERY_SUPPORTED_SCENARIOS (Query Supported Scenarios) - RSCMWLS_ATTR_UE_CAPABILITIES_RF_RETRIEVAL (UE Capabilities RF Retrieval) - RSCMWLS_ATTR_UE_CAPABILITIES_RF_FREQ_BAND_PRIORITY_ADJUSTMENT (UE Capabilities RF Freq Band Priority Adjustment) - RSCMWLS_ATTR_UE_CAPABILITIES_OTHER_PARAMETERS_IN_DEVICE_COEX_IND (UE Capabilities Other Parameters In Device Coex Ind) - RSCMWLS_ATTR_UE_CAPABILITIES_OTHER_PARAMETERS_POWER_PREF_IND (UE Capabilities Other Parameters Power Pref Ind) - - RSCMWLS_ATTR_UE_CAPABILITIES_OTHER_PARAMETERS_UE_RX_TX_TIME_DIFF_MEASUREMENTS (UE Capabilities Other Parameters UE Rx Tx Time Diff Measurements) - RSCMWLS_ATTR_UE_CAPABILITIES_OTHER_PARAMETERS_IN_DEVICE_COEX_DIV_UL_CA (UE Capabilities Other Parameters In Device Coex Div UL CA) - RSCMWLS_ATTR_UE_CAPABILITIES_MBMS_PARAMETERS_SCELL (UE Capabilities MBMS Parameters SCell) - RSCMWLS_ATTR_UE_CAPABILITIES_MBMS_PARAMETERS_NON_SERVING_CELL (UE Capabilities MBMS Parameters Non Serving Cell) - RSCMWLS_ATTR_UE_CAPABILITIES_RLC_PARAMETERS_EXTENDED_RLC_LI_FIELDS (UE Capabilities RLC Parameters Extended RLC LI Fields) - RSCMWLS_ATTR_UE_CAPABILITIES_WLAN_IW_RAN_RULES (UE Capabilities WLAN IW RAN Rules) - RSCMWLS_ATTR_UE_CAPABILITIES_WLAN_IW_ANDSF_POLICIES (UE Capabilities WLAN IW ANDSF Policies) - RSCMWLS_ATTR_UE_CAPABILITIES_DC_PARAMETERS_DRB_TYPE_SPLIT (UE Capabilities DC Parameters DRB Type Split) - RSCMWLS_ATTR_UE_CAPABILITIES_DC_PARAMETERS_DRB_TYPE_SCG (UE Capabilities DC Parameters DRB Type SCG)

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<p>-</p> <p>RSCMWLS_ATTR_UE_CAPABILITIES_MAC_PARAMETERS_LOGICAL_CHANNEL_SR_PROHIBIT_TIMER (UE Capabilities MAC Parameters Logical Channel SR Prohibit Timer)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_MAC_PARAMETERS_LONG_DRX_COMMAND (UE Capabilities MAC Parameters Long DRX Command)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_MEAS_PARAMETERS_RSRQ_MEAS_WIDEBAND (UE Capabilities Meas Parameters RSRQ Meas Wideband)</p> <p>-</p> <p>RSCMWLS_ATTR_UE_CAPABILITIES_MEAS_PARAMETERS_BENEFITS_FROM_INTERRUPTIION (UE Capabilities Meas Parameters Benefits From Interruption)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_SL_COMM_SIMULTANEOUS_TX (UE Capabilities SL Comm Simultaneous Tx)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_SL_DISC_SCHEDULED_RESOURCE_ALLOC (UE Capabilities SL Disc Scheduled Resource Alloc)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_SL_DISC_UE_SELECTED_RESOURCE_ALLOC (UE Capabilities SL Disc UE Selected Resource Alloc)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_SL_DISC_SLSS (UE Capabilities SL Disc SLSS)</p> <p>- RSCMWLS_ATTR_UE_CAPABILITIES_SL_DISC_SUPPORTED_PROC (UE Capabilities SL Disc Supported Proc)</p> <p>- RSCMWLS_ATTR_UE_CR_INTERFHANDL (UE CRS InterfHandl)</p> <p>- RSCMWLS_ATTR_UE_EPDCCH (UE ePDCCH)</p> <p>- RSCMWLS_ATTR_UE_MULTIAACK_CSI_REPORTING (UE multiACK CSI Reporting)</p> <p>- RSCMWLS_ATTR_UE_SS_CCH_INTERFHANDL (UE SS CCH InterfHandl)</p> <p>- RSCMWLS_ATTR_UE_TDD_SPECIALSUBFRAME (UE TDD SpecialSubframe)</p> <p>- RSCMWLS_ATTR_UE_TXDIV_PUCCH1B_CHSELECT (UE txDiv PUCCH1b ChSelect)</p> <p>- RSCMWLS_ATTR_UE_UL_COMP (UE UL CoMP)</p> <p>- RSCMWLS_ATTR_UE_INTERBAND_TDD_CA_WITH_DIFFERENT_CONFIG (UE interBand TDD CA With Different Config)</p> <p>- RSCMWLS_ATTR_UE_E_HARQ_PATTERN_FDD (UE e HARQ Pattern FDD)</p> <p>- RSCMWLS_ATTR_UE_ENHANCED_4_TX_CODEBOOK (UE enhanced 4 Tx Codebook)</p> <p>- RSCMWLS_ATTR_UE_TDD_FDD_CA_PCELL_DUPLEX (UE tdd FDD CA PCell Duplex)</p> <p>- RSCMWLS_ATTR_UE_PHY_TDD_RECONFIG_TDD_PCELL (UE phy TDD ReConfig TDD PCell)</p> <p>- RSCMWLS_ATTR_UE_PHY_TDD_RECONFIG_FDD_PCELL (UE phy TDD ReConfig FDD PCell)</p> <p>- RSCMWLS_ATTR_UE_PUSCH_FEEDBACK_MODE (UE pusch Feedback Mode)</p> <p>- RSCMWLS_ATTR_UE_PUSCH_SRS_POWERCONTROL_SUBFRAMESET (UE pusch SRS PowerControl SubframeSet)</p> <p>- RSCMWLS_ATTR_UE_CSI_SUBFRAME_SET (UE CSI Subframe Set)</p> <p>- RSCMWLS_ATTR_UE_NO_RESOURCE_RESTRICTION_FOR_TTI_BUNDLING (UE no Resource Restriction For TTI Bundling)</p> <p>- RSCMWLS_ATTR_UE_DISCOVERY_SIGNALS_IN_DEACT_SCELL (UE discovery Signals In Deact SCell)</p> <p>- RSCMWLS_ATTR_PDCP_SN_EXTENSION (PDCP SN Extension)</p> <p>- RSCMWLS_ATTR_SUPPORT_ROHC_CONTEXT_CONTINUE (Support ROHC Context Continue)</p> <p>- RSCMWLS_ATTR_INTER_RAT_CDMA2000_NW_SHARING (Inter RAT CDMA2000 NW Sharing)</p> <p>- RSCMWLS_ATTR_BASED_NETWORK_PERFORMANCE_LOGGED_MBSFN_MEASUREMENTS (Based Network Performance Logged MBSFN Measurements)</p> <p>- RSCMWLS_ATTR_TX_POWER_CONTROL_CLOSED_LOOP_TARGET_POWER_OFFSET (TX Power Control Closed Loop Target Power Offset)</p> <p>- RSCMWLS_ATTR_PHYSICAL_CELL_CSAT_AND_SCELL_MUTING_ENABLE (Physical Cell CSAT And SCell Muting Enable)</p> <p>- RSCMWLS_ATTR_PHYSICAL_CELL_DMTC_PERIOD (Physical Cell DMTC Period)</p> <p>- RSCMWLS_ATTR_PHYSICAL_CELL_ON_STATE_DURATION (Physical Cell On State Duration)</p> <p>- RSCMWLS_ATTR_PHYSICAL_CELL_OFF_STATE_DURATION (Physical Cell Off State Duration)</p>

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - RSCMWLS_ATTR_PHYSICAL_CELL_PERIODIC_MAC_ACTIVATION (Physical Cell Periodic MAC Activation) - RSCMWLS_ATTR_NETWORK_SECURITY_RAND_VALUE (Network Security RAND Value) - RSCMWLS_ATTR_CONNECTION_MULTICLUSTER_DL (Connection Multicluster DL) - RSCMWLS_ATTR_CONNECTION_USE_256_QAM (Connection Use 256-QAM) - RSCMWLS_ATTR_CONNECTION_SCC_MULTICLUSTER_DL (Connection SCC Multicluster DL) - RSCMWLS_ATTR_CONNECTION_USE_256_QAM_SCC (Connection Use 256-QAM SCC) - RSCMWLS_ATTR_ROHC_ENABLE_HEADER_COMPRESSION (ROHC Enable Header Compression) - RSCMWLS_ATTR_CONNECTION_UL_HARQ_DCI_0_PHICH (Connection UL HARQ DCI-0 / PHICH) - RSCMWLS_ATTR_SMS_OUTGOING_MESSAGE_HANDLING (SMS Outgoing Message Handling) - RSCMWLS_ATTR_SMS_OUTGOING_MESSAGE_SELECT_FILE (SMS Outgoing Message Select File) - RSCMWLS_ATTR_SMS_INCOMING_MESSAGE_SELECT_FILE (SMS Incoming Message Select File) <p>* Modified Range Tables:</p> <ul style="list-style-type: none"> - rscmwls_rngULResourceBlock - RSCMWLS_ATTR_RMC_UPLINK_RESOURCE_BLOCK_POSITION, RSCMWLS_ATTR_SCC_NUM_RMC_UPLINK_RESOURCE_BLOCK_POSITION New items: RSCMWLS_VAL_RB_UL_P20, RSCMWLS_VAL_RB_UL_P21, RSCMWLS_VAL_RB_UL_P28, RSCMWLS_VAL_RB_UL_P30, RSCMWLS_VAL_RB_UL_P31, RSCMWLS_VAL_RB_UL_P33, RSCMWLS_VAL_RB_UL_P40, RSCMWLS_VAL_RB_UL_P50, RSCMWLS_VAL_RB_UL_P51, RSCMWLS_VAL_RB_UL_P52, RSCMWLS_VAL_RB_UL_P54, RSCMWLS_VAL_RB_UL_P57, RSCMWLS_VAL_RB_UL_P58, RSCMWLS_VAL_RB_UL_P62, RSCMWLS_VAL_RB_UL_P63, RSCMWLS_VAL_RB_UL_P66, RSCMWLS_VAL_RB_UL_P70, RSCMWLS_VAL_RB_UL_P83 - rscmwls_rngUECapabilitiesCategoryInformation - RSCMWLS_ATTR_UE_CAPABILITIES_CATEGORY_INFORMATION Range changed to <0;12> - rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_OFF - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("Disabled", "") - rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_ON - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("Enabled", "") - rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_IUE3 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("IUE3", "") - rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_EPS7 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("EPS7", "") - rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_PLMN11 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("PLMN11", "")

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<p>- rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_TANA12 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("TANA12", "")</p> <p>- rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_CONG22 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("CONG22", "")</p> <p>- rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C13 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("C13", "")</p> <p>- rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C17 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Enum name changed ("C17", "")</p> <p>- rscmwls_rngNetworkCellRejectAttach.RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C17 - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE Help changed ("Network failure (#17)", "value 17 (network failure)")</p> <p>- rscmwls_rngNetworkCellRejectAttach - RSCMWLS_ATTR_NETWORK_REJECT_ATTACH, RSCMWLS_ATTR_NETWORK_REJECT_TRACKING_AREA_UPDATE New items: RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C2, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C5, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C6, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C8, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C9, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C10, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C14, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C15, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C16, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C18, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C19, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C20, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C21, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C23, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C24, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C25, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C26, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C35, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C39, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C40, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C42, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C95, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C96, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C97, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C98, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C99, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C100, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C101, RSCMWLS_VAL_NETWORK_REJECT_CAUSE_C111</p>

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls_rngFadingSimulatorDopplerFrequencyMode.RSCMWLS_VAL_DOPPLER_SHIFT_NORMAL - RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE, RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE_SCC, RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE_SCC_NUM Description changed ("Normal", "") - rscmwls_rngFadingSimulatorDopplerFrequencyMode.RSCMWLS_VAL_DOPPLER_SHIFT_USER - RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE, RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE_SCC, RSCMWLS_ATTR_FADING_SIMULATOR_DOPPLER_FREQUENCY_MODE_SCC_NUM Description changed ("User Defined", "") - rscmwls_rngPhysicalCellReceivedPreambles.RSCMWLS_VAL_OFF - RSCMWLS_ATTR_PHYSICAL_CELL_RECEIVED_PREAMBLES Description changed ("Off", "") - rscmwls_rngPhysicalCellReceivedPreambles.RSCMWLS_VAL_ON - RSCMWLS_ATTR_PHYSICAL_CELL_RECEIVED_PREAMBLES Description changed ("On", "") - rscmwls_rngPhysicalCellReceivedPreambles.RSCMWLS_VAL_IGNORE_NUMBER_PREAMBLES - RSCMWLS_ATTR_PHYSICAL_CELL_RECEIVED_PREAMBLES Description changed ("Ignore number of preambles", "") - rscmwls_rngNetworkEPSIMSVoiceOverPSSession.RSCMWLS_VAL_SESSION_INDICATOR_IMS_NOT_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_IMS_VOICE_OVER_PS_SESSION Description changed ("Not supported", "") - rscmwls_rngNetworkEPSIMSVoiceOverPSSession.RSCMWLS_VAL_SESSION_INDICATOR_IMS_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_IMS_VOICE_OVER_PS_SESSION Description changed ("Supported", "") - rscmwls_rngNetworkEPSEmergencyBearerServices.RSCMWLS_VAL_SERVICE_INDICATOR_EMCB_NOT_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_EMERGENCY_BEARER_SERVICES Description changed ("Not supported", "") - rscmwls_rngNetworkEPSEmergencyBearerServices.RSCMWLS_VAL_SERVICE_INDICATOR_EMCB_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_EMERGENCY_BEARER_SERVICES Description changed ("Supported", "") - rscmwls_rngNetworkEPSServiceIndicatorinEPC.RSCMWLS_VAL_SERVICE_INDICATOR_EPC_NOT_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_SERVICE_INDICATOR_IN_EPC Description changed ("Not supported", "") - rscmwls_rngNetworkEPSServiceIndicatorinEPC.RSCMWLS_VAL_SERVICE_INDICATOR_EPC_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_SERVICE_INDICATOR_IN_EPC Description changed ("Supported", "") - rscmwls_rngNetworkEPSServiceIndicatorinCS.RSCMWLS_VAL_SERVICE_INDICATOR_CS_NOT_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_SERVICE_INDICATOR_IN_CS Description changed ("Not supported", "") - rscmwls_rngNetworkEPSServiceIndicatorinCS.RSCMWLS_VAL_SERVICE_INDICATOR_CS_SUPPORTED - RSCMWLS_ATTR_NETWORK_EPS_SERVICE_INDICATOR_IN_CS Description changed ("Supported", "")

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<p>- rscmwls_rngNetworkEPSServiceIndicatorinCS.RSCMWLS_VAL_SERVICE_INDICATOR_CS_NO_INFORMATION - RSCMWLS_ATTR_NETWORK_EPS_SERVICE_INDICATOR_IN_CS Description changed ("No information", "")</p> <p>- rscmwls_rngConnectedDRXSettings - RSCMWLS_ATTR_CONNECTED_DRX_SETTINGS New items: RSCMWLS_VAL_USER_ON, RSCMWLS_VAL_USER_OFF</p> <p>- rscmwls_rngSCCActivationMode.RSCMWLS_VAL_SCC_ACTIVATION_MODE_AUTO - RSCMWLS_ATTR_SCC_ACTIVATION_MODE Description changed ("Auto", "")</p> <p>- rscmwls_rngSCCActivationMode.RSCMWLS_VAL_SCC_ACTIVATION_MODE_MANUAL - RSCMWLS_ATTR_SCC_ACTIVATION_MODE Description changed ("Manual", "")</p> <p>- rscmwls_rngSCCActivationMode.RSCMWLS_VAL_SCC_ACTIVATION_MODE_SEMI_AUTO - RSCMWLS_ATTR_SCC_ACTIVATION_MODE Description changed ("Semi Auto", "")</p> <p>- rscmwls_rngHandoverMobilityMode.RSCMWLS_VAL_HANOVER_REDIRECTION - RSCMWLS_ATTR_HANOVER_MOBILITY_MODE Description changed ("Redirection", "")</p> <p>- rscmwls_rngHandoverMobilityMode.RSCMWLS_VAL_HANOVER_MT_CS_FALLBACK - RSCMWLS_ATTR_HANOVER_MOBILITY_MODE Description changed ("MT CS fallback", "")</p> <p>- rscmwls_rngHandoverMobilityMode - RSCMWLS_ATTR_HANOVER_MOBILITY_MODE New items: RSCMWLS_VAL_HANOVER_HANDOVER</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_UP_A - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Up A", "")</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_DOWN_A - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Down A", "")</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_UP_B - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Up B", "")</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_DOWN_B - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Down B", "")</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_UP_C - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Up C", "")</p> <p>- rscmwls_rngTXPowerControl3GPPPattern.RSCMWLS_VAL_RAMPING_DOWN_C - RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN, RSCMWLS_ATTR_TX_POWER_CONTROL_3GPP_PATTERN_SCC_NUM Description changed ("Ramping Down C", "")</p> <p>- rscmwls_rngNetworkSynchronizationZone.RSCMWLS_VAL_SYNCHRONIZATION_NONE - RSCMWLS_ATTR_NETWORK_SYNCHRONIZATION_ZONE Description changed ("No synchronization", "")</p> <p>- rscmwls_rngNetworkSynchronizationZone.RSCMWLS_VAL_SYNCHRONIZATION_Z1 - RSCMWLS_ATTR_NETWORK_SYNCHRONIZATION_ZONE</p>

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<p>Description changed ("Synchronization to zone 1", "")</p> <p>- rscmwls_rngSCCNumberOfAntennas.RSCMWLS_VAL_NUMBER_OF_ANTENNAS_ONE - RSCMWLS_ATTR_SCC_NUMBER_OF_ANTENNAS, RSCMWLS_ATTR_SCC_NUM_NUMBER_OF_ANTENNAS</p> <p>Description changed ("1", "")</p> <p>- rscmwls_rngSCCNumberOfAntennas.RSCMWLS_VAL_NUMBER_OF_ANTENNAS_TWO - RSCMWLS_ATTR_SCC_NUMBER_OF_ANTENNAS, RSCMWLS_ATTR_SCC_NUM_NUMBER_OF_ANTENNAS</p> <p>Description changed ("2", "")</p> <p>- rscmwls_rngSCCNumberOfAntennas.RSCMWLS_VAL_NUMBER_OF_ANTENNAS_FOUR - RSCMWLS_ATTR_SCC_NUMBER_OF_ANTENNAS, RSCMWLS_ATTR_SCC_NUM_NUMBER_OF_ANTENNAS</p> <p>Description changed ("4", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_OFF - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Switch SCC off", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ON - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Switch SCC on", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ADD_RRC - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Add SCC RRC connection", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ACTIVATE_MAC - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Activate MAC for the SCC", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_DEACTIVATE_MAC - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Deactivate MAC for the SCC", "")</p> <p>- rscmwls_rngSecondaryComponentCarrierState.RSCMWLS_VAL_SCC_DELETE_RRC - RSCMWLS_ATTR_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_SCC_NUM_STATE</p> <p>Description changed ("Delete SCC RRC connection", "")</p> <p>- rscmwls_rngQuerySecondaryComponentCarrierState.RSCMWLS_VAL_SCC_OFF - RSCMWLS_ATTR_QUERY_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_QUERY_SCC_NUM_STATE</p> <p>Description changed ("SCC Off", "")</p> <p>- rscmwls_rngQuerySecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ON - RSCMWLS_ATTR_QUERY_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_QUERY_SCC_NUM_STATE</p> <p>Description changed ("SCC On", "")</p> <p>- rscmwls_rngQuerySecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ADD_RRC - RSCMWLS_ATTR_QUERY_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_QUERY_SCC_NUM_STATE</p> <p>Description changed ("RRC Added", "")</p> <p>- rscmwls_rngQuerySecondaryComponentCarrierState.RSCMWLS_VAL_SCC_ACTIVATE_MAC - RSCMWLS_ATTR_QUERY_SECONDARY_COMPONENT_CARRIER_STATE, RSCMWLS_ATTR_QUERY_SCC_NUM_STATE</p> <p>Description changed ("MAC Activated", "")</p>

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls_rmgCBSID - Type ("RS_VAL_RANGED", "RS_VAL_COERCED") - rscmwls_rmgCBSIDType - RSCMWLS_ATTR_CBS_ID_TYPE <li style="padding-left: 40px;">New items: RSCMWLS_VAL_CBS_ID_TYPE_UDEF, RSCMWLS_VAL_CBS_ID_TYPE_UDCM, RSCMWLS_VAL_CBS_ID_TYPE_UDET
3.5.400	12/2016	<ul style="list-style-type: none"> * Support for CMW version 3.5.40 * Added CBS Messaging * Added RF Scenario * New VI's: <ul style="list-style-type: none"> - rscmwls_Configure RF Signal Frequency Band.vi - rscmwls_Configure RF Signal Frequency Channel.vi - rscmwls_Configure Dedicated Bearer Prepare Separate.vi - rscmwls_Configure Handover Call Type.vi - rscmwls_Query UE Info Dedicated Bearer Separate.vi - rscmwls_Configure UE Measurement MG Enable.vi - rscmwls_Query UE Capabilities UE Category DL.vi - rscmwls_Query UE Capabilities UE Category UL.vi - rscmwls_Configure UE Capabilities RF Bands All.vi - rscmwls_Configure Uplink Joint Power Control.vi - rscmwls_Configure PUSCH TPC Power.vi - rscmwls_Configure Network Time Zone Offset.vi - rscmwls_Configure Connection Easy Mode.vi - rscmwls_Configure UE Transmit Selection.vi - rscmwls_Configure PSM Allowed.vi - rscmwls_Configure CSIRS PCC.vi - rscmwls_Configure AWGN Offset PCC.vi - rscmwls_Configure Power Ports PCC.vi - rscmwls_Configure Port Zero Mapping PCC.vi - rscmwls_Query FWB CQI MCS Table Determined PCC.vi - rscmwls_Query FWB CQI MCS Table CSI RS Determined PCC.vi - rscmwls_Configure CSI RSSCC.vi - rscmwls_Configure Power Ports SCC.vi - rscmwls_Configure AWGN Offset SCC.vi - rscmwls_Configure Port Zero Mapping SCC.vi - rscmwls_Configure FWB CQI MCS Table User Defined SCC.vi - rscmwls_Query FWB CQI MCS Table Determined SCC.vi - rscmwls_Query FWB CQI MCS Table CSI RS Determined SCC.vi - rscmwls_Configure ASEM Aggregation SCC.vi - rscmwls_SMS Outgoing User Data Header.vi - rscmwls_SMS Outgoing Handling.vi - rscmwls_Clear Event Log.vi - rscmwls_Configure UE Category CZ Allowed.vi - rscmwls_Configure UL HARQ Max Tx.vi - rscmwls_Configure Physical Cell SRS BW Config.vi - rscmwls_Configure Physical Cell SRS Dedicated BW.vi - rscmwls_Configure Physical Cell SRS Hopping BW.vi * Updated VI's: <ul style="list-style-type: none"> - rscmwls_Configure RF Signal Frequency.vi - rscmwls_Configure Handover Enhanced.vi - rscmwls_Configure Handover External Prepare LTE.vi - rscmwls_Query RF Parameters Supported Band Combination.vi - rscmwls_Configure Fading Simulator.vi - rscmwls_Configure Fading Module AWGN.vi - rscmwls_Configure TX Power Control Setting Type Cell.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Reject Causes.vi - rscmwls Configure LTE Neighbor Cell List.vi - rscmwls Configure WCDMA Neighbor Cell List.vi - rscmwls Configure Beamforming Model.vi - rscmwls Configure Circuit Switched Fallback Cell Target.vi - rscmwls Configure RMC Downlink Settings.vi - rscmwls Configure RMC Uplink Settings.vi - rscmwls Configure User Defined Channel Downlink.vi - rscmwls SMS Outgoing User Data Header.vi
3.5.210	10/2015	<ul style="list-style-type: none"> * Support for CMW version 3.5.21 * Added Secondary Component Carrier 3 * New functions: <ul style="list-style-type: none"> - rscmwls Configure SCC Intraband Contiguous To PCC.vi - rscmwls Query RF Signal Routing Settings Extended.vi - rscmwls Configure Signal Routing 4 CC CA 4 RF Out Scenario.vi - rscmwls Configure Signal Routing 4 CC CA Fading 8 RF Out Fix Scenario Internal.vi - rscmwls Configure Signal Routing 4 CC CA Fading 8 RF Out Fix Scenario External.vi - rscmwls Configure Handover Enhanced.vi - rscmwls Configure Standard Fading Simulator.vi - rscmwls Configure Physical Cell TDD Use Carrier Specific.vi - rscmwls Configure CQI Reporting CSI Report Mode.vi - rscmwls Configure Multicluster UL.vi - rscmwls Configure Connected DRX Scheduling Request.vi - rscmwls Configure Circuit Switched Fallback TD-SCDMA Target.vi - rscmwls Configure UL HARQ.vi - rscmwls Configure RMC Uplink Multi Cluster Settings.vi - rscmwls Configure User Defined Channel Multi Cluster Uplink.vi - rscmwls Configure CQI Follow WB PMI RI.vi - rscmwls SMS Outgoing Protocol Identifier.vi - rscmwls SMS Outgoing Last Message Sent.vi * Modified functions: <ul style="list-style-type: none"> - rscmwls Configure PDSCH Transmission Scheme.vi - SCC2, SCC3 - rscmwls Query User Defined Channel Downlink Code Rate.vi - Code Rate array data type change from Int32 to Real64 - rscmwls Query User Defined Channel Uplink Code Rate.vi - Code Rate array data type change from Int32 to Real64 - rscmwls Query User Defined TTI Based Downlink Code Rate.vi - Code Rate array data type change from Int32 to Real64 - rscmwls Query User Defined TTI Based Uplink Code Rate.vi - Code Rate array data type change from Int32 to Real64 - rscmwls Select Component Carrier.vi - SCC3 - rscmwls Configure Physical Cell Setup.vi - SCC3 - rscmwls Configure Physical Cell TDD.vi - SCC3 - rscmwls Configure Network Identity Settings.vi - SCC3 - rscmwls Configure Synchronization Timing Offset.vi - SCC3 - rscmwls Configure Circuit Switched Fallback Cell Target.vi - TD-SCDMA added to 'Target RAT' - rscmwls Configure Beamforming Matrix.vi - SCC3 - rscmwls Configure MIMO Settings.vi - SCC3 - rscmwls Configure RMC Downlink Settings.vi - SCC3, added 7, 42, 64, 92, 96 to 'Number Of Resource Blocks' - rscmwls Configure RMC Uplink Settings.vi - SCC3, added 7, 42, 64, 92, 96 to 'Number Of Resource Blocks'

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure RMC Uplink Resource Block Position.vi - SCC3, added 0, 6, 8, 12, 22, 24, 45, 68, 96 to 'Position' - rscmwls Configure MIMO TM9 Matrix.vi - SCC3, SCPI commands updated - rscmwls Configure MIMO TM9 Parameters.vi - SCC3, SCPI commands updated - rscmwls Configure MIMO TM9 CSIRS Parameters.vi - SCC3 - rscmwls Configure MIMO TM9 Precoding Matrix.vi - SCC3, SCPI commands updated - rscmwls Configure MIMO TM9 Zero Power Parameters.vi - SCC3 - rscmwls Configure Connection TTI Bundling.vi - SCPI commands updated - rscmwls Configure User Defined Channel Uplink.vi - SCC3 - rscmwls Configure Beamforming Model.vi - SCC3 - rscmwls Connection Copy PCC To SCC.vi - SCC3 - rscmwls Configure Connection Use Stream1 Settings.vi - SCC3 - rscmwls Configure CQI PMI RI Follow WB.vi - SCC3 - rscmwls Configure CQI RI Follow WB.vi - SCC3 - rscmwls Configure TTI CQI.vi - SCC3 - rscmwls Configure TTI CQI All.vi - SCC3 - rscmwls Configure CQI Follow WB PMI.vi - SCC3 - rscmwls Configure CQI Follow WB.vi - SCC3 - rscmwls Configure Antenna Configuration.vi - SCC3 - rscmwls Configure PDCCH Agregation Level.vi - SCC3 - rscmwls Query PDCCH Agregation Levels.vi - SCC3 - rscmwls Configure Reduced PDCCH.vi - SCC3 - rscmwls Configure PDCCH Symbols.vi - SCC3 - rscmwls Query Number Of PDCCH Symbols.vi - SCC3 - rscmwls Configure Precoding Matrix.vi - SCC3 - rscmwls Configure RMC Downlink Version.vi - SCC3 - rscmwls Configure Static Channel Model State.vi - SCC3 - rscmwls Configure Static Channel Coefficients.vi - SCC3 - rscmwls Configure Static Channel Coefficients MIMO.vi - SCC3 - rscmwls Configure Scheduling Type.vi - SCC3 - rscmwls Query Transmission Scheme.vi - SCC3 - rscmwls Configure User Defined Channel Downlink.vi - SCC3 - rscmwls Configure User Defined TTI Based.vi - SCC3 - rscmwls Configure User Defined TTI Based All.vi - SCC3 - rscmwls Configure CQI PMI Config Index.vi - SCC3 - rscmwls Configure CQI PMI Config Index TDD.vi - SCC3 - rscmwls Configure Downlink Power AWGN Level.vi - SCC3 - rscmwls Configure Downlink Power Levels.vi - SCC3 - rscmwls Configure Downlink Power PDSCH.vi - SCC3 - rscmwls Configure Fading Simulator.vi - SCC3, SCPI commands updated - rscmwls Configure Fading Module AWGN.vi - SCC3 - rscmwls Query Fading Module AWGN Noise Bandwidth.vi - SCC3 - rscmwls Configure Fading Simulator Doppler Frequency.vi - SCC3 - rscmwls Configure Fading Simulator Restart Mode.vi - SCC3, Trigger added to 'Restart Mode' - rscmwls Restart Fading Simulator.vi - SCC3 - rscmwls Query Internal Fading Noise Power Values.vi - SCC3 - rscmwls Configure IQ In.vi - SCC3 - rscmwls Configure LTE Neighbor Cell List.vi - OB252, OB255 added to 'Operating Band' - rscmwls Configure RF Signal Frequency.vi - SCC3, OB252, OB255 added to 'Operating Band' - rscmwls Configure RF Signal Nominal Power Uplink.vi - SCC capabilities added - rscmwls Configure RF Signal Mixer Level Offset.vi - SCC capabilities added - rscmwls Configure RF Signal User Defined Channel Number.vi - SCC3 - rscmwls Query User Defined Resulting Frequencies.vi - SCC3

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Band Definition Downlink Uplink Separation.vi - SCC capabilities added - rscmwls Configure Minimum Downlink Channel Frequency.vi - SCC3 - rscmwls Query Maximum Uplink Channel Number.vi - SCC capabilities added - rscmwls Configure RF Signal Attenuation MIMO Output.vi - SCC3 - rscmwls Configure RF Signal Input Attenuation.vi - SCC capabilities added - rscmwls Configure RF Signal Output Attenuation.vi - SCC3 - rscmwls Configure RF Signal Frequency Offset.vi - SCC3 - rscmwls Configure Duplex Mode Cell.vi - SCC3 - rscmwls Configure SCC Use UL.vi - SCC3 - rscmwls Configure Advanced PRACH Power Cell.vi - SCC3 - rscmwls Configure Advanced Toggling At RRC Settings Cell.vi - SCC3 - rscmwls Configure Uplink Power Maximum Cell.vi - SCC3 - rscmwls Configure UL Power PUSCH.vi - SCC3 - rscmwls Configure TX Power Control PUCCH Target Power Cell.vi - SCC3 - rscmwls Configure TX Power Control Single Cell.vi - SCC3 - rscmwls Configure TX Power Control Single Execute Cell.vi - SCC3 - rscmwls Configure TX Power Control 3GPP Pattern Cell.vi - SCC3 - rscmwls Configure TX Power Control Setting Type Cell.vi - SCC3 - rscmwls Configure TX Power Control User Defined Pattern.vi - SCC capabilities added - rscmwls Configure TX Power Control Target Power Cell.vi - SCC3 - rscmwls Fetch Intermediate Absolute BLER Results.vi - SCC3 - rscmwls Fetch Intermediate Relative BLER Results.vi - SCC3 - rscmwls Fetch Intermediate Single Stream DL Abs BLER Results.vi - SCC3 - rscmwls Fetch Intermediate Single Stream DL Rel BLER Results.vi - SCC3 - rscmwls Fetch Extended BLER Uplink Results.vi - SCC3 - rscmwls Fetch Absolute BLER Results.vi - SCC3 - rscmwls Fetch BLER Confidence Result.vi - SCC3 - rscmwls Fetch Single Stream Downlink CQI BLER Results.vi - SCC3 - rscmwls Fetch Absolute Extended BLER HARQ Per Subframe Results.vi - SCC3 - rscmwls Fetch Relative Extended BLER HARQ Per Subframe Results.vi - SCC3 - rscmwls Fetch Absolute Extended BLER HARQ Per Transmission Results.vi - SCC3 - rscmwls Fetch Relative Extended BLER HARQ Per Transmission Results.vi - SCC3 - rscmwls Fetch Extended BLER PMI RI Results.vi - SCC3 - rscmwls Fetch Relative BLER Results.vi - SCC3 - rscmwls Fetch Extended BLER Rank Indicator Results.vi - SCC3 - rscmwls Fetch Single Stream Downlink Absolute BLER Results.vi - SCC3 - rscmwls Fetch Single Stream Downlink Relative BLER Results.vi - SCC3 - rscmwls Fetch BLER Throughput Trace.vi - SCC3 - rscmwls Fetch BLER Single Stream Downlink Throughput Trace.vi - SCC3 - rscmwls Fetch BLER Single Stream Downlink CQI Trace.vi - SCC3 - rscmwls Fetch BLER Single Stream Downlink Median CQI Trace.vi - SCC3 - rscmwls Configure Handover Prepare.vi - OB252, OB255 added to 'Operating Band', NS19, NS21, NS22, NS23, NS24 added to 'Additional Spectrum Emission' - rscmwls Configure Handover External Prepare LTE.vi - OB252, OB255 added to 'Operating Band' - rscmwls Configure Signal Routing 3 CC CA 3 RF Out Scenario.vi - SCPI command changed - rscmwls Configure Signal Routing 3 CC CA PCC MIMO 4 RF Out Scenario.vi - SCPI command changed - rscmwls Configure Signal Routing 3 CC CA SCC 1 MIMO 4 RF Out Scenario.vi - SCPI command changed - rscmwls Query PCC SCC Sum Streams Downlink Throughput.vi - SCC3 - rscmwls Query Single Stream Downlink Throughput.vi - SCC3 - rscmwls Query Uplink Maximum Throughput Cell.vi - SCC3 - rscmwls Query CQI PMI RI Follow WB Automatically Determined Mapping Table.vi - SCC3

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query CQI RI Follow WB Automatically Determined Mapping Table.vi - SCC3 - rscmwls Query CQI Follow WB Automatically Determined Mapping Table.vi - SCC3 - rscmwls Query User Defined Channel Downlink Code Rate.vi - SCC3 - rscmwls Query User Defined Channel Uplink Code Rate.vi - SCC3 - rscmwls Query User Defined TTI Based Downlink Code Rate.vi - SCC3 - rscmwls Query User Defined TTI Based Uplink Code Rate.vi - SCC3 - rscmwls Queries CQI PMI Reporting Intervals.vi - SCC3 - rscmwls Query Downlink Full Cell BW Power.vi - SCC3 - rscmwls Query Fading Simulator Clipped Samples.vi - SCC3 - rscmwls Query IQ Out.vi - SCC3 - rscmwls Query Inter Frequency Need For Gaps.vi - return values help updated - rscmwls Query Inter Frequency Need For Gaps V1020.vi - return values help updated - rscmwls Query RF Parameters Supported Band Combination.vi - 'Results' updated - rscmwls Query RF Parameters Supported Band Combination Bandwidth Classes.vi - added 3, 4 to 'Band Number' - rscmwls Query RF Parameters Supported Band Combination MIMO Capability.vi - added 3, 4 to 'Band Number' - rscmwls Query UE Capabilities Category Information.vi - range updated - rscmwls Query UE Measurement RSRP.vi - SCC3 - rscmwls Query UE Measurement Index Range.vi - SCC3 - rscmwls Query UE Measurement RSRQ.vi - SCC3 - rscmwls Query UE Measurement Serving Cells.vi - SCC3 - rscmwls Query UE Measurement Serving Cells Range.vi - SCC3 - rscmwls Query PRACH Power Cell.vi - SCC3 - rscmwls Query PO-UE-PUSCH Toggling State Cell.vi - SCC3 - rscmwls Query RF Signal Routing Settings.vi - SCPI command output updated - rscmwls Query RF Signal Routing Active Scenario.vi - values 14..20 added to 'Scenario' - rscmwls Configure RMC Downlink Resource Block Position.vi - SCC3 - rscmwls Configure RF Signal Band Indicator.vi - SCC3 - rscmwls Query Inter RAT GERAN Settings.vi - fixed incorrect attribute in code - rscmwls Query TTI CQI.vi - SCC3 <p>* New attributes:</p> <ul style="list-style-type: none"> - Route 4CC CA Fading 8 RF Out Fix Scenario Internal (RSCMWLS_ATTR_ROUTE_4CC_CA_FADING_8_RF_OUT_FIX_SCENARIO_INTERNAL) - Route 4CC CA Fading 8 RF Out Fix Scenario External (RSCMWLS_ATTR_ROUTE_4CC_CA_FADING_8_RF_OUT_FIX_SCENARIO_EXTERNAL) - SCC Input External Attenuation (RSCMWLS_ATTR_SCC_INPUT_EXTERNAL_ATTENUATION) - SCC Expected Nominal Mode (RSCMWLS_ATTR_SCC_EXPECTED_NOMINAL_MODE) - SCC Expected Nominal Power (RSCMWLS_ATTR_SCC_EXPECTED_NOMINAL_POWER) - SCC Nominal Power Margin (RSCMWLS_ATTR_SCC_NOMINAL_POWER_MARGIN) - SCC Mixer Level Offset (RSCMWLS_ATTR_SCC_MIXER_LEVEL_OFFSET) - SCC Downlink Channel (RSCMWLS_ATTR_SCC_NUM_DOWNLINK_CHANNEL) - SCC Uplink Channel (RSCMWLS_ATTR_SCC_NUM_UPLINK_CHANNEL) - SCC Intraband Contiguous to PCC (RSCMWLS_ATTR_SCC_INTRABAND_CONTIGUOUS_TO_PCC) - SCC Band Definition Downlink Uplink Separation (RSCMWLS_ATTR_SCC_BAND_DEFINITION_DOWNLINK_UPLINK_SEPARATION) - SCC User Defined Channel Number Uplink Minimum (RSCMWLS_ATTR_SCC_USER_DEFINED_CHANNEL_NUMBER_UL_MIN) - SCC Query User Defined Channel Number Uplink Maximum (RSCMWLS_ATTR_SCC_QUERY_USER_DEFINED_CHANNEL_NUMBER_UL_MAX)

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - SCC Query User Defined Frequency Uplink Minimum (RSCMWLS_ATTR_SCC_QUERY_USER_DEFINED_FREQUENCY_UL_MIN) - SCC Query User Defined Frequency Uplink Maximum (RSCMWLS_ATTR_SCC_QUERY_USER_DEFINED_FREQUENCY_UL_MAX) - Fading Simulator Standard Enabled (RSCMWLS_ATTR_FADING_SIMULATOR_STANDARD_ENABLED) - Fading Simulator Standard Profile (RSCMWLS_ATTR_FADING_SIMULATOR_STANDARD_PROFILE) - Fading Simulator SCC Standard Enabled (RSCMWLS_ATTR_FADING_SIMULATOR_SCC_STANDARD_ENABLED) - Fading Simulator SCC Standard Profile (RSCMWLS_ATTR_FADING_SIMULATOR_SCC_STANDARD_PROFILE) - Fading Simulator SCC Restart Mode (RSCMWLS_ATTR_FADING_SIMULATOR_SCC_NUM_RESTART_MODE) - Physical Cell TDD Carrier Specific Configuration (RSCMWLS_ATTR_PHYSICAL_CELL_TDD_CARRIER_SPECIFIC_CONFIGURATION) - Physical Cell TDD SCC Uplink Downlink (RSCMWLS_ATTR_PHYSICAL_CELL_TDD_SCC_UPLINK_DOWNLINK) - Physical Cell TDD SCC Special Subframe (RSCMWLS_ATTR_PHYSICAL_CELL_TDD_SCC_SPECIAL_SUBFRAME) - CQI Reporting CSI Report Mode (RSCMWLS_ATTR_CQI_REPORTING_CSI_REPORT_MODE) - Connection Multicluseter UL (RSCMWLS_ATTR_CONNECTION_MULTICLUSTER_UL) - Connection SCC Multicluseter UL (RSCMWLS_ATTR_CONNECTION_SCC_MULTICLUSTER_UL) - Connected DRX sr-PUCCH Resource Index (RSCMWLS_ATTR_CONNECTED_DRX_SR_PUCCH_RESOURCE_INDEX) - Connected DRX sr-Config Index (RSCMWLS_ATTR_CONNECTED_DRX_SR_CONFIG_INDEX) - Connection UL HARQ (RSCMWLS_ATTR_CONNECTION_UL_HARQ) - Connection UL HARQ Transmissions (RSCMWLS_ATTR_CONNECTION_UL_HARQ_TRANSMISSIONS) - SMS Outgoing Protocol Identifier (RSCMWLS_ATTR_SMS_OUTGOING_PROTOCOL_IDENTIFIER) - SMS Outgoing Last Message Sent (RSCMWLS_ATTR_SMS_OUTGOING_LAST_MESSAGE_SENT) <p>* Modified attributes:</p> <ul style="list-style-type: none"> - SCC User Defined Channel Number Downlink Minimum (RSCMWLS_ATTR_SCC_NUM_USER_DEFINED_CHANNEL_NUMBER_DL_MIN) - SCPI command changed - SCC User Defined Channel Number Downlink Maximum (RSCMWLS_ATTR_SCC_NUM_USER_DEFINED_CHANNEL_NUMBER_DL_MAX) - SCPI command changed - SCC User Defined Channel Frequency Downlink Minimum (RSCMWLS_ATTR_SCC_NUM_USER_DEFINED_CHANNEL_FREQUENCY_DL_MIN) - SCPI command changed - Query SCC User Defined Channel Frequency Downlink Maximum (RSCMWLS_ATTR_QUERY_SCC_NUM_USER_DEFINED_CHANNEL_FREQUENCY_DL_MAX) - SCPI command changed - Fading Simulator Standard Profile (RSCMWLS_ATTR_FADING_SIMULATOR_STANDARD_PROFILE) - SCPI command changed from STANdard to PROFile - Fading Simulator Profile (RSCMWLS_ATTR_FADING_SIMULATOR_PROFILE) - SCPI command changed from STANdard to PROFile - Fading Simulator SCC Standard Profile (RSCMWLS_ATTR_FADING_SIMULATOR_SCC_STANDARD_PROFILE) - SCPI command changed from STANdard to PROFile

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - Fading Simulator SCC Profile (RSCMWLS_ATTR_FADING_SIMULATOR_SCC_NUM_PROFILE) - SCPI command changed from STANdard to PROFile - Connection PCC Codewords Layers (RSCMWLS_ATTR_CONNECTION_PCC_TM9_CODEWORDS_LAYERS) - SCPI command changed - Connection PCC Precoding Matrix (RSCMWLS_ATTR_CONNECTION_PCC_TM9_PRECODING_MATRIX) - SCPI command changed - Connection SCC Codewords Layers (RSCMWLS_ATTR_CONNECTION_SCC_TM9_CODEWORDS_LAYERS) - SCPI command changed - Connection SCC Precoding Matrix Advanced (RSCMWLS_ATTR_CONNECTION_SCC_TM9_PRECODING_MATRIX) - SCPI command changed <p>* Modified Repeated Capabilities:</p> <ul style="list-style-type: none"> - Scc - Identifiers ("SCC1,SCC2,SCC3", "SCC1,SCC2") - Scc - Command Values ("1,2,3", "1,2") <p>* Modified Range Tables:</p> <ul style="list-style-type: none"> - rscmwls_rngBand.RSCMWLS_VAL_BAND_OB29 - RSCMWLS_ATTR_OPERATING_BAND, RSCMWLS_ATTR_SCC_OPERATING_BAND, RSCMWLS_ATTR_SCC_NUM_OPERATING_BAND Help changed ("Operating Band 29", "Operation Band 29") - rscmwls_rngBand.RSCMWLS_VAL_BAND_OB30 - RSCMWLS_ATTR_OPERATING_BAND, RSCMWLS_ATTR_SCC_OPERATING_BAND, RSCMWLS_ATTR_SCC_NUM_OPERATING_BAND Help changed ("Operating Band 30", "Operation Band 30") - rscmwls_rngBand.RSCMWLS_VAL_BAND_OB31 - RSCMWLS_ATTR_OPERATING_BAND, RSCMWLS_ATTR_SCC_OPERATING_BAND, RSCMWLS_ATTR_SCC_NUM_OPERATING_BAND Help changed ("Operating Band 31", "Operation Band 31") - rscmwls_rngBand - RSCMWLS_ATTR_OPERATING_BAND, RSCMWLS_ATTR_SCC_OPERATING_BAND, RSCMWLS_ATTR_SCC_NUM_OPERATING_BAND New items: RSCMWLS_VAL_BAND_OB32, RSCMWLS_VAL_BAND_OB252, RSCMWLS_VAL_BAND_OB255 - rscmwls_rngPowerOffsetPA.RSCMWLS_VAL_POWER_OFFSET_ZERO - RSCMWLS_ATTR_DOWNLINK_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_NUM_POWER_OFFSET_PA Description changed ("0 dB", "") - rscmwls_rngPowerOffsetPA.RSCMWLS_VAL_POWER_OFFSET_N3DB - RSCMWLS_ATTR_DOWNLINK_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_NUM_POWER_OFFSET_PA Description changed ("-3 dB", "") - rscmwls_rngPowerOffsetPA.RSCMWLS_VAL_POWER_OFFSET_N6DB - RSCMWLS_ATTR_DOWNLINK_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_POWER_OFFSET_PA, RSCMWLS_ATTR_DOWNLINK_SCC_NUM_POWER_OFFSET_PA Description changed ("-6 dB", "") - rscmwls_rngULResourceBlock - RSCMWLS_ATTR_RMC_UPLINK_RESOURCE_BLOCK_POSITION, RSCMWLS_ATTR_SCC_NUM_RMC_UPLINK_RESOURCE_BLOCK_POSITION New items: RSCMWLS_VAL_RB_UL_PO, RSCMWLS_VAL_RB_UL_P6, RSCMWLS_VAL_RB_UL_P8, RSCMWLS_VAL_RB_UL_P12, RSCMWLS_VAL_RB_UL_P22, RSCMWLS_VAL_RB_UL_P24, RSCMWLS_VAL_RB_UL_P45, RSCMWLS_VAL_RB_UL_P68, RSCMWLS_VAL_RB_UL_P96

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls_rngUserDefinedChannelNumber - RSCMWLS_ATTR_USER_DEFINED_CHANNEL_NUMBER_DL_MIN, RSCMWLS_ATTR_USER_DEFINED_CHANNEL_NUMBER_DL_MAX, RSCMWLS_ATTR_USER_DEFINED_CHANNEL_NUMBER_UL_MIN, RSCMWLS_ATTR_SCC_USER_DEFINED_CHANNEL_NUMBER_DL_MIN, RSCMWLS_ATTR_SCC_USER_DEFINED_CHANNEL_NUMBER_DL_MAX, RSCMWLS_ATTR_USER_DEFINED_CHANNEL_NUMBER, RSCMWLS_ATTR_SCC_USER_DEFINED_CHANNEL_NUMBER, RSCMWLS_ATTR_SCC_NUM_USER_DEFINED_CHANNEL_NUMBER_DL_MIN, RSCMWLS_ATTR_SCC_NUM_USER_DEFINED_CHANNEL_NUMBER_DL_MAX, RSCMWLS_ATTR_SCC_USER_DEFINED_CHANNEL_NUMBER_UL_MIN Range changed to <0;1000000> - rscmwls_rngUECapabilitiesCategoryInformation - RSCMWLS_ATTR_UE_CAPABILITIES_CATEGORY_INFORMATION Range changed to <0;15> - rscmwls_rngPhysicalCellTDDSpecialSubframe - RSCMWLS_ATTR_PHYSICAL_CELL_TDD_SPECIAL_SUBFRAME, RSCMWLS_ATTR_PHYSICAL_CELL_TDD_SCC_SPECIAL_SUBFRAME Range changed to <0;9> - rscmwls_rngFadingSimulatorRestartMode - RSCMWLS_ATTR_FADING_SIMULATOR_RESTART_MODE, RSCMWLS_ATTR_FADING_SIMULATOR_SCC_RESTART_MODE, RSCMWLS_ATTR_FADING_SIMULATOR_SCC_NUM_RESTART_MODE New items: RSCMWLS_VAL_FADING_RESTART_MODE_TRIGGER - rscmwls_rngCSFallbackCellTarget.RSCMWLS_VAL_CSFB_GSM - RSCMWLS_ATTR_CIRCUIT_SWITCHED_FALLBACK_CELL_TARGET Description changed ("GSM", "") - rscmwls_rngCSFallbackCellTarget.RSCMWLS_VAL_CSFB_WCDMA - RSCMWLS_ATTR_CIRCUIT_SWITCHED_FALLBACK_CELL_TARGET Description changed ("WCDMA", "") - rscmwls_rngCSFallbackCellTarget - RSCMWLS_ATTR_CIRCUIT_SWITCHED_FALLBACK_CELL_TARGET New items: RSCMWLS_VAL_CSFB_TDSCDMA - rscmwls_rngDCIFormat - RSCMWLS_ATTR_CONNECTION_MIMO_DCI_FORMAT_PCC, RSCMWLS_ATTR_CONNECTION_MIMO_DCI_FORMAT_SCC, RSCMWLS_ATTR_CONNECTION_MIMO_DCI_FORMAT_SCC_NUM New items: RSCMWLS_VAL_MIMO_DCI_FORMAT_D2C
3.5.100	03/2015	<ul style="list-style-type: none"> * Support for CMW version 3.5.10 * New: - rscmwls Configure Signal Routing 2CC CA 4 RF Out Distributed Fix Scenario.vi - rscmwls Configure Signal Routing 2CC CA Fading 4 RF Out Distributed Scenario External.vi - rscmwls Configure Signal Routing 2CC CA Fading 4 RF Out Distributed Scenario Internal.vi - rscmwls Configure Signal Routing 3CC CA 6 RF Out Fix Scenario.vi - rscmwls Configure Signal Routing 3CC CA Fading 6 RF Out Fix Scenario External.vi - rscmwls Configure Signal Routing 3CC CA Fading 6 RF Out Fix Scenario Internal.vi - rscmwls Configure Signal Routing 4CC CA 8 RF Out Fix Scenario.vi - rscmwls Configure Duplex Mode Cell.vi - rscmwls Configure Duplex Mode Use Carrier Specific.vi - rscmwls Configure SCC Use UL.vi - rscmwls Configure Signal Routing 3CC CA 3 RF Out Scenario.vi - rscmwls Configure Signal Routing 3CC CA PCC MIMO 4 RF Out Scenario.vi - rscmwls Configure Signal Routing 3CC CA SCC1 MIMO 4 RF Out Scenario.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure RF Signal Frequency Diff Offsets.vi - rscmwls Configure UL Power PUSCH.vi - rscmwls Configure Uplink Power Maximum Cell.vi - rscmwls Configure Advanced PRACH Power Cell.vi - rscmwls Query PRACH Power Cell.vi - rscmwls Configure Advanced Toggling At RRC Settings Cell.vi - rscmwls Query PO-UE-PUSCH Toggling State Cell.vi - rscmwls Configure TX Power Control Single Cell.vi - rscmwls Configure TX Power Control Single Execute Cell.vi - rscmwls Configure TX Power Control Setting Type Cell.vi - rscmwls Configure TX Power Control Target Power Cell.vi - rscmwls Configure TX Power Control PUCCH Target Power Cell.vi - rscmwls Connection Copy PCC To SCC.vi - rscmwls Configure Beamforming Model.vi - rscmwls Configure Beamforming Matrix.vi - rscmwls Query Uplink Maximum Throughput Cell.vi - rscmwls Configure Timing Advance Control.vi - rscmwls Configure MIMO TM 9 Parameters.vi - rscmwls Configure MIMO TM 9 Precoding Matrix.vi - rscmwls Configure MIMO TM 9 CSI-RS Parameters.vi - rscmwls Configure MIMO TM 9 Zero Power Parameters.vi - rscmwls Configure MIMO TM 9 Matrix.vi - rscmwls Configure PDCCH Agregation Level.vi - rscmwls Configure PDCCH Symbols.vi - rscmwls Fetch Intermediate Absolute BLER Results.vi - rscmwls Fetch Intermediate Relative BLER Results.vi - rscmwls Fetch Intermediate Single Stream DL Abs BLER Results.vi - rscmwls Fetch Intermediate Single Stream DL Rel BLER Results.vi - rscmwls Configure RF Signal Input Attenuation.vi - rscmwls Configure RF Signal Output Attenuation.vi - rscmwls Apply Network Time at Attach.vi - rscmwls Apply Network Time Now.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwls Select Component Carrier.vi - rscmwls Configure IQ In.vi - rscmwls Query IQ Out.vi - rscmwls Configure Signal Routing Two RF Out Ports Fading Scenario IQ Board.vi - rscmwls Query RF Signal Routing Settings.vi - rscmwls Query RF Signal Routing Active Scenario.vi - rscmwls Configure Signal Routing 2CC CA Fading 2 RF Out Scenario Internal.vi - rscmwls Configure Signal Routing 2CC CA Fading 2 RF Out Scenario External.vi - rscmwls Configure Signal Routing 1 Cell Fading 4x2 MIMO 2 RF Out Scenario Internal.vi - rscmwls Configure Signal Routing 1 Cell Fading 4x2 MIMO 2 RF Out Scenario External.vi - rscmwls Configure Signal Routing 2CC CA 2 RF Out Scenario.vi - rscmwls Configure RF Signal Attenuation MIMO Output.vi - rscmwls Configure RF Signal Frequency.vi - rscmwls Configure RF Signal Frequency Offset.vi - rscmwls Configure RF Signal Band Indicator.vi - rscmwls Configure RF Signal User Defined Channel Number.vi - rscmwls Configure Minimum Downlink Channel Frequency.vi - rscmwls Query User Defined Resulting Frequencies.vi - rscmwls Configure SCC Settings.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query SCC State.vi - rscmwls Query UE Measurement RSRP.vi - rscmwls Query UE Measurement RSRQ.vi - rscmwls Query UE Measurement Index Range.vi - rscmwls Query UE Measurement Serving Cells.vi - rscmwls Query UE Measurement Serving Cells Range.vi - rscmwls Configure Fading Simulator.vi - rscmwls Restart Fading Simulator.vi - rscmwls Query Fading Simulator Clipped Samples.vi - rscmwls Configure Fading Simulator Doppler Frequency.vi - rscmwls Query Internal Fading Noise Power Values.vi - rscmwls Query Fading Module AWGN Noise Bandwidth.vi - rscmwls Configure Downlink Power Levels.vi - rscmwls Configure Downlink Power PDSCH.vi - rscmwls Configure Downlink Power AWGN Level.vi - rscmwls Query Downlink Full Cell BW Power.vi - rscmwls Configure TX Power Control User Defined Pattern.vi - help - rscmwls Configure Physical Cell Setup.vi - rscmwls Configure Network Identity Settings.vi - rscmwls Configure Synchronization Timing Offset.vi - rscmwls Configure CQI PMI Config Index.vi - rscmwls Configure CQI PMI Config Index TDD.vi - rscmwls Queries CQI PMI Reporting Intervals.vi - rscmwls Connection Swap PCC With SCC.vi - rscmwls Configure MIMO Settings.vi - rscmwls Configure Antenna Configuration.vi - rscmwls Query Transmission Scheme.vi - rscmwls Configure Precoding Matrix.vi - rscmwls Configure Static Channel Model State.vi - rscmwls Configure Static Channel Coefficients.vi - rscmwls Configure Static Channel Coefficients MIMO.vi - rscmwls Query Single Stream Downlink Throughput.vi - rscmwls Query PCC SCC Sum Streams Downlink Throughput.vi - rscmwls Configure Scheduling Type.vi - rscmwls Configure Connection Use Stream 1 Settings.vi - rscmwls Configure Reduced PDCCH.vi - rscmwls Query Number Of PDCCH Symbols.vi - rscmwls Query PDCCH Aggregation Levels.vi - rscmwls Configure RMC Downlink Settings.vi - rscmwls Configure RMC Downlink Version.vi - rscmwls Configure RMC Downlink Resource Block Position.vi - rscmwls Configure RMC Uplink Settings.vi - rscmwls Configure RMC Uplink Resource Block Position.vi - rscmwls Configure User Defined Channel Downlink.vi - rscmwls Query User Defined Channel Downlink Code Rate.vi - rscmwls Configure User Defined Channel Uplink.vi - rscmwls Query User Defined Channel Uplink Code Rate.vi - rscmwls Configure User Defined TTI Based.vi - rscmwls Query User Defined TTI Based Downlink Code Rate.vi - rscmwls Query User Defined TTI Based Uplink Code Rate.vi - rscmwls Configure User Defined TTI Based All.vi - rscmwls Configure TTI CQI.vi - rscmwls Query TTI CQI.vi

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure TTI CQI All.vi - rscmwls Configure CQI Follow WB.vi - rscmwls Query CQI Follow WB Automatically Determined Mapping Table.vi - rscmwls Query CQI PMI RI Follow WB Automatically Determined Mapping Table.vi - rscmwls Configure SPS Interval.vi - rscmwls Configure BLER Confidence Stop Decision.vi - rscmwls Fetch BLER Throughput Trace.vi - rscmwls Fetch BLER Single Stream Downlink Throughput Trace.vi - rscmwls Fetch BLER Single Stream Downlink CQI Trace.vi - rscmwls Fetch BLER Single Stream Downlink Median CQI Trace.vi - rscmwls Fetch Absolute BLER Results.vi - rscmwls Fetch Relative BLER Results.vi - rscmwls Fetch Single Stream Downlink Absolute BLER Results.vi - rscmwls Fetch Single Stream Downlink Relative BLER Results.vi - rscmwls Fetch Single Stream Downlink CQI BLER Results.vi - rscmwls Fetch BLER Confidence Result.vi - rscmwls Fetch Absolute Extended BLER HARQ Per Subframe Results.vi - rscmwls Fetch Relative Extended BLER HARQ Per Subframe Results.vi - rscmwls Fetch Absolute Extended BLER HARQ Per Transmission Results.vi - rscmwls Fetch Relative Extended BLER HARQ Per Transmission Results.vi - rscmwls Fetch Extended BLER Rank Indicator Results.vi - rscmwls Fetch Extended BLER PMI RI Results.vi - rscmwls Configure Connection Settings.vi
3.2.810	10/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.810 * Express VI version 1.50.1 * New subsystems: <ul style="list-style-type: none"> - Dedicated Bearer Preparation - SPS - Throughput * New functions: <ul style="list-style-type: none"> - rscmwls Configure Signal Routing 1 Cell Fading 4x2 MIMO 2RF Out Scenario Internal.vi - rscmwls Configure SignalRouting 1 Cell Fading 4x2 MIMO 2RF Out Scenario External.vi - rscmwls Configure RF Signal Frequency Different Offsets.vi - rscmwls Query UE Info Voice Domain Preference.vi - rscmwls Query UE Info Usage Setting.vi - rscmwls Query UE Info Dedicated Bearer.vi - rscmwls Configure UE Measurement Reports Filter Coefficients.vi - rscmwls Query UE Capabilities Feature Group Indicators Add Eutra.vi - rscmwls Query UE Capabilities Feature Group Indicators Rel 9.vi - rscmwls Query UE Capabilities Feature Group Indicators Rel9 Add Eutra.vi - rscmwls Query UE Capabilities Feature Group Indicators Rel10.vi - rscmwls Query UE Capabilities Feature Group Indicators Rel10 Add Eutra.vi - rscmwls Query UE Capabilities Device Type.vi - rscmwls Query UE Capabilities RACHReport.vi - rscmwls Query RF Parameters Supported Band Combination.vi - rscmwls Query RF Parameters Supported Band Bandwidth Combination Set.vi - rscmwls Query RF Parameters Supported Band Combination Bandwidth Classes.vi - rscmwls Query RF Parameters Supported Band Combination MIMO Capability.vi - rscmwls Query UE Specific Reference Signals Supported Add Eutra.vi - rscmwls Query UE Specific Reference Signals Supported Add Eutra.vi - rscmwls Query UE TX Antenna Selection Supported Add Eutra.vi - rscmwls Query UE Enhanced Dual Layer Supported.vi - rscmwls Query UE Two Antenna Ports For PUCCH Supported.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Query UE Two Antenna Ports For PUCCH Supported Add Eutra.vi - rscmwls Query UE TM9 With 8TX Supported.vi - rscmwls Query UE TM9 With 8TX Supported Add Eutra.vi - rscmwls Query UE PMI Disabling Supported.vi - rscmwls Query UE PMI Disabling Supported Add Eutra.vi - rscmwls Query UE Cross Carrier Scheduling Supported.vi - rscmwls Query UE Cross Carrier Scheduling Supported Add Eutra.vi - rscmwls Query UE Simultaneous PUCCH PUSCH Supported.vi - rscmwls Query UE Simultaneous PUCCH PUSCH Supported Add Eutra.vi - rscmwls Query UE Multi Cluster PUSCH Within CC Supported.vi - rscmwls Query UE Multi Cluster PUSCH Within CC Supported Add Eutra.vi - rscmwls Query UE Non Contiguous UL RA Within CC List Supported.vi - rscmwls Query UE Non Contiguous UL RA Within CC List Supported Add Eutra.vi - rscmwls Query Inter Frequency NeedForGaps V1020.vi - rscmwls Query UTRA FDD Inter RAT Need For Gaps V1020.vi - rscmwls Query UTRA FDD Inter RAT Need For Gaps TDD.vi - rscmwls Query UTRA FDD Inter RAT Need For Gaps TDD V1020.vi - rscmwls Query GERAN Inter RAT NeedForGaps V1020.vi - rscmwls Query CDMA2000 HRPD Inter RAT Need For Gaps V1020.vi - rscmwls Query CDMA2000 1xRTT Inter RAT Need For Gaps V1020.vi - rscmwls Query Inter RAT UTRA FDD E Redirection.vi - rscmwls Query Inter RAT UTRA FDD E Redirection Add Eutra.vi - rscmwls Query Inter RAT UTRA TDD E Redirection.vi - rscmwls Query Inter RAT UTRA TDD E Redirection Add Eutra.vi - rscmwls Query Inter RAT GERAN Configuration Add Eutra.vi - rscmwls Query Inter RAT GERAN Settings.vi - rscmwls Query Inter RAT CDMA2000 1xRTT E CSFB Settings.vi - rscmwls Query Inter RAT CDMA2000 1xRTT E CSFB Settings Add Eutra.vi - rscmwls Query CSG Proximity Indications.vi - rscmwls Query Neighbor Cell SI Acquisition For HO.vi - rscmwls Query Neighbor Cell SI Acquisition For HO Add Eutra.vi - rscmwls Query Based Network Performance.vi - rscmwls Configure CQI Reporting PMI RI.vi - rscmwls Configure Connection External DAU.vi - rscmwls Configure Connection Downlink Default Bearer.vi - rscmwls Configure Connection TTI Bundling.vi - rscmwls Configure CQI Follow WB PMI.vi - rscmwls Configure CQI RI Follow WB.vi - rscmwls Query CQI RI Follow WB Automatically Determined Mapping Table.vi - rscmwls Configure CQI PMI RI Follow WB.vi - rscmwls Query CQI PMI RI Follow WB Automatically Determined Mapping Table.vi - rscmwls SMS Outgoing Service Center Time Stamp Source.vi - rscmwls SMS Outgoing Service Center Time Stamp Date.vi - rscmwls Configure BLER Confidence Stop Decision.vi - rscmwls Fetch BLER Confidence Result All.vi * Modified functions: <ul style="list-style-type: none"> - rscmwls Query RF Signal Routing Settings.vi - Scenario Nr. 10 - rscmwls Query RF Signal Routing Active Scenario.vi - Scenario Nr. 10 - rscmwls Configure RF Signal Frequency Offset.vi - SCC - rscmwls Configure Scheduling Type.vi - SPS, FPmi, FCPRi and FCRI - rscmwls Fetch BLER Confidence Result.vi - SCC, Undefined
3.2.700	04/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.70.xx * New:

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Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Speech Codec - rscmwls Configure Signal Routing Four RF Out Ports Scenario.vi - rscmwls Configure Signal Routing 2CC CA Fading 2 RF Out Scenario Internal.vi - rscmwls Configure Signal Routing 2CC CA Fading 2 RF Out Scenario External.vi - rscmwls Configure Signal Routing Two 2CC CA Fading 4 RF Out Scenario Internal.vi - rscmwls Configure Signal Routing Two 2CC CA Fading 4 RF Out Scenario External.vi - rscmwls Configure Signal Routing Two 2CC CA 2 RF Out Scenario.vi - rscmwls Configure Signal Routing Two 2CC CA 4 RF Out Scenario.vi - rscmwls Configure UE Measurement Cycle SCell.vi - rscmwls Configure Physical Cell SRS.vi - rscmwls Configure Cell Reselection Additional.vi - rscmwls Connection Swap PCC With SCC.vi - rscmwls Configure MIMO Settings.vi - rscmwls Query Transmission Scheme.vi - rscmwls Configure Beamforming Model.vi - rscmwls Configure Beamforming Matrix.vi - rscmwls Configure Connection Use Stream 1 Settings.vi - rscmwls Configure Connected DRX UL Dynamic Scheduling.vi - rscmwls Configure RMC Downlink Version.vi - rscmwls SMS Outgoing Binary Message Text.vi - rscmwls SMS Outgoing Settings.vi - rscmwls Query SMS Incoming Data Coding.vi * Modified: - rscmwls Configure IQ In.vi - SCC - rscmwls Query IQ Out.vi - SCC - rscmwls Query RF Signal Routing Settings.vi - More scenarios - rscmwls Query RF Signal Routing Active Scenario.vi - More scenarios - rscmwls Configure RF Signal Attenuation MIMO Output.vi - Stream range - rscmwls Configure Handover Prepare.vi - NS16 - NS20 - rscmwls Query UE Measurement RSRP.vi - SCC - rscmwls Query UE Measurement RSRQ.vi - SCC - rscmwls Query UE Measurement Index Range.vi - SCC - rscmwls Query UE Measurement Serving Cells.vi - SCC - rscmwls Query UE Measurement Serving Cells Range.vi - SCC - rscmwls Query Fading Simulator Clipped Samples.vi - SCC - rscmwls Configure Fading Simulator Doppler Frequency.vi - SCC - rscmwls Configure Uplink Power Maximum.vi - Maximum - rscmwls Configure TX Power Control Target Power.vi - Maximum - rscmwls Configure Cell Reselection.vi - S intrasearch Value range - rscmwls Configure Reject Causes.vi - C13 - rscmwls Configure CQI PMI Config Index.vi - SCC - rscmwls Configure CQI PMI Config Index TDD.vi - SCC - rscmwls Queries CQI PMI Reporting Intervals.vi - SCC - rscmwls Configure Connection Settings.vi - NS16 - NS20 - rscmwls Configure RMC Downlink Settings.vi - N32, N45, N60 - rscmwls Configure RMC Uplink Settings.vi - N32, N45, N60 - rscmwls Configure RMC Uplink Resource Block Position.vi - Values 13-28 - rscmwls Fetch Absolute Extended BLER HARQ Per Subframe Results.vi - SCC - rscmwls Fetch Relative Extended BLER HARQ Per Subframe Results.vi - SCC - rscmwls Fetch Absolute Extended BLER HARQ Per Transmission Results.vi - SCC - rscmwls Fetch Relative Extended BLER HARQ Per Transmission Results.vi - SCC - rscmwls Fetch Extended BLER Rank Indicator Results.vi - SCC - rscmwls Fetch Extended BLER PMI RI Results.vi - SCC

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
3.2.500	11/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.50.xx * New features: <ul style="list-style-type: none"> - Secondary Component Carrier (SCC) - Synchronization Settings * New functions: <ul style="list-style-type: none"> - rscmwls_Configure SCC Activation Mode.vi - rscmwls_Configure RF Signal External Delay Compensation.vi - rscmwls_Configure Handover MobilityMode.vi - rscmwls_Configure TX Power Control 3GPP Pattern.vi - rscmwls_Configure Synchronization Zone.vi - rscmwls_Configure Synchronization Timing Offset.vi - rscmwls_Configure RRC Connection Inactivity Timeout.vi - rscmwls_Query PCC SCC Sum Streams Downlink Throughput.vi - rscmwls_Query SCC State.vi - rscmwls_Configure SCC Settings.vi - rscmwls_Select Component Carrier.vi * Modified functions: <ul style="list-style-type: none"> - rscmwls_Query RF Signal Routing Settings.vi - rscmwls_Configure RF Signal Attenuation.vi - rscmwls_Configure TX Power Control Setting Type.vi - rscmwls_Configure Integrity Algorithm - The default value was changed.vi - rscmwls_Configure Accept Multiple Default Bearer State.vi - rscmwls_Configure Reduced PDCCH.vi - rscmwls_Query Number Of PDCCH Symbols.vi - rscmwls_Configure Antenna Configuration.vi - rscmwls_Configure RF Signal Attenuation MIMO Output.vi - rscmwls_Configure RF Signal Frequency.vi - rscmwls_Configure RF Signal Band Indicator.vi - rscmwls_Configure RF Signal User Defined Channel Number.vi - rscmwls_Query User Defined Resulting Frequencies.vi - rscmwls_Configure Minimum Downlink Channel Frequency.vi - rscmwls_Configure Downlink Power Levels.vi - rscmwls_Configure Downlink Power PDSCH.vi - rscmwls_Configure Downlink Power AWGN Level.vi - rscmwls_Query Downlink Full Cell BW Power.vi - rscmwls_Configure Physical Cell Setup.vi - rscmwls_Configure Network Identity Settings.vi - rscmwls_Configure PDSCH Transmission Scheme.vi - rscmwls_Configure Precoding Matrix.vi - rscmwls_Configure Static Channel Model State.vi - rscmwls_Query Single Stream Downlink Throughput.vi - rscmwls_Configure RMC Downlink Resource Block Position.vi - rscmwls_Configure Scheduling Type.vi - rscmwls_Query PDCCH Aggregation Levels.vi - rscmwls_Configure User Defined Channel Downlink.vi - rscmwls_Query User Defined Channel Downlink Code Rate.vi - rscmwls_Configure User Defined TTI Based.vi - rscmwls_Configure User Defined TTI Based All.vi - rscmwls_Query User Defined TTI Based Downlink Code Rate.vi - rscmwls_Configure Static Channel Coefficients MIMO.vi - rscmwls_Configure Static Channel Coefficients.vi - rscmwls_Configure RMC Downlink Settings.vi - rscmwls_Fetch BLER Throughput Trace.vi

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls_Fetch BLER Single Stream Downlink Throughput Trace.vi - rscmwls_Fetch Absolute BLER Results.vi - rscmwls_Fetch Relative BLER Results.vi - rscmwls_Fetch Single Stream Downlink Absolute BLER Results.vi - rscmwls_Fetch Single Stream Downlink Relative BLER Results.vi - rscmwls_Configure TTI CQI.vi - rscmwls_Configure TTI CQI All.vi - rscmwls_Configure CQI Follow WB.vi - rscmwls_Query CQI Follow WB Automatically Determined Mapping Table.vi - rscmwls_Configure Fading Simulator Restart Mode.vi - rscmwls_Restart Fading Simulator.vi - rscmwls_Query Internal Fading Noise Power Values.vi - rscmwls_Query Fading Module AWGN Noise Bandwidth.vi - rscmwls_Fetch Single Stream Downlink CQI BLER Results.vi - rscmwls_Fetch BLER Single Stream Downlink CQI Trace.vi - rscmwls_Fetch BLER Single Stream Downlink Median CQI Trace.vi
3.2.200	10/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.20.xx * New features - Connected DRX - CS Fallback (MO) * New functions: - rscmwls Query UE Measurement Neighbor Cells TD-SCDMA.vi - rscmwls Query UE Measurement Neighbor Cells TD-SCDMA Range.vi - rscmwls Configure Fading Simulator Doppler Frequency.vi - rscmwls Configure Advanced Toggling At RRC Settings.vi - rscmwls Query PO-UE-PUSCH Toggling State.vi - rscmwls Configure Physical Cell Number of Ignored Preambles.vi - rscmwls Configure EPS NetworkFeatureSupportState.vi - rscmwls Configure EPS NetworkFeatureSupport.vi - rscmwls Configure TD-SCDMA Neighbor Cell List.vi - rscmwls Configure Connected DRX Settings.vi - rscmwls Configure Connected DRX Timer.vi - rscmwls Configure Connected Long DRX Cycle.vi - rscmwls Configure DRX Short Cycle.vi - rscmwls Configure Circuit Switched Fallback Cell Target.vi - rscmwls Configure Circuit Switched Fallback GSM Target.vi - rscmwls Configure Circuit Switched Fallback WCDMA Target.vi - rscmwls Query TTI CQI.vi - rscmwls Fetch Extended BLER Rank IndicatorResults.vi - rscmwls Fetch Extended BLER PMI RI Results.vi * Modified functions: - rscmwls Configure Fading Simulator - rscmwls Configure Fading Module AWGN.vi - The range table was changed - rscmwls Configure Physical Cell Received Preambles.vi - The control "No Response to Preambles" is changed from Boolean to Int32 - rscmwls Configure Low Reselection Threshold.vi - rscmwls Configure Minimum Downlink Channel Frequency.vi
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.10.xx * New features - Internal Fading

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<p>* New VIs:</p> <ul style="list-style-type: none"> - rscmwls Configure Signal Routing Standard Cell Fading IQ Board.vi - rscmwls Configure Signal Routing Two RF Out Ports Fading Scenario IQ Board.vi - rscmwls Configure RF Signal Frequency Offset.vi - rscmwls Configure RF Signal Mixer Level Offset.vi - rscmwls Configure UE Measurement Reports Parameters.vi - rscmwls Query UE Measurement Serving Cells.vi - rscmwls Query UE Measurement Serving Cells Range.vi - rscmwls Query UE Measurement Neighbor Cells LTE.vi - rscmwls Query UE Measurement Neighbor Cells LTE Range.vi - rscmwls Query UE Measurement Neighbor Cells GSM.vi - rscmwls Query UE Measurement Neighbor Cells GSM Range.vi - rscmwls Query UE Measurement Neighbor Cells WCDMA.vi - rscmwls Query UE Measurement Neighbor Cells WCDMA Range.vi - rscmwls Query UE Measurement Neighbor Cells CDMA2000 1xEV-DO.vi - rscmwls Query Downlink Full Cell BW Power.vi - rscmwls Configure Advanced PRACH Power.vi - rscmwls Query PRACH Power.vi - rscmwls Configure Physical Cell TDD.vi - rscmwls Configure CQI PMI Config Index TDD.vi - rscmwls Configure Antenna Configuration.vi - rscmwls Configure Static Channel Coefficients MIMO.vi - rscmwls Configure Reduced PDCCH.vi - rscmwls Query NumberOfPDCCHSymbols.vi - rscmwls Query PDCCHAggregationLevels.vi - rscmwls Configure DLHARQ.vi - rscmwls Configure DL HARQ Redundancy Version Sequence.vi - rscmwls Query User Defined Channel Downlink Code Rate.vi - rscmwls Query User Defined Channel Uplink Code Rate.vi - rscmwls Query User Defined TTI Based Downlink Code Rate.vi - rscmwls Query User Defined TTI Based Uplink Code Rate.vi - rscmwls Configure CQI Follow WB.vi - rscmwls Query CQI Follow WB Automatically Determined Mapping Table.vi - rscmwls Fetch Absolute Extended BLER HARQ Per Subframe Results.vi - rscmwls Fetch Relative Extended BLER HARQ Per Subframe Results.vi - rscmwls Fetch Absolute Extended BLER HARQ Per Transmission Results.vi - rscmwls Fetch Relative Extended BLER HARQ Per Transmission Results.vi - rscmwls Fetch Extended BLER Uplink Results.vi <p>* Modified VIs:</p> <ul style="list-style-type: none"> - rscmwls_Configure Signal Routing Standard Cell Fading.vi - rscmwls_Configure Signal Routing Two RF Out Ports Fading Scenario.vi - rscmwls_Configure RF Signal Frequency.vi - rscmwls_Configure RF Signal Band Indicator.vi - rscmwls_Configure RF Signal User Defined Channel Number.vi - rscmwls_Query Maximum Uplink Channel Number.vi - rscmwls_Configure Minimum Downlink Channel Frequency.vi - rscmwls_Query User Defined Resulting Frequencies.vi - rscmwls_Configure Band Definition Downlink Uplink Separation.vi - rscmwls_Configure Handover External Prepare TD-SCDMA.vi - rscmwls_Configure Downlink Power Levels.vi - rscmwls_Configure Downlink Power PDSCH.vi - rscmwls_Configure Downlink Power AWGN Level.vi - rscmwls_Configure Uplink Power PUSCH.vi

rscmwls driver for LTE Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls_Configure Physical Cell Setup.vi - rscmwls_Configure Network Identity Settings.vi - rscmwls_Configure LTE Neighbor Cell List.vi - rscmwls_Configure GSM Neighbor Cell List.vi - rscmwls_Configure WCDMA Neighbor Cell List.vi - rscmwls_Configure CDMA Neighbor Cell List.vi - rscmwls_Configure EVDO Neighbor Cell List.vi - rscmwls_Configure CQI PMI Config Index.vi - rscmwls_Configure PDSCH Transmission Scheme.vi - rscmwls_Configure Precoding Matrix.vi - rscmwls_Configure Static Channel Model State.vi - rscmwls_Configure Static Channel Coefficients.vi - rscmwls_Query Single Stream Downlink Throughput.vi - rscmwls_Configure Scheduling Type.vi - rscmwls_Configure RMC Downlink Settings.vi - rscmwls_Configure RMC Downlink Resource Block Position.vi - rscmwls_Configure RMC Uplink Settings.vi - rscmwls_Configure RMC Uplink Resource Block Position.vi - rscmwls_Configure User Defined Channel Downlink.vi - rscmwls_Configure User Defined Channel Uplink.vi - rscmwls_Configure User Defined TTI Based.vi - rscmwls_Configure User Defined TTI Based All.vi - rscmwls_Configure TTI CQI.vi - rscmwls_Configure TTI CQI All.vi - rscmwls_Configure Extended BLER.vi - rscmwls_Fetch BLER Throughput Trace.vi - rscmwls_Fetch BLER Single Stream Downlink Throughput Trace.vi - rscmwls_Fetch BLER Single Stream Downlink CQI Trace.vi - rscmwls_Fetch BLER Single Stream Downlink Median CQI Trace.vi - rscmwls_Fetch Absolute BLER Results.vi - rscmwls_Fetch Relative BLER Results.vi - rscmwls_Fetch Single Stream Downlink Absolute BLER Results.vi - rscmwls_Fetch Single Stream Downlink Relative BLER Results.vi - rscmwls_Fetch Single Stream Downlink CQI BLER Results.vi
3.0.302	05/2013	<ul style="list-style-type: none"> * Modified - rscmwls Configure RMC Downlink Settings.vi - added Zero and Keep transport block size index - rscmwls Configure RMC Uplink Settings.vi -added Zero and Keep transport block size index
3.0.301	04/2013	<ul style="list-style-type: none"> * Modified - rscmwls Configure RMC Downlink Settings.vi - added Zero resource blocks - rscmwls Configure RMC Uplink Settings.vi - added Zero resource blocks
3.0.300	01/2013	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.30.x * New features <ul style="list-style-type: none"> - Handover to external instrument - Network Time - CQI Reporting - CQI scheduling * New <ul style="list-style-type: none"> - rscmwls Query RFSignal Routing Active Scenario.vi - rscmwls Configure IQ In.vi - rscmwls Query IQ Out.vi - rscmwls Configure Signal Routing Standard Cell Fading External.vi

rscmwls driver for LTE Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Signal Routing Two RFOut Ports Fading Scenario External.vi - rscmwls Query RRC State.vi - rscmwls Configure Reject Causes.vi - rscmwls Configure Group Hopping.vi - rscmwls Configure UE Category.vi - rscmwls Configure SIB Reconfiguration.vi - rscmwls Query Downlink Code Rate.vi - rscmwls Query Uplink Code Rate.vi - rscmwls Configure BLER Measurement.vi - rscmwls Configure BLER Error Ratio Calculation.vi - rscmwls Configure BLER Confidence.vi - rscmwls Fetch BLER Confidence Result.vi * Changes - rscmwls Configure Signal Routing Standard CellFading.vi - command updated; added converters RX 3, RX 4, TX 3, TX 4 - rscmwls Configure Signal Routing Two RF Out Ports Fading Scenario.vi - command updated - rscmwls Configure RF Signal Routing.vi - added converters RX 3, RX 4, TX 3, TX 4; added connectors 3 COM, 4 COM, Virtual A,B - rscmwls Query RF Signal Routing Settings.vi - API updated added new parameters: IQ Connector 1, IQ Connector 2 - rscmwls Query Single Stream Downlink Throughput.vi - command updated - rscmwls Query Sum Streams Downlink Throughput.vi - command relpaced - rscmwls Query Uplink Maximum Throughput.vi - command relpaced - rscmwls Configure Scheduling Type.vi - Added CQI sceduling - rscmwls Configure Uplink Power Maximum.vi - power range increased to 30 dBm - rscmwls Query IP Address.vi - command updated - rscmwls Configure Handover Prepare.vi - added Band 26, 27, 28, 44; value of constants changed rscmwls Configure LTE Neighbor Cell List.vi - rscmwls Configure RF Signal Frequency.vi - added Band 22 .. 28; TDD bands 33 .. 44; userdefined band - rscmwls Initiate Handover.vi - added wait for OPC up to 20s
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.12.x * New features - Handover - Event Log - UE Capabilities (RF Parameters, Physical Layer, PDCP, Measurement Parameters, IRAT) - Neighbor Cell Settings - Message Monitoring Settings * New - rscmwls Configure Duplex Mode.vi - rscmwls Configure RF Signal Band Indicator.vi - rscmwls Configure RF Signal User Defined Channel Number.vi - rscmwls Query Maximum Uplink Channel Number.vi - rscmwls Configure Minimum Downlink Channel Frequency.vi - rscmwls Query User Defined Resulting Frequencies.vi - rscmwls Configure Band Definition Downlink Uplink Separation.vi - rscmwls Configure UE Measurement Reports Interval.vi - rscmwls Configure Physical Cell PRACH Index.vi - rscmwls Configure User Defined TTI Based All.vi - rscmwls Configure Accept Multiple Default Bearer State.vi - rscmwls Configure Connection Default Paging Cycle.vi - rscmwls Configure Connection FDD Inter Changes.vi

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwls Configure Connection Downlink RLC Mode.vi - rscmwls Configure End To End.vi - rscmwls Configure Signal Routing IQ Out - RF In Scenario.vi - rscmwls Configure Signal Routing Standard Cell Fading.vi - rscmwls Configure Signal Routing Two RF Out Ports Fading Scenario.vi - rscmwls Fetch BLER Single Stream Downlink CQI Trace.vi - rscmwls Fetch BLER Single Stream Downlink Median CQI Trace.vi - rscmwls Fetch Single Stream Downlink CQI BLER Results.vi - rscmwls Configure T3412 Timer.vi - rscmwls Configure Cell Reselection.vi - rscmwls Configure Send DNS PCO.vi - rscmwls Configure Precoding Matrix.vi * Updated - rscmwls Configure Packet Switching Signaling State.vi - rscmwls Query Packet Switched State.vi - rscmwls Query RF Signal Routing Settings.vi - rscmwls Fetch Absolute BLER Results.vi - rscmwls Fetch Single Stream Downlink Absolute BLER Results.vi
2.1.201	02/2012	Modifications: <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.200	07/2011	Release for CMW firmware version 2.1.20.x <ul style="list-style-type: none"> * New features <ul style="list-style-type: none"> - Messaging (SMS) * New functions/attributes <ul style="list-style-type: none"> - rscmwls_ConfigureRRCConnectionState - RSCMWLS_ATTR_RRC_CONNECTION_STATE * Modified <ul style="list-style-type: none"> - rscmwls_ConfigureTXPowerControlTargetPower - changed data type
2.1.100	07/2011	Release for CMW firmware version 2.1.10.xx <ul style="list-style-type: none"> * New <ul style="list-style-type: none"> - UE Information - rscmwls Query IP Address.vi - rscmwls Configure TX Power Control User Defined Pattern.vi - rscmwls Configure TX Power Control PUCCH Target Power.vi - rscmwls Configure Physical Cell Received Preambles.vi - rscmwls Configure Physical Cell PRACH Ramping Step.vi - rscmwls Configure Physical Cell SRS State.vi - rscmwls Configure Connection Type.vi - rscmwls Configure User Defined TTI Based.vi - rscmwls Configure PDSCH Transmission Scheme.vi * Updated (changed SCPI command syntax) <ul style="list-style-type: none"> - rscmwls Query RF Signal Routing Settings.vi - rscmwls Configure Uplink Power PUSCH.vi - rscmwls Configure TX Power Control Single.vi - rscmwls Configure TX Power Control Single Execute.vi - rscmwls Configure TX Power Control Setting Type.vi - rscmwls Configure TX Power Control Target Power.vi - rscmwls Fetch Absolute BLER Results.vi - rscmwls Fetch Relative BLER Results.vi - rscmwls Fetch Single Stream Downlink Absolute BLER Results.vi

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		- rscmwls Fetch Single Stream Downlink Relative BLER Results.vi
2.0.110	02/2011	<p>Release for CMW firmware version 2.0.11.xx</p> <p>* New VIs:</p> <ul style="list-style-type: none"> - rscmwls Configure RF Signal Routing MIMO Scenario.vi - rscmwls Query RF Signal Routing Settings.vi - rscmwls Configure RF Signal Attenuation MIMO Output.vi - rscmwls Configure RF Signal Nominal Power Uplink.vi - rscmwls Configure UE Measurement Report State.vi - rscmwls Query UE Measurement RSRP.vi - rscmwls Query UE Measurement RSRQ.vi - rscmwls Query UE Measurement Index Range.vi - rscmwls Configure Downlink Power AWGN Level.vi - rscmwls Configure Uplink Power Maximum.vi - rscmwls Configure TX Power Control Single.vi - rscmwls Configure TX Power Control Single Execute.vi - rscmwls Configure TX Power Control Setting Type.vi - rscmwls Configure TX Power Control Target Power.vi - rscmwls Configure Physical Cell Logical Root.vi - rscmwls Query Physical Cell PRACH Configuration.vi - rscmwls Configure Physical Cell Frequency Offset.vi - rscmwls Configure Physical Cell Zero Correlation.vi - rscmwls Configure Integrity Algorithm.vi - rscmwls Configure Out Of Sync Time.vi - rscmwls Configure Connection Filter Coefficient.vi - rscmwls Configure Scheduling Type.vi - rscmwls Query Single Stream Downlink Throughput.vi - rscmwls Query Sum Streams Downlink Throughput.vi - rscmwls Query Uplink Maximum Throughput.vi - rscmwls Configure User Defined Channel Downlink.vi - rscmwls Configure User Defined Channel Uplink.vi - rscmwls Configure Static Channel Model State.vi - rscmwls Configure Static Channel Coefficients.vi - rscmwls Configure RMC Downlink Settings.vi - rscmwls Configure RMC Downlink Resource Block Position.vi - rscmwls Configure RMC Uplink Settings.vi - rscmwls Configure RMC Uplink Resource Block Position.vi - rscmwls Configure BLER Timeout.vi - rscmwls Fetch BLER Throughput Trace.vi - rscmwls Fetch BLER Single Stream Downlink Throughput Trace.vi - rscmwls Fetch Absolute BLER Results.vi - rscmwls Fetch Relative BLER Results.vi - rscmwls Fetch Single Stream Downlink Absolute BLER Results.vi - rscmwls Fetch Single Stream Downlink Relative BLER Results.vi <p>* Modified VIs:</p> <ul style="list-style-type: none"> - rscmwls Configure RF Signal Routing.vi - rscmwls Query Signaling State.vi - rscmwls Configure Downlink Power PDSCH.vi - rscmwls Configure Extended BLER.vi - rscmwls Fetch Extended BLER Results.vi <p>* Obsolete VIs/attributes</p>

rscmwls driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		- rscmwls Configure RMC Settings.vi - use new rscmwls Configure RMC... VIs instead
1.0.152	06/2010	Release for CMW firmware version 1.0.15.20 Initial revision

17 RScmwLNM - LTE eNodeB Measurement (3.5.900)

rscmwlnm driver for LTE Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.5.900	11/2016	<ul style="list-style-type: none"> * New functions: - rscmwlnm Configure Analyzer Two RF In Scenario.vi - rscmwlnm Configure Multi Evaluation Measurement Input.vi - rscmwlnm Configure Multi Evaluation Measurement MIMO.vi - rscmwlnm Configure Multi Evaluation Measurement TX Antenna.vi - rscmwlnm Configure Multi Evaluation Measurement Power.vi - rscmwlnm Configure Multi Evaluation Measurement PDSCH rhoA.vi - rscmwlnm Configure Multi Evaluation Measurement Timing Alignment.vi - rscmwlnm Configure Multi Evaluation Limits QPSK Time Alignment.vi - rscmwlnm Configure Multi Evaluation Limits Power.vi - rscmwlnm Read Multi Evaluation Additional RF Input.vi - rscmwlnm Fetch Multi Evaluation Additional RF Input.vi - rscmwlnm Query Multi Evaluation Additional RF Input Limit Check Results.vi - Results Power - rscmwlnm Clear Status.vi - rscmwlnm ID Query Response.vi - rscmwlnm Process All Previous Commands.vi - rscmwlnm Query OPC.vi - rscmwlnm Bin Data From File To Instrument.vi - rscmwlnm Bin Data To File From Instrument.vi * Updated: - Instance range is 1 to 16
3.2.100	09/2013	* Initial release

18 RScmwinM - NB-IoT Measurement (3.8.200)

rscmwinm driver for NB-IoT Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.8.200	01/2021	<ul style="list-style-type: none"> * Update for firmware version 3.8.20 * New core 6.72.0 * New: <ul style="list-style-type: none"> - rscmwinm Configure Multi Eval Measurement OBW Mode.vi - rscmwinm Configure Multi Eval Measurement User Defined Uplink.vi * Updated: <ul style="list-style-type: none"> - rscmwinm Configure Multi Eval Measurement Parameters.vi - mod scheme - rscmwinm Configure Multi Eval Measurement List Modulation.vi - mod scheme
3.7.400	05/2019	<ul style="list-style-type: none"> * Support for firmware 3.7.40 * Modified: <ul style="list-style-type: none"> rscmwinm Query Analyzer Routing Settings.vi * New: <ul style="list-style-type: none"> rscmwinm Configure Multi Eval Measurement NPUSCh Leading.vi rscmwinm Configure Multi Eval Measurement NPUSCh Lagging.vi rscmwinm Configure Multi Eval Measurement Freq Sync Range.vi rscmwinm Configure Analyzer Scenario.vi rscmwinm Fetch Multi Eval List ACLR.vi rscmwinm Fetch Multi Eval List Inband Emission.vi rscmwinm Fetch Multi Eval List Inband Emission SC Index.vi rscmwinm Fetch Multi Eval List Modulation.vi rscmwinm Fetch Multi Eval List Modulation Extreme.vi rscmwinm Fetch Multi Eval List Spectrum Emission Mask.vi rscmwinm Fetch Multi Eval List Spectrum Emission Mask Extreme.vi rscmwinm Fetch Multi Eval List Spectrum Emission Mask Margin All.vi rscmwinm Fetch Multi Eval List Spectrum Emission Mask Margin.vi rscmwinm Fetch Multi Eval List Segment Reliability.vi rscmwinm Configure Multi Eval Measurement List Enabled.vi rscmwinm Configure Multi Eval Measurement List Mode.vi rscmwinm Configure Multi Eval Measurement List Offline Mode.vi rscmwinm Configure Multi Eval Measurement List Connector Mode.vi rscmwinm Configure Multi Eval Measurement List CMWS Connector.vi rscmwinm Configure Multi Eval Measurement List Range Of Measured Segments.vi rscmwinm Configure Multi Eval Measurement List ACLR.vi rscmwinm Configure Multi Eval Measurement List Modulation.vi rscmwinm Configure Multi Eval Measurement List Spectrum Emission.vi rscmwinm Configure Multi Eval Measurement List Setup.vi
3.7.100	01/2018	<ul style="list-style-type: none"> * Support for firmware 3.7.10 * Initial release

19 RScmwINS - NB-IoT Signaling (3.8.200)

rscmwins driver for NB-IoT Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.8.200	01/2021	<ul style="list-style-type: none"> * Support for firmware 3.8.20 * New Core 6.72.0 * New: <ul style="list-style-type: none"> - Scheduling Request (Class) - rscmwins Configure RRC Release Cause.vi - rscmwins Query UE Capabilities Early Data Up.vi - rscmwins Query UE Capabilities SR.vi - rscmwins Configure Connection EDT.vi - rscmwins Configure Connection NAC 14 Paging Weight Anchor Enabled.vi - rscmwins Configure Connection NAC 14 Paging Carrier PCCH Weight Enabled.vi * Updated: <ul style="list-style-type: none"> - rscmwins Configure PS Action.vi - rscmwins Configure Connection NAC 14 Paging Carrier PCCH.vi - Paging Weight
3.7.800	10/2020	<ul style="list-style-type: none"> * New Core 6.71.0 * Support for firmware 3.7.80 * New <ul style="list-style-type: none"> - Subsystem UE Measurement Report - Subsystem Coverage Enhancement - Subsystem Wake Up Signal - Subsystem Non Anchor Configuration - Subsystem NPDCCH - Subsystem DRX - rscmwins Query UE Capabilities Paging Wake Up Signal.vi - rscmwins Query UE Capabilities Paging WUS Min Gap.vi - rscmwins Configure Physical Cell Flexible UL DL Separation.vi - rscmwins Configure Physical Cell Inband Uplink Carrier Position.vi - rscmwins Configure Physical Cell Guard Band Uplink Position.vi - rscmwins Configure Connection Destination Server.vi - rscmwins Configure Connection RRC Allow Paging After SI Transmission.vi - rscmwins Configure Connection Interference Randomization.vi - rscmwins Configure Connection Paging Collision Report.vi * Updated <ul style="list-style-type: none"> - rscmwins Configure Connection User UL.vi - added MSC Index 13, Repetitions 8-128 added
3.7.400	06/2019	<ul style="list-style-type: none"> * Support for firmware 3.7.400 * Initial release

20 RScmwWLM - WLAN Measurement (4.0.200)

rscmwWlm driver for WLAN Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
4.0.200	07/2022	<ul style="list-style-type: none"> * Update for firmware version 4.0.20 * New core 7.3.0 * Updated: <ul style="list-style-type: none"> - Configure Multi Eval Measurement DSSS EVM Method.vi - added 'Standard 2016'
3.8.200	02/2021	<ul style="list-style-type: none"> * Update for firmware version 3.8.20 * New core 6.72.0 * Reworked all the VI Front Panels to Silver-style * New: <ul style="list-style-type: none"> - Segment (Class) - EVM vs Subcarriers (Class) - rscmwWlm Configure RF Routing Antenna.vi - rscmwWlm Configure Analyzer Mask Display Mode.vi - rscmwWlm Query Input Signal Possible Scenarios.vi - rscmwWlm Configure Multi Eval Measurement OFDM TE Percentage.vi - rscmwWlm Configure Multi Eval Measurement Sync Mode.vi - rscmwWlm Configure Multi Eval Measurement HE TB PPDU Bandwidth.vi - rscmwWlm Configure Multi Eval Measurement HE TB PPDU MCS.vi - rscmwWlm Configure Multi Eval Measurement Segment Standard.vi - rscmwWlm Configure Multi Eval Measurement Segment Connector.vi - rscmwWlm Configure Multi Eval Measurement Segment Burst Type.vi - rscmwWlm Configure Multi Eval Measurement Segment.vi - rscmwWlm Configure Multi Eval Measurement List Mode Connector.vi - rscmwWlm Configure Multi Eval Measurement List Mode Segment.vi - rscmwWlm Configure Multi Eval Measurement List Mode Burst Types.vi - rscmwWlm Configure Multi Eval Measurement List Mode Bandwidths.vi - rscmwWlm Configure Multi Eval Measurement List Mode Connectors.vi - rscmwWlm Configure Multi Eval Measurement List Mode ENPs.vi - rscmwWlm Configure Multi Eval Measurement List Mode Frequencies.vi - rscmwWlm Configure Multi Eval Measurement List Mode Offsets.vi - rscmwWlm Configure Multi Eval Measurement List Mode Times.vi - rscmwWlm Configure Multi Eval Measurement List Mode Standards.vi - rscmwWlm Configure Multi Eval Measurement List Mode Segment Times.vi - rscmwWlm Configure Multi Eval Measurement List Mode Segment Enabled.vi - rscmwWlm Configure Multi Eval Measurement List Mode Segment Retriggers.vi - rscmwWlm Configure Multi Eval Measurement List Mode Segment Stat Count.vi - rscmwWlm Configure Multi Eval Measurement List Mode Results.vi - rscmwWlm Configure Multi Eval Measurement List Mode Retriggers.vi - rscmwWlm Configure Multi Eval Measurement List Mode Stat Counts SEM.vi - rscmwWlm Read Multi Eval OFDM Trace CFO Errors.vi - rscmwWlm Fetch Multi Eval OFDM Trace CFO Errors.vi - rscmwWlm Read Multi Eval OFDM CFO.vi - rscmwWlm Fetch Multi Eval OFDM CFO.vi - rscmwWlm Query Multi Eval OFDM CFO Limit Check Result.vi - rscmwWlm Read Multi Eval OFDM TE.vi - rscmwWlm Fetch Multi Eval OFDM TE.vi

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Query Multi Eval OFDM TE Limit Check Result.vi - rscmwWLM Fetch Multi Eval OFDM Common Information.vi - rscmwWLM Read Multi Eval PVT Ramp Trace MIMO Segment Time.vi - rscmwWLM Fetch Multi Eval PVT Ramp Trace MIMO Segment Time.vi - rscmwWLM Read Multi Eval PVT Ramp Trace MIMO Time.vi - rscmwWLM Fetch Multi Eval PVT Ramp Trace MIMO Time.vi - rscmwWLM Read Multi Eval PVT Ramp Trace Segment Time.vi - rscmwWLM Fetch Multi Eval PVT Ramp Trace Segment Time.vi - rscmwWLM Read Multi Eval PVT Ramp Trace Time.vi - rscmwWLM Fetch Multi Eval PVT Ramp Trace Time.vi - rscmwWLM Read Multi Eval PVT Ramp MIMO Segment Time.vi - rscmwWLM Fetch Multi Eval PVT Ramp MIMO Segment Time.vi - rscmwWLM Read Multi Eval Trace Timing Error.vi - rscmwWLM Fetch Multi Eval Trace Timing Error.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Burst Power.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Crest Factor.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Center Frequency Error.vi - rscmwWLM Fetch Multi Eval List Mode OFDM DC Power.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Data Portion Power.vi - rscmwWLM Fetch Multi Eval List Mode OFDM EVM Data.vi - rscmwWLM Fetch Multi Eval List Mode OFDM EVM Pilot.vi - rscmwWLM Fetch Multi Eval List Mode OFDM EVM All.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Gain Imbalance.vi - rscmwWLM Fetch Multi Eval List Mode OFDM IQ Offset.vi - rscmwWLM Fetch Multi Eval List Mode OFDM LTF Power.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Quadrature Error.vi - rscmwWLM Fetch Multi Eval List Mode OFDM Symbol Clock Error.vi - rscmwWLM Fetch Multi Eval List Mode DSSS Burst Power.vi - rscmwWLM Fetch Multi Eval List Mode DSSS Chip Clock Error.vi - rscmwWLM Fetch Multi Eval List Mode DSSS Center Frequency Error.vi - rscmwWLM Fetch Multi Eval List Mode DSSS EVM Peak.vi - rscmwWLM Fetch Multi Eval List Mode DSSS EVM RMS.vi - rscmwWLM Fetch Multi Eval List Mode DSSS Gain Imbalance.vi - rscmwWLM Fetch Multi Eval List Mode DSSS IQ Offset.vi - rscmwWLM Fetch Multi Eval List Mode DSSS Quadrature Error.vi - rscmwWLM Fetch Multi Eval List Mode Power Backoff.vi - rscmwWLM Fetch Multi Eval List Mode Peak Power.vi - rscmwWLM Fetch Multi Eval List Mode Expired Statistic Counts.vi - rscmwWLM Fetch Multi Eval List Mode Segments Reliability.vi - rscmwWLM Fetch Multi Eval List Mode TS Mask Expired Statistic Counts.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwWLM Configure Multi Eval Measurement Statistics Count.vi - range - rscmwWLM Read Multi Eval OFDM MIMO Values.vi - Array Size, Results - rscmwWLM Fetch Multi Eval OFDM MIMO Values.vi - Array Size, Results - rscmwWLM Query Multi Eval OFDM MIMO Limit Check Results.vi - Array Size, Results - rscmwWLM Read Multi Eval OFDM MIMO Standard Deviation.vi - Array Size, Results - rscmwWLM Fetch Multi Eval OFDM MIMO Standard Deviation.vi - Array Size, Results - rscmwWLM Read Multi Eval OFDM MIMO Segments 80 Plus 80 Values.vi - Array Size, Results - rscmwWLM Fetch Multi Eval OFDM MIMO Segments 80 Plus 80 Values.vi - Array Size, Results - rscmwWLM Query Multi Eval OFDM MIMO Segments 80 Plus 80 Limit Check Results.vi - Array, Results - rscmwWLM Fetch Multi Eval OFDM MIMO Segments 80 Plus 80 Standard Deviation.vi - Array, Results

rscmwlm driver for WLAN Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Read Multi Eval OFDM MIMO Segments 80 Plus 80 Standard Deviation.vi - Array, Results - rscmwlm Read Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Trace.vi - help - rscmwlm Read Multi Eval OFDM SISO Values.vi - Array Size, Results - rscmwlm Fetch Multi Eval OFDM SISO Values.vi - Array Size, Results - rscmwlm Query Multi Eval OFDM SISO Limit Check Results.vi - Array Size, Results - rscmwlm Read Multi Eval OFDM SISO Standard Deviation.vi - Array Size, Results - rscmwlm Fetch Multi Eval OFDM SISO Standard Deviation.vi - Array Size, Results - rscmwlm Query Multi Eval OFDM SISO Standard Deviation Limit Check Results.vi - Array, Results - rscmwlm Read Multi Eval OFDM Segments 80 Plus 80 Values.vi - Array Size, Results - rscmwlm Fetch Multi Eval OFDM Segments 80 Plus 80 Values.vi - Array Size, Results - rscmwlm Query Multi Eval OFDM Segments 80 Plus 80 Limit Check Results.vi - Array Size, Results - rscmwlm Read Multi Eval OFDM Segments 80 Plus 80 Standard Deviation.vi - Array Size, Results - rscmwlm Fetch Multi Eval OFDM Segments 80 Plus 80 Standard Deviation.vi - Array Size, Results - rscmwlm Query Multi Eval OFDM Segments 80 80 Standard Deviation Limit Check Results.vi - Array Size, Results - rscmwlm Configure Training Data TX Antenna Number.vi - Number of Antennas range changed
3.7.400	07/2019	<ul style="list-style-type: none"> * Update for firmware version 3.7.40 * New: <ul style="list-style-type: none"> - OFDM 802.11ax (Class) - Unused Tone Error (Class) - Signal Fields Info (Class) - EVM vs Symbol Traces (Class) - Configure Analyzer Switched MIMO Scenario.vi - Query Signal Routing Switched MIMO Settings.vi - Query Signal Routing Switched MIMO Scenario.vi - Configure Number Of Paths TMIMO Scenario.vi - Configure Number Of MIMO Antennas.vi - Configure Analyzer Display Mode.vi - Query Multi Eval Measurement Trigger Source Catalog Enhanced.vi - Configure Multi Eval Limits OFDM 802.11ax Error Vector Magnitude.vi - Configure Multi Eval Limits OFDM 802.11ax Error Vector Magnitude TB Code Rate.vi - Configure Multi Eval Limits OFDM 802.11ax Error Vector Magnitude TB High.vi - Configure Multi Eval Limits OFDM 802.11ax Error Vector Magnitude TB Low.vi - Configure Multi Eval Limits OFDM 802.11ax EVM Pilot.vi - Configure Multi Eval Limits OFDM 802.11ax EVM Pilot TB High.vi - Configure Multi Eval Limits OFDM 802.11ax EVM Pilot TB Low.vi - Configure Multi Eval Limits OFDM 802.11ax IQ Offset.vi - Configure Multi Eval Limits OFDM 802.11ax Center Frequency Error.vi - Configure Multi Eval Limits OFDM 802.11ax Symbol Clock Error.vi - Configure Multi Eval Limits OFDM 802.11ax UTE Power.vi - Configure Multi Eval Limits OFDM 802.11ax UTE Limit.vi - Query OFDMA Information.vi - Fetch OFDMA User Information.vi - Read Multi Eval OFDM MIMO Spectrum Flatness Values.vi - Fetch Multi Eval OFDM MIMO Spectrum Flatness Values.vi - Read Multi Eval OFDM MIMO Spectrum Flatness Margin Positions Values.vi - Fetch Multi Eval OFDM MIMO Spectrum Flatness Margin Positions Values.vi - Query Multi Eval OFDM MIMO Spectrum Flatness Limit Check Results.vi - Read Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Trace.vi - Fetch Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Trace.vi - Query Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Limit Check Results.vi - Read Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Segment Trace.vi

rscmwWLM driver for WLAN Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> - Fetch Multi Eval OFDM MIMO Spectrum Flatness Rx Antenna Segment Trace.vi - Query Multi Eval OFDM MIMO SFL Rx Antenna Segment Limit Check Results.vi - Read Multi Eval OFDM CMIMO Power STS.vi - Fetch Multi Eval OFDM CMIMO Power STS.vi - Fetch Multi Eval OFDM SISO EVM Values.vi - Fetch Multi Eval OFDM SISO EVM User Values.vi - Fetch Multi Eval OFDM SISO EVM User Stream Values.vi - Read Multi Eval OFDM SISO Spectrum Flatness Segment Trace Enhanced.vi - Fetch Multi Eval OFDM SISO Spectrum Flatness Segment Trace Enhanced.vi - Query Multi Eval OFDM SISO Spectrum Flatness Segment Limit Check Results.vi - Read Multi Eval PVT Ramp Trace Time.vi - Fetch Multi Eval PVT Ramp Trace Time.vi - Read Multi Eval PVT Ramp Trace MIMO Results.vi - Fetch Multi Eval PVT Ramp Trace MIMO Results.vi - Read Multi Eval PVT Ramp Trace MIMO Enhanced.vi - Fetch Multi Eval PVT Ramp Trace MIMO Enhanced.vi - Read Multi Eval PVT Ramp Trace MIMO Time.vi - Fetch Multi Eval PVT Ramp Trace MIMO Time.vi - Read Multi Eval PVT Ramp Trace MIMO Segment Enhanced.vi - Fetch Multi Eval PVT Ramp Trace MIMO Segment Enhanced.vi - Read Multi Eval PVT Ramp Trace Segment Results.vi - Fetch Multi Eval PVT Ramp Trace Segment Results.vi - Read Multi Eval PVT Ramp Trace Segment Enhanced.vi - Fetch Multi Eval PVT Ramp Trace Segment Enhanced.vi - Read Multi Eval PVT Ramp Trace Segment Time.vi - Fetch Multi Eval PVT Ramp Trace Segment Time.vi - Read Multi Eval PVT Ramp Trace Segment MIMO Results.vi - Fetch Multi Eval PVT Ramp Trace Segment MIMO Results.vi - Fetch Multi Eval PVRU Results.vi - Fetch Multi Eval PVRU RX Antenna Results.vi - Fetch Multi Eval Power RX Antenna Results.vi - Read Multi Eval UTER Trace.vi - Fetch Multi Eval UTER Trace.vi - Read Multi Eval UTER Limits.vi - Fetch Multi Eval UTER Limits.vi - Query Multi Eval UTER Limit Check Results.vi - Query Multi Eval UTER Trace Limit Check Results.vi - Read Multi Eval UTER Margin Values.vi - Fetch Multi Eval UTER Margin Values.vi - Query Multi Eval UTER Margin Limit Check Results.vi - Fetch Multi Eval Signal Fields Info Channel Field MIMO.vi - Fetch Multi Eval Signal Fields Info User Field MIMO.vi - Fetch Multi Eval Signal Fields Info HEMU MIMO.vi - Fetch Multi Eval Signal Fields Info HESU MIMO.vi - Fetch Multi Eval Signal Fields Info HETB MIMO.vi - Fetch Multi Eval Signal Fields Info HT-SIG MIMO.vi - Fetch Multi Eval Signal Fields Info Legacy Signal MIMO.vi - Fetch Multi Eval Signal Fields Info Very High Throughput Signal.vi - Read Multi Eval EVM vs Symbol Trace.vi - Fetch Multi Eval EVM vs Symbol Trace.vi <p>* Updated:</p>

rscmwWLM driver for WLAN Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> - Configure Input Signal Modulation Filter Bursts.vi - QAM256,1024 - Configure Multi Eval Measurement Assign Views.vi - Unused Tone Error - Configure Multi Eval Measurement Assign Views All.vi - add Unused tone err - Configure Multi Eval Limits OFDM Center Frequency Error.vi - limit - Configure Multi Eval Limits OFDM Symbol Clock Error.vi - Limit - Configure Multi Eval Limits OFDM 802.11p Center Frequency Error.vi - Limit - Configure Multi Eval Limits OFDM 802.11p Symbol Clock Error.vi - Limit - Configure Multi Eval Limits DSSS Center Frequency Error.vi - limit - Configure Multi Eval Limits DSSS Symbol Clock Error.vi - limit from 25 na 100 - Configure Multi Eval Limits OFDM 802.11n IQ Offset.vi - BW 5.10 - Configure Multi Eval Limits OFDM 802.11n Center Frequency Error.vi - limit - Configure Multi Eval Limits OFDM 802.11n Symbol Clock Error.vi - limit - Configure Multi Eval Limits OFDM 802.11ac IQ Offset.vi - BW 5.10 - Configure Multi Eval Limits OFDM 802.11ac Center Frequency Error.vi - limit - Configure Multi Eval Limits OFDM 802.11ac Symbol Clock Error.vi - Limit - Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11n.vi - BW - Configure Multi Eval Limits Transmit Spectrum Mask Band OFDM 802.11n.vi - BW - Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11ac Enhanced.vi - BW - Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11ac Enhanced.vi - BW - Read Multi Eval OFDM MIMO Values.vi - modulation scheme - Fetch Multi Eval OFDM MIMO Values.vi - modulation scheme - Read Multi Eval OFDM MIMO Standard Deviation.vi - modulation scheme - Fetch Multi Eval OFDM MIMO Standard Deviation.vi - modulation scheme - Read Multi Eval OFDM SISO Values.vi - modulation scheme - Fetch Multi Eval OFDM SISO Values.vi - modulation scheme - Read Multi Eval OFDM SISO Standard Deviation.vi - modulation scheme - Fetch Multi Eval OFDM SISO Standard Deviation.vi - modulation scheme <p>* Deleted:</p> <ul style="list-style-type: none"> - Configure Analyzer MIMO Scenario.vi - Configure Number Of Switched MIMO Antennas.vi - Read Multi Eval OFDM EVM vs Symbol Trace.vi - Fetch Multi Eval OFDM EVM vs Symbol Trace.vi - Read Multi Eval OFDM EVM vs Symbol Trace Enhanced.vi - Fetch Multi Eval OFDM EVM vs Symbol Trace Enhanced.vi - Read Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - Read Multi Eval OFDM 802.11n EVM vs Symbol Trace Enhanced.vi - Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace Enhanced.vi - Read Multi Eval OFDM 802.11ac EVM vs Symbol Trace.vi - Fetch Multi Eval OFDM 802.11ac EVM vs Symbol Trace.vi - Read Multi Eval OFDM 802.11ac EVM vs Symbol Trace Enhanced.vi - Fetch Multi Eval OFDM 802.11ac EVM vs Symbol Trace Enhanced.vi - Read Multi Eval OFDM 802.11ac Spectrum Flatness Trace.vi - Fetch Multi Eval OFDM 802.11ac Spectrum Flatness Trace.vi - Read Multi Eval OFDM 802.11ac Spectrum Flatness Trace Enhanced.vi - Fetch Multi Eval OFDM 802.11ac Spectrum Flatness Trace Enhanced.vi - Read Multi Eval Limits Transmit Spectrum Mask OFDM CMIMO.vi - Fetch Multi Eval Limits Transmit Spectrum Mask OFDM CMIMO.vi - Read Multi Eval OFDM CMIMO Standard Deviation.vi - Fetch Multi Eval OFDM CMIMO Standard Deviation.vi

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
3.7.100	03/2018	<p>* Update for firmware version 3.7.10</p> <p>* New</p> <ul style="list-style-type: none"> - rscmwWLM Read Multi Eval PVT Timing Error Results.vi - rscmwWLM Query Multi Eval PVT Timing Error Limit Check Results.vi - rscmwWLM Fetch Multi Eval PVT Timing Error Results.vi - rscmwWLM Configure Multi Eval PVT Timing Error Upper Limit.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11ax.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask Band OFDM 802.11n.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11n.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11ax.vi <p>* Updated</p> <ul style="list-style-type: none"> - rscmwWLM Initialize.vi, rscmwWLM Initialize with Options.vi, rscmwWLM Close.vi and Utility VIs have new VI icons - rscmwWLM Configure Input Signal.vi - added 802.11ax Standard - rscmwWLM Configure Input Signal Power Class.vi - added User Defined Power Class - rscmwWLM Configure Multi Eval Measurement Trigger.vi - Threshold default value changed - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Spectrum Flatness.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11ac Enhanced.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11ac Enhanced.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Transmit Spectrum Mask State.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Absolute Emission Limits.vi - SCPI commands updated - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Spectral Density Limits.vi - added User Defined Power Class, SCPI commands updated - rscmwWLM Read Multi Eval OFDM Values.vi - added values to Guard Interval parameter - rscmwWLM Fetch Multi Eval OFDM Values.vi - added values to Guard Interval parameter - rscmwWLM Read Multi Eval OFDM Standard Deviation.vi - added values to Guard Interval parameter - rscmwWLM Fetch Multi Eval OFDM Standard Deviation.vi - added values to Guard Interval parameter - rscmwWLM Read Multi Eval OFDM MIMO Values.vi - added values to Modulation Scheme parameter - rscmwWLM Fetch Multi Eval OFDM MIMO Values.vi - added values to Modulation Scheme parameter - rscmwWLM Read Multi Eval OFDM MIMO Standard Deviation.vi - added values to Modulation Scheme parameter - rscmwWLM Fetch Multi Eval OFDM MIMO Standard Deviation.vi - added values to Modulation Scheme parameter - rscmwWLM Read Multi Eval OFDM SISO Values.vi - added values to Guard Interval, Modulation Scheme parameters - rscmwWLM Fetch Multi Eval OFDM SISO Values.vi - added values to Guard Interval, Modulation Scheme parameters - rscmwWLM Read Multi Eval OFDM SISO Standard Deviation.vi - added values to Guard Interval, Modulation Scheme parameters - rscmwWLM Fetch Multi Eval OFDM SISO Standard Deviation.vi - added values to Guard Interval, Modulation Scheme parameters - rscmwWLM Fetch Multi Eval List Mode OFDM All Segments Values.vi - added values to Guard Interval parameter

rscmwWLM driver for WLAN Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Fetch Multi Eval List Mode OFDM All Segments Standard Deviation.vi - added values to Guard Interval parameter - rscmwWLM Fetch Multi Eval List Mode OFDM One Segment Values.vi - added values to Guard Interval parameter - rscmwWLM Fetch Multi Eval List Mode OFDM One Segment Standard Deviation.vi - added values to Guard Interval parameter
3.5.1300	02/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6 that uses only synchronous VISA Write/Read, has more detailed error reporting and supports Simulation mode and Logging * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * All VISA resource name inputs are mandatory * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams <p>* Breaking changes:</p> <ul style="list-style-type: none"> - rscmwWLM Configure Multi Eval Limits OFDM 80211 N IQ Offset.vi - API changed, SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 AC IQ Offset.vi - API changed, SCPI command changed <p>* New</p> <ul style="list-style-type: none"> - rscmwWLM Configure Use Separate Antennas For 80 Plus 80MHz.vi - rscmwWLM Configure RF Routing Antenna Connector.vi - rscmwWLM Configure RF Routing External Attenuation.vi - rscmwWLM Configure Input Signal Channel Distance.vi - rscmwWLM Configure Input Signal Evaluation Length.vi - rscmwWLM Configure Multi Eval Meas DSSS EVM Method.vi - rscmwWLM Read Multi Eval OFDM MIMO Values.vi - rscmwWLM Fetch Multi Eval OFDM MIMO Values.vi - rscmwWLM Query Multi Eval OFDM MIMO Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM MIMO Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM MIMO Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM MIMO Standard Deviation Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM MIMO Segments 80 Plus 80 Values.vi - rscmwWLM Fetch Multi Eval OFDM MIMO Segments 80 Plus 80 Values.vi - rscmwWLM Query Multi Eval OFDM MIMO Segments 80 Plus 80 Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM MIMO Segments 80 Plus 80 Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM MIMO Segments 80 Plus 80 Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM MIMO Segments 80 Plus 80 Standard Deviation Limit Check Result.vi - rscmwWLM Read Multi Eval Meas OFDM SISO Values.vi - rscmwWLM Fetch Multi Eval Meas OFDM SISO Values.vi - rscmwWLM Query Multi Eval Meas OFDM SISO Limit Check Results.vi - rscmwWLM Read Multi Eval Meas OFDM SISO Standard Deviation.vi - rscmwWLM Fetch Multi Eval Meas OFDM SISO Standard Deviation.vi - rscmwWLM Query Multi Eval Meas OFDM SISO Standard Deviation Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM Segments 80 Plus 80 Values.vi - rscmwWLM Fetch Multi Eval OFDM Segments 80 Plus 80 Values.vi - rscmwWLM Query Multi Eval OFDM Segments 80 Plus 80 Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM Segments 80 Plus 80 Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM Segments 80 Plus 80 Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM Segments 80 Plus 80 Standard Deviation Limit Check Results.vi - rscmwWLM Read Multi Eval Meas Transmit Spectrum Mask Trace Segment.vi - rscmwWLM Fetch Multi Eval Meas Transmit Spectrum Mask Trace Segment.vi

rscmwWlm driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask Trace MIMO.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask Trace MIMO.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask Trace MIMO Segment.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask Trace MIMO Segment.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask Trace Mask Segment.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask Trace Mask Segment.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask Trace Mask MIMO.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask Trace Mask MIMO.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask Trace Mask MIMO Segment.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask Trace Mask MIMO Segment.vi - rscmwWlm Read Multi Eval Transmit Spectrum Mask Occupied Bandwidth Segment Results.vi - rscmwWlm Fetch Multi Eval Transmit Spectrum Mask Occupied Bandwidth Segment Results.vi - rscmwWlm Read Multi Eval Transmit Spectrum Mask Occupied Bandwidth MIMO Results.vi - rscmwWlm Fetch Multi Eval Transmit Spectrum Mask Occupied Bandwidth MIMO Results.vi - rscmwWlm Read Multi Eval Transmit Spectrum Mask Occupied Bandwidth MIMO Segment Results.vi - rscmwWlm Fetch Multi Eval Transmit Spectrum Mask Occupied Bandwidth MIMO Segment Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO X Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask SISO X Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO X Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Segments X Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask SISO Segments X Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Segments X Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO X Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask MIMO X Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO X Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Segments X Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask MIMO Segments X Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Segments X Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Y Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask SISO Y Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Y Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Segments Y Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask SISO Segments Y Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask SISO Segments Y Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Y Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask MIMO Y Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Y Limit Check Results.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Segments Y Values.vi - rscmwWlm Fetch Multi Eval Meas Transmit Spectrum Mask MIMO Segments Y Values.vi - rscmwWlm Read Multi Eval Meas Transmit Spectrum Mask MIMO Segments Y Limit Check Results.vi <p>* Updated</p> <ul style="list-style-type: none"> - rscmwWlm Configure Analyzer MIMO Scenario.vi - new values in 'MIMO' and 'Connector Tuple' parameters - rscmwWlm Query Signal Routing Settings.vi - new value in 'Scenario' parameter - rscmwWlm Configure Multi Eval Limits OFDM EVM.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM EVM Pilot.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM IQ Offset.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM Center Frequency Error.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM Symbol Clock Error.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM 80211 N EVM.vi - SCPI command changed - rscmwWlm Configure Multi Eval Limits OFDM 80211 N EVM Pilot.vi - SCPI command changed

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Configure Multi Eval Limits OFDM 80211 N Center Frequency Error.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 N Symbol Clock Error.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 AC EVM.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 AC EVM Pilot.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 AC Center Frequency Error.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits OFDM 80211 AC Symbol Clock Error.vi - SCPI command changed - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 80211 AC Enhanced.vi - new value in 'Bandwidth' parameter - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 80211 AC Enhanced.vi - new value in 'Bandwidth' parameter - rscmwWLM Read Multi Eval Meas OFDM EVM Carrier Trace.vi - new value in 'Result Type' parameter, SCPI command changed - rscmwWLM Fetch Multi Eval Meas OFDM EVM Carrier Trace.vi - new value in 'Result Type' parameter, SCPI command changed - rscmwWLM Read Multi Eval Meas OFDM EVM Carrier Trace Enhanced.vi - new value in 'Result Type' parameter, SCPI command changed - rscmwWLM Fetch Multi Eval Meas OFDM EVM Carrier Trace Enhanced.vi - new value in 'Result Type' parameter, SCPI command changed - rscmwWLM Read Multi Eval Meas DSSS Values.vi - new value in 'Result Type' parameter - rscmwWLM Fetch Multi Eval Meas DSSS Values.vi - new value in 'Result Type' parameter - rscmwWLM Query Multi Eval Meas DSSS Limit Check Results.vi - new value in 'Result Type' parameter - rscmwWLM Read Multi Eval Meas Transmit Spectrum Mask Trace.vi - new value in 'Result Type' parameter - rscmwWLM Fetch Multi Eval Meas Transmit Spectrum Mask Trace.vi - new value in 'Result Type' parameter - rscmwWLM Read Multi Eval Meas Transmit Spectrum Mask Trace Enhanced.vi - new value in 'Result Type' parameter - rscmwWLM Fetch Multi Eval Meas Transmit Spectrum Mask Trace Enhanced.vi - new value in 'Result Type' parameter
3.5.400	10/2016	<ul style="list-style-type: none"> * Breaking changes: <ul style="list-style-type: none"> - rscmwWLM Configure Analyzer MIMO Scenario.vi * New <ul style="list-style-type: none"> - rscmwWLM Configure Input Signal Receive Mode.vi - rscmwWLM Configure Multi Eval Measurement DSSS Tx Filter Estimation.vi - rscmwWLM Configure Multi Eval Measurement Skip OFDM Symbols.vi - _rscmwWLM Clear Before Read.vi - rscmwWLM Query Multi Eval Measurement List Mode Burst.vi - rscmwWLM Read To File From Instrument.vi * Updated: <ul style="list-style-type: none"> - rscmwWLM Configure Analyzer Stand Alone Scenario.vi - new connectors - rscmwWLM Query Signal Routing Settings.vi - new connectors - rscmwWLM Configure Input Signal.vi - rscmwWLM Configure Multi Eval Measurement Trigger.vi - rscmwWLM Configure Multi Eval Measurement List Mode Burst.vi - rscmwWLM Query Multi Eval Measurement List Mode Burst.vi - rscmwWLM Read Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval OFDM Transmit Spectrum Mask Limit Check Results.vi

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Read Multi Eval OFDM 802.11ac Values.vi - rscmwWLM Fetch Multi Eval OFDM 802.11ac Values.vi - rscmwWLM Query Multi Eval OFDM 802.11ac Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM 802.11ac Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM 802.11ac Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM 802.11ac Standard Deviation Limit Check Results.vi - rscmwWLM Configure Multi Eval Measurement Assign Views.vi - rscmwWLM Configure Multi Eval PVT DSSS Limits.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11n.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask 40 MHz.vi - _rscmwWLM Get All DSSS Seg Meas Results.vi - _rscmwWLM Get All Seg Meas Results.vi - _rscmwWLM Get Catalog.vi - _rscmwWLM Get Data Acquisition Result.vi - _rscmwWLM Get DSSS Meas Limit Check.vi - _rscmwWLM Get DSSS Results.vi - _rscmwWLM Get DSSS Segment Results All.vi - _rscmwWLM Get DSSS Segment Results.vi - _rscmwWLM Get Meas Limit Check.vi - _rscmwWLM Get OFDM AC Meas Limit Check.vi - _rscmwWLM Get OFDM AC Results.vi - _rscmwWLM Get OFDM Meas Limit Check.vi - _rscmwWLM Get OFDM Results.vi - _rscmwWLM Get OFDM Segment Results All.vi - _rscmwWLM Get OFDM Segment Results.vi - _rscmwWLM Get Results.vi
3.5.202	06/2016	<ul style="list-style-type: none"> * New - rscmwWLM Clear Status.vi - rscmwWLM ID Query Response.vi - rscmwWLM Process All Previous Commands.vi - rscmwWLM Query OPC.vi * Updated - rscmwWLM Read Multi Eval OFDM Values.vi - reading out value fixed - rscmwWLM Fetch Multi Eval OFDM Values.vi - reading out value fixed - rscmwWLM Query Multi Eval OFDM Limit Check Results.vi - reading out value fixed - rscmwWLM Read Multi Eval OFDM Standard Deviation.vi - reading out value fixed - rscmwWLM Fetch Multi Eval OFDM Standard Deviation.vi - reading out value fixed - rscmwWLM Query Multi Eval OFDM Standard Deviation Limit Check Results.vi - reading out value fixed - rscmwWLM Read Multi Eval OFDM 802.11ac Values.vi - reading out value fixed - rscmwWLM Fetch Multi Eval OFDM 802.11ac Values.vi - reading out value fixed - rscmwWLM Read Multi Eval OFDM 802.11ac Standard Deviation.vi - reading out value fixed - rscmwWLM Fetch Multi Eval OFDM 802.11ac Standard Deviation.vi - reading out value fixed - rscmwWLM Query Multi Eval OFDM 802.11ac Limit Check Results.vi - reading out value fixed - rscmwWLM Query Multi Eval OFDM 802.11ac Standard Deviation Limit Check Results.vi - reading out value fixed - rscmwWLM Error Query.vi - reads out all errors - rscmwWLM Read To File From Instrument.vi - Source data type changed to String - rscmwWLM Write From File To Instrument.vi - Destination data type changed to String
3.5.200	11/2015	<ul style="list-style-type: none"> * New - rscmwWLM Configure Analyzer MIMO Scenario.vi - rscmwWLM Read MEval Meas Transmit Spectrum Mask Trace Frequency.vi

rscmwWLM driver for WLAN Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Fetch MEval Meas Transmit Spectrum Mask Trace Frequency.vi - rscmwWLM Read MEval Meas Transmit Spectrum Mask Trace Mask.vi - rscmwWLM Fetch MEval Meas Transmit Spectrum Mask Trace Mask.vi * Updated - rscmwWLM Configure MEval Limits OFDM80211 AC EVM.vi - rscmwWLM Configure Multi Eval Measurement Assign Views All.vi - fixed swapped inputs
3.5.100	04/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.10.xx * Updated: - rscmwWLM Configure Input Signal Bandwidth.vi - rscmwWLM Configure Input Signal Frequency Band.vi - rscmwWLM Configure Multi Eval Measurement Modulation Tracking.vi - rscmwWLM Configure Multi Eval Measurement Assign Views.vi - rscmwWLM Configure Multi Eval Measurement PVT.vi - rscmwWLM Configure Multi Eval Measurement Trigger.vi - rscmwWLM Configure Multi Eval PVT DSSS Limits.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask DSSS.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness Enable OFDM 802.11n.vi - rscmwWLM Configure Multi Eval Upper Limits Transmit Spectrum Flatness OFDM 802.11n.vi - rscmwWLM Read Multi Eval OFDM Values.vi - rscmwWLM Fetch Multi Eval OFDM Values.vi - rscmwWLM Query Multi Eval OFDM Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM Standard Deviation Limit Check Results.vi - rscmwWLM Read Multi Eval DSSS Values.vi - rscmwWLM Fetch Multi Eval DSSS Values.vi - rscmwWLM Query Multi Eval DSSS Limit Check Results.vi - rscmwWLM Read Multi Eval DSSS Standard Deviation.vi - rscmwWLM Fetch Multi Eval DSSS Standard Deviation.vi - rscmwWLM Query Multi Eval DSSS Standard Deviation Limit Check Results.vi - rscmwWLM Configure Training Data TX Antenna Number.vi * New: - rscmwWLM Configure Input Signal Modulation Filter Bursts.vi - rscmwWLM Query Multi Eval PVT DSSS Limit Check Results.vi
3.2.700	11/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.70 * Express VI version 2.5.0 * Updated: - rscmwWLM Configure Input Signal Frequency Channel.vi - Channel max increased
3.2.600	06/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.60 * New features - OFDM 802.11p (Modulation, Transmit Spectrum Mask) - Trace Sub-Arrays, optional parameters added. * New - rscmwWLM Configure InputSignalQSwapState.vi - rscmwWLM Configure InputSignalPowerClass.vi - rscmwWLM Configure Multi Eval Measurement Mask Spectrum Selection.vi - rscmwWLM Configure Multi Eval Measurement Occupied Bandwidth.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Center Frequency Error.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Error Vector Magnitude.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p EVM Pilot.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p IQ Offset.vi

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Symbol Clock Error.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Spectrum Flatness.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11n Enhanced.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask 40MHz Enhanced.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11ac Enhanced.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM 802.11ac Enhanced.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Transmit Spectrum Mask State.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Absolute Emission Limits.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11p Spectral Density Limits.vi - rscmwWLM Read Multi Eval OFDM EVM vs Symbol Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM EVM vs Symbol Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM EVM vs Carrier Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM EVM vs Carrier Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM Spectrum Flatness Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM Spectrum Flatness Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM 802.11n EVM vs Symbol Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM 802.11n EVM vs Carrier Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM 802.11n EVM vs Carrier Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM 802.11ac EVM vs Symbol Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM 802.11ac EVM vs Symbol Trace Enhanced.vi - rscmwWLM Read Multi Eval OFDM 802.11ac Spectrum Flatness Trace Enhanced.vi - rscmwWLM Fetch Multi Eval OFDM 802.11ac Spectrum Flatness Trace Enhanced.vi - rscmwWLM Read Multi Eval DSSS EVM Trace Enhanced.vi - rscmwWLM Fetch Multi Eval DSSS EVM Trace Enhanced.vi - rscmwWLM Read Multi Eval PVT Burst Trace Results.vi - rscmwWLM Fetch Multi Eval PVT Burst Trace Results.vi - rscmwWLM Read Multi Eval PVT Ramp Trace Results Enhanced.vi - rscmwWLM Fetch Multi Eval PVT Ramp Trace Results Enhanced.vi - rscmwWLM Read Multi Eval Transmit Spectrum Mask Trace Enhanced.vi - rscmwWLM Fetch Multi Eval Transmit Spectrum Mask Trace Enhanced.vi - rscmwWLM Read Multi Eval Transmit Spectrum Mask Occupied Bandwidth Results.vi - rscmwWLM Fetch Multi Eval Transmit Spectrum Mask Occupied Bandwidth Results.vi * Modified - rscmwWLM Query Signal Routing Settings.vi - rscmwWLM Configure Input Signal.vi - rscmwWLM Configure Input Signal Bandwidth.vi - rscmwWLM Configure Multi Eval Measurement List Mode Burst.vi - rscmwWLM Query Multi Eval Measurement List Mode Burst.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Flatness OFDM.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask 40 MHz.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11ac.vi - rscmwWLM ConfigureMEvalLimitsTransmitSpectrumFlatnessOFDM80211AC.vi - rscmwWLM Read Multi Eval OFDM Values.vi - rscmwWLM Fetch Multi Eval OFDM Values.vi - rscmwWLM Query Multi Eval OFDM Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM Standard Deviation.vi - rscmwWLM Fetch Multi Eval OFDM Standard Deviation.vi - rscmwWLM Query Multi Eval OFDM Standard Deviation Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval OFDM Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM 802.11ac Values.vi

rscmwlm driver for WLAN Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwlm Fetch Multi Eval OFDM 802.11ac Values.vi - rscmwlm Query Multi Eval OFDM 802.11ac Limit Check Results.vi - rscmwlm Read Multi Eval OFDM 802.11ac Standard Deviation.vi - rscmwlm Fetch Multi Eval OFDM 802.11ac Standard Deviation.vi - rscmwlm Query Multi Eval OFDM 802.11ac Standard Deviation Limit Check Results.vi - rscmwlm Fetch Multi Eval List Mode OFDM All Segments Values.vi - rscmwlm Fetch Multi Eval List Mode OFDM All Segments Standard Deviation.vi - rscmwlm Fetch Multi Eval List Mode OFDM One Segment Values.vi - rscmwlm Fetch Multi Eval List Mode OFDM One Segment Standard Deviation.vi - rscmwlm Read Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwlm Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwlm Read Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwlm Fetch Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwlm Read Multi Eval PVT Ramp Trace Results.vi - The help was updated. - rscmwlm Fetch Multi Eval PVT Ramp Trace Results.vi - The help was updated. - rscmwlm Read Multi Eval Spectrum Flatness OFDM SISO.vi - The help was updated. - rscmwlm Fetch Multi Eval Spectrum Flatness OFDM SISO.vi - The help was updated.
3.2.100	08/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.10 * New <ul style="list-style-type: none"> - OFDM 802.11n MIMO - OFDM 802.11n Switched MIMO - OFDM 802.11ac - Transmit Spectrum Mask - rscmwlm Configure Number Of Switched MIMO Antennas.vi - rscmwlm Configure Analyzer Frequency Offset.vi - rscmwlm Configure Input Signal Frequency Channel.vi * Modified <ul style="list-style-type: none"> - rscmwlm Configure Analyzer Stand Alone Scenario.vi - added RX convertors 3 and 4 - rscmwlm Query Signal Routing Settings.vi - added RX convertors 3 and 4 - rscmwlm Configure Input Signal.vi - added new standards - rscmwlm Configure Input Signal Bandwidth.vi - added 80 MHz support - rscmwlm Configure Multi Eval Measurement List Mode Burst.vi - added new standards - rscmwlm Query Multi Eval Measurement List Mode Burst.vi - added new standards - rscmwlm Configure Multi Eval Limits OFDM Center Frequency Error.vi - changed range of frequency * Changed SCPI command <ul style="list-style-type: none"> - rscmwlm Configure Multi Eval Limits OFDM 802.11n Error Vector Magnitude.vi - rscmwlm Configure Multi Eval Limits OFDM 802.11n EVM Pilot.vi - rscmwlm Configure Multi Eval Limits OFDM 802.11n IQ Offset.vi - rscmwlm Configure Multi Eval Limits OFDM 802.11n Center Frequency Error.vi - plus changed frequency range - rscmwlm Configure Multi Eval Limits OFDM 802.11n Symbol Clock Error.vi - rscmwlm Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11n.vi - rscmwlm Configure Multi Eval Limits Transmit Spectrum Flatness Enable OFDM 802.11n.vi - rscmwlm Configure Multi Eval Lower Limits Transmit Spectrum Flatness OFDM 802.11n.vi - rscmwlm Configure Multi Eval Limits Transmit Spectrum Mask 40 MHz.vi - rscmwlm Read Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwlm Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwlm Read Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwlm Fetch Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwlm Read Multi Eval OFDM 802.11n Transmit Spectrum Mask Values.vi - rscmwlm Fetch Multi Eval OFDM 802.11n Transmit Spectrum Mask Values.vi - rscmwlm Query Multi Eval OFDM 802.11n Transmit Spectrum Mask Limit Check Results.vi - rscmwlm Fetch Multi Eval List Mode Transmit Spectrum Mask OFDM All Segments Values.vi

rscmwWLM driver for WLAN Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100, CMW270		
Revision	Date	Note
		- rscmwWLM Fetch Multi Eval List Mode Transmit Spectrum Mask OFDM One Segment Values.vi
3.0.120	06/2012	Modifications: * Update for firmware version 3.0.10 * New - rscmwWLM Configure Multi Eval Measurement FFT Demodulation Offset.vi * Modified - rscmwWLM Query Signal Routing Settings.vi - rscmwWLM Training Data Acquisition Init.vi
2.1.300	01/2012	Release for CMW firmware version 2.1.30.xx * New - rscmwWLM Configure Analyzer Combined Signal Path Scenario.vi - rscmwWLM Configure Analyzer Second Channel Position.vi - rscmwWLM Configure Input Signal Frequency Band.vi - rscmwWLM Configure Multi Eval Measurement DSSS Average Length.vi - rscmwWLM Configure Multi Eval Measurement DSSS Reference Power.vi - rscmwWLM Training Data Acquisition Date.vi - rscmwWLM Configure Error Checking.vi * Modified - rscmwWLM Configure Multi Eval Measurement Assign Views All .vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 80211N.vi - rscmwWLM Read Multi Eval Measurement OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval Measurement OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval Measurement OFDM Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval Measurement OFDM8 0211N Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval Measurement OFDM 80211N Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval Measurement OFDM 80211N Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval Measurement DSSS Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval Measurement DSSS Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval Measurement DSSS Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval Measurement PVT DSSS Statistical Edge.vi - rscmwWLM Fetch Multi Eval Measurement PVT DSSS Statistical Edge.vi
2.1.100	08/2011	Release for CMW firmware version 2.1.10.xx * New features - OFDM SISO results - Power vs Time results - CMIMO Training Mode * Added - rscmwWLM Configure Input Signal Training Data Source - rscmwWLM Get Loaded Training Data File Date - rscmwWLM Configure Multi Eval Measurement PVT - rscmwWLM Configure Multi Eval PVT DSSS Limits - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask 40 MHz * Modified - rscmwWLM Configure Input Signal.vi - added new standard - OFDM CMIMO Signal results - new results returned
2.0.110	04/2011	Release for CMW firmware version 2.0.11.xx

rscmwWLM driver for WLAN Measurement

Driver history for LabVIEW driver

Instruments: CMW500, CMW100, CMW270

Revision	Date	Note
		<ul style="list-style-type: none"> * New - OFDM MISO Signal results * Added - rscmwWLM Query Signal Routing Settings.vi - rscmwWLM Configure Analyzer Stand Alone Scenario.vi - rscmwWLM Configure External Attenuation.vi - rscmwWLM Configure Mutli Eval Measurement Timeout.vi - rscmwWLM Configure Mutli Eval Measurement List Mode TS Mask.vi - rscmwWLM Configure Mutli Eval Measurement Limits Transmit Spectrum Flatness OFDM.vi - rscmwWLM Configure Mutli Eval Measurement Limits Transmit Spectrum Flatness Enable OFDM 80211N.vi - rscmwWLM Configure Mutli Eval Measurement Lower Limits Transmit Spectrum Flatness OFDM 80211N.vi - rscmwWLM Configure Mutli Eval Measurement Upper Limits Transmit Spectrum Flatness OFDM 80211N.vi * Modified - rscmwWLM_Configure Input Signal.vi - added new standard - rscmwWLM_Configure Input Signal Bandwidth.vi - added new bandwidth - Constellation Diagram results * Removed - rscmwWLM Configure Signal Routing.vi - rscmwWLM Read Mutli Eval Measurement Transmit Spectrum Mask Trace.vi - rscmwWLM Fetch Mutli Eval Measurement Transmit Spectrum Mask Trace.vi
1.0.152	06/2010	<p>Release for CMW firmware version 1.0.15.20</p> <p>Added VIs/attributes:</p> <ul style="list-style-type: none"> - rscmwWLM Configure Analyzer Mixer Level Offset.vi - rscmwWLM Configure Input Signal Bandwidth.vi - rscmwWLM Configure Multi Eval Measurement List Mode Transmit Spectrum Mask.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM 802.11n.vi - rscmwWLM Read Multi Eval OFDM Spectrum Flatness Trace.vi - rscmwWLM Fetch Multi Eval OFDM Spectrum Flatness Trace.vi - rscmwWLM Read Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwWLM Fetch Multi Eval OFDM 802.11n EVM vs Symbol Trace.vi - rscmwWLM Read Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwWLM Fetch Multi Eval OFDM 802.11n EVM vs Carrier Trace.vi - rscmwWLM Read Multi Eval OFDM 802.11n Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval OFDM 802.11n Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval OFDM 802.11n Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Fetch Multi Eval List Mode Transmit Spectrum Mask OFDM All Segments Values.vi - rscmwWLM Fetch Multi Eval List Mode Transmit Spectrum Mask OFDM One Segment Values.vi - rscmwWLM Fetch Multi Eval List Mode Transmit Spectrum Mask DSSS All Segments Values.vi - rscmwWLM Fetch Multi Eval List Mode Transmit Spectrum Mask DSSS One Segment Values.vi <p>Modified VIs/attributes:</p> <ul style="list-style-type: none"> - rscmwWLM Configure Signal Routing.vi - rscmwWLM Configure Multi Eval Measurement Assign Views.vi - rscmwWLM Configure Multi Eval Measurement Assign Views All.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM.vi - rscmwWLM Read Multi Eval Transmit Spectrum Mask Trace.vi - moved to obsolete folder, will be deleted in 2 versions ahead - rscmwWLM Fetch Multi Eval Transmit Spectrum Mask Trace.vi - moved to obsolete folder, will be deleted in 2 versions ahead

rscmwWLM driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
1.0.150	02/2010	<p>Release for CMW firmware version 1.0.15</p> <p>Added VIs/attributes</p> <ul style="list-style-type: none"> - rscmwWLM Configure Multi Eval Measurement Modulation Tracking.vi - rscmwWLM Configure Multi Eval Measurement Channel Estimation.vi - rscmwWLM Configure Multi Eval Measurement Transmit Spectrum Mask.vi - rscmwWLM Configure Multi Eval Measurement Assign Views.vi - rscmwWLM Configure Multi Eval Measurement Assign Views All.vi - rscmwWLM Configure Multi Eval Measurement Trigger.vi - rscmwWLM Query Multi Eval Measurement Trigger Source Catalog.vi - rscmwWLM Configure Multi Eval Measurement List Mode State.vi - rscmwWLM Configure Multi Eval Measurement List Mode Number Of Segments.vi - rscmwWLM Configure Multi Eval Measurement List Mode Capture Time.vi - rscmwWLM Configure Multi Eval Measurement List Mode Channel Filter Estimation.vi - rscmwWLM Configure Multi Eval Measurement List Mode Statistical Length.vi - rscmwWLM Configure Multi Eval Measurement List Mode Burst.vi - rscmwWLM Query Multi Eval Measurement List Mode Burst.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11n Error Vector Magnitude.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11n EVM Pilot.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11n IQ Offset.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11n Center Frequency Error.vi - rscmwWLM Configure Multi Eval Limits OFDM 802.11n Symbol Clock Error.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask DSSS.vi - rscmwWLM Configure Multi Eval Limits Transmit Spectrum Mask OFDM.vi - rscmwWLM Read Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval OFDM Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval OFDM Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval OFDM EVM vs Symbol Trace.vi - rscmwWLM Fetch Multi Eval OFDM EVM vs Symbol Trace.vi - rscmwWLM Read Multi Eval OFDM EVM vs Carrier Trace.vi - rscmwWLM Fetch Multi Eval OFDM EVM vs Carrier Trace.vi - rscmwWLM Read Multi Eval OFDM Constellation Diagram I Trace.vi - rscmwWLM Fetch Multi Eval OFDM Constellation Diagram I Trace.vi - rscmwWLM Read Multi Eval OFDM Constellation Diagram Q Trace.vi - rscmwWLM Fetch Multi Eval OFDM Constellation Diagram Q Trace.vi - rscmwWLM Read Multi Eval DSSS Transmit Spectrum Mask Values.vi - rscmwWLM Fetch Multi Eval DSSS Transmit Spectrum Mask Values.vi - rscmwWLM Query Multi Eval DSSS Transmit Spectrum Mask Limit Check Results.vi - rscmwWLM Read Multi Eval DSSS EVM Trace.vi - rscmwWLM Fetch Multi Eval DSSS EVM Trace.vi - rscmwWLM Read Multi Eval DSSS Constellation Diagram I Trace.vi - rscmwWLM Fetch Multi Eval DSSS Constellation Diagram I Trace.vi - rscmwWLM Read Multi Eval DSSS Constellation Diagram Q Trace.vi - rscmwWLM Fetch Multi Eval DSSS Constellation Diagram Q Trace.vi - rscmwWLM Read Multi Eval Transmit Spectrum Mask Trace.vi - rscmwWLM Fetch Multi Eval Transmit Spectrum Mask Trace.vi - rscmwWLM Fetch Multi Eval List Mode OFDM All Segments Values.vi - rscmwWLM Fetch Multi Eval List Mode OFDM All Segments Standard Deviation.vi - rscmwWLM Fetch Multi Eval List Mode OFDM One Segment Values.vi - rscmwWLM Fetch Multi Eval List Mode OFDM One Segment Standard Deviation.vi - rscmwWLM Fetch Multi Eval List Mode DSSS All Segments Values.vi - rscmwWLM Fetch Multi Eval List Mode DSSS All Segments Standard Deviation.vi - rscmwWLM Fetch Multi Eval List Mode DSSS One Segment Values.vi

rscmwWlm driver for WLAN Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100, CMW270**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWlm Fetch Multi Eval List Mode DSSS One Segment Standard Deviation.vi Modified VIs/attributes <ul style="list-style-type: none"> - rscmwWlm Configure Signal Routing.vi - rscmwWlm Configure Input Signal.vi - rscmwWlm Configure Multi Eval Measurement Parameters.vi - rscmwWlm Read Multi Eval OFDM Values.vi - rscmwWlm Fetch Multi Eval OFDM Values.vi - rscmwWlm Query Multi Eval OFDM Limit Check Results.vi - rscmwWlm Read Multi Eval OFDM Standard Deviation.vi - rscmwWlm Fetch Multi Eval OFDM Standard Deviation.vi - rscmwWlm Query Multi Eval OFDM Standard Deviation Limit Check Results.vi - rscmwWlm Read Multi Eval DSSS Values.vi - rscmwWlm Fetch Multi Eval DSSS Values.vi - rscmwWlm Query Multi Eval DSSS Limit Check Results.vi - rscmwWlm Read Multi Eval DSSS Standard Deviation.vi - rscmwWlm Fetch Multi Eval DSSS Standard Deviation.vi - rscmwWlm Query Multi Eval DSSS Standard Deviation Limit Check Results.vi
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Added VIs/attributes <ul style="list-style-type: none"> - rscmwWlm Query Multi Eval OFDM Limit Check Results.vi - rscmwWlm Query Multi Eval OFDM Standard Deviation Limit Check Results.vi - rscmwWlm Query Multi Eval DSSS Limit Check Results.vi - rscmwWlm Query Multi Eval DSSS Standard Deviation Limit Check Results.vi Modified VIs/attributes <ul style="list-style-type: none"> - rscmwWlm Configure Input Signal.vi - added new standard - RSCMWWLM_ATTR_INPUT_SIGNAL_STANDARD - added new standard

21 RScmwWLS - WLAN Signaling (4.0.200)

rscmwWLS driver for WLAN Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
4.0.200	07/2022	Support for CMW version 4.0.20 New core 7.3.0 New: Configure Security Mode.vi Configure Security Protection Management Frames.vi Configure Security SAE Authentication.vi Configure Security Group Transform.vi Configure Security Private Key.vi Updated: Configure Connection Security.vi - rings 'Mode' and 'Encryption Type' updated
3.8.200	02/2021	* Update for firmware version 3.8.20 * New core 6.72.0 * Reworked all the VI Front Panels to Silver-style New: rscmwWLS Query RF Active Scenario.vi rscmwWLS Configure RF Band.vi rscmwWLS Configure RF Signal Routing Standard Cell Fading.vi rscmwWLS Configure RF Signal Routing MIMO 2x2 Fading.vi rscmwWLS Configure RF Routing Antennas.vi rscmwWLS Configure RF Routing Antennas Attenuation.vi rscmwWLS Query RF Routing Antenna Approximate Burst Power.vi rscmwWLS Configure Connection Association.vi rscmwWLS Configure Connection A MPDU Settings.vi rscmwWLS Configure Multi Station.vi rscmwWLS Configure Connection Data HEMU Frame Resource Unit Allocation.vi rscmwWLS Configure Broadcast TWT Minimum Wake Duration.vi rscmwWLS Configure Connection HE MAC Capabilities BSR Support.vi rscmwWLS Configure Connection Support DSSS.vi rscmwWLS Configure NDP Sounding Station.vi rscmwWLS Configure NDP Sounding.vi rscmwWLS NDP Sounding Transmission Single Shot.vi rscmwWLS Configure NDP Sounding Transmission.vi rscmwWLS Clean Event Log.vi rscmwWLS Configure Fading Module AWGN.vi rscmwWLS Configure Fading Simulator.vi rscmwWLS Query Fading Simulator Insertion Loss.vi rscmwWLS Configure RX Trigger Delay Type.vi rscmwWLS Configure RX Trigger Rate Restriction.vi rscmwWLS Configure RX Trigger Spatial Streams.vi rscmwWLS Configure Packet Generator Destination.vi rscmwWLS Query Second State.vi rscmwWLS Query Third State.vi rscmwWLS Query Station SSID.vi rscmwWLS Query RX Power Indicator.vi rscmwWLS Configure IPv4 CMW IP Address.vi rscmwWLS Configure IPv4 Station IP Address.vi rscmwWLS Query DUT UE MAC.vi

rscmwWLS driver for WLAN Signaling

Driver history for LabVIEW driver

Instruments: CMW500, CMW270

Revision	Date	Note
		<p>rscmwWLS Query DUT UE IP Address.vi rscmwWLS Query DUT UE CMW IP Address.vi rscmwWLS Query HE TB UPH Info.vi rscmwWLS Query HE TB UE Capability.vi rscmwWLS Query RX Trigger Frames.vi rscmwWLS Reset Statistics.vi rscmwWLS Configure Statistics Settings.vi rscmwWLS Query Statistics RX Traffic Data.vi rscmwWLS Configure PER Destination Station.vi rscmwWLS Configure PER Data HEMU Frame User Streams.vi rscmwWLS Configure HE TB Number Of Frames.vi rscmwWLS HE TB Measurement Initiate.vi rscmwWLS HE TB Measurement Abort.vi rscmwWLS HE TB Measurement Stop.vi rscmwWLS Query HE TB Measurement State.vi rscmwWLS Query HE TB Measurement UL Power Headroom.vi rscmwWLS Set Attribute RawString.vi rscmwWLS Get Attribute RawString.vi</p> <p>Updated:</p> <p>rscmwWLS Configure RF Signal Routing MIMO.vi - implementation changed rscmwWLS Query RF Signal Routing Settings.vi - added RXConnector2, RXConverter2 rscmwWLS Configure RF TX MIMO Mode.vi - removed enum TXD rscmwWLS Query Signaling State.vi - added DUT1, DUT2, DUT3 rscmwWLS Configure DUT Disconnection.vi - added repeated capability station rscmwWLS Configure Operation Mode.vi - removed enum IBSS, WDIR, TEST rscmwWLS Configure AP Connection Settings.vi - remove NGF from Standard rscmwWLS Configure Connection Management Frame Rate Control.vi - remove HTG Frame Format rscmwWLS Configure Connection Data Frame Extended.vi - added repcap station rscmwWLS Configure Connection Data HEMU Frame RU Allocation Subfield.vi - added repcap station rscmwWLS Configure Connection Data HEMU Frame RU Allocation.vi - added repcap station rscmwWLS Query Connection Data HEMU Frame RU Allocation.vi - added repcap station rscmwWLS Configure Connection Data HEMU Frame User.vi - added repcap station rscmwWLS Configure Connection Data HEMU Frame User Allocation.vi - added repcap station rscmwWLS Configure Connection Data HEMU Frame Dummy User MCS.vi - added repcap station rscmwWLS Configure QOS TID.vi - add Auto in Prioritization Mode rscmwWLS Configure QOS TID BAR Method.vi - added repcap station rscmwWLS Configure QOS TID Block Ack.vi - added repcap station rscmwWLS Configure Trigger Frame User Info.vi - added repcap station rscmwWLS Query Trigger Frame Spatial Stream.vi - added repcap station rscmwWLS Configure Trigger Frame Target RSSI.vi - added repcap station rscmwWLS Query Trigger Frame Target RSSI.vi - added repcap station rscmwWLS Query UE Capability MAC Address.vi - added repcap station rscmwWLS Query UE Capability RX Burst Power.vi - added repcap station rscmwWLS Query UE Capability Data Rate.vi - added repcap station, all enums changed rscmwWLS Query UE Capability Buffered Data.vi - added repcap station rscmwWLS Query UE HE Capabilities.vi - added repcap station rscmwWLS Configure PER Packet Settings.vi - PER limit is not used now rscmwWLS Configure PER Traffic Burst.vi - update Frame Format enums rscmwWLS Configure IPv4 Settings.vi - stack, destination is not used now</p> <p>Deleted:</p> <p>rscmwWLS_ConfigureRFSignalAttenuation rscmwWLS_ConfigureRFSignalPowerUplink rscmwWLS_QueryRFSignalApproximateRXBurstPower</p>

rscmwWLS driver for WLAN Signaling**Driver history for LabVIEW driver****Instruments: CMW500, CMW270**

Revision	Date	Note
		rscmwWLS_ConfigureRFMixerLevelOffset rscmwWLS_ConfigureRFSignalExternalAttenuation rscmwWLS_ConfigureRFMIMOTXSpatialMapping rscmwWLS_ConfigureAdvancedRFSettings rscmwWLS_StartWPSConnection rscmwWLS_StartWiFiDirectConnection rscmwWLS_ConfigureConnectionSecurityWPS rscmwWLS_ConfigureConnectionSecurityWiFiDirect rscmwWLS_ConfigureWiFiDirectDeviceProperties rscmwWLS_ConfigureRXFilter rscmwWLS_QueryStationServiceSetIdentifier rscmwWLS_QueryPERACKRate
3.7.400	06/2019	Support for CMW version 3.7.40 New: rscmwWLS_Configure_BSS_Color.vi rscmwWLS_Configure_Association_ID_Range.vi rscmwWLS_Configure_Connection_Data_Frame_Extended.vi rscmwWLS_Configure_Connection_Data_HEMU_Frame_RU_Allocation_Subfield.vi rscmwWLS_Configure_Connection_Data_HEMU_Frame_RU_Allocation.vi rscmwWLS_Query_Connection_Data_HEMU_Frame_RU_Allocation.vi rscmwWLS_Configure_Connection_Data_HEMU_Frame_User.vi rscmwWLS_Configure_Connection_Data_HEMU_Frame_User_Allocation.vi rscmwWLS_Configure_Connection_Data_HEMU_Frame_Dummy_User_MCS.vi rscmwWLS_Configure_HT_Smoothing.vi rscmwWLS_Configure_Broadcast_TWT_State.vi rscmwWLS_Configure_A-MPDU.vi rscmwWLS_Configure_Broadcast_TWT_Flow_ID.vi rscmwWLS_Configure_EDCA.vi rscmwWLS_Configure_QOS_TID.vi rscmwWLS_Configure_QOS_TID_BAR_Method.vi rscmwWLS_Configure_QOS_TID_Block_Ack.vi rscmwWLS_Configure_Trigger_Frame_Common_Info.vi rscmwWLS_Query_Trigger_Frame_AP_Tx_Power.vi rscmwWLS_Configure_Trigger_Frame_User_Info.vi rscmwWLS_Query_Trigger_Frame_Spatial_Stream.vi rscmwWLS_Configure_Trigger_Frame_Target_RSSI.vi rscmwWLS_Query_Trigger_Frame_Target_RSSI.vi rscmwWLS_Trigger_Frame_Transmission_Single_Shot.vi rscmwWLS_Configure_Trigger_Frame_Transmission_Periodical.vi rscmwWLS_Configure_RX_Trigger_Bandwidth.vi rscmwWLS_Configure_RX_Trigger_Rate.vi rscmwWLS_Configure_Trigger_OFDM_Min_Length.vi rscmwWLS_Configure_Trigger_DSSS_Min_Length.vi rscmwWLS_Query_RX_Power_Indicator.vi rscmwWLS_Query_UE_Capability_Buffered_Data.vi rscmwWLS_Configure_PER_Traffic_Burst_Extended.vi rscmwWLS_Configure_PER_Link_To_SIG_Frame_Settings.vi rscmwWLS_Configure_PER_Data_HEMU_Frame_RU_Allocation_Subfield.vi rscmwWLS_Configure_PER_Data_HEMU_Frame_RU_Allocation.vi rscmwWLS_Query_PER_Data_HEMU_Frame_RU_Allocation.vi rscmwWLS_Configure_PER_Data_HEMU_Frame_User.vi rscmwWLS_Configure_PER_Data_HEMU_Frame_User_Allocation.vi rscmwWLS_Configure_PER_Data_HEMU_Frame_Dummy_User_MCS.vi

rscmwWLS driver for WLAN Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		Updated: rscmwWLS Configure RF Operating Channel Width.vi - added 160 Mhz bandwidth rscmwWLS Configure RF Mixer Level Offset.vi - range changed rscmwWLS Configure Connection Management Frame Rate Control.vi - new frame formats - HES, HEM rscmwWLS Configure Trigger Mode.vi - new trigger modes rscmwWLS Configure Packet Generator.vi - API changed - index added rscmwWLS Configure Packet Generator IP Version.vi - API changed - index added rscmwWLS Configure Packet Generator Protocol.vi - API changed - index added rscmwWLS Query UE Capability Data Rate.vi - Format, rate, bandwidth - new values
3.7.100	03/2018	Update for CMW firmware version 3.7.10 New: rscmwWLS Configure User Defined VHT Supported Rates.vi rscmwWLS Query UE Capability Data Rate.vi rscmwWLS Query UE HE Capabilities.vi Updated: rscmwWLS Initialize.vi, rscmwWLS Initialize with Options.vi, rscmwWLS Close.vi and Utility VIs have new VI icons rscmwWLS Configure RF Signal Routing Standard Cell.vi - Signaling Unit Number updated rscmwWLS Configure RF Signal Routing MIMO.vi - Signaling Unit Number updated rscmwWLS Configure Operation Mode.vi - Operation Mode updated rscmwWLS Configure AP Connection Settings.vi - Standard updated rscmwWLS Configure Connection Security.vi - SCPI command for Mode and Passphrase updated
3.5.1300	03/2017	Update for CMW firmware version 3.5.130 Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging All VISA resource name inputs are mandatory Changed Icons strip color to blue for measurement drivers and orange for signaling drivers Changed Palette Icons Cleaned up all the Front Panels and Block Diagram *New: rscmwWLS Configure RF Signal Routing Standard Cell.vi rscmwWLS Configure RF Signal Routing MIMO.vi rscmwWLS Configure RF Frequency Offset.vi rscmwWLS Configure RF Np20 Index.vi rscmwWLS Configure RF Np20 Frequency.vi rscmwWLS Configure RF Np20 Channel.vi rscmwWLS Configure RF Operating Channel Width.vi rscmwWLS Query RF Signal Approximate RX Burst Power.vi rscmwWLS Configure Advanced RF Settings.vi rscmwWLS Configure Connection Management Frame Rate Control.vi rscmwWLS Configure Connection Data Frame.vi rscmwWLS Query UE Capability RX Burst Power.vi rscmwWLS Configure PER Traffic Burst.vi rscmwWLS Configure Error Checking.vi rscmwWLS Configure Message Monitoring.vi rscmwWLS Query Message Monitoring Logging PC IPv4 Address *Updated: rscmwWLS Query RF Signal Routing Settings.vi rscmwWLS Configure RF Signal Burst Power Downlink.vi rscmwWLS Configure AP Connection Settings.vi *Deleted: rscmwWLS Configure RF Signal Routing.vi - replaced by rscmwWLS Configure RF Signal Routing Standard Cell.vi

rscmwWLS driver for WLAN Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwWLS Query RF Signal Bandwidth.vi - replaced by rscmwWLS Configure RF Operating Channel Width.vi rscmwWLS Configure Frame Rate Control.vi - replaced by rscmwWLS Configure Connection Management Frame Rate Control.vi and rscmwWLS Configure Connection Data Frame.vi rscmwWLS Configure RF Signal MIMO Scenario.vi - replaced by Configure rscmwWLS RF Signal Routing MIMO.vi rscmwWLS Configure PER Modulation Coding Rate.vi - replaced by Configure rscmwWLS Configure PER Traffic Burst.vi
3.5.400	10/2016	* Update for CMW firmware version 3.5.40 * New: rscmwWLS Configure IP Routes List.vi rscmwWLS Configure Connection Hotspot BSS Load Element.vi rscmwWLS Bin Data From File To Instrument.vi rscmwWLS Bin Data To File From Instrument.vi rscmwWLS Clear Status.vi rscmwWLS ID Query Response.vi rscmwWLS Process All Previous Commands.vi rscmwWLS Query OPC.vi Updated: rscmwWLS Read To File From Instrument.vi rscmwWLS Write From File To Instrument.vi rscmwWLS Instrument Options.vi rscmwWLS Initialize.vi rscmwWLS_core_waitOPC.vi rscmwWLS Error Query.vi _rscmwWLS Default Instrument Setup.vi _rscmwWLS Get PER Results.vi rscmwWLS Configure Connection Hotspot Domain Name.vi rscmwWLS Configure IPv6 Settings.vi rscmwWLS Query PER ACK Rate.vi rscmwWLS Configure Wi-Fi Direct Device Properties.vi ... bug fixed
3.5.200	11/2015	Update for CMW firmware version 3.5.20.xx Added: DAU rscmwWLS Configure Connection Hotspot Domain Name.vi rscmwWLS Configure Connection Hotspot PLMN.vi rscmwWLS Configure Connection Hotspot Realm Name.vi rscmwWLS Query EAP Connection State.vi rscmwWLS Query Event Log.vi Modified: rscmwWLS Configure Connection Hotspot Supplement.vi
3.5.100	04/2015	Update for CMW firmware version 3.5.10.xx Added: rscmwWLS Configure RF Signal Channel.vi rscmwWLS Configure RF Signal Power Uplink.vi rscmwWLS Configure AP Connection Settings.vi rscmwWLS Configure Trigger Settings.vi Modified: rscmwWLS Start Wi-Fi Direct Connection.vi rscmwWLS Configure Connection DTIM Period.vi rscmwWLS Configure Connection Security Wi-Fi Direct.vi rscmwWLS Configure Wi-Fi Direct Device Properties.vi

rscmwWLS driver for WLAN Signaling**Driver history for LabVIEW driver****Instruments: CMW500, CMW270**

Revision	Date	Note
		rscmwWLS Configure Connection Security EAP-SIM Radius Server.vi rscmwWLS Configure Connection Security EAP-AKA Radius Server.vi rscmwWLS Configure Connection IP Version Support.vi rscmwWLS Configure Packet Generator IP Version.vi rscmwWLS Query Station Service Set Identifier.vi rscmwWLS Configure IPv4 Settings.vi rscmwWLS Configure IPv6 Settings.vi rscmwWLS Read PER Results.vi rscmwWLS Fetch PER Results.vi rscmwWLS Query PER ACK Rate.vi
3.2.700	11/2014	Update for CMW firmware version 3.2.70.xx Express VI version 2.5.0 Added: rscmwWLS Start WPS Connection.vi rscmwWLS Configure Connection Security WPS.vi rscmwWLS Configure Connection Security Radius Server Mode.vi rscmwWLS Configure Connection Hotspot Basic.vi rscmwWLS Configure Connection Hotspot Supplement.vi rscmwWLS Configure Connection Hotspot Number Of Digit.vi rscmwWLS Configure Trigger Min Length.vi
3.2.600	06/2014	Update for CMW firmware version 3.2.60.xx Added: rscmwWLS Configure RF Signal MIMO Scenario.vi rscmwWLS Configure RF Signal External Attenuation.vi rscmwWLS Configure RF TX MIMO Mode.vi rscmwWLS Configure RF MIMO TX Spatial Mapping.vi rscmwWLS Configure RF Signal TX Power Ratio.vi rscmwWLS Configure Trigger Mode.vi Modified: rscmwWLS Query RF Signal Routing Settings.vi rscmwWLS Configure RF Signal Burst Power Downlink.vi rscmwWLS Configure Operation Mode.vi rscmwWLS Configure Packet Generator.vi rscmwWLS Configure PER Modulation Coding Rate.vi rscmwWLS Configure Frame Rate Control.vi rscmwWLS Configure Connection Security.vi
3.2.100	09/2013	Update for CMW firmware version 3.2.10.xx Added: rscmwWLS Configure Operation Mode.vi rscmwWLS Configure Connection Security.vi rscmwWLS Configure Connection Security Radius Server.vi rscmwWLS Configure RX Filter.vi rscmwWLS Configure Connection Mode.vi rscmwWLS Configure RF Mixer Level Offset.vi rscmwWLS Configure Connect.vi rscmwWLS Configure Reconnect.vi rscmwWLS Configure SSID Connection.vi Modified: rscmwWLS Configure RF Signal Routing.vi rscmwWLS Query RF Signal Routing Settings.vi rscmwWLS Configure AP Connection Settings.vi rscmwWLS Configure Country Code.vi

rscmwWLS driver for WLAN Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW270		
Revision	Date	Note
		rscmwWLS Configure Frame Rate Control.vi rscmwWLS Configure Trigger Settings.vi rscmwWLS Configure Packet Generator.vi rscmwWLS Query Packet Switched State.vi rscmwWLS Configure PER Modulation Coding Rate.vi
3.0.200	04/2013	*Update for CMW firmware version 3.0.20 *Added: - rscmwWLS Configure End To End.vi - rscmwWLS Configure RF Signal Channel.vi - rscmwWLS Configure Frame Rate Control.vi - rscmwWLS Configure User Defined Supported Rates State.vi - rscmwWLS Configure User Defined DSSS Supported Rates.vi - rscmwWLS Configure User Defined OFDM Supported Rates.vi - rscmwWLS Configure User Defined OFDM Supported Modulation Schemes.vi - rscmwWLS Configure Packet Generator Protocol.vi - rscmwWLS Query UE Capability Assigned Address.vi *Modified: - rscmwWLS Configure Country Code.vi
3.0.120	05/2012	*Modifications: - Modified VIs/attributes - rscmwWLS Configure Trigger Settings.vi - support for RX *New functions - rscmwWLS Configure Country Code.vi - rscmwWLS Configure Packet Generator.vi
1.0.0	02/2012	- Initial version

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rscmwtm driver for TD-SCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.100	02/2018	<ul style="list-style-type: none"> * Update for firmware version 3.7.10 * Exchanged Driver Core 6.9.0 that supports Simulation mode and Logging * Modified - rscmwtm Initialize.vi, rscmwtm Initialize with Options.vi, rscmwtm Close.vi and Utility VIs have new VI icons
3.5.500	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.50 * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels * New - rscmwtm Fetch Multi Eval List Mode All Power Monitor Results.vi - rscmwtm Configure UE Signal Midamble Shift.vi - rscmwtm Configure UE Signal Number Of E-UCCH.vi - rscmwtm Configure Multi Eval Measurement Timeout.vi - rscmwtm Configure Multi Eval Measurement List Mode Segment Connector.vi
3.5.400	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.40 * New - rscmwtm Configure Multi Eval Measurement List Mode Segment PvT.vi - rscmwtm Fetch Multi Eval Measurement List Mode PvT Results.vi - rscmwtm Configure TPC Maximum UE Power Class Value Reported.vi - rscmwtm Clear Status.vi - rscmwtm ID Query Response.vi - rscmwtm Process All Previous Commands.vi - rscmwtm QueryOPC.vi - rscmwtm Bin Data From File To Instrument.vi - rscmwtm Bin Data To File From Instrument.vi * Modified - rscmwtm Configure Analyzer Stand Alone Scenario - new connectors - rscmwtm Query Signal Routing.vi - new connectors - fixed RSCMWTM_ATTR_UE_SIGNAL_SCRAMBLING_CODE and rscmwtm Configure UE Signal.vi: instrument returns value in hex format
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.10 * Help improvements * Modified - rscmwtm_QuerySignalRouting
3.2.700	11/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.70 * Express VI version 2.5.0 * New - rscmwtm_ConfigureMultiEvalMeasurementTwoShotLevelDifference * Modified - rscmwtm_ConfigureAnalyzer - 'Center Frequency' range table updated. - rscmwtm_ConfigureUESignalAllDPCHsState - Default value changed - rscmwtm_ConfigureUESignalInfoSingleDPCH - Default value changed - rscmwtm_ConfigureMEvalMeasListModeSegmentProperties - added two new controls: 'Midamble Shift Mode' and 'User Shift Key' updated controls: 'Segment Length' range table + default value, 'Switch Point' changed default value,

rscmwtm driver for TD-SCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		'MidambleK' changed default value, 'Center Frequency' range table updated, 'Band' default value and help updated.
3.2.500	06/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.50 * New <ul style="list-style-type: none"> - TPC Subsystem - rscmwtm Configure Multi Eval Measurement Two Shot Assembly Level.vi - rscmwtm Query Multi Eval PVT Results Limit Check Result.vi - rscmwtm Fetch Multi Eval Spectrum Relative ACLR.vi * Modified <ul style="list-style-type: none"> - rscmwtm Configure Analyzer Stand Alone Scenario.vi - rscmwtm Query Signal Routing.vi - rscmwtm Configure Multi Eval Measurement Trigger.vi - rscmwtm Read Multi Eval EVM Standard Deviation Trace.vi - rscmwtm Fetch Multi Eval EVM Standard Deviation Trace.vi
3.2.100	08/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.10 * New <ul style="list-style-type: none"> - rscmwtm Configure Analyzer Frequency Offset.vi - rscmwtm Configure Analyzer Combined Signal Path.vi - rscmwtm Configure Multi Eval List Mode Evaluation Offset.vi - rscmwtm Configure UE Signal Frame Structure.vi - rscmwtm Configure Analyzer Frequency Band And Channel.vi * Modified <ul style="list-style-type: none"> - RSCMWTM_ATTR_UE_SIGNAL_SCRAMBLING_CODE - changed command - List Mode segment - changed max. number of segments to 500 - rscmwtm Fetch Multi Eval List Mode Spectrum Results.vi - swapped ACLR Plus 1 and ACLR Plus 2 results - rscmwtm Query Signal Routing.vi - added Combined Signal Path
3.0.200	12/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.20 * New: <ul style="list-style-type: none"> - rscmwtm Read Multi Eval PVT Results.vi - rscmwtm Fetch Multi Eval PVT Results.vi - rscmwtm Fetch Multi Eval List Mode All Reliability Results.vi * Updated: <ul style="list-style-type: none"> - rscmwtm Query Multi Eval Modulation Results Limits Check Result.vi, - rscmwtm Read Multi Eval Modulation Standard Deviation.vi, - rscmwtm Fetch Multi Eval Modulation Standard Deviation.vi, - rscmwtm Query Multi Eval Modulation Standard Deviation Limits Check Result.vi - documentation updated: added new results Waveform quality, PCD Error Code - rscmwtm Read Multi Eval Spectrum Trace.vi, - rscmwtm Fetch Multi Eval Spectrum Trace.vi, - rscmwtm Query Multi Eval Spectrum Trace Limits Check Result.vi - documentation updated: added new results Frequency emission mask AB, CD, DE, ED, DC, BA - rscmwtm Fetch Multi Eval List Mode All Modulation PCDE Results.vi - added control for PCD Error Code results - rscmwtm Configure Multi Eval List Mode Segment Properties.vi - added controls for configuration of level, center frequency, band, retrigger - rscmwtm Fetch Multi Eval List Mode Power Monitor Results.vi - added control: Number Of Subframes
3.0.121	12/2012	<p>Modifications:</p> <p>Version 3.0.121</p> <ul style="list-style-type: none"> * Fixed express VI's source VI causing 'Attribute not writable' error.

rscmwtm driver for TD-SCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.10 * New: <ul style="list-style-type: none"> - List Mode Subsystem (Classes: List Mode, List Mode Segment, List Mode All) - rscmwtm Configure Multi Eval Measurement Subframe Offset.vi - rscmwtm Configure Multi Eval Measurement TrCHMode.vi <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Trigger Timeout State.vi - rscmwtm Configure Analyzer Channel.vi * Update <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Trigger.vi - timeout data type changed, int > double, range RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT - rscmwtm Read Multi Eval Measurement Modulation Results.vi - greater array size - Waveform quality added - rscmwtm Fetch Multi Eval Measurement Modulation Results.vi - greater array size - Waveform quality added - rscmwtm Query Multi Eval Measurement Modulation Results Limits Check Result.vi - greater array size - Waveform quality added
2.1.101	02/2012	<p>Modifications:</p> <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.100	07/2011	<p>Release for CMW firmware version 2.1.10.x</p> <ul style="list-style-type: none"> * Added VIs/attributes <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Data Pattern.vi - rscmwtm Fetch Multi Eval PVT Limit Check.vi
2.0.110	02/2011	<p>Release for CMW firmware version 2.0.11.xx</p> <ul style="list-style-type: none"> * Added VIs/attributes <ul style="list-style-type: none"> - rscmwtm Configure Analyzer Mixer Level Offset.vi <ul style="list-style-type: none"> - rscmwtm Query Signal Routing.vi * Modified functions/attributes.vi <ul style="list-style-type: none"> - rscmwtm Configure Analyzer Stand Alone Scenario.vi - added new connectors
1.0.153	08/2010	<p>Release for CMW firmware version 1.0.15.20</p> <ul style="list-style-type: none"> * Added VIs <ul style="list-style-type: none"> - rscmwtm Configure Analyzer Stand Alone Scenario.vi - rscmwtm Configure Analyzer External Attenuation.vi * Modified VIs <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Trigger.vi * Removed VIs <ul style="list-style-type: none"> - rscmwtm Configure Signal Routing.vi
1.0.100	07/2009	<p>Release for CMW firmware version 1.0.10.1</p> <p>Added VIs/attributes</p> <ul style="list-style-type: none"> - rscmwtm Query Multi Eval Modulation Results Limits Check Result.vi - rscmwtm Query Multi Eval Modulation Standard Deviation Limits Check Result.vi - rscmwtm Query Multi Eval Spectrum Trace Limits Check Result.vi - rscmwtm Query Multi Eval BER Limits Check Result.vi <p>Modified VIs/attributes</p> <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Parameters.vi - rscmwtm Configure Multi Eval Measurement Trigger.vi

rscmwtm driver for TD-SCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
1.0.50	12/2008	<p>Release for CMW firmware version 1.0.53</p> <ul style="list-style-type: none"> - Modified VIs/attributes <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Statistics Count.vi - added BER - rscmwtm Configure Multi Eval Measurement Results.vi - added BER - rscmwtm Configure Multi Eval Measurement Results All.vi - added BER - RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_STATISTIC_COUNT - added BER - RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_RESULT - added BER - New VIs/attributes <ul style="list-style-type: none"> - rscmwtm Fetch Multi Eval BER.vi - rscmwtm Read Multi Eval BER.vi - rscmwtm Configure Multi Eval Limits PVT Individual Areas.vi
1.0.40	07/2008	<p>Release for CMW firmware version 1.0.4</p> <p>Modified:</p> <ul style="list-style-type: none"> - Removed VIs/attributes <ul style="list-style-type: none"> - rscmwtm Read Multi Eval Measurement Code Domain Scalar Slot.vi - rscmwtm Fetch Multi Eval Measurement Code Domain Scalar Slot.vi - rscmwtm Read Multi Eval Measurement Code Domain Scalar Slot Standard Deviation.vi - rscmwtm Fetch Multi Eval Measurement Code Domain Scalar Slot Standard Deviation.vi - Modified VIs/attributes <ul style="list-style-type: none"> - rscmwtm Configure Multi Eval Measurement Results All - swapped order of elements in array - RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE <ul style="list-style-type: none"> - redesigned - rscmwtm Configure Multi Eval Measurement Trigger – redesigned <p>- chanded command in:</p> <p>RSCMWTM_ATTR_UE_SIGNAL_FIRST_ACTIVE_UPLINK_SLOT RSCMWTM_ATTR_UE_SIGNAL_SCRAMBLING_CODE RSCMWTM_ATTR_UE_SIGNAL_CHANNEL_DETECT_THRESHOLD RSCMWTM_ATTR_UE_SIGNAL_SWITCHING_POINT RSCMWTM_ATTR_UE_SIGNAL_USER_NUMBER RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SLOPE RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_THRESHOLD RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT RSCMWTM_ATTR_MULTI_EVAL_MEASUREMENT_SCALAR_SLOT RSCMWTM_ATTR_UE_SIGNAL_DPCH_SPREADING_FACTOR RSCMWTM_ATTR_UE_SIGNAL_DPCH_CODE_NUMBER RSCMWTM_ATTR_UE_SIGNAL_SICH_ENABLE RSCMWTM_ATTR_UE_SIGNAL_SICH_CODE_NUMBER RSCMWTM_ATTR_UE_SIGNAL_CHANNEL_INFO_MODE RSCMWTM_ATTR_UE_SIGNAL_DPCH_ENABLE RSCMWTM_ATTR_UE_SIGNAL_DPCH_ENABLE_ALL</p> <p>rscmwtm Configure UE Signal Info All DPCHs.vi rscmwtm Configure Multi Eval Measurement Limits ACLR Abs.vi rscmwtm Configure Multi Eval Measurement Limits ACLR Rel.vi rscmwtm Configure Multi Eval Measurement Limits Spectrum Emission Mask Abs.vi rscmwtm Configure Multi Eval Measurement Limits Spectrum Emission Mask Rel.vi rscmwtm Configure Multi Eval Measurement Limits Carrier Frequency Error.vi</p>

rscmwtm driver for TD-SCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		rscmwtm Configure Multi Eval Measurement Limits Transport Time Error.vi rscmwtm Configure Multi Eval Measurement Limits PVT.vi rscmwtm Configure Multi Eval Measurement Limits Waveform Quality.vi rscmwtm Read Multi Eval Measurement Code Domain Multi Slot Trace.vi rscmwtm Fetch Multi Eval Measurement Code Domain Multi Slot Trace.vi rscmwtm Read Multi Eval Measurement EVM vs Slot Trace.vi rscmwtm Fetch Multi Eval Measurement EVM vs Slot Trace.vi rscmwtm Read Multi Eval Measurement Magnitude Error Vs Slot Trace.vi rscmwtm Fetch Multi Eval Measurement Magnitude Error Vs Slot Trace.vi rscmwtm Read Multi Eval Measurement Magnitude Error Standard Deviation Trace.vi rscmwtm Fetch Multi Eval Measurement Magnitude Error Standard Deviation Trace.vi rscmwtm Read Multi Eval Measurement Phase Error Vs Slot Trace.vi rscmwtm Fetch Multi Eval Measurement Phase Error Vs Slot Trace.vi rscmwtm Read Multi Eval Measurement Phase Error Standard Deviation Trace.vi rscmwtm Fetch Multi Eval Measurement Phase Error Standard Deviation Trace.vi - New functions/attributes - RSCMWTM_ATTR_UE_SIGNAL_MODULATION_TYPE - rscmwtm Configure Multi Eval Measurement Limits PVT Borders.vi
1.0.30	05/2008	Release for CMW firmware version 1.0.3 Initial revision

23 RScmwTS - TD-SCDMA Signaling (3.7.100)

rscmwts driver for TD-SCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.100	02/2017	<ul style="list-style-type: none"> * Update for firmware version 3.7.10 * New - rscmwts Configure RF Signal Cell Fading Flexible Internal Scenario.vi - rscmwts Configure RF Signal Cell Fading Flexible External Scenario.vi - rscmwts Configure RF Standard Cell Flexible Scenario.vi * Updated: - rscmwts Initialize.vi, rscmwts Initialize with Options.vi, rscmwts Close.vi and Utility VIs have new VI icons
3.5.500	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.500 * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels * New - rscmwts Configure Connection Test Mode RMC UL Channel Code Mode.vi - rscmwts Configure BER Measurement Timeout.vi - rscmwts Configure Error Checking.vi * Updated: - rscmwts Configure Connection Test Mode Settings.vi - rscmwts Configure Connection HSPA Direction.vi - rscmwts Configure Handover LTE External Destination.vi - rscmwts Configure Network Entry LTE Neighbor Cell.vi - rscmwts Query Signaling Packet Switched State.vi
3.5.400	11/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.40 * New - rscmwts Configure RF Signal Cell Fading Internal Scenario.vi - rscmwts Query Active Scenario Fader.vi - rscmwts Configure Physical DL HSUPA Channel Level.vi - rscmwts Configure Physical UL Power Use Reported.vi - rscmwts Configure Physical UL UpPCH Ignore RACH.vi - rscmwts Configure Connection Voice Settings Additional.vi - rscmwts Query UE Capabilities HSUPA.vi - rscmwts Configure Handover Target Scrambling.vi - rscmwts Configure Outgoing SMS Binary Message Text.vi - rscmwts Configure Outgoing SMS Protocol Identifier.vi - rscmwts Configure Outgoing SMS Settings.vi - rscmwts Configure Outgoing SMS Service Center Time Stamp Source.vi - rscmwts Configure Outgoing SMS Service Center Time Stamp Date.vi - rscmwts Query Last Outgoing SMS Sent Status.vi - rscmwts Configure Large SMS Handling.vi - rscmwts Clear Status.vi - rscmwts ID Query Response.vi - rscmwts Process All Previous Commands.vi - rscmwts Query OPC.vi - rscmwts Read To File From Instrument.vi - rscmwts Write From File To Instrument.vi - rscmwts Bin Data From File To Instrument.vi

rscmwts driver for TD-SCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwts Bin Data To File From Instrument.vi - IRAT HO Mobility class - Internal Fading class - Time class - HSUPA class - Event Log class - CMW Voice Info class * Updated: <ul style="list-style-type: none"> - rscmwts Configure Routing.vi - Multi-CMW setup - rscmwts Query Signal Routing.vi - Multi-CMW setup - rscmwts_Configure RF Signal Cell Fading External Scenario.vi - Multi-CMW setup - rscmwts_Configure Connection Packet Data Rate.vi - HSUPA added to Uplink DR - rscmwts_Configure Network Identity Area Code.vi - code number range changed - rscmwts_Configure Network GSM Neighbor Cell List.vi - removed T810 band - rscmwts_Configure HSDPA RMC Category.vi - Max Throughput values added - rscmwts_Query Signaling Cell Configuration.vi - HSPA added - rscmwts_Configure Handover GSM External Destination.vi - removed T810 band - rscmwts_Read HSDPA Throughput Absolute.vi - new result - rscmwts_Fetch HSDPA Throughput Absolute.vi - new result
3.5.200	11/2015	Update for firmware version 3.5.20 * New <ul style="list-style-type: none"> - rscmwts Query Physical UL PRACH Configuration.vi - rscmwts Configure Physical General Switch Point.vi - rscmwts Configure Connection HSPA Data Pattern.vi - rscmwts Query UE Capabilities HSDPA.vi - HSDPA Measurement * Updated: <ul style="list-style-type: none"> - rscmwts Configure Physical UL PRACH Settings.vi - rscmwts Configure HSDPA RMC Category.vi
3.5.100	03/2015	Update for firmware version 3.5.10 * Help improvements * Updated <ul style="list-style-type: none"> - rscmwts Query Signal Routing.vi - rscmwts Configure Network Cell Reselection.vi
3.2.700	12/2014	* Express VI version 2.5.0
3.2.500	06/2014	* Update for firmware version 3.2.50 * New features <ul style="list-style-type: none"> - RF frequency offset - AWGN interferer - TDD switching point - UL/DL DPCH timeslot in test mode - Second PICH channel - P-CCPCH Tx power level - UpPCH shift - TPC extension, TPC test step BC, DE, FG - Handover extension- Baton handover, Handover mobility mode. - Timer and constant extension - Synchronization Offset - Additional data rates for SRB connections * New <ul style="list-style-type: none"> - rscmwts Configure Data End To End State.vi - rscmwts Configure RF Signal Cell Fading External Scenario.vi

rscmwts driver for TD-SCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwts Configure RF Signal External Delay Compensation.vi - rscmwts Configure RF Signal Frequency Offset.vi - rscmwts Configure RF Signal Power Downlink AWGN.vi - rscmwts Configure RF Signal IQ Input Settings.vi - rscmwts Query RF Signal IQ Output Settings.vi - rscmwts Configure Physical DL OCNS.vi - rscmwts Configure Physical DL Channelization Codes Enhanced.vi - rscmwts Configure Physical DL Channelization Code Lists Length.vi - rscmwts Configure Physical DL Channel Table FPACH Timeslot.vi - rscmwts Configure Physical DL Channel Table DPCH Timeslot.vi - rscmwts Configure Physical DL PCCPCH Tx Power.vi - rscmwts Configure Physical UL DPCH Timeslot.vi - rscmwts Configure Physical UL UpPCHS hifting.vi - rscmwts Configure Physical UL TPC Target Power.vi - rscmwts Configure Physical UL TPC Precondition.vi - rscmwts Configure Physical UL TPC Execute.vi - rscmwts Configure Physical UL TPC Step Settings.vi - rscmwts QueryPhyssical UL TPC State.vi - rscmwts Configure Connection Test Mode RMC Data Rate.vi - rscmwts Configure Connection Packet Data Rate.vi - rscmwts Configure Network Handover Type.vi - rscmwts Configure Network Cell Reselection Time Hysteresis.vi - rscmwts Configure Network Cell Reselection Signal Level.vi - rscmwts Configure Network Timeout.vi - rscmwts Configure Network UE N315.vi - rscmwts Configure Network UE DRX Cycle Length Coefficient.vi - rscmwts Configure Network TDSCDMA TDD Neighbor Cell List.vi - rscmwts Configure Network GSM Neighbor Cell List.vi - rscmwts Configure Network LTE Neighbor Cell Threshold High.vi - rscmwts Configure Network Entry LTE Neighbor Cell.vi - rscmwts Configure Network Synchronization Setttings.vi - rscmwts Configure UE Measurement Report UTRA TDD Neighbor Cell.vi - rscmwts Query UE Measurement Report UTRA TDD Neighbor Cell.vi - rscmwts Configure UE Measurement Report LTE Neighbor Cell.vi - rscmwts Query UE Measurement Report LTE Neighbor Cell.vi - rscmwts Configure UE Measurement Report GSM Neighbor Cell.vi - rscmwts Query UE Measurement Report GSM Neighbor Cell.vi - rscmwts Configure Signaling Packet Switched State.vi - rscmwts Query Signaling Packet Switched State.vi - rscmwts Configure Handover Mobility Mode.vi - rscmwts ReadPhyssical DL Channelization Code.vi * Updated - rscmwts Query Signal Routing.vi - rscmwts Query Active Scenario.vi - rscmwts Configure Physical ULUpPCH Settings.vi - rscmwts Configure Physical UL TPC Settings.vi - rscmwts Configure Connection Settings.vi - rscmwts Configure Network UEN313.vi - rscmwts Configure HandoverTarget.vi - rscmwts Query UE Measurement Report.vi - Help updated. - rscmwts Configure Message Monitoring.vi - Help updated. - rscmwts Configure Internal Outgoing SMS.vi - Help updated. - rscmwts Configure BER Measurement Control Settings.vi - Help updated.

rscmwts driver for TD-SCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.2.100	10/2013	* Initial release for firmware version 3.2.10

24 RScmwWM - WCDMA Measurement (3.7.100)

rscmwwm driver for WCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.100	03/2018	<ul style="list-style-type: none"> * Update for firmware version 3.7.10 * rscmwwm Initialize.vi, rscmwwm Initialize with Options.vi, rscmwwm Close.vi and Utility VIs have new VI icons * Added: <ul style="list-style-type: none"> - rscmwwm Configure TPC Power Step Exceptional Limit.vi
3.5.500	03/2017	<ul style="list-style-type: none"> * Update for firmware version 3.5.50 * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagram * Added features: <ul style="list-style-type: none"> - Out-Of-Sync Handling Measurement subsystem * Added: <ul style="list-style-type: none"> - rscmwwm Configure Error Checking.vi
3.5.400	10/2016	<ul style="list-style-type: none"> * Update for firmware version 3.5.400 * Added: <ul style="list-style-type: none"> - rscmwwm Clear Status.vi - rscmwwm ID Query Response.vi - rscmwwm Process All Previous Commands.vi - rscmwwm Query OPC.vi - rscmwwm Bin Data From File To Instrument.vi - rscmwwm Bin Data To File From Instrument.vi
3.5.200	10/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.200 * Added functions <ul style="list-style-type: none"> - Configure UE Channel Beta Spreading Factor Selection.vi - Configure DPCCH OLP Measurement Timeout.vi - Configure DPCCH OLP Measurement Control.vi - Configure DPCCH OLP Measurement Trigger.vi - Configure DPCCH OLP Measurement Trigger Timeout State.vi - Query DPCCH OLP Measurement Trigger Source Catalog.vi - DPCCH OLP Measurement Init.vi - DPCCH OLP Measurement Abort.vi - DPCCH OLP Measurement Stop.vi - Query DPCCH OLP Measurement Status.vi - Read DPCCH OLP UE Power Ramp Up.vi - Fetch DPCCH OLP UE Power Ramp Up.vi - Read DPCCH OLP Results.vi - Fetch DPCCH OLP Results.vi - Query DPCCH OLP Limit Check Results.vi * Modified: <ul style="list-style-type: none"> - Configure UE Signal.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.100 * Help improvements

rscmwwm driver for WCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<ul style="list-style-type: none"> * Modified: - rscmwwm Configure Analyzer Stand Alone Scenario.vi - rscmwwm Query Analyzer Routing Settings.vi
3.2.800	12/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.800 * Express VI version 2.5.0 * Added functions/attributes: - rscmwwm Configure TPC DHIB.vi - rscmwwm Read TPC DHIB.vi - rscmwwm Fetch TPC DHIB.vi - rscmwwm Query TPC DHIB Limit Check Results.vi - rscmwwm Read TPC DHIB Statistics.vi - rscmwwm Fetch TPC DHIB Statistics.vi
3.2.700	04/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * Added functions/attributes: - rscmwwm Configure Dual Carrier Separation.vi - rscmwwm Select Multi Eval Uplink Carrier.vi - rscmwwm Fetch Multi Eval List Mode Phase Discontinuity.vi - rscmwwm Fetch Multi Eval List Mode UE Power.vi - rscmwwm Query TPC UL Compressed Mode Measurement Length.vi - rscmwwm Configure TPC UL Compressed Mode Auto Execute.vi - rscmwwm Read TPC UE Power Results All Carriers.vi - rscmwwm Fetch TPC UE Power Results All Carriers.vi - rscmwwm Read TPC UE Power Statistics All Carriers.vi - rscmwwm Fetch TPC UE Power Statistics All Carriers.vi - rscmwwm Read TPC UE Power Trace All Carriers.vi - rscmwwm Fetch TPC UE Power Trace All Carriers.vi - rscmwwm Query TPC UE Power Trace Limit Check Results.vi - rscmwwm Query TPC Power Steps Trace Limit Check Results.vi * Modified: - rscmwwm Configure Analyzer.vi - rscmwwm Configure Analyzer Channel.vi - rscmwwm Configure UESignal.vi - rscmwwm Configure UE Channel DPCH.vi - rscmwwm Configure UE Channel DPDCH.vi - rscmwwm Configure UE Channel HS-DPCCH.vi - rscmwwm Configure UE Channel E-DPCCH.vi - rscmwwm Configure UE Channel E-DPDCH.vi - rscmwwm Configure Multi Eval Limits DPCCH.vi - rscmwwm Configure Multi Eval Limits DPDCH.vi - rscmwwm Configure Multi Eval Limits HS-DPCCH.vi - rscmwwm Configure Multi Eval Limits E-DPCCH.vi - rscmwwm Configure Multi Eval Limits E-DPDCH.vi - rscmwwm Configure Multi Eval Limits HS-DPCCH Power Step.vi - rscmwwm Read Multi Eval EVM Trace.vi - rscmwwm Fetch Multi Eval EVM Trace.vi - rscmwwm Read Multi Eval EVM Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval EVM Standard Deviation Trace.vi - rscmwwm Read Multi Eval Magnitude Error Trace.vi - rscmwwm Fetch Multi Eval Magnitude Error Trace.vi - rscmwwm Read Multi Eval Magnitude Error Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval Magnitude Error Standard Deviation Trace.vi - rscmwwm Read Multi Eval Phase Error Trace.vi - rscmwwm Fetch Multi Eval Phase Error Trace.vi

rscmwwm driver for WCDMA Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwwm Read Multi Eval Phase Error Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval Phase Error Standard Deviation Trace.vi - rscmwwm Read Multi Eval Frequency Error Trace.vi - rscmwwm Fetch Multi Eval Frequency Error Trace.vi - rscmwwm Read Multi Eval Frequency Error Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval Frequency Error Standard Deviation Trace.vi - rscmwwm Read Multi Eval UE Power Trace.vi - rscmwwm Fetch Multi Eval UE Power Trace.vi - rscmwwm Read Multi Eval UE Power Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval UE Power Standard Deviation Trace.vi - rscmwwm Read Multi Eval UE Power Step Trace.vi - rscmwwm Fetch Multi Eval UE Power Step Trace.vi - rscmwwm Read Multi Eval UE Power Step Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval UE Power Step Standard Deviation Trace.vi - rscmwwm Read Multi Eval Code Domain Slot Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot Trace.vi - rscmwwm Read Multi Eval Code Domain Slot Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot Standard Deviation Trace.vi - rscmwwm Read Multi Eval Code Domain Slot SF Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot SF Trace.vi - rscmwwm Read Multi Eval Code Domain Slot E-DPDCH Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot E-DPDCH Trace.vi - rscmwwm Read Multi Eval Code Domain Slot E-DPDCH Standard Deviation Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot E-DPDCH Standard Deviation Trace.vi - rscmwwm Read Multi Eval Code Domain Slot E-DPDCH SF Trace.vi - rscmwwm Fetch Multi Eval Code Domain Slot E-DPDCH SF Trace.vi - rscmwwm Read Multi Eval Code Domain Slot Results.vi - rscmwwm Fetch Multi Eval Code Domain Slot Results.vi - rscmwwm QueryMulti Eval Code Domain Slot Limit Check Results.vi - rscmwwm Read Multi Eval Code Domain Slot Standard Deviation.vi - rscmwwm Fetch Multi Eval Code Domain Slot Standard Deviation.vi - rscmwwm Read Multi Eval Code Slot Overall Channel Info.vi - rscmwwm Fetch Multi Eval Code Slot Overall Channel Info.vi - rscmwwm Read Multi Eval Modulation Results.vi - rscmwwm Fetch Multi Eval Modulation Results.vi - rscmwwm Query Multi Eval Modulation Limit Check Results.vi - rscmwwm Read Multi Eval Modulation Standard Deviation.vi - rscmwwm Fetch Multi Eval Modulation Standard Deviation.vi - rscmwwm Query TPC Measurement Mode.vi - rscmwwm Read TPC UE Power Results.vi - rscmwwm Fetch TPC UE Power Results.vi - rscmwwm Query TPC UE Power Limit Check Results.vi - rscmwwm Read TPC UE Power Statistics.vi - rscmwwm Fetch TPC UE Power Statistics.vi - rscmwwm Read TPC UE Power Trace.vi - rscmwwm Fetch TPC UE Power Trace.vi - rscmwwm Read TPC Power Steps Results.vi - rscmwwm Fetch TPC Power Steps Results.vi - rscmwwm Query TPC Power Steps Limit Check Results.vi - rscmwwm Read TPC Power Steps Statistics.vi - rscmwwm Fetch TPC Power Steps Statistics.vi - rscmwwm Read TPC Power Steps Trace.vi - rscmwwm Fetch TPC Power Steps Trace.vi

rscmwwm driver for WCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		- rscmwwm Configure PRACH Measurement Scrambling Code.vi
3.2.100	08/2013	<p>* Update for firmware version 3.2.100</p> <p>* Modified:</p> <ul style="list-style-type: none"> - rscmwwm Configure Analyzer Stand Alone Scenario.vi - RX3, RX4 - rscmwwm Query Analyzer Routing Settings.vi - RX3, RX4 - rscmwwm Configure UE Signal - Uplink Signal Configuration.vi - HDUP, DCHS, DDUP - rscmwwm Configure MEvalMeas Setup Segment.vi - Segment 1 - 1000 - rscmwwm Configure Multi Eval Measurement Segment Modulation.vi - Segment 1 - 1000 - rscmwwm Configure Multi Eval Measurement Segment Spectrum.vi - Segment 1 - 1000 - rscmwwm Configure Multi Eval Measurement Segment CDP.vi - Segment 1 - 1000 - rscmwwm Configure Multi Eval Measurement Segment UE Power.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Code Domain Power.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Code Domain Power Standard Deviation.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Spectrum.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Modulation.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Modulation Standard Deviation.vi - Segment 1 - 1000 - rscmwwm Fetch Multi Eval Measurement List Mode Peak Code Domain Error.vi - Segment 1 - 1000 - rscmwwm Query TPC Measurement Mode.vi - MPDECH, CFTC added - rscmwwm Configure TPC Measurement Setup.vi - MPDECH, CFTC added - rscmwwm Read TPC Power Steps Results.vi - More results - rscmwwm Fetch TPC Power Steps Results.vi - More results - rscmwwm Query TPC Power Steps Limit Check Results.vi - More results - rscmwwm Read TPC Power Steps Statistics.vi - More results - rscmwwm Fetch TPC Power Steps Statistics.vi - More results <p>* Added:</p> <ul style="list-style-type: none"> - rscmwwm Configure UEChannel DPCCH.vi - rscmwwm Configure UEChannel DPDCH.vi - rscmwwm Configure UEChannel HSDPCCH.vi - rscmwwm Configure UEChannel EDPCCCH.vi - rscmwwm Configure UEChannel EDPDCH.vi - rscmwwm Configure Multi Eval Measurement Segment PHD.vi - rscmwwm Configure TPC Measurement Setup.vi - rscmwwm Configure PRACH Measurement Modulation Rotation.vi
3.0.200	04/2013	<p>* Update for firmware version 3.0.20</p> <p>* Added features:</p> <ul style="list-style-type: none"> - PRACH Measurement subsystem <p>* Modified:</p> <ul style="list-style-type: none"> - rscmwwm Read Multi Eval Measurement Spectrum Trace.vi - result array - rscmwwm Fetch Multi Eval Measurement Spectrum Trace.vi - result array - rscmwwm Query Multi Eval Measurement Spectrum Trace Error Codes Limit Check Results.vi - result array - rscmwwm Read TPC Power Steps Results.vi - ranges - rscmwwm Fetch TPC Power Steps Results.vi - ranges <p>* Added:</p> <ul style="list-style-type: none"> - rscmwwm Fetch Multi Eval Measurement Phase Slot Discontinuity.vi - rscmwwm Fetch Multi Eval Measurement List Mode All Reliability Results.vi - rscmwwm Configure TPC EDCH Measurement Length.vi - rscmwwm Configure TPC TFC Number Of Steps.vi - rscmwwm Query TPC Change Of TFC.vi - rscmwwm Configure TPC Maximum Power EDCH Limits.vi

rscmwwm driver for WCDMA Measurement**Driver history for LabVIEW driver****Instruments: CMW500, CMW100**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwwm Configure TPC Change Of TFC Limits.vi - rscmwwm Query TPC UE Power Limit Check Results.vi - rscmwwm Query TPC Power Steps Limit Check Results.vi
3.0.120	06/2012	<ul style="list-style-type: none"> * Update for firmware version 3.0.10 * Added features: <ul style="list-style-type: none"> - Added functions for reading all list mode segments result of individual measurement * Added <ul style="list-style-type: none"> - rscmwwm Configure Analyzer Measure Protocol Scenario Application - rscmwwm Configure TPC Measurement Trigger Timeout State - rscmwwm Configure Multi Eval Measurement Trigger Timeout State * Modified <ul style="list-style-type: none"> - rscmwwm Configure Multi Eval Measurement Segment Code Domain Power.vi - array of measurement state is now restricted to 3 elements - rscmwwm Configure Multi Eval Measurement Segment Modulation.vi - array of measurement state is now restricted to 6 elements - rscmwwm Configure Multi Eval Measurement Segment Spectrum.vi - array of measurement state is now restricted to 3 elements - rscmwwm Fetch Multi Eval List Mode All Code Domain Power Standard Deviation.vi - added waiting for operation complete (OPC) and correct response to invalid results (returns -inf instead of 0): <ul style="list-style-type: none"> - rscmwwm Fetch Multi Eval List Mode All Code Domain Power.vi - rscmwwm Fetch Multi Eval List Mode All Modulation Standard Deviation.vi - rscmwwm Fetch Multi Eval List Mode All Modulation.vi - rscmwwm Fetch Multi Eval List Mode All Peak Code Domain Error.vi - rscmwwm Fetch Multi Eval List Mode All Spectrum.vi - RSCMWWM_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT - added support for reading value of disabled timeout (returns 0) - RSCMWWM_ATTR_TPC_MEASUREMENT_TRIGGER_TIMEOUT - added support for reading value of disabled timeout (returns 0)
2.1.201	02/2012	<ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.200	08/2011	<p>Release for CMW firmware version 2.1.20.x</p> <ul style="list-style-type: none"> * Added features: <ul style="list-style-type: none"> - TPC Measurement subsystem * Modified <ul style="list-style-type: none"> - rscmwwm_ConfigureMEvalLimitsHSDPCCH - Added attribute - RSCMWWM_ATTR_MULTI_EVAL_MEASUREMENT_HSDPCCH_TYPE
2.1.100	07/2011	<p>Release for CMW firmware version 2.1.10.xx</p> <ul style="list-style-type: none"> * Modified <ul style="list-style-type: none"> - rscmwwm Configure Multi Eval Measurement Setup Segment.vi - Restriger added, Enhanced for inactive segments <ul style="list-style-type: none"> - rscmwwm Configure Multi Eval Measurement Modulation And CDP.vi - slot number data type changed to DBL to allow half slots * Added <ul style="list-style-type: none"> - rscmwwm_Configure Multi Eval Measurement List Mode Offset.vi - RSCMWWM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_MODE_OFFSET - rscmwwm Configure Multi Eval Measurement List Mode Trigger.vi - RSCMWWM_ATTR_MULTI_EVAL_MEASUREMENT_LIST_MODE_TRIGGER - rscmwwm Configure Multi Eval Measurement Segment UE Power.vi - RSCMWWM_ATTR_MULTI_EVAL_MEASUREMENT_SEGMENT_UE_POWER * Removed

rscmwwm driver for WCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		- rscmwwm Query Analyzer Combined Signal Path Scenario Catalog.vi
2.0.110	04/2011	Release for CMW firmware version 2.0.11.xx * Modified - rscmwwm Configure Analyzer Stand Alone Scenario.vi - command changed * Added - rscmwwm Query Analyzer Routing Settings.vi - rscmwwm Configure Multi Eval Measurement Timeout.vi
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 - Added VIs/attributes - rscmwwm Fetch Multi Eval Spectrum Emission Traces.vi - rscmwwm Read Multi Eval Spectrum Emission Traces.vi - rscmwwm Query Multi Eval Spectrum Trace Limit Check Results.vi - rscmwwm Fetch Multi Eval Spectrum Results.vi - rscmwwm Fetch Multi Eval Spectrum Single Result.vi - rscmwwm Fetch Multi Eval Spectrum Emission 30kHz Result.vi - rscmwwm Fetch Multi Eval Spectrum Emission 1MHz Result.vi - rscmwwm Query Multi Eval Modulation Limit Check Results.vi - rscmwwm Query Multi Eval Modulation Phase Discontinuity Limit Check Results.vi - rscmwwm Query Multi Eval Modulation High Speed Phase Discontinuity Limit Check Results.vi - rscmwwm Fetch Multi Eval IQ Constellation Results.vi - rscmwwm Read Multi Eval IQ Constellation Results.vi - rscmwwm Configure Multi Eval Synchronization Slot.vi - rscmwwm Configure Multi Eval Routing Scenario.vi - rscmwwm Fetch Multi Eval UE Slot Power.vi - rscmwwm Configure Calculation UE Power Result.vi - Modified VIs/attributes - rscmwwm Configure Multi Eval Measurement Results.vi - rscmwwm Configure Multi Eval Measurement Results All.vi - rscmwwm Configure Multi Eval Limits Error Vector Magnitude.vi - rscmwwm Configure Multi Eval Limits Magnitude Error.vi - rscmwwm Configure Multi Eval Limits Phase Error.vi - rscmwwm Configure Multi Eval Limits IQ Offset.vi - rscmwwm Configure Multi Eval Limits IQ Imbalance.vi - rscmwwm Fetch Multi Eval List Mode All Code Domain Power.vi - rscmwwm Configure Multi Eval Measurement Parameters.vi - rscmwwm Configure Multi Eval Measurement Trigger.vi - rscmwwm Query Multi Eval Measurement Trigger Source Catalog.vi - rscmwwm Configure UE Signal.vi
1.0.50	12/2008	Release for CMW firmware version 1.0.53 - Added features: - List Mode - Modified functions/attributes: - RSCMWWW_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_THRESHOLD - changed command - rscmwwm Configure Multi Eval Measurement Trigger.vi - added Minimum Gap argument
1.0.41	08/2008	Release for CMW firmware version 1.0.4 WCDMA generator moved to standalone driver rscmwwg

rscmwwm driver for WCDMA Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
		<p>Modified functions/attributes:</p> <ul style="list-style-type: none"> - RSCMWWW_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE - complete redesign - RSCMWWW_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SLOPE - changed command - RSCMWWW_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_THRESHOLD - changed command - RSCMWWW_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_TIMEOUT - changed command - rscmwwm Configure Multi Eval Measurement Trigger.vi - redesign, see above <p>New functions/attributes:</p> <ul style="list-style-type: none"> - RSCMWWW_ATTR_ANALYZER_BAND_CLASS - RSCMWWW_ATTR_ANALYZER_CHANNEL - rscmwwm Configure Analyzer Channel.vi - rscmwwm Query Multi Eval Measurement Trigger Source Catalog.vi
1.0.40	07/2008	<p>New functions/attributes:</p> <ul style="list-style-type: none"> - GPRF Generator subsystem - Multi Evaluation Measurement List Mode subsystem - rscmwgm Fetch Multi Eval Measurement Modulation Percentile.vi - rscmwgm Fetch Multi Eval Measurement Modulation Standard Deviation.vi - rscmwgm Read Multi Eval Measurement Modulation Percentile.vi - rscmwgm Read Multi Eval Measurement Modulation Standard Deviation.vi
1.0.30	05/2008	<p>Release for CMW firmware version 1.0.3</p> <p>Initial revision</p>

25 RScmwWG - WCDMA Generator (3.2.100)

rscmwwg driver for WCDMA Generator		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW280		
Revision	Date	Note
3.2.100	08/2013	Update for firmware version 3.2.100 * Modified functions/attributes: - rscmwwg Configure Stand Alone Scenario.vi - TX2, TX3 - rscmwwg Query Generator Signal Routing.vi - TX2, TX3
2.1.101	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.100	12/2011	Release for CMW firmware version 2.1.10.0 * Added functions/attributes - rscmwwg Configure Generator Signal Scenario.vi - rscmwwg Query Routing Settings.vi - rscmwwg Configure Generator TPC Segmentation State.vi - rscmwwg Configure Generator TPC Pattern Length.vi * Modified functions/attributes: - rscmwwg Configure Generator Signal Routing.vi - Connector control, command and attribute are canceled and the function is modified to: - rscmwwg Configure Generator Signal External Attenuation.vi
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Added VIs/attributes - rscmwwg Configure Channel Level Code Numbers R99 HSPA.vi - rscmwwg Configure Channel Level Code Numbers R99.vi - rscmwwg Configure Channelization Code Numbers R99 HSPA.vi - rscmwwg Configure Channelization Code Numbers R99.vi - rscmwwg Query Generator Channelization Code.vi - rscmwwg Query Generator TPC State.vi - rscmwwg Query Generator Transmitting Type Cell.vi
1.0.40	08/2008	Release for CMW firmware version 1.0.4 Initial revision

26 RScmWWS - WCDMA Signaling (3.7.220)

rscmwws driver for WCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.220	06/2019	<ul style="list-style-type: none"> * Update for firmware 3.7.22 * New core 3.5.0 * New VI's/attributes: <ul style="list-style-type: none"> - RSCMWWWS_ATTR_CONNECTION_CS_CALL_RELEASE - RSCMWWWS_ATTR_NETWORK_REJECT_CM_SERVICE_REQUEST_CAUSE - RSCMWWWS_ATTR_NETWORK_REJECT_CM_SERVICE_REQUEST_TYPE - RSCMWWWS_ATTR_NETWORK_UI_IDENTITY_IMSI_FILTER - RSCMWWWS_ATTR_QUERY_CONNECTION_ATTEMPTS - RSCMWWWS_ATTR_QUERY_CONNECTION_REJECTS - RSCMWWWS_ATTR_RESET_CONNECTION_ATTEMPTS - RSCMWWWS_ATTR_RESET_CONNECTION_REJECTS - RSCMWWWS_ATTR_SMS_OUTGOING_ENABLE_USER_DATA_HEADER - RSCMWWWS_ATTR_SMS_OUTGOING_USER_DATA_HEADER - rscmwws Query Connection Counters.vi - rscmwws Reset Connection Counters.vi - rscmwws Configure CM Service Request Rejection.vi - rscmwws Configure SMS Outgoing User Data Header.vi - rscmwws Configure UE IMSI Filter.vi - rscmwws Configure CS Call Release.vi <ul style="list-style-type: none"> * Updated VI's/attributes: <ul style="list-style-type: none"> - RSCMWWWS_ATTR_NETWORK_SYNC_ZONE: Default value corrected - rscmwws Query UE Capability Downlink.vi: 21 values returned.vi - rscmwws Query UE Capability Uplink.vi: 18 values returned.vi - rscmwws Query UE Capability Radio Access Technology.vi: 21 values returned - rscmwws Query UE Capability General.vi: 26 values returned - rscmwws Query UE Capability HSDPA.vi: 17 values returned - rscmwws Query UE Capability Additional Measurement Parameters.vi: 14 values returned - rscmwws Query SMS Outgoing Message File Info.vi: Teleservice identifier now reserved for future use - rscmwws Query SMS Incoming Message File Info.vi: Teleservice identifier now reserved for future use
3.7.100	01/2018	<ul style="list-style-type: none"> * Update for firmware 3.7.10 * New: <ul style="list-style-type: none"> - rscmwws Configure RF Signal Dual Carrier Flexible Scenario.vi - rscmwws Configure RF Signal Dual Carrier Fading Internal Scenario.vi - rscmwws Configure RF Signal Dual Carrier Fading External Scenario.vi - rscmwws Configure RF Signal Dual Carrier RX Diversity Fading Internal Scenario.vi - rscmwws Configure RF Signal Dual Carrier RX Diversity Fading External Scenario.vi - rscmwws Configure RF Signal Dual Carrier HSPA Scenario Flexible.vi - rscmwws Configure RF Signal 3C HSPA Scenario Flexible.vi - rscmwws Configure RF Signal Dual Band Fading Internal Scenario.vi - rscmwws Configure RF Signal Dual Band Fading External Scenario.vi - rscmwws Configure RF Signal Dual Band RX Diversity Fading Internal Scenario.vi - rscmwws Configure RF Signal Dual Band RX Diversity Fading External Scenario.vi - rscmwws Configure RF Signal Standard Cell Scenario.vi - rscmwws Configure RF Signal Standard Cell Fading Internal Scenario.vi - rscmwws Configure RF Signal Standard Cell Fading External Scenario.vi - rscmwws Configure RF Signal Standard Cell RX Diversity Fading Internal Scenario.vi - rscmwws Configure RF Signal Standard Cell RX Diversity Fading External Scenario.vi

rscmwws driver for WCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Query UE Capability CMW Voice Info.vi - rscmwws Query UE Capability IMS Voice.vi - rscmwws Query UE Capability Additional Measurement Parameters.vi - rscmwws Query UE Capability RF Band.vi - rscmwws Query UE Capability RF Band Non Contig Multi Cell.vi - rscmwws Query UE Capability RF Band Combination.vi - rscmwws Query UE Capability RF Band Combination List.vi * Updated: - rscmwws Initialize.vi, rscmwws Initialize with Options.vi, rscmwws Close.vi and Utility VIs have new VI icons - rscmwws Configure SMS Outgoing Message Settings.vi - added values for Data Coding and Coding Group - rscmwws Query UE Capability General.vi - updated Results parameter - rscmwws Query UE Capability HSDPA.vi - updated Results parameter - rscmwws Query UE Capability HSUPA.vi - updated Results parameter - rscmwws Query UE Capability Radio Access Technology.vi - updated Radio Access Technology parameter - rscmwws Configure RF Signal Band Definition.vi - range fixed at UL/DL Separation parameter
3.5.500	03/2017	<ul style="list-style-type: none"> * Update for firmware 3.5.500 * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color to blue for measurement drivers and orange for signaling drivers * Changed Palette Icons * Cleaned up all the Front Panels and Block Diagrams * New: - rscmwws Configure Gmm Routing Area Update Reject Cause.vi - rscmwws Configure Requested UE Data Radio Capability Update Requirement.vi - rscmwws Configure Local Time Zone Offset.vi - rscmwws Configure Packet Data ROHC.vi - rscmwws Configure RF Signal Band Definition.vi - rscmwws Query RF Signal Band Definition Calculated Values.vi - rscmwws Read HSDPA Subframe Code Trace.vi - rscmwws Fetch HSDPA Subframe Code Trace.vi - rscmwws Read HSDPA Subframe Modulation Trace.vi - rscmwws Fetch HSDPA Subframe Modulation Trace.vi - rscmwws Read HSDPA Subframe Transport Block Size Trace.vi - rscmwws Fetch HSDPA Subframe Transport Block Size Trace.vi - rscmwws Query RF Signal Routing Extended.vi - rscmwws Query ERGCH E-TFCI Table Auto.vi - rscmwws Configure ERGCH Measurement Timeout.vi - rscmwws Configure EAGCH Measurement Control.vi - rscmwws Configure EAGCH Measurement Timeout.vi - rscmwws Configure EAGCH Measurement Limit.vi - rscmwws Configure EAGCH E-TFCI Measurement.vi - rscmwws Configure EAGCH E-TFCI Table Manual.vi - rscmwws Query EAGCH E-TFCI Table Auto.vi - rscmwws EAGCH Measurement Init.vi - rscmwws EAGCH Measurement Abort.vi - rscmwws EAGCH Measurement Stop.vi - rscmwws Query EAGCH Measurement Status.vi - rscmwws Read EAGCH Results.vi - rscmwws Fetch EAGCH Results.vi

rscmwws driver for WCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Read EAGCH Trace.vi - rscmwws Fetch EAGCH Trace.vi - rscmwws Fetch HCQI Result State.vi - rscmwws Configure Band Indicator.vi - rscmwws Query Connection Setup.vi - rscmwws Configure Error Checking.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwws Configure RF Signal Frequency.vi - added new value to 'Band' parameter - rscmwws Configure RF Signal Center Frequency.vi - added new value to 'Band' parameter - rscmwws Configure Network Timers.vi - range changed at 'Out Of Synch' parameter - rscmwws Configure Packet Data Inactivity CELL DCH Network.vi - range reduced at 'Network Inactivity Timer' parameter - rscmwws Configure Packet Data Inactivity CELL FACH Network.vi - range reduced at 'Network Inactivity Timer' parameter - rscmwws Configure Packet Data Inactivity CELL PCH Network.vi - range reduced at 'Network Inactivity Timer' parameter - rscmwws Configure Packet Data Inactivity URA PCH Network.vi - range reduced at 'Network Inactivity Timer' parameter - rscmwws Configure LTE Neighbor Cell.vi - added new values to 'Band' parameter - rscmwws Configure LTE Neighbor Cell Measurement.vi - added new values to 'Band' parameter - rscmwws Configure WCDMA FDD Neighbor Cell.vi - added new values to 'Band' parameter - rscmwws Configure WCDMA FDD Neighbor Cell Measurement.vi - added new values to 'Band' parameter <p>parameter</p> <ul style="list-style-type: none"> - rscmwws Configure WCDMA Wizard.vi - added new value to 'WCDMA Wizard' parameter - rscmwws Configure External Handover LTE.vi - added new values to 'Band' parameter - rscmwws Configure External Handover WCDMA.vi - added new value to 'Band' parameter - rscmwws Query RF Signal Routing.vi - added new values to 'RX Connector', 'RX Converter', 'TX Connector', 'TX Converter', 'TX 2 Connector', 'TX 2 Converter', 'RF IQ Connector 1', 'RF IQ Connector 2' parameters - rscmwws Configure RF Signal Dual Carrier Internal Fading Scenario.vi - added new values to 'Fader' parameter - rscmwws Configure RF Signal Dual Carrier Internal RX Diversity Fading Scenario.vi - added new values to 'Fader' parameter - rscmwws Configure RF Signal Routing Internal Fading Scenario.vi - added new values to 'Fader' parameter - rscmwws Configure RF Signal Routing Internal RX Diversity Fading Scenario.vi - added new values to 'Fader' parameter - rscmwws Configure HSPA Settings.vi - added new values to 'Direction' parameter - rscmwws Configure Fading Simulator.vi - added new values to 'Profile' parameter - rscmwws Configure FRC H Set.vi - added new values to 'Configuration Type' parameter - rscmwws Configure HSUPA Settings.vi - added new value to 'MC Code' parameter - rscmwws Configure Physical Uplink TX Power Control.vi - added new value to 'Active TPC Setup' parameter - rscmwws Query Physical Uplink TX Power Control Setup.vi - added new value to 'Active TPC Setup' parameter, values corrected to match rscmwws ConfigurePhysicalUplinkTXPowerControl - rscmwws Query Physical Uplink TX Power Control Condition.vi - added new values to 'TPC Condition' parameter - rscmwws Query Circuit Switched State.vi - added new values to 'Connection State' parameter
3.5.400	11/2016	<p>* Update for firmware 3.5.40</p> <p>* New:</p> <ul style="list-style-type: none"> - rscmwws Clear Event Log.vi - rscmwws Query Event Log Last Entry.vi

rscmwws driver for WCDMA Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Configure Incoming IRAT HO Mobility.vi - rscmwws Configure External Handover Destination.vi - rscmwws Configure External Handover CDMA.vi - rscmwws Configure External Handover EVDO.vi - rscmwws Configure External Handover GSM.vi - rscmwws Configure External Handover LTE.vi - rscmwws Configure External Handover WCDMA.vi - rscmwws Configure Physical Downlink Channel Table DPCH RX Level Strategy.vi - rscmwws Configure Physical Downlink Channel Table DPCH Sequence.vi - rscmwws Activate Physical Downlink Channel Table DPCH Sequence.vi - rscmwws Query Physical Downlink Channel Table DPCH Sequence State.vi - rscmwws Configure Physical Uplink Gain Factors E-DPCH Power Formula.vi - rscmwws Configure Voice Connection TFCL.vi - rscmwws Configure RMC Domain.vi - rscmwws Configure RMC BTFD DL DTCH Transport Format.vi - rscmwws Configure Packet Data Inactivity Settings Network.vi - rscmwws Configure Packet Data Inactivity CELL DCH Network.vi - rscmwws Configure Packet Data Inactivity CELL DCH UE Fast Dormancy.vi - rscmwws Configure Packet Data Inactivity CELL FACH Network.vi - rscmwws Configure Packet Data Inactivity CELL PCH Network.vi - rscmwws Configure Packet Data Inactivity URA PCH Network.vi - rscmwws Configure Max Release Version.vi - rscmwws Configure Network MOC Alerting Timeout.vi - rscmwws Configure RRC Reject Causes.vi - rscmwws Configure GSM Neighbor Cell BSIC.vi - rscmwws Query UE Measurement Report Carrier UTRA FDD.vi - rscmwws Query UE Info RRC Protocol State.vi - rscmwws Configure SMS Outgoing Message Source.vi - rscmwws Configure SMS Outgoing Message File.vi - rscmwws Query SMS Outgoing Message File Info.vi - rscmwws Configure SMS Incoming Message File.vi - rscmwws Query SMS Incoming Message File Info.vi - rscmwws Query Last SMS Sent Status.vi - rscmwws Configure CBS Message Source.vi - rscmwws Configure CBS Message Language.vi - rscmwws Query CBS Message Coding Group.vi - rscmwws Configure CBS Message ETWS.vi - rscmwws Configure CBS Message File.vi - rscmwws Query CBS Message File Info.vi - rscmwws Configure HSDPA Measurement Average Mode.vi - rscmwws Configure EHICH Measurement Average Mode.vi - rscmwws ID Query Response.vi - rscmwws Query OPC.vi - rscmwws Process All Previous Commands.vi - rscmwws Clear Status.vi - rscmwws Bin Data From File To Instrument.vi - rscmwws Bin Data To File From Instrument.vi - _rscmwws Clear Before Read.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwws Configure RF Signal Frequency.vi - rscmwws Configure RF Signal Frequency DB DC HSDPA.vi - rscmwws Query Fading Module AWGN Signal Noise Ratio.vi

rscmwws driver for WCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Query Event Log.vi - rscmwws Configure Handover Mode.vi - rscmwws Configure Voice Connection Settings.vi - rscmwws Configure Test Mode.vi - rscmwws Configure Network Identity.vi - rscmwws Query UE Measurement Report Second Carrier UTRA FDD.vi - rscmwws Query UE Info IP Address.vi - rscmwws Query UE Capability Uplink.vi - rscmwws Query UE Capability RF.vi - rscmwws Query UE Capability Measurement Related GSM Compressed Mode.vi - rscmwws Query UE Capability Measurement Related LTE Compressed Mode.vi - rscmwws Query UE Capability Measurement Related WCDMA Compressed Mode.vi - rscmwws Configure CBS Message.vi - rscmwws Error Query.vi - _rscmwws_check_error.vi <p>* Deleted:</p> <ul style="list-style-type: none"> - Configure Packet Data Inactivity.vi - Configure Network Time Inactivity.vi
3.5.200	10/2015	<p>* Update for firmware 3.5.20</p> <p>* New:</p> <ul style="list-style-type: none"> - rscmwws Configure RF Signal Dual Carrier Band External Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier Band Internal Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier Band External RX Diversity Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier Band Internal RX Diversity Fading Scenario.vi - rscmwws Configure RF Signal Multi Carriers HSPA Scenario.vi - rscmwws Query RF Signal Scenario.vi - rscmwws Configure Multi Carrier HS-SCCH Order.vi - rscmwws Activate Multi Carrier HS-SCCH Order.vi - rscmwws Query Multi Carrier HS-SCCH Order.vi - rscmwws Configure WCDMA Wizard ERGCH.vi - rscmwws Configure Physical Downlink Channel Table DPCH Range.vi - rscmwws Query Physical Downlink Channel Table DPCH Level.vi - rscmwws Configure Physical Downlink Channel Table DPCH F-DPCH Slot Format.vi - rscmwws Configure Physical Downlink Channel Power Control Mode.vi - rscmwws Configure Physical Downlink Channel Power Control Settings.vi - rscmwws Configure Physical Uplink TX Power Control Target Power Offset.vi - rscmwws Configure Packet Data Inactivity.vi - rscmwws Configure Security Ciphering.vi - rscmwws Configure Network Time Inactivity.vi - rscmwws Configure UE Timer T323.vi - rscmwws Configure CQI Carrier Enable.vi - rscmwws Configure CQI Conformance Test Mode.vi - rscmwws Configure User Carrier Enable.vi - rscmwws Configure HSUPA Carrier Enable.vi - rscmwws Configure HS-SCCH Less Operation.vi - rscmwws Configure HS-SCCH Less Operation Transport Block Size Settings.vi - rscmwws Configure SMS Outgoing Protocol Identifier.vi - rscmwws Configure CBS Message Data Coding Scheme.vi - rscmwws Configure ERGCH Measurement.vi - rscmwws Configure ERGCH Limit.vi - rscmwws Configure ERGCH E-TFCI Measurement.vi - rscmwws Configure ERGCH E-TFCI Table Manual.vi

rscmwws driver for WCDMA Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws ERGCH MeasurementInit - rscmwws ERGCH MeasurementAbort - rscmwws ERGCH MeasurementStop - rscmwws Query ERGCH MeasurementStatus - rscmwws Read ERGCH Results.vi - rscmwws Fetch ERGCH Results.vi <p>* Updated:</p> <ul style="list-style-type: none"> - rscmwws Query RF Signal Routing.vi - rscmwws Configure RF Signal Attenuation.vi - rscmwws Configure RF Signal External Delay Compensation.vi - rscmwws Configure RF Signal Frequency.vi - rscmwws Configure RF Signal Center Frequency.vi - rscmwws Configure RF Signal Frequency Offset.vi - rscmwws Configure RF Signal Power Downlink.vi - rscmwws Configure RF Signal Power Downlink AWGN Noise.vi - rscmwws Query RF Signal Output Channel Power Ratio.vi - rscmwws Query RF Signal Downlink Total Output Power.vi - rscmwws Configure IQ In.vi - rscmwws Query IQ Out.vi - rscmwws Query Fading Simulator Clipping Counter.vi - rscmwws Query DL Power Settings.vi - rscmwws Configure Fading Module AWGN.vi - rscmwws Query Fading Module AWGN Signal Noise Ratio.vi - rscmwws Query Connection Status.vi - rscmwws Configure WCDMA Wizard.vi - rscmwws Query Physical Downlink Accumulated Power.vi - rscmwws Configure Physical Downlink OCNS Type.vi - rscmwws Query Physical Downlink OCNS.vi - rscmwws Query Physical Downlink Code Conflict.vi - rscmwws Configure Physical Downlink Channel Table Level.vi - rscmwws Query Physical Downlink Channel Table Code P-CPICH.vi - rscmwws Configure Physical Downlink Channel Table P-CPICH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HS-PDSCH.vi - rscmwws Configure Physical Downlink Channel Table HS-PDSCH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HS-SCCH.vi - rscmwws Configure Physical Downlink Channel Table HS-SCCH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HSUPA Level.vi - rscmwws Configure Physical Downlink Channel Table HSUPA Code.vi - rscmwws Configure Primary Scrambling Code.vi - rscmwws Configure UE Category.vi - rscmwws Configure FRC H Set.vi - rscmwws Configure CQI Table.vi - rscmwws Configure User Inter TTI Distance.vi - rscmwws Configure User Transport Block Size Index.vi - rscmwws Configure User Physical Channel Codes Count.vi - rscmwws Configure HSUPA E-TFCL.vi - rscmwws Configure HSUPA EAGCH UE Id.vi - rscmwws Configure HSUPA EAGCH AG Pattern.vi - rscmwws Configure HSUPA EAGCH AG Pattern Repetition.vi - rscmwws HSUPA EAGCH AG Pattern Execution.vi - rscmwws Configure HSUPA Fill Up Frames With Dummies.vi - rscmwws Configure HSUPA EHICH HARQ Feedback.vi

rscmwWS driver for WCDMA Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwWS Configure HSUPA ERGCH Relative Grant.vi - rscmwWS HSUPA ERGCH Pattern Execution.vi - rscmwWS Query UE Capability Measurement Related GSM Compressed Mode.vi - rscmwWS Query UE Capability Measurement Related LTE Compressed Mode.vi - rscmwWS Read HSDPA Throughput Trace.vi - rscmwWS Fetch HSDPA Throughput Trace.vi - rscmwWS Read HSDPA Throughput Absolute Results All.vi - rscmwWS Fetch HSDPA Throughput Absolute Results All.vi - rscmwWS Read HSDPA Throughput Relative Results All.vi - rscmwWS Fetch HSDPA Throughput Relative Results All.vi - rscmwWS Read HSDPA Transmissions All Results.vi - rscmwWS Fetch HSDPA Transmissions All Results.vi - rscmwWS Read HSDPA DL BLER Results.vi - rscmwWS Fetch HSDPA DL BLER Results.vi - rscmwWS Read HSDPA Median CQI Trace.vi - rscmwWS Fetch HSDPA Median CQI Trace.vi - rscmwWS Read HSDPA Median CQI Results.vi - rscmwWS Fetch HSDPA Median CQI Results.vi - rscmwWS Read EHICH Results.vi - rscmwWS Fetch EHICH Results.vi - rscmwWS Read EHICH Throughput Trace.vi - rscmwWS Fetch EHICH Throughput Trace.vi - rscmwWS Read EHICH Throughput Trace All Carriers.vi - rscmwWS Fetch EHICH Throughput Trace All Carriers.vi - rscmwWS Read EHICH Max Expected Throughput Trace.vi - rscmwWS Fetch EHICH Max Expected Throughput Trace.vi - rscmwWS Read EHICH Max Possible Throughput Trace.vi - rscmwWS Fetch EHICH Max Possible Throughput Trace.vi - rscmwWS Read UL Logging Ack Nack.vi - rscmwWS Fetch UL Logging Ack Nack.vi - rscmwWS Read UL Logging CQI.vi - rscmwWS Fetch UL Logging CQI.vi - rscmwWS Read UL Logging E-TFCI.vi - rscmwWS Fetch UL Logging E-TFCI.vi - rscmwWS Read UL Logging RSN.vi - rscmwWS Fetch UL Logging RSN.vi - rscmwWS Read UL Logging Happy Bit.vi - rscmwWS Fetch UL Logging Happy Bit.vi - rscmwWS Read UL Logging DPCCH.vi - rscmwWS Fetch UL Logging DPCCH.vi - rscmwWS Read HCQI First Stage.vi - rscmwWS Fetch HCQI First Stage.vi - rscmwWS Read HCQI BLER.vi - rscmwWS Fetch HCQI BLER.vi - rscmwWS Read HCQI DTX.vi - rscmwWS Fetch HCQI DTX.vi - rscmwWS Read HCQI Measured Subframes.vi - rscmwWS Fetch HCQI Measured Subframes.vi - rscmwWS Read HCQI Trace.vi - rscmwWS Fetch HCQI Trace.vi - rscmwWS Configure RF Signal Routing Internal Fading Scenario.vi - rscmwWS Configure RF Signal Routing Internal RX Diversity Fading Scenario.vi - rscmwWS Configure RF Signal Dual Carrier Internal Fading Scenario.vi

rscmwws driver for WCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Configure RF Signal Dual Carrier Internal RX Diversity Fading Scenario.vi - rscmwws Configure Physical Uplink DPCCH Power Offset.vi - rscmwws Configure Physical Uplink Scrambling Code.vi - rscmwws Configure Physical Uplink TX Power Control Setup Closed Loop Target Power.vi - rscmwws Configure Fading Simulator.vi - rscmwws Restart Fading Simulator.vi - rscmwws Configure Fading Simulator Insertion Loss.vi - rscmwws Configure Fading Simulator Doppler Shift.vi - rscmwws Query Fading Simulator Doppler Frequency.vi - rscmwws Configure User Modulation.vi - rscmwws Configure CQI Second Carrier State.vi - rscmwws Configure User Second Carrier State.vi - rscmwws Configure HSPA 2nd Carrier.vi - rscmwws Read HSDPA Throughput Relative Results.vi - rscmwws Fetch HSDPA Throughput Relative Results.vi - rscmwws Read HSDPA Throughput Absolute Results.vi - rscmwws Fetch HSDPA Throughput Absolute Results.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for firmware version 3.5.100 * Help improvements * Updated: - rscmwws Configure Network Synchronization.vi - rscmwws Configure UE Measurement Report Settings.vi
3.2.800	12/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.800 * Express VI version 2.5.0 * Added subsystems: - HCQI * New: - rscmwws Configure Handover Mode.vi - rscmwws Configure SMS Outgoing Date.vi - rscmwws Configure SMS Outgoing Time.vi * Updated: - rscmwws Query Packet Switched State.vi - rscmwws Query Connection Status.vi - rscmwws Configure WCDMA Wizard.vi - rscmwws Configure Physical Uplink PRACH AICH.vi - rscmwws Configure Physical Uplink TX Power Control.vi - rscmwws Configure Voice Connection.vi - rscmwws Configure HSPA Settings.vi - rscmwws Configure Reject Causes.vi - rscmwws Configure CQI Table.vi - rscmwws Configure HSPA Settings.vi - rscmwws Configure SMS Outgoing Message Settings.vi
3.2.700	05/2014	<ul style="list-style-type: none"> * Update for firmware version 3.2.700 * Added subsystems: - Compressed Mode - Messaging (CBS) * New: - rscmwws Configure Fading Simulator Doppler Shift.vi - rscmwws Read EHICH Throughput Trace All Carriers.vi - rscmwws Read EHICH Max Possible Throughput Trace.vi - rscmwws Fetch EHICH Throughput Trace All Carriers.vi - rscmwws Fetch EHICH Max Possible Throughput Trace.vi - rscmwws Read UL Logging All Results DC-HSPA.vi

rscmwws driver for WCDMA Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Fetch UL Logging All Results DC-HSPA.vi - rscmwws Configure RF Signal Routing Internal RX Diversity Fading Scenario.vi - rscmwws Configure RF Signal Routing External RX Diversity Fading Scenario.vi - rscmwws Configure RF Signal Frequency Offset.vi - rscmwws Configure RF Signal Frequency DB DC HSDPA.vi - rscmwws Configure RF Signal External Delay Compensation.vi - rscmwws Configure RF Signal Enable Speech Codec.vi - rscmwws Configure RF Signal Dual Carrier Internal RX Diversity Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier HSPA Scenario.vi - rscmwws Configure RF Signal Dual Carrier External RX Diversity Fading Scenario.vi - rscmwws Configure Compressed Mode UL CM TX Test Pattern.vi - rscmwws Configure Compressed Mode UE Report Pattern.vi - rscmwws Configure Compressed Mode Single Pattern.vi - rscmwws Configure Compressed Mode Pattern Selection.vi - rscmwws Configure Voice Connection.vi - rscmwws Configure Caller ID.vi - rscmwws Query HSUPA HS-SCCH Order Status.vi - rscmwws Configure HSUPA PDU Flexible.vi - rscmwws Configure HSUPA Modulation.vi - rscmwws Configure HSUPA HS-SCCH Order.vi - rscmwws Configure HSUPA EAGCH Table Index.vi - rscmwws Configure HSUPA 2nd Carrier.vi - rscmwws Configure CBS Message Serial Number.vi - rscmwws Configure CBS Message.vi - rscmwws Configure CBS Level 2 DRX.vi - rscmwws Configure CBS Level 1 CTCH Occasions.vi - rscmwws Configure SMS Outgoing Message Settings.vi - rscmwws Configure SMS Outgoing Binary Message.vi - rscmwws Configure Network Time Cell Reselection.vi - rscmwws Configure Network Synchronization.vi - rscmwws Configure Network Levels Cell Reselection E-UTRA.vi - rscmwws Configure WCDMA FDD Neighbor Cell Measurement.vi - rscmwws Configure LTE Neighbor Cell Measurement.vi - rscmwws Configure GSM Neighbor Cell Measurement.vi - rscmwws Configure Physical Uplink Gain Factors HSUPA ETFCI Boost.vi - rscmwws Configure Physical Uplink Gain Factors HSUPA Delta T2TP.vi - rscmwws Query Event Log.vi - rscmwws Query UE Capability Measurement Related WCDMA Compressed Mode.vi - rscmwws Query UE Capability Measurement Related LTE Compressed Mode.vi - rscmwws Query UE Capability Measurement Related GSM Compressed Mode.vi - rscmwws Query UE Capability Codec List.vi - rscmwws Query UE Info Emergency Call Service Category.vi - rscmwws Query UE Info APN.vi - rscmwws Query UE Measurement Report Neighbor Cells UTRA FDD.vi - rscmwws Query UE Measurement Report Neighbor Cells GSM.vi - rscmwws Query UE Measurement Report Neighbor Cells E-UTRA FDD.vi - rscmwws Configure UE Measurement Report GSM.vi - rscmwws Configure UE Measurement Report E-UTRA FDD.vi * Modified: - rscmwws_Query RF Signal Routing.vi - rscmwws_Configure RF Signal Frequency.vi - rscmwws_Configure RF Signal Center Frequency.vi - rscmwws_Configure Packet Switching Signaling State.vi

rscmwws driver for WCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws_Query Circuit Switched State.vi - rscmwws_Query Packet Switched State.vi - rscmwws_Query Connection Status.vi - rscmwws_Query CMW Demod Info.vi - rscmwws_Configure Physical Downlink Channel Table Level.vi - rscmwws_Configure Physical Downlink Channel Table HSUPA Level.vi - rscmwws_Configure Physical Downlink Channel Table HSUPA Code.vi - rscmwws_Query Physical Uplink TX Power Control E-DCH Condition.vi - rscmwws_Configure GSM Neighbor Cell.vi - rscmwws_Configure LTE Neighbor Cell.vi - rscmwws_Configure HSUPA UE Category.vi - rscmwws_Configure HSUPA E-TFCl.vi - rscmwws_Configure HSUPA EAGCH UE Id.vi - rscmwws_Configure HSUPA EAGCH AG Pattern.vi - rscmwws_Configure HSUPA EAGCH AG Pattern Repetition.vi - rscmwws_HSUPA EAGCH AG Pattern Execution.vi - rscmwws_Configure HSUPA Fill Up Frames With Dummies.vi - rscmwws_Configure HSUPA EHICH HARQ Feedback.vi - rscmwws_Configure HSUPA ERGCH Relative Grant.vi - rscmwws_HSUPA ERGCH Pattern Execution.vi - rscmwws_Query CPC HS-SCCH Order.vi - rscmwws_Configure CPC Uplink DTX.vi - rscmwws_Query UE Capability HSUPA.vi - rscmwws_Configure RLC Throughput Measurement Control.vi - rscmwws_Read EHICH Results.vi - rscmwws_Fetch EHICH Results.vi - rscmwws_Read EHICH Max Expected Throughput Trace.vi - rscmwws_Fetch EHICH Max Expected Throughput Trace.vi - rscmwws_Read UL Logging ETFCl.vi - rscmwws_Fetch UL Logging ETFCl.vi - rscmwws_Read UL Logging RSN.vi - rscmwws_Fetch UL Logging RSN.vi - rscmwws_Read UL Logging Happy Bit.vi - rscmwws_Fetch UL Logging Happy Bit.vi - rscmwws_Read UL Logging DPCCCH.vi - rscmwws_Fetch UL Logging DPCCCH.vi
3.2.100	08/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.100 * Added subsystems: <ul style="list-style-type: none"> - CPC Settings - UL Logging * New: <ul style="list-style-type: none"> - rscmwws_Configure RF Signal Center Frequency.vi - rscmwws_Configure RF Signal Frequency Separation.vi - rscmwws_Query Fading Simulator Clipping Counter.vi - rscmwws_Configure WCDMA Wizard HUMP.vi - rscmwws_Configure Physical Downlink Channel Table DPCH Reference.vi - rscmwws_Read HSDPA Throughput Absolute Results All.vi - rscmwws_Fetch HSDPA Throughput Absolute Results All.vi - rscmwws_Read HSDPA Throughput Relative Results All.vi - rscmwws_Fetch HSDPA Throughput Relative Results All.vi - rscmwws_Read EHICH Throughput Trace.vi - rscmwws_Fetch EHICH Throughput Trace.vi - rscmwws_Read EHICH Max Expected Throughput Trace.vi

rscmwws driver for WCDMA Signaling**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Fetch EHICH Max Expected Throughput Trace.vi * Modified: - rscmwws Configure RF Signal Attenuation.vi - RSCMWWWS_ATTR_INPUT_EXTERNAL_ATTENUATION - Carrier added - rscmwws Configure RF Signal Frequency.vi - RSCMWWWS_ATTR_UPLINK_CHANNEL - Carrier added - rscmwws Query Connection Status.vi - Added values DCHS, HSPA, HDUP, DDUP - rscmwws Configure WCDMA Wizard.vi - Added HUMT, HSMT, HUMP - rscmwws Configure Physical Downlink OCNS Type.vi - R7 - rscmwws Query Physical Downlink Code Conflict.vi - More results - rscmwws Configure Physical Downlink Channel Table Level.vi - channel FDPCH - rscmwws Configure Physical Downlink Channel Table Code.vi - channel FDPCH - rscmwws Configure Physical Uplink TX Power Control.vi - Setup - values 12, 13, 14, 15, 16 added - rscmwws Configure Physical Uplink TX Power Control Setup Phase Discontinuity Precond.vi - Target Power added - rscmwws Query UE Capability PDCP.vi - API changed - RFC 3095R Space added - rscmwws Query UE Capability RLC.vi - API changed - Two Logical Channels added - rscmwws Query UE Capability Downlink.vi - more results - rscmwws Query UE Capability Uplink.vi - more results - rscmwws Query UE Capability RF.vi - more bands - rscmwws Query UE Capability Radio Access Technology.vi - more results - rscmwws Query UE Capability General.vi - API changed - changed to array - rscmwws Query UE Capability HSDPA.vi - API changed - changed to array - rscmwws Query UE Capability HSUPA.vi - API changed - changed to array - rscmwws Read HSDPA Throughput Trace.vi - Average - rscmwws Fetch HSDPA Throughput Trace.vi - Average - rscmwws Read HSDPA Total Throughput Trace.vi - Average - rscmwws Fetch HSDPA Total Throughput Trace.vi - Average * Deleted: - rscmwws Read HSDPA Throughput Absolute Results.vi - rscmwws Fetch HSDPA Throughput Absolute Results.vi - rscmwws Read HSDPA Throughput Relative Results.vi - rscmwws Fetch HSDPA Throughput Relative Results.vi
3.0.200	04/2013	<ul style="list-style-type: none"> * Update for firmware version 3.0.20 * Added subsystems: - Internal Fading - Packet Data - Test Mode - Reject Causes - Neighbor Cell Settings - Time - HSUPA Settings - RLC Throughput - E-HICH * New: - rscmwws Configure RF Signal Routing Internal Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier Internal Fading Scenario.vi - rscmwws Configure RF Signal RX Diversity.vi - rscmwws Configure RF Signal Data End To End.vi - rscmwws Configure Physical Downlink Channel Table HSUPA Level.vi - rscmwws Configure Physical Downlink Channel Table HSUPA Code.vi - rscmwws Configure PhysicalUplinkPRACHAICH.vi - rscmwws Query Physical Uplink TX Power Control EDCH Condition.vi

rscmwws driver for WCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Configure Physical Uplink Gain Factors HSUPA EDPCCCH.vi - rscmwws Configure Physical Uplink Gain Factors HSUPA ETFCI.vi - rscmwws Query UE Info IP Address.vi - rscmwws Configure Message Monitoring Logging Address.vi - rscmwws Query Message Monitoring Logging Address.vi * Modified: - rscmwws Configure RF Signal Routing External Fading Scenario.vi - IQ connector added - rscmwws Configure RF Signal Dual Carrier External Fading Scenario.vi - IQ connector added - rscmwws Query RF Signal Routing.vi - IQ connector added - rscmwws Configure UE Terminated Connection.vi - RMC >> Test
3.0.121	08/2012	<ul style="list-style-type: none"> * New: - rscmwws Configure WCDMA Wizard.vi
3.0.120	06/2012	<ul style="list-style-type: none"> Modifications: * Update for firmware version 3.0.10 * Added subsystems: - Handover * New: - rscmwws Configure RF Signal Routing External Fading Scenario.vi - rscmwws Configure RF Signal Dual Carrier External Fading Scenario.vi - rscmwws Configure IQ In.vi - rscmwws Query IQ Out.vi - rscmwws Configure Physical Uplink TX Power Control Setup Closed Loop Target Power Type.vi - rscmwws Configure RMC Keep Test Loop Closed.vi - rscmwws Configure SMS Keep Test Loop Closed.vi
2.1.301	02/2012	<ul style="list-style-type: none"> Modifications: - Fixed co-existence with other core based drivers
2.1.300	12/2011	<ul style="list-style-type: none"> Release for CMW firmware version 2.1.30.30 * New: - Message Monitoring - rscmwws Configure Packet Switching Signaling State.vi - rscmwws Configure RF Signal Dual Carrier Scenario.vi - rscmwws Configure RF Signal Downlink Total Output Power.vi - rscmwws Query RF Signal Output Channel Power Ratio.vi - rscmwws Query RF Signal Downlink Combined Total Output Power.vi - rscmwws Configure Physical Downlink OCNS Type.vi - rscmwws Query Physical Downlink Channel Table Code PCPICH.vi - rscmwws Configure Network Thresholds Cell Reselection.vi - rscmwws Configure Network Levels Cell Reselection.vi - rscmwws Configure Network Time Activation.vi - rscmwws Configure Paging Indications Number.vi - rscmwws Configure CQI Second Carrier State.vi - rscmwws Configure User Second Carrier State.vi - rscmwws Configure UE Measurement Report Second Carrier UTRA FDD.vi - rscmwws Query UE Measurement Report Second Carrier UTRA FDD.vi - rscmwws Configure Message Monitoring Settings.vi - rscmwws Read HSDPA Total Throughput Trace.vi - rscmwws Fetch HSDPA Total Throughput Trace.vi * Modified: - rscmwws Configure Circuit Switching Signaling State.vi - rscmwws Query Packet Switched State.vi - rscmwws Configure RF Signal Routing.vi - rscmwws Query RF Signal Routing.vi - rscmwws Configure RF Signal Attenuation.vi

rscmwws driver for WCDMA Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Configure RF Signal Frequency.vi - rscmwws Configure RF Signal Power Downlink.vi - rscmwws Configure RF Signal Power Downlink AWGN Noise.vi - rscmwws Query RF Signal Downlink Total Output Power.vi - rscmwws Query Physical Downlink Accumulated Power.vi - rscmwws Query Physical Downlink OCNS.vi - rscmwws Query Physical Downlink Code Conflict.vi - rscmwws Configure Physical Downlink Channel Table Level.vi - rscmwws Configure Physical Downlink Channel Table PCPICH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HSPDSCH.vi - rscmwws Configure Physical Downlink Channel Table HSPDSCH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HSSCCH.vi - rscmwws Configure Physical Downlink Channel Table HSSCCH Enhanced.vi - rscmwws Configure Primary Scrambling Code.vi - rscmwws Configure UE Category.vi - rscmwws Configure CQI Table.vi - rscmwws Configure User Inter TTI Distance.vi - rscmwws Configure User Transport Block Size Index.vi - rscmwws Configure User Physical Channel Codes Count.vi - rscmwws Query UE Capability HSDPA.vi - rscmwws Read HSDPA Throughput Trace.vi - rscmwws Fetch HSDPA Throughput Trace.vi - rscmwws Read HSDPA Throughput Absolute Results.vi - rscmwws Fetch HSDPA Throughput Absolute Results.vi - rscmwws Read HSDPA Throughput Relative Results.vi - rscmwws Fetch HSDPA Throughput Relative Results.vi - rscmwws Read HSDPA Transmissions All Results.vi - rscmwws Fetch HSDPA Transmissions All Results.vi - rscmwws Read HSDPA DL BLER Results.vi - rscmwws Fetch HSDPA DL BLER Results.vi - rscmwws Read HSDPA Median CQI Trace.vi - rscmwws Fetch HSDPA Median CQI Trace.vi - rscmwws Read HSDPA Median CQI Results.vi - rscmwws Fetch HSDPA Median CQI Results.vi - rscmwws Query UE Measurement Report UTRA FDD.vi
2.1.200	08/2011	<p>Release for CMW firmware version 2.1.20.x</p> <p>* Added subsystems:</p> <ul style="list-style-type: none"> - HSDPA <p>* New</p> <ul style="list-style-type: none"> - rscmwws Configure RF Signal Power Downlink AWGN Noise.vi - rscmwws Configure RF Signal Power Uplink Auto.vi - rscmwws Configure Reduced Signaling Mode State.vi - rscmwws Configure Reduced Signaling Connection State.vi - rscmwws Query Connection Status.vi - rscmwws Query CMW Demod Info.vi - rscmwws Query Physical Downlink Code Conflict.vi - rscmwws Configure Physical Downlink Channel Table HSPDSCH.vi - rscmwws Configure Physical Downlink Channel Table HSPDSCH Enhanced.vi - rscmwws Configure Physical Downlink Channel Table HSSCCH.vi - rscmwws Configure Physical Downlink Channel Table HSSCCH Enhanced.vi - rscmwws Configure Physical Uplink UE Power Class.vi - rscmwws Configure Physical Uplink PRACH MessagePart.vi

rscmwws driver for WCDMA Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwws Configure Physical Uplink PRACH DRX Cycle Length.vi - rscmwws Configure Physical Uplink TX Power Control Setup Test Step Length.vi - rscmwws Configure Physical Uplink TX Power Control Setup Test Step Segmentation.vi - rscmwws Configure Physical Uplink Gain Factors HSDPA.vi - rscmwws Configure RMC HSPA Test Mode State.vi - rscmwws Configure RMC HSPA Settings.vi - rscmwws Configure URA Identity.vi - rscmwws Query UE Capability HSDPA.vi - rscmwws Query UE Capability HSUPA.vi - rscmwws Configure SMS RMC Reestablish Delay.vi - rscmwws Configure BER Measurement Repetition.vi - rscmwws_Query BER DL UL Alignment.vi * Modified - rscmwws Configure RF Signal Power Uplink.vi - command channed UMARgin -> MARgin, added RSCMWWWS_ATTR_EXPECTED_NOMINAL_POWER_MODE - rscmwws Query UE Capability RF.vi - bands (and class) 19, 20, 21 added
2.0.110	04/2011	<ul style="list-style-type: none"> * Update for firmware version 2.0.11 * New - Messaging - rscmwws_QueryRFSignalRouting - rscmwws_QueryPhysicalUplinkInitialDPCCHPower - rscmwws_QueryPhysicalUplinkOpenLoopPreamblePower - rscmwws_ConfigurePagingRepetitionsNumber - rscmwws_FetchUEMeasurementReportState - rscmwws_ConfigureBERMeasurementTimeout - rscmwws_QueryBERLimitCheckResults * Modified - rscmwws_ConfigureRFSignalRouting - rscmwws_ConfigureRFSignalFrequency
1.0.150	02/2010	<p>Release for CMW firmware version 1.0.15</p> <p>Initial revision</p>

27 RScmwWNB – WCDMA eNodeB Measurement (3.7.220)

rscmwinn driver for WCDMA eNodeB Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW100		
Revision	Date	Note
3.7.220	06/2019	* Update for firmware version 3.7.22 * New attributes/VIs: - RSCMWWNB_ATTR_MIXER_LEVEL_OFFSET - rscmwinnb Configure Mixer Level Offset.vi
3.7.100	01/2018	* Support for firmware 3.7.10 * Initial release

28 RScmwFM - FM Stereo Radio Measurements (3.0.120)

rscmwfm driver for FM Stereo Radio Measurements		
Driver history for LabVIEW driver		
Instruments: CMW500, CMW280		
Revision	Date	Note
3.0.120	06/2012	Modifications: * Update for firmware version 3.0.12
2.1.101	02/2012	Modifications: - Fixed co-existence with other core based drivers
2.1.100	07/2011	Release for CMW firmware version 2.1.10.x * Added features - RDS deviation measurement results * Modified functions - changed command, results for RDS deviation added: - rscmwfm_ReadMEvalMeasRFModulation - rscmwfm_FetchMEvalMeasRFModulation - rscmwfm_QueryMEvalMeasRFModulationLimitCheckResults - rscmwfm_ReadMEvalMeasRFModulationStandardDeviation - rscmwfm_FetchMEvalMeasRFModulationStandardDeviation - rscmwfm_QueryMEvalMeasRFModulationLimitCheckResultsStandardDeviation - rscmwfm_ConfigureMEvalLimitsRFModulation
2.0.110	02/2011	Release for CMW firmware version 2.0.11.xx * Added functions/attributes - rscmwfm Query Signal Routing.vi - rscmwfm Configure Multi Eval Measurement Timeout.vi * Modified functions - rscmwfm Configure Signal Routing.vi - added new connectors - rscmwfm Read Multi Eval Measurement AF.vi - changed command, removed MINimum - rscmwfm Fetch Multi Eval Measurement AF.vi - changed command, removed MINimum - rscmwfm Query Multi Eval Measurement AF Limit Check Results.vi - changed command, removed MINimum
1.0.152	08/2010	Release for CMW firmware version 1.0.15.20 Initial revision

29 RScmwDAU - Data Application Unit (3.7.510)

rscmwdau driver for Data Application Unit		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.7.510	10/2020	<ul style="list-style-type: none"> * Update for CMW firmware version 3.7.51 * New core 6.71.0 * New VIs: <ul style="list-style-type: none"> - rscmwdau Configure IPv6 Prefix Pool Enabled.vi - rscmwdau Configure IMS SIP Timer Settings.vi - rscmwdau Configure Virtual Subscriber Group Chat Add Participant.vi - rscmwdau Configure Virtual Subscriber Group Chat Delete Participant.vi - rscmwdau Query Virtual Subscriber Group Chat Participants.vi - rscmwdau Configure IPerf Client Reverse Mode Enabled.vi - rscmwdau Configure IPerf Network Address Translation.vi - rscmwdau Configure IPerf NAT Parallel Connections.vi - rscmwdau Configure IPerf NAT Bit Rate.vi - rscmwdau Configure IPerf Socket Buffer Size.vi - rscmwdau Fetch IPerf Measurement Packetloss.vi - rscmwdau Fetch Security Handshake Negotiated ECP Format.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwdau Query IMS Mobile Status.vi - Range table and help update - rscmwdau Configure IPerf State.vi - Network Address Translation added - rscmwdau Configure IPerf Client.vi - Help updated - rscmwdau Configure IPerf Client Bit Rate.vi - Range and default value updated * Deleted VIs: <ul style="list-style-type: none"> - rscmwdau Configure IPBuffering.vi - rscmwdau Configure IPerf TCP Window Size.vi
3.7.300	04/2019	<ul style="list-style-type: none"> * New VIs: <ul style="list-style-type: none"> - rscmwdau Configure ePDG PCSF IKEv2 Auto.vi - rscmwdau Query IP Analysis Export File Path.vi - rscmwdau Configure IP Analysis Port Scan.vi - rscmwdau IP Analysis Port Scan Clear Event Log.vi - rscmwdau IP Analysis Port Scan Initiate.vi - rscmwdau IP Analysis Port Scan Abort.vi - rscmwdau Configure IP Analysis Flow Filter Connections.vi - rscmwdau Configure IP Analysis Flow Filter Extensions.vi - rscmwdau Configure IP Analysis Keyword Import.vi - rscmwdau Query IP Connectivity Features.vi - rscmwdau Fetch Keyword Search Results.vi - rscmwdau Fetch Port Scan Status.vi - rscmwdau Fetch Port Scan Results.vi - rscmwdau Query Port Scan Event Log.vi - rscmwdau Fetch Security All Connections Of All Application.vi * Deleted: <ul style="list-style-type: none"> - rscmwdau Configure IP Analysis Filter.vi * Updated: <ul style="list-style-type: none"> - rscmwdau Query IP Connectivity Results.vi - rscmwdau Fetch IP Connectivity All Results.vi

rscmwdau driver for Data Application Unit		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwdau Configure Subscriber Authentication IP Sec.vi - rscmwdau Configure Virtual Subscriber Settings.vi - rscmwdau Configure Virtual Subscriber SMS Settings.vi
3.7.100	03/2018	<ul style="list-style-type: none"> - rscmwdau Initialize.vi, rscmwdau Initialize with Options.vi, rscmwdau Close.vi and Utility VIs have new VI icons * New VIs: <ul style="list-style-type: none"> - rscmwdau Configure IP Buffering.vi - rscmwdau Query LAN Status.vi - rscmwdau Configure Subscriber PAU Header.vi - rscmwdau Configure Virtual Subscriber EVS IO Mode Config.vi - rscmwdau Clear ePDG Event Log.vi - rscmwdau Configure IP Analysis Filter.vi - Keyword settings - IP Analysis Security * Updated functions: <ul style="list-style-type: none"> - rscmwdau Configure Subscriber Authentication Data.vi - changed default value - rscmwdau Configure Subscriber Authentication IP Sec.vi - changed default value - rscmwdau Configure Update Call Inband CMR EVS Codec Rate.vi - changed default value
3.5.500	03/2017	<ul style="list-style-type: none"> * Exchanged Driver Core 6.6.0 that supports Simulation mode and Logging * All VISA resource name inputs are mandatory * Changed Icons strip color * Changed Palette Icons cmd /c "start /min /w Installer.vi" * Cleaned up all the Front Panels and Block Diagrams * New VIs: <ul style="list-style-type: none"> - rscmwdau Configure Virtual Subscriber Audio Codec.vi - rscmwdau Configure Virtual Subscriber Supported Features.vi - rscmwdau Configure Virtual Subscriber File Transfer Chunk Size.vi - rscmwdau Configure Update Call Audio Codec.vi - rscmwdau Configure Throughput Max Count.vi - rscmwdau Configure ePDG Service State.vi - rscmwdau Configure ePDG Dead Peer Detection Enabled.vi - rscmwdau Query RAN Trace Catalog.vi - rscmwdau Configure IP Logging Packet Snap Length.vi - rscmwdau Configure DNS Requests Max Index Count.vi - rscmwdau Query IMS Flow Information 2.vi - rscmwdau Query IP Replay File List.vi - rscmwdau Query IMS CMR.vi - rscmwdau Configure Virtual Subscriber SMS Import File.vi - rscmwdau Configure Update Chat Text.vi - rscmwdau Initiate Update Chat.vi - rscmwdau Send Update Chat Active Notification.vi - rscmwdau Send Update Chat Idle Notification.vi - rscmwdau Configure Update Call Inband CMR AMR.vi - rscmwdau Configure Update Call Inband CMR AMR-WB.vi - rscmwdau Configure Update Call Inband CMR EVS Bandwidth.vi - rscmwdau Configure Update Call Inband CMR EVS Codec Rate.vi - rscmwdau Configure Update Call Inband CMR Repetition.vi - rscmwdau Initiate Update Call Inband.vi * Updated VIs: <ul style="list-style-type: none"> - rscmwdau Configure Subscriber Authentication IP Sec.vi - rscmwdau Configure Virtual Subscriber Settings.vi - rscmwdau Configure Virtual Subscriber SMS Settings.vi

rscmwdau driver for Data Application Unit

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwdau Configure IP Logging.vi - rscmwdau Configure TCP Analysis Results.vi - rscmwdau Query TCP Analysis Results.vi - rscmwdau Fetch TCP Analysis All Results.vi - rscmwdau Query TCP Analysis Detail Results.vi
3.5.400	10/2016	<ul style="list-style-type: none"> * New VIs: - rscmwdau Configure IPv4 Type.vi - rscmwdau Configure IPv6 Type.vi - rscmwdau Configure IPv6 Address Length.vi - rscmwdau Configure DNS Server Response.vi - rscmwdau IMS Clean General Info.vi - rscmwdau Configure IMS TCP Keep Alive.vi - rscmwdau Configure IMS Threshold.vi - rscmwdau Configure IMS Transport Selection.vi - rscmwdau Configure Subscriber QCI.vi - rscmwdau Configure Virtual Subscriber Bearer.vi - rscmwdau Configure Virtual Subscriber Force Codec.vi - rscmwdau Configure Virtual Subscriber PCAP File.vi - Virtual Subscriber EVS Codec - Update Call EVS Codec - rscmwdau Configure Update Call Event.vi - rscmwdau Configure Virtual Subscriber SMS Encoding.vi - File Transfer - rscmwdau Configure Application Type.vi - rscmwdau RAN Assign.vi - rscmwdau Configure RAN Trace.vi - rscmwdau Configure Throughput Type.vi - rscmwdau Configure IPerf Type.vi - QoS - rscmwdau Fetch Measurement Throughput RAN Results.vi - rscmwdau Read Measurement Throughput RAN Results.vi - rscmwdau Fetch Measurement Throughput RAN Total Results.vi - rscmwdau Read Measurement Throughput RAN Total Results.vi - rscmwdau Fetch Measurement Throughput Trace RAN Results.vi - rscmwdau Read Measurement Throughput Trace RAN Results.vi * Updated VIs: - rscmwdau Configure Virtual Subscriber Settings.vi - rscmwdau Configure Virtual Subscriber Media Endpoint.vi - rscmwdau Configure AMR Voice Codec.vi - rscmwdau Configure Virtual Subscriber SMS Settings.vi - rscmwdau Query IMS Event Log.vi - rscmwdau Configure PDG Internet Key Exchange Protocol.vi
3.5.200	12/2015	<ul style="list-style-type: none"> * Update for CMW firmware version 3.5.20 * New VIs: - rscmwdau Configure IMS Service State.vi - rscmwdau Query Advanced IMS Info.vi - rscmwdau Query IMS Mobile Status.vi - rscmwdau Configure IMS Advanced Parameters.vi - rscmwdau Query IMS Release Call.vi - rscmwdau Deregister Advanced IMS Mobile.vi - rscmwdau Create P-CSCF Tab.vi - rscmwdau Delete P-CSCF Tab.vi - rscmwdau Update P-CSCF Profiles.vi

rscmwdau driver for Data Application Unit

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwdau Query P-CSCF Catalog.vi - rscmwdau Configure P-CSCF Settings.vi - rscmwdau Configure P-CSCF Failure Settings.vi - rscmwdau Configure P-CSCF Registration Expiration Time.vi - rscmwdau Configure P-CSCF Subscription Expiration Time.vi - rscmwdau Create Subscriber Tab.vi - rscmwdau Delete Subscriber Tab.vi - rscmwdau Update Subscriber Profiles.vi - rscmwdau Query Subscriber Catalog.vi - rscmwdau Configure Subscriber Private User ID.vi - rscmwdau Configure Subscriber Authentication.vi - rscmwdau Configure Subscriber Authentication Data.vi - rscmwdau Configure Subscriber Authentication IPsec.vi - rscmwdau Configure Subscriber Public User IDs.vi - rscmwdau Create Virtual Subscriber Profile.vi - rscmwdau Delete Virtual Subscriber Profile.vi - rscmwdau Update Virtual Subscriber Profile.vi - rscmwdau Query Virtual Subscriber Catalog.vi - rscmwdau Configure Virtual Subscriber Settings.vi - rscmwdau Configure Virtual Subscriber Video.vi - rscmwdau Configure Virtual Subscriber Media Endpoint.vi - rscmwdau Configure Virtual Subscriber Forward.vi - rscmwdau Configure Virtual Subscriber Audioboard.vi - rscmwdau Configure AMR Voice Codec.vi - rscmwdau Configure AMR Codec Rates.vi - rscmwdau Configure Virtual Subscriber MTC Destination.vi - rscmwdau Query Virtual Subscriber MTC Destination List.vi - rscmwdau Configure Virtual Subscriber MTC Call Settings.vi - rscmwdau Configure Virtual Subscriber MTC AMR Codec Rate.vi - rscmwdau Configure Virtual Subscriber MTC AMR Video Codec.vi - rscmwdau Initiate Virtual Subscriber Voice Settings.vi - rscmwdau Configure Virtual Subscriber SMS Settings.vi - rscmwdau Query Virtual Subscriber SMS Destination List.vi - rscmwdau Send Virtual Subscriber SMS.vi - rscmwdau Initiate Update Call.vi - rscmwdau Configure Update Call Settings.vi - rscmwdau Configure Update Call Codec.vi - rscmwdau Query Update Call IDs.vi - rscmwdau Query IMS Event Log.vi - rscmwdau Query IMS SMS Event History.vi - rscmwdau Query IMS CALL Event History.vi - rscmwdau Configure ePDG IP Address.vi - rscmwdau Configure ePDG ID.vi - rscmwdau Configure ePDG Internet Key Exchange Protocol.vi - rscmwdau Configure ePDG Encapsulating Security Payload.vi - rscmwdau Configure ePDG Dead Peer Detection.vi - rscmwdau Configure ePDG SSL Certificate.vi - rscmwdau Configure ePDG IMSI.vi - rscmwdau Query ePDG IMSI Connections.vi - rscmwdau Configure ePDG Authentication Algorithm.vi - rscmwdau Configure ePDG Authentication Data Settings.vi - rscmwdau Configure Audio Delay Maximum Samples.vi - rscmwdau Query Audio Delay Intervals.vi

rscmwdau driver for Data Application Unit

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwdau Data Application Measurement Audio Delay Init.vi - rscmwdau Data Application Measurement Audio Delay Abort.vi - rscmwdau Data Application Measurement Audio Delay Stop.vi - rscmwdau Query Data Application Measurement Audio Delay Status.vi - rscmwdau Query Data Application Measurement Audio Delay All Status.vi - rscmwdau Read Audio Delay Measurement Results.vi - rscmwdau Fetch Audio Delay Measurement Results.vi - rscmwdau Read Audio Delay Time Of Arrival Results.vi - rscmwdau Fetch Audio Delay Time Of Arrival Results.vi - rscmwdau Read Audio Delay Measurement Trace Results.vi - rscmwdau Fetch Audio Delay Measurement Trace Results.vi - rscmwdau Read Audio Delay Time Of Arrival Trace Results.vi - rscmwdau Fetch Audio Delay Time Of Arrival Trace Results.vi * Modified VIs: <ul style="list-style-type: none"> - rscmwdau Configure Service State.vi - rscmwdau Query IPv6 LAN Settings.vi - rscmwdau Query IMS Info.vi - rscmwdau Query IMS Mobile Info.vi - rscmwdau Configure IMS General Parameters.vi - rscmwdau Deregister IMS Mobile.vi - rscmwdau Configure IPerf TCP Window Size.vi - rscmwdau Data App Meas Init.vi
3.5.100	03/2015	<ul style="list-style-type: none"> * Update for CMW firmware version 3.5.100 * Help improvements * Modified functions: <ul style="list-style-type: none"> - rscmwdau Configure IMS Authentication Data.vi
3.2.550	11/2014	<ul style="list-style-type: none"> * Update for CMW firmware version 3.2.50.5 * Express VI version 2.5.0 * New Functions <ul style="list-style-type: none"> - IP Replay - rscmwdau Configure Application.vi - rscmwdau Configure Layer.vi - rscmwdau Configure Store Database.vi - rscmwdau Fetch Data Per Layer.vi - rscmwdau Fetch Data Per Application.vi - rscmwdau Fetch IMS All Results.vi - rscmwdau Query IMS Flow Information.vi - rscmwdau Query IMS Packets Measurement.vi - rscmwdau Query IMS Jitter.vi * Modified functions: <ul style="list-style-type: none"> - rscmwdau Configure Ping Timeout.vi - Configure IP Logging.vi - Configure IP Analysis Results.vi - Configure IP Analysis Results All.vi - Data App Meas Init.vi - Data App Meas Abort.vi - Data App Meas Stop.vi - Query Data App Meas Status.vi - Fetch IP Connectivity All Results.vi
3.2.500	06/2014	<ul style="list-style-type: none"> * Update for CMW firmware version 3.2.50 * New VIs: <ul style="list-style-type: none"> - rscmwdau Configure MTU.vi - rscmwdau Deregister IMS Mobile.vi

rscmwdau driver for Data Application Unit		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none"> - rscmwdau Configure Ping Timeout.vi - rscmwdau Fetch Ping Statistical Results.vi - rscmwdau Fetch IPerf Measurement All Results.vi - rscmwdau Query TCP Analysis All Results.vi - rscmwdau Query IP Connectivity All Results.vi * Modified VIs: - rscmwdau Configure Foreign DNS Server Use DHCP Address.vi - changed API - rscmwdau Query IMS Mobile Info.vi - rscmwdau Configure IMS Voice Settings.vi - changed API - rscmwdau Query Voice Over IMS Status.vi
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for CMW firmware version 3.2.100 * Added under Measurement >> Configuration - IP Analysis subsystem * Added under Measurement >> Results - IP Analysis subsystem * New functions: - rscmwdau Configure Network Impairments Jitter Distribution.vi * Modified functions: - rscmwdau Data Application Measurement Init.vi - added IP Analysis - rscmwdau Data Application Measurement Abort.vi - added IP Analysis - rscmwdau Data Application Measurement Stop.vi - added IP Analysis - rscmwdau Query Data Application Measurement Status.vi - - added IP Analysis
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for CMW firmware version 3.0.10 * Added under Configuration - DNS subsystem * Added under Configuration - IP Multimedia Subsystem (IMS) * Added under Measurement - DNS Request * Added under Measurement - IP Logging * Added under Measurement - Network Impairments * New: - rscmwdau Configure IPv6 LAN Static Configuration.vi - rscmwdau Query IPv6 LAN Settings.vi - rscmwdau Configure IPv6 Prefix Setup Mode.vi - rscmwdau Configure IPv6 Routing Setup Mode.vi - rscmwdau Configure IPv6 Routing Add.vi - rscmwdau Configure IPv6 Routing Delete.vi - rscmwdau Configure IPv6 Routing Delete By Index.vi - rscmwdau Query IPv6 Routing Catalog.vi - rscmwdau Configure IP Logging.vi - rscmwdau Query IP Logging Log File Name.vi - rscmwdau Fetch Ping No Reply Count.vi - rscmwdau Query Number Of DNS Requests.vi - rscmwdau Query DNS Requests.vi - rscmwdau Configure DAU State.vi * Modified: - rscmwdau Configure Service State.vi - added new services - rscmwdau Query IPv4 Addresses Catalog.vi - function redesigned - rscmwdau Query IPv4 Network Settings.vi - commands updated - rscmwdau Configure IPv6 Address Setup Mode.vi - rscmwdau Configure IPv6 Prefix Add.vi - command update - rscmwdau Configure IPv6 Prefix Delete.vi - command update - rscmwdau Configure IPv6 Prefix Delete By Index.vi - command update - rscmwdau Query IPv6 Prefixes Catalog.vi - command update - rscmwdau Query FTP Users Catalog.vi - command update - rscmwdau Data App Meas Init.vi

rscmwdau driver for Data Application Unit		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
		<ul style="list-style-type: none">- rscmwdau Data App Meas Abort.vi- rscmwdau Data App Meas Stop.vi- rscmwdau Query Data App Meas Status.vi* Obsolete:- rscmwdau Configure IPv4 DNS Address.vi
2.1.271	02/2012	Modifications: <ul style="list-style-type: none">- Fixed co-existence with other core based drivers
2.1.270	01/2012	Release for CMW firmware version 2.1.27.x New VIs: rscmwdau Configure IPerf Packet Size.vi
2.1.100	11/2011	Release for CMW firmware version 2.0.11.x Initial revision

30 RScmwWXM - WiMAX Measurement (3.2.100)

rscmwxml driver for WiMAX Measurement		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.2.100	08/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.100 * Modified - rscmwxml Configure Multi Eval Measurement Trigger.vi - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE - command changed
3.0.120	06/2012	Modifications: <ul style="list-style-type: none"> * Version 3.0.120 - New core: improved speed with turned off error checking
2.1.101	02/2012	Modifications: <ul style="list-style-type: none"> - Fixed co-existence with other core based drivers
2.1.100	08/2011	Release for CMW firmware version 2.1.10 <ul style="list-style-type: none"> * Added - rscmwxml Configure Multi Eval Measurement IQ Swap.vi - rscmwxml Configure Multi Eval Measurement Check Burst Start.vi
2.0.110	05/2011	Release for CMW firmware version 2.0.11 Modifications: <ul style="list-style-type: none"> * Added - rscmwxml_QueryGeneratorSignalRouting * Modified - rscmwxml_ConfigureGeneratorSignalRouting - added new routing settings * Obsolete - RSCMWXML_ATTR_GENERATOR_OUTPUT_CONNECTOR
1.0.150	12/2009	Release for CMW firmware version 1.0.15 Modified functions/attributes <ul style="list-style-type: none"> - rscmwxml_ConfigureMEvalMeasParameters.vi - changed API to implement new firmware features
1.0.100	07/2009	Release for CMW firmware version 1.0.10.1 Removed VIs/Attributes <ul style="list-style-type: none"> - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_INBAND_MEASUREMENT - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_FRAME_LENGTH - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_CYCLIC_PREFIX - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_SEGMENT - rscmwxml_Configure Multi Eval Measurement Inband Measurement.vi
1.0.50	12/2008	Release for CMW firmware version 1.0.53 - Modified VIs/attributes <ul style="list-style-type: none"> - rscmwxml_Configure Multi Eval Measurement Trigger.vi - redesigned - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_TRIGGER_SOURCE - changed data type - New functions/attributes <ul style="list-style-type: none"> - RSCMWXML_ATTR_MULTI_EVAL_MEASUREMENT_LIMIT_SEM_TYPE - rscmwxml_Configure Multi Eval Measurement Limit SEM Type.vi
1.0.41	09/2008	Release for CMW firmware version 1.0.4

rscmwwxm driver for WiMAX Measurement**Driver history for LabVIEW driver****Instruments: CMW500**

Revision	Date	Note
		<ul style="list-style-type: none"> - Modified functions/attributes: - New rsidr_core version - fixed Rs_SpecificDriverNew - Removed remote display enable from default instrument setup - Fixed rscmwwxm_RsClose function - Modified rcmwvxm_atof, rscmwwxm_atol
1.0.40	07/2008	<p>Release for CMW firmware version 1.0.4</p> <ul style="list-style-type: none"> - Removed functions/attributes - rscmwwxm_ReadMEvalMeasSpectralFlatness, rscmwwxm_FetchMEvalMeasSpectralFlatness - to obtain spectral flatness results please use rscmwwxm_ReadMEvalMeasEVM respectively rscmwwxm_FetchMEvalMeasEVM - - Modified functions/attributes - rscmwwxm_ConfigureMEvalMeasZone - added control region length - Redesigned for better safety: rscmwwxm_ReadMEvalMeasEVM, rscmwwxm_FetchMEvalMeasEVM - - New functions/attributes - RSCMWXXM_ATTR_MULTI_EVAL_MEASUREMENT_CONTROL_REGION_LENGTH - rscmwwxm_ConfigureMEvalMeasInbandMeasurement - RSCMWXXM_ATTR_MULTI_EVAL_MEASUREMENT_INBAND_MEASUREMENT - rscmwwxm_ReadMEvalMeasACPAndSEM - rscmwwxm_FetchMEvalMeasACPAndSEM
1.0.30	05/2008	<p>Release for CMW firmware version 1.0.3</p> <p>Modified Functions:</p> <p>rscmwwxm_ConfigureMEvalMeasZone (zone length range changed, removed PRBS ID)</p> <p>rscmwwxm_ConfigureMEvalMeasBurstsMap (removed Rect. Symbol Offset)</p>
1.0.20	04/2008	<p>Release for CMW firmware version 1.0.2</p> <p>Modified Functions:</p> <p>rscmwwxm_ConfigureAnalyzer (expected nominal power, center frequency range changed)</p> <p>rscmwwxm_ConfigureMEvalMeasParameters (downlink added, removed Number of Symbols)</p> <p>rscmwwxm_ConfigureMEvalMeasZone (zone length range changed, removed number of bursts)</p> <p>rscmwwxm_ConfigureMEvalMeasBurstsMap (complete reimplementatation)</p> <p>rscmwwxm_ReadMEvalMeasEVM, FetchMEvalMeasEVM (added EVM All Carriers result readout)</p>

31 RScmwWXS - WiMAX Signaling (3.2.100)

rscmwxs driver for WiMAX Signaling		
Driver history for LabVIEW driver		
Instruments: CMW500		
Revision	Date	Note
3.2.100	09/2013	<ul style="list-style-type: none"> * Update for firmware version 3.2.100 * Modified - rscmwxs Configure Standard Cell Scenario.vi - RX Converter - only RX 1 - TX Converter - only TX 1 - rscmwxs Query Signal Routing.vi - RX Converter - only RX 1 - TX Converter - only TX 1
3.0.120	06/2012	<p>Modifications:</p> <ul style="list-style-type: none"> * Update for firmware version 3.0.10 - Fixed co-existence with other core based drivers * New functions/attributes - rscmwxs Configure PER Stop Condition.vi - rscmwxs Configure TX Digital IQ Fading Path.vi - rscmwxs Fetch PER Lost An dRetransmitted Frames.vi - rscmwxs Configure Standard Cell Scenario.vi - rscmwxs Configure TX DL MIMO Scenario.vi * Modified - RSCMWWXS_ATTR_GENERATOR_OUTPUT_CONNECTOR - changed command - rscmwxs Configure Frame Trigger.vi - help changed - rscmwxs Configure Pulse Frame Trigger.vi - help changed - rscmwxs Query Signal Routing.vi - more scenarios
2.0.110	05/2011	<p>Release for CMW firmware version 2.0.11</p> <p>Modifications:</p> <ul style="list-style-type: none"> * Added - Service Flows - Cell Reselection - rscmwxs De-Register.vi - rscmwxs Configure Initiate Periodic Ranging.vi - rscmwxs Configure Second Zone Downlink Symbol Offset.vi - rscmwxs Sleep State.vi - rscmwxs Handover State.vi - rscmwxs Idle State.vi - rscmwxs Query Signal Routing.vi - rscmwxs Configure Idle Mode.vi - rscmwxs Configure Handover.vi - rscmwxs Configure Handover BS.vi - rscmwxs Configure Sleep Mode.vi * Modified - CQICH Measurement completely redesigned - PER Settings completely redesigned - RSCMWWXS_ATTR_INPUT_CONNECTOR - changed command - Trigger redesigned, added "second trigger" - rscmwxs Configure Downlink Traffic.vi - added Dummy Data, changed Modulation Rate - rscmwxs Configure Downlink Management Burst UCD.vi - changed interface - rscmwxs Configure Uplink Traffic Burst.vi - changed interface * Removed - RSCMWWXS_ATTR_UL_HARQ_ACK_DELAY - RSCMWWXS_ATTR_UL_HARQ_STATE - rscmwxs Configure Uplink Traffic HARQ.vi

rscmwxs driver for WiMAX Signaling

Driver history for LabVIEW driver

Instruments: CMW500

Revision	Date	Note
1.0.150	12/2009	<p>Release for CMW firmware version 1.0.15</p> <p>Added functions/attributes</p> <ul style="list-style-type: none"> - Second RF Channel and MIMO support - Pulse Frame Trigger - First Zone definition - Ranging Response Settings - PER CRC Settings - rscmwxs Configure AWGN Signal.vi - rscmwxs Initiate Next Connection Step.vi - rscmwxs Configure Second Zone Uplink Symbol Offset.vi - rscmwxs Configure IPv4 DL subframe.vi <p>Modified VIs</p> <ul style="list-style-type: none"> - rscmwxs Configure Signal Init.vi - added new parameters - rscmwxs Configure MS Power Control.vi - added new parameters
1.0.100	07/2009	<p>Release for CMW firmware version 1.0.10.1</p> <p>* Removed VIs/Attributes</p> <ul style="list-style-type: none"> - RSCMWWXS_ATTR_PER_SUBCHANNEL_OFFSET - RSCMWWXS_ATTR_PER_SYMBOL_OFFSET - RSCMWWXS_ATTR_PER_NUMBER_OF_SUBCHANNELS - RSCMWWXS_ATTR_PER_NUMBER_OF_SYMBOLS - RSCMWWXS_ATTR_PER_MODULATION_CODING_RATE - rscmwxs Configure PER Data Burst.vi <p>* Added VIs/attributes</p> <ul style="list-style-type: none"> - Downlink Traffic subsystem - Second Zone Definition subsystem (with CMW-KS701 only) - Trigger subsystem - IPv4 Settings subsystem - Connection Status subsystem - RSCMWWXS_ATTR_UL_HARQ_STATE - RSCMWWXS_ATTR_UL_HARQ_ACK_DELAY - rscmwxs Configure Downlink Burst DLFT Power Boost.vi <p>* Modified VIs/attributes</p> <ul style="list-style-type: none"> - RSCMWWXS_ATTR_INPUT_EXTERNAL_ATTENUATION - changed command - RSCMWWXS_ATTR_SIGNAL_INIT_FFT_SIZE - changed to read only - RSCMWWXS_ATTR_POWER_CONTROL_GAIN_VALUE - changed command - RSCMWWXS_ATTR_GENERATOR_TX_POWER_DATA_CARRIER - changed command - RSCMWWXS_ATTR_PER_DATA_INTERVAL - changed command - rscmwxs Configure Uplink Traffic Burst.vi - new MCRs - RSCMWWXS_ATTR_UL_TRAFFIC_BURST_MODULATION_CODING_RATE - new MCRs - rscmwxs Configure PER Settings.vi - removed Modulation Coding Rate
1.0.40	08/2008	<p>Release for CMW firmware version 1.0.6</p> <p>Initial revision</p>

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