

Software Release Notes

CMTVNA

Version 2.1.1

- Fixed issues with RP10 and RP54 measurement
- Now temperature in “About” page uses Measurement Precision

Version 2.1.0

- Added ACM User Characterization feature
- Added capability to erase User Characterization from the Settings page
- Added Auto-orientation for ACM
- Added “About” in “Settings” page
- Added a section for disabling selected notification categories in “Settings” page
- Now Quick calibration configuration is saved and recalled in state files
- Now unit step size is configurable
- Now Trace hold is reset after reconfiguring related settings
- Now Secondary windows are restored from the minimized state
- Now new notifications appear at the top of the list instead of the bottom
- Added SCPI command SENS:ROSC:SOUR for setting reference oscillator source
- Now ACM calibration is blocked if stimulus is set outside of the ACM characterization frequency range
- Fixed a bug where S-parameters of the ACM thru standard was read with flipped port assignment
- Fixed a bug where the encoder trigger is not applied on VTR and VTRM devices
- Fixed a crash when changing the device while calibration page is open
- Fixed a crash when terminating software with Cmd+Q on macOS
- Fixed Embedding/De-embedding math — an embedding sweep is no longer applied to a degenerate matrix

Version 2.0.1

- Added new predefined kits CMNF18 and CMNM18
- Added support for binary data transfer and related SCPI commands
- Added new command line option to launch software in invisible mode: --hide-mode
- Fixed a bug where when trace is in time domain the x-axis saved in csv file is still frequency

Software Release Notes

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- Added some SCPI commands for Power calibration
- Added some SCPI commands for ACM

Version 2.0.0

- Added Quick Power and Quick Receiver Calibration
- Added Notification Center
- Added SCPI commands related to mechanical cal kit definition & standard management
- Now USB driver installation is selected by default when running the installer for Windows
- Added “Update State” button in Quick States Table
- Fixed a bug related to oversaturated colors on macOS with HDR/EDR
- Fixed a visual bug related to chart overlays when resized
- Fixed a bug related to Calculate Trace Statistics

Version 1.7.3

- Fixed a bug related to the factory calibration with VTRM with hardware revision 2

Version 1.7.2

- Added support for VTRM with hardware revision 2
- Fixed a bug with state files not saving the Scale and Ref Value settings for traces
- Fixed crashes when unsupported Error Terms are selected in trace manager for 1-port VNAs
- Adjusted Term/Conversion combo box width in the trace manager

Version 1.7.1

- Added a feature for changing calibration trigger source
- Fixed a bug with V-series VNA’s receiver measurement

Version 1.7.0

- Added support for R&S Power Sensors
- Added Demo Power Sensor feature

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- Added support for power meter measurement trace
- Added support for ASM0102 device
- Added support for V-series VNA and M5180 and their demo modes
- Fixed a bug related to specific VNA models showing restricted features
- Added a feature for setting output power slope
- Added function labels for trace in Trace Manager
- Fixed a bug with software crashing when closing basic calibration window
- Fixed a bug with measurement type popup segment switch sizing fix
- Fixed a bug with basic calibration state store/recall
- Added SCPI command "SYST:TEMP:SENS"
- Added SCPI command "MMEMory:STORe:FDAta"

Version 1.6.1

- Added support for ACM 2202
- Fixed a bug related to device properties page's background color
- Fixed a bug related to statistics update
- Fixed a bug related to device details
- Fixed a bug where Quick Calibration dialog shows unsupported options
- Added feature for changing distance unit via SCPI command;
- Added feature for changing temperature unit via SCPI command;
- Added SCPI calibration kit standard parameter commands:
- SYSTem:UNIT:DISTance {METers|FEET|INCH}
- SYSTem:UNIT:TEMPerature {C|K|F}
- CALC:TRAN:TIME:UNIT {SEConds|DISTance|FEET|METERs}
- SENSE:CORRection:COLlect:CKIT:LABel / LABel?
- CKIT:STANdard:COUNT? — standard count
- CKIT:STANdard:LABel / LABel? — standard name
- CKIT:STANdard:TYPE / TYPE? — standard type (OPEN, SHOR, LOAD, THRU)
- CKIT:STANdard:FMINimum / FMINimum? — minimum frequency
- CKIT:STANdard:FMAXimum / FMAXimum? — maximum frequency
- CKIT:STANdard:DELay / DELay? — offset delay
- CKIT:STANdard:ZO / ZO? — offset impedance (coaxial standards only)
- CKIT:STANdard:LOSS / LOSS? — offset loss (write-only)
- CKIT:STANdard:C0 / C0? ... C3 / C3? — capacitance polynomial coefficients (Open only)
- CKIT:STANdard:L0 / L0? ... L3 / L3? — inductance polynomial coefficients (Short only)
- CKIT:STANdard:ARBitrary / ARBitrary? — data-based (arbitrary) definition toggle

Version 1.6.0

- Added averaging trigger feature

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- Added 10MHz Reference Source support
- Added VTRM0302 (HW Revision 2)
- Now when trace is hidden, elements of the trace is also hidden
- Now quick states list is sorted by datetime in ascending order
- Added support for averaging measurements during calibration
- Added SCPI command "CALC:HOLD:CLE"
- Fixed bugs on device connection
- Fixed bugs related to crash during calibration

Version 1.5.0

- Added basic functionalities of ACM calibration, with no SCPI commands
- Added right-click menu for channels
- Added capability of changing channel label/name
- Added support for VTRM VNAs whose start frequency is 20MHz
- Added libicu into the software, eliminating the need to install libicu separately on Linux systems
- Fixed typo for "External Trigger" – "Position" – "before sampling"
- Fixed a bug where software crashes when calibration is applied, on Linux x86_64 systems
- Fixed a bug with stimulus set to segmented sweep
- Fixed a bug with CW sweep mode
- Fixed a bug with Save/Recall when "Image" format is selected

Version 1.4.0

- Added support for VTRM0602, with attenuation control under "Channel"
- Added right-click menu for traces
- Added --model-name option string for command line, for setting a default VNA model
- Added --serial-number option string for command line
- Added --simulate option string for command line, for setting the software in simulation mode
- Added "Delete All" button for deleting quick-save states, under "Save/Recall" – "User States"
- Added "Data to Memory All" button in the right-click menu for diagrams
- Rearranged how statistics list shows up in diagram
- Added a space between number and unit in the IFBW setting pop-up window
- Added Reference marker indication in the active marker combo box and in the diagrams
- Added SCPI command "SENSe:PORT:ATTenuation" for setting receiver attenuation
- Added SCPI command "SYSTem:CAPability:ATTenuation?" for checking device's attenuation control capability
- Fixed a bug where software sometimes crashes during measuring calibration step
- Fixed a bug where software crashes while configuring Start and Stop frequencies when Reference Marker is Enabled
- Fixed a bug where software crashes in Smith Chart with Reference Marker is enabled

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- Fixed empty Checkbox in Calibration Set Window
- Fixed incorrect Marker Value in Statistics if marker is a Reference Marker

Version 1.3.0

- Now when program exits, the program window's size and position is saved
- Added channel, diagram and trace maximization capability
- Added "Active Only" property for markers
- Added marker alignment feature
- Added right-click menu for markers
- Added right-click menu for Trace Manager
- Added right-click menu for diagrams
- Added calibration to the quick-access bar located above the diagrams
- Fixed button area of the "Show Only Favorites" button in "Edit Kits" menu
- Now when a marker is enabled, it will be coupled on all traces by default
- Switching between channels in cal set setup now does not change the active channel
- Fixed a bug when saving data in a report
- Fixed a bug with the shortcut's name under the /cmtvna/bin folder
- Fixed a bug with "Show Only Favorites" toggle button's position
- Fixed a bug where when "CALC:PAR:DEF" command is sent when VNA has a marker in tracking mode, the marker stops tracking but menu still shows tracking "on"
- Fixed bugs with Flatness calculation and RF Filter Statistics
- Fixed a bug where after loading certain states, plot has no grid
- Added SCPI command "DISP:WIND:ANN:MARK:SING"

Version 1.2.2

- Fixed bug with Report button under Save/Recall
- Fixed bug with saving static trace

Version 1.2.1

- Added demo mode for R and VTR series
- Added USB driver and vc_redist auto-installation in the installer
- Added capability for saving states in the quick-access slots into file
- Added SCPI Commands:
CALC:ALLT:DATA:SDAT?
CALC:ALLT:DATA:FDAT?
DISP:SHOW
DISP:HIDE

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DISP:ENAB

SENS:CORR:COLL:SUBC

SYST:TIME?

SYST:RWL

SYST:REM

SYST:LOC

- Fixed error reporting when automating calibration. Now error will be reported if not all required measurements are taken before applying calibration
- Fixed USB connection issue with SN09xx VNAs
- Fixed USB connection issue with R180 and RP180
- Fixed acronym for one-path calibrations. Now is back to [OP]
- Fixed default system impedance for RP5 and RP10
- Fixed bug with toggling between “show only favorites” in calibration kit menu
- Fixed bug with deleting connector type in calibration kit menu

Version 1.2.0

- Added support for VTRM0x02 VNAs
- Added search range setting for peak limit tests and peak limit test SCPI command is modified for it
- Added marker coupling
- Added SCPI command CALC:DATA:XAX?
- Added SCPI command DISP:WIND:TRAC:Y:RLEV:AUTO
- Added SCPI command *RST

Version 1.1.0

- First release