

Software Release Notes

CMTVNA

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
- 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

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- 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
- 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

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- 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
- 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

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- 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
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

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- 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