

Version 20.1.5

- Added SCPI:TRIGger.SEQuence.WAIT(STATus) COM command
- Added support to ACM2506
- Added COM/SCPI commands for all port extension features

Version 19.4.4

- Added SYST:TERM SCPI command to terminate the analyzer software
- Limit line in Polar format now includes magnitude

Version 19.4.3

- Fixed a bug related to 'trace hold' function

Version 19.4.2

- Autosave is now disabled by default
- Fixed a bug saving system impedance data in a state file

Version 19.4.1

- Fixed a bug related to DISP:WIND:TRAC:Y:PDIV command
- Fixed a bug related to time domain gating when selecting one way reflection type

Version 19.3.0

- Marker values now round properly
- Error correction information (for example F1) in the trace status field is hidden when the correction is turned off

Version 19.1.1

- Updated bootloader R60 (rev.3)

Version 19.1.0

- Added automation commands for confidence check and ACM orientation function
- Fixed a bug where 'dB' was shown on the trace status field for linear display format

Version 18.4.0

- Optimized data averaging algorithm

Version 18.3.3

- Fixed an issue related to cycle time when having multiple channels
- Updated the COM and SCPI programming manuals

Version 18.3.0

- Fixed an error with LabVIEW AutoCal function

Version 18.2.6

- Disabled the "new analyzer model detected" dialogue boxes when the program is run in invisible mode

Version 18.2.3

- Fixed a bug related to automation

Version 18.2.1

- Fixed a bug where the error dialogues pop up whenever the application was turned on/off constantly.

Version 18.2.0

- Added the SCPI command to load the touchstone file MMEM:LOAD:SNP

Version 18.1.5

- Fixed a bug with COM automation

Version 18.1.2

- Additional calibration kits are added to the cal kit table: S2611, N1801, S911T and N1.2

Version 18.1.0

- Improved the auto-detect functionality
- Added the possibility of connecting a device with the specified serial number
- Added the following SCPI commands:
 - DISPlay: UPDate [: IMMEDIATE]
 - DISPlay: ENABLE
 - TRIGger [: SEQUENCE]: WAIT {HOLD | MEASURE | WAIT}
- Added the ability to turn on/off cycle time
- Added the ability to turn on/off the display update

Version 17.4.4

- Fixed a bug related to the de-embedding function

Version 17.4.3

- Fixed a bug which caused an error when saving polar graph into a *.csv file

Version 17.4.2

- Added support for ACM2509 (version 2)

Version 17.4.1

- Fixed a bug related to the stimulus output power
- Integrated the data from S1P/ S2P file to the calibration file

Version 17.4.0

- Modified the control of time domain mode. It is now available under the 'Analysis' menu
- Extended set of data trace formats (Smith, Polar, etc.)

Version 17.3.2

Automation commands have been added to control Avoid Ripple feature: SCPI.SYSem.ARIPple.STATe and SYSTEM:ARIPple [: STATe]

Improved algorithm avoiding ripple for R180 devices

Version 17.3.1

- Fixed a bug related to marker behavior on stored traces when using polar chart display formats

Version 17.3.0

Fixed a bug in R60/R180 Demo Mode

Version 17.2.5

- Driver and installer are digitally signed using an enhanced certificate. Enables driver installation on all Windows versions including fresh (non-upgraded) installations of Windows 10, version 1607 with Secure Boot ON.
- "Reflectometer" renamed "1-Port VNA".

Version 17.2.2

- Fixed a bug related to "SCPI.CALCulate(Ch).SElected.MARKer(Mk).X = Value" behavior. Now COM and SCPI operations read and set a delta value if the reference marker is enabled. Also modified reading of Y values.
- Fixed a bug related to ACM Calibration and Confidence Check feature. The bug was introduced starting from version 16.3.6.

Version 17.2.0

- Added COM commands to read and write data of calibration standards for performance testing

Version 17.1.5

- Added vertical functionality to the limit line feature

Version 17.1.4

- Added COM and SCPI commands for deleting the memory trace in a channel
- Fixed a bug related to turning off the signal generator on TR5048 and TR7530
- Added COM and SCPI commands for recording calibration coefficients

Version 17.1.3

- Fixed a bug related to the auto port extension algorithm

Version 17.1.2

- Fixed a bug associated with launching a new window scan when using the channel placement function
- Optimized drawing of graphs when using a large number of points
- Added SCPI and COM commands for data functions
- Fixed a bug in the operation of the TCP server when using multiple clients

Version 17.1.1

- Fixed a bug related to traces loaded from a state file being overwritten by inadvertent sweeping immediately after loading

Version 17.1.0

- Added calibration kit S911
- Increased size of calibration kit list to 50
- Added calibration kit descriptions

Version 16.4.2

- Added display for temperature readout
- Fixed a bug related to the capitalization of Touchstone files
- Fixed a bug causing a crash when certain settings were input to port extension
- Fixed a bug that caused Demo mode to hang when using segmented sweep

Version 16.3.5

- Fixed a bug causing a crash when using automatic port extension
- Fixed a bug related to SCPI commands including SENS:CORR:EXT:PORT:xxx
- Improved the Phase Offset feature so it is no longer limited to a range of +/- 360 degrees
- Improved auto-detection algorithms for connected devices
- Fixed a bug related to limit line behavior in the log sweep mode

Version 16.3.1

Fixed a bug related to programmatically defining a segment table when the first segment has a single point

Version 16.3.0

Added default to last path for each save and load file according to type, including across sessions

Changed output power adjustment to use increments of 0.1 dB

Added an option to fix the grid. When enabled, the plot is always divided into 10 vertical grid lines

Added files regserver.bat and unregserver.bat to installer package, for easier registration of the COM server

Improved calibration status and progress indications when used with an ACM module

Fixed the commands SCPI.CALCulate.SELEcted.MARKer.Y and CALCulate # [SELEcted] MARKer # Y; data is now returned correctly

Fixed a bug related to recall of State files of type All with time domain enabled

Markers now persist across switches between frequency and time domain

During calibration, measurement results are now displayed in the measurement window

Added support for COM DCOM and SCPI commands for charting a memory trace and data trace

Version 16.2.1

Added a control for displaying data and/or memory traces

Added markers capability to the memory trace

Fixed a bug related to simultaneous use of Gating and Z-transform

Version 16.2.0

Added automatic main window and font size adjustments according to screen resolution

Disabled access to plug-ins menu when COM server is unregistered

Added the software version number to the header of the main window

Version 16.1.7

Improved buffering of SCPI commands for TCP Socket

Fixed a bug in the SCPI command for calibration of THRU

Added independent control of marker color

Version 16.1.4

Fixed a bug related to use of socket interface in binary data format (REAL, REAL32)

Added power calibration support for the Keysight U8481A power meter

Added support for recall of *.ckd files created with S2VNA and S4VNA

Added a COM command for control of standby mode SCPI.SYSTem.STANdby

Version 16.1.2

Fixed a bug related to recalling Channels A, B, C, and D

Version 16.1.0

IMPORTANT: All instruments in the R Family (1-Port VNAs) now share a common installer and software; device type can be dynamically detected or manually set on the System->Misc Setup menu. Version 16.1.2 supports the Planar R54 and R140 devices

IMPORTANT: This software release includes significant changes to of demo/simulator mode: During installation, select whether the software should run in a demo/simulator mode or not. This setting can be changed later on the System->Misc Setup menu

IMPORTANT: The version number now reflects the year of release, major, and minor revisions; it is unified across software families

Updated the LabView driver to match the new COM interface name

Updated Programming Examples and Guides to reflect the new COM interface name

Added independent marker color control and improved the color theme of the user interface

Changed the application icon

Version 15.4.0

Unified the software installer across all Planar series reflectometers (R family of instruments)

Changed the COM interface to the more universal name: IRVNAPtr

Added a new more universal name for the COM server: RVNA.Application

Added a panel at the top of the UI with "quick buttons"

Fixed a bug related to disabling output power via COM interface; added new COM command for RF output control

Version 2.6.0

Added SCPI interface for remote control via IP/TCP socket

Added SCPI programming guide and sample program in Visual C ++

Added error messages related to failed loading of an S2P file

Added a graphical indication of gating time range when time domain mode is enabled

Added sliders for dialogue boxes to scroll through lists

Added the ability to run custom extensions (plugins)

Added plugin for simulation of matching networks defined by circuit elements

Added ability to erase user characterizations from the ACM

Added calibration kit definitions for N911 / 912

Fixed a bug related to ACM information requests via the COM interface

Optimized memory usage when working with a large number of points

Version 2.5.9

Fixed a bug in the COM server interface related to obtaining raw complex data

Added version information to the splash screen

Added Real and Imag display format options

Updated and reformatted Operating Manual and Programming Manual

Version 2.5.8

Fixed a bug in the COM server related to the Touchstone file interface

Version 2.5.7

Fixed a minor bug related to the Smith Chart display Scale setting

Added a trace pointer to Smith Chart and Polar display formats

Added support for SCPI commands via VXI-11 remote management protocol (software is available on request)

UI changed to resolve overloaded dialogs

Fixed a minor bug when working with tables, including an issue related to scrolling mode after entering data

Fixed a bug in the COM server associated with marker numbering in the calculation of statistics over a range

Fixed a bug which could cause an application crash when switching from external to internal trigger

Implemented segmented scan with delay enabled for points

Version 2.5.5

The maximum number of points is increased to 100001

Fixed a minor bug when saving / restoring calibration kits; data save/restore was applied to the active kit instead of the kit selected in the list

Version 2.5.4

In absolute measurements, phase is now normalized to the reference channel

The software has a single COM-server (type library) for all instruments of the R series
LabView driver released (CMT R Series VNA)

Version 2.5.3

Fixed a bug causing trace statistics function to not work in the absence of markers

Fixed a typo the command group SCPI.SENSE.SWEp.REVerse

Eliminated fading demo mode when changing the parameters of the sweep

Fixed a bug related to stimulus information displayed inside softkeys

Version 2.5.2

- Added waveguide calibration (1/8 Offset Short, 3/8 Offset Short, Load)
- Added waveguide calibration kits (WR284, WR229, WR187, WR159, WR137 A-INFO)
- Fixed error related to accessing the calibration menu

Version 2.5.1

- Fixed bug in math traces related to Z transform
- Fixed a bug related to multiple channels

Version 2.5.0

- Added reverse frequency sweep feature
- Added feature to turn off the frequency axis and marker times/frequencies

Version 2.4.9

- Modified the frequency synthesis algorithm to increase the precision of frequency adjustments
- Expanded the list of IF filters to include 1 Hz
- Changed the automatic frequency adjustment mechanism for the x2 devices
- Added interactive website and support email in the About dialog box
- Fixed data for N1.1 calibration kit

Version 2.4.8

- Improved USB functionality related to PC Sleep/Standby and wake

Version 2.4.7

- Added trace allocation/maximization within the channel window
- Added control of the user interface color scheme
- Fixed a bug in the programming command for screenshot color
- Added function to save/restore calibration kit files

Version 2.4.6

- Improved code stability related to use of calibration standards defined by S1P files

Version 2.4.5

- Fixed a bug related to saving state after disabling the reference marker

Version 2.4.4

- Added display of center while selecting "Center/Span" for stimulus
- Fixed minor issues in VSWR calculation
- For trigger Mode Single/Hold, added a manual Trigger button to start the sweep
- Moved the standby softkey to the System menu
- Changed marker edit behavior when reference marker is enabled; now can edit in the offset or absolute frequency
- Bandwidth search supports notch filter, for searching from null up to a specified level
- Added selection of units for Touchstone files: Hz, kHz , MHz , GHz
- Fixed N612 calibration kit coefficients
- Fixed bug in cable loss correction (DTF Return Loss)

Version 2.4.1 - 2.4.3

- Fixed error when loading S2P for embedding/de-embedding
- Minor changes in the interface
- Bug fixes in the COM/DCOM command for Save calibration
- Support ACM via COM/DCOM

Version 2.4

- Examples of COM/DCOM now work with the English version of MS Excel.
- Added support for printing with chart templates into MS Word; expanded print menu.
- Added support for loading S1P, S2P files into memory as the active trace, the memory trace or measured S-parameters (which stops scanning).
- Extended menu persistence (condition, condition + calibration + track condition , all options)
- COM/DCOM command set supplemented to store the calibration file
- Implemented independent calibration for each channel
- Added the ability to save the calibration to file and restore from file
- Added option for port extension
- Added automatic port extension
- Added Max Hold function
- Added option to save/restore the state of the channel
- Fixed bug related to marker behavior when at the top of the chart (marker now flips)
- Added automatic driver installation and registration of COM server to installer
- Added support for Automatic Calibration Modules ACM6000T, ACM8000T

Version 2.3

- Added calibration status display to the channel window
- Supplemented controls for inputting electrical delay and phase shift
- Moved submenu Gating to submenu Analysis

- Added ability to load Touchstone files into memory trace data (S11) (*. S1p, *. S2p)
- Added support for negative values of the stimulus (time/distance) in DTF mode
- Fixed a bug that occurs while switching averaging over N- Emersion mode measurements and / or Exceptions impedance conversion circuits

Version 2.2

- Fixed a bug in the Display menu dialogue
- Updated Operating Manual
- For R140x2, synchronization mode has been added on the input trigger and associated mode frequency of the reference oscillator

Version 2.1

- Fixed a bug in the COM/DCOM “Remote” Operation Mode

Version 2.0

- Added ability to maximize a channel window.
- Added control of the synchronization source
- Any number of measuring points can be set up in an interval from 2 to 16,001
- Added time selection (Gating)
- Fixed COM/DCOM issue with starting up multiple copies of the application
- Added automatic registration of COM server at startup
- Added blocking/unblocking user intervention to COM/DCOM
- Added control on visibility of the main window to COM/DCOM
- Updated Programming and Operating Manuals

Version 1.9

- Fixed issue with recalling user state with calibration.

- Fixed issue with incorrect number of frequency points being returned to COM client when segment frequency scan is use

Version 1.8

- Added additional program switches to be used by authorized service centers.

Version 1.7

- Fixed issue with saving trace data using csv format in the time domain for distance units of measure (meters, feet, etc.).
- Added ability to disable system correction

Version 1.6

- Fixed incorrect averaging of complex data when averaging over n-measurements
- Added selection, saving, recall and editing cable description tables