

# **Instrument Software Revision History**

Keysight M9421A VXT PXIe Vector Transceiver

- **M9421A (VXT PXIe Vector Transceiver)**

**Version M.23.09 (Release Date June, 2019)**

**Enhancement:**

- Support Touch UI in WLAN measurement mode
- Support Sequence Analyzer for MS (Uplink) (Softkey only)
- Support binary waveform file playback by IVI driver

**Issues Resolved:**

- Source fails to arm in single trigger model when loading specific waveform sequence file
- Measurement speed issue over time
- PXI trigger doesn't work after changing gate source from periodic timer
- Exceptions caused by FEC Self-test when starting VSA application for VXT
- File "DeviceIO.config" is not properly configured

---

- **M9421A (VXT PXIe Vector Transceiver)**

**Version M.21.13 (Release Date Sep, 2018)**

**Enhancement:**

- Support Touch UI in IQ Analyzer, LTE LTE-A TDD/FDD and 5G NR measurement mode
- ACP measurement  
Integration Pass Band -6dB

- WLAN 802.11ax V2.2  
EVM & symbol clock error Pass/Fail limit updates  
Single Acquisition in Auto Detection
- LTE-Advanced FDD  
R13: UL PUCCH format 4/5 demodulation

### **Issues Resolved:**

- WLAN Sequence Mask measurement result is not correct when overlap function is enable
- Source Output Shifts After Initialization
- 8x8 MIMO EVM can't work at first time switch from sequence mode

---

### ● **M9421A (VXT PXIe Vector Transceiver)**

#### **Version M.20.37 (Release Date June, 2018)**

- Support Windows 10 operating system
- Support M8920A Radio Test Set

### **Enhancement:**

- LTE-A FDD  
NB-IoT LTE-A Pro R13 enhancement  
eMTC LTE-A Pro R13 enhancement
- WLAN 802.11ax  
L-SIG symb, CPE degree, Packet Extension Duration

### **Issues Resolved:**

- MIMO state saved under M.18.xx version cannot run under M.19.xx version
- State File Doesn't Recall All Parameters in NB-IoT Measurement Mode

- 
- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.19.56 (Release Date Dec, 2017)**

**Issues Resolved:**

- Incorrect SCPI command for RFIO HD port control
- Marker out (as trigger) synchronization issue
- Jitter issue of 200 MHz clock edge between backplane 10 MHz edge
- 3 dB error of the readout in multi-offset versus single offset when testing GSM ORFS
- Video Trigger hold off can't work under SEQAN mode
- Compatibility issue with M9010A chassis

- 
- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.19.31 (Release Date Aug, 2017)**

- Support following features for application software
- Bluetooth 5.0:  
Decode Advertisement packet and device ID  
Coded 1Ms/s (#4.6.10 and #4.6.11)
- WLAN 802.11ax:  
Optimize EVM  
In band emission  
SIG-A decoding
- NB-IoT:  
In-band mode

TAE  
Standard Preset for ACP/SEM/CHP/OBW  
DL EVM traces  
Repetition and multi-RU

---

● M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.19.07 (Release Date Apr, 2017)**

- Support "Y" license.
- Bluetooth 5.0 support Y9081A-3FP
- 802.11ax Y9077A-8FP
- NB-IoT & eMTC Y9080B-3FP

**Issues Resolved:**

- WLAN mode - ACLR need support the gate method "FFT" but the menu is gray and the method can set to "LO" and "VID" via SCPI
  - Sequence Analyzer Mode help file not available
- 

● M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.18.41 (Release Date Feb, 2017)**

**Issues Resolved:**

- Added WLAN MIMO EVM vs symbol for channel display
  - Fixed the Source Sequence list play issue
  - Fixed memory leakage issue when switching to Eq Imp Response view under WLAN MIMO measurement
  - Fixed WLAN MIMO 8x8 random sync issue
-

- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.18.34 (Release Date Dec, 2016)**

- Added MIMO support for WLAN application

**Issues Resolved:**

- Fixed N9077A license description issue in system
  - Corrected M9420A IVI drivers' name.
  - Fixed User Info Summary view via SCPI commands
  - Fixed temperature recording incorrect issue of RF Response alignment
  - Fixed input marker delay issue in IQ mode
  - Fixed the source RMS value sync issue
  - Max frequency is incorrect when only install option "504" and "B40"
- 

- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.18.04 (Release Date Aug, 2016)**

- Added support to M9421A

**Issues Resolved:**

- Fixed trigger line setting conflict issue
  - Fixed the trigger and data acquisition timing issue after switching between IVI driver and XSA
  - Fixed filter implementation issue of FFT acquisition mode
-

- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.16.57 (Release Date Mar, 2016)**

**Issues Resolved:**

- Cannot recognize the waveform marker files with extensions .MARKERS
  - Fixed RF blanking Marker Polarity issue
  - Removed the “\*PRELIMINARY\*” from the title of SFP
  - Installation failure on fresh PC
- 

- M9420A, M9421A (VXT PXIe Vector Transceiver)

**Version M.16.50 (Release Date Nov, 2015)**

Initial release