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N6421A WiMAX™ Protocol Logging and Analysis Revision History

epsg1126386

Application Compatibility Matrix:

| E6651A | E6651A API | N6421A | N6421A API | E6655A | E6655A API | N6422C | N6423C |
|---------|---------------|---------|---------------|---------|---------------|---------|---------|
| x.6.1.0 | 6.6.1.0 | 6.6.1.0 | 6.6.1.0 | 6.6.1.0 | 6.6.1.0 | - | - |
| x.5.3.0 | 6.5.3.0 | 6.5.3.0 | - | 6.5.3.0 | 6.5.3.0 | C.06.00 | C.06.00 |
| x.5.1.0 | 6.5.1.0 | 6.5.1.0 | - | 6.5.2.0 | 6.5.2.0 | - | - |
| x.5.1.0 | 6.5.1.0 | 6.5.1.0 | - | 6.5.1.0 | - | - | - |
| x.4.2.0 | 6.4.2.0 | 6.4.2.0 | - | 6.4.2.0 | - | C.05.00 | C.05.00 |
| x.4.1.0 | 6.4.1.0 | 6.4.1.0 | - | 6.4.1.0 | - | - | - |
| x.3.3.0 | 6.3.3.0 | 6.3.1.0 | - | 6.3.1.0 | - | C.04.00 | C.04.00 |
| x.3.1.0 | 6.3.1.0 | 6.3.1.0 | - | 6.3.1.0 | - | C.03.00 | C.03.00 |
| 5.2.1.1 | 5.2.1.0 | 5.2.1.1 | - | 5.2.1.0 | - | C.02.05 | C.02.05 |
| 5.1.1.0 | 5.1.1.0 | 5.1.1.0 | - | 5.1.1.0 | - | - | - |
| 5.0.1.0 | 5.0.1.0 | 5.0.1.0 | - | 5.0.1.0 | - | - | - |

N6421A Revision 6.5.1.0 – May 14th 2010 – Feature Release

Requires E6651A firmware revision 5.65.1.0 or 6.6.1.0

Protocol Logging Application, New Features

- Erroneous reserved fields, HCS and CRC are now highlighted in red
- Log files can be saved from N6421A memory even if logging was not enabled when the log was captured
- DRM files can now be opened by double-clicking on the DRM from windows
- Messages can be ordered by frame number - this may be useful when many messages are being logged from different layers and directions of the WiMAX stack and are shown in the N6421A as being apparently out of order.
- "Read Only" mode created for N6421A Protocol Logging application to allow multiple N6421A windows to be open to compare logs.
- Name of replayed log file displayed on bottom banner
- Added FFCH decode viewer to display information from FastFeedback region (CQICH, HARQ ACK/NACK)
- Additional filtering to hide DCD, UCD and FCH messages if required (Note: BW-REQ messages can already be filtered).
- Enhanced PKM / EAP message decoding

Protocol Analysis Application, New Features

- Messages are ordered by frame number and not sequence number

- Added FFCH decode viewer to display information from FastFeedback region (CQICH, HARQ ACK/NACK)
- Enhanced PKM / EAP message decoding

Previous Release Information

N6421A Revision 6.5.1.0 – April 30th 2009 – Feature Release

Requires E6651A firmware revision 5.5.1.0 or 6.5.1.0

New features

- Alignment with E6651A firmware releases 6.5.1.0 and 5.5.1.0
- All concatenated PDUs in a burst are decoded.
- DL MAP and UL MAP decode modified to show DIUC value.
- Compressed and sub-MAP content logging supported.
- HARQ Test Mode supported
- Re-use factor 3 decoding.

Maintenance

- Improvements to HARQ burst/sub-burst displays
- Improved playback speed of pre-saved logs
- Fixed DL MAP drawing for FUSC and AMC
- N6421A connection to E6651A more reliable with multiple LAN connections.
- SS MAC Address now decoded in RNG-REQ messages.

N6421A Revision 6.4.2.0 – October 31st 2008 – Maintenance Release

Requires E6651A firmware revision 5.4.2.0 or 6.4.2.0

Maintenance Release

- DLMAP CRC correctly decoded
- DLMAP graphical display can support 5MHz bandwidth
- Minor UI modifications in Protocol Analysis
- Fixed decoding problems for REG-REQ, DLMAP(HARQ_ACK_IE), DSD-REQ
- Hex code export fixed in Protocol Analysis

N6421A Revision 6.4.1.0 – September 4th 2008 – Feature Release

Requires E6651A firmware revision 5.4.1.0 or 6.4.1.0

New features

- CID Information - added user configurable CID information for decoding
- DLMAP Logging - supports Downlink Map logging

N6421A Revision 6.3.1.0 – March 28th 2008 – Feature Release

Requires E6651A firmware revision 5.3.1.0 or 6.3.1.0

New features

- Support for Wave 2 features in 6.3.1.0 firmware

N6421A WiMAX Protocol Logging and Analysis Revision 5.2.1.1

Requires E6651A firmware revision 5.2.1.1

New features

- IPX Protocol no longer required – Test Set IP address required
- End-to-end logging
- Logging of Downlink Ping and UDP Tests

N6421A WiMAX Protocol Logging and Analysis Revision 5.1.1.0

Requires E6651A firmware revision 5.1.1.0

New features

- Added PCT Viewer for the Agilent N6430A series Protocol Conformance Test and Development Solution
- Added UL MAP display and decode
- Added selection for specification version (802.16e | 802.16-2004 Cor2/D3)

When released, updates are available for download from <http://www.agilent.com/find/E6651A>. To receive notification of updates, please subscribe to the Agilent e-mail update service at <http://www.agilent.com/find/emailupdates>.

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