

Handheld WCDMA/ LTE Service and Applications Testing

The market-leading Viavi Solutions® handheld optimization solution now tests user applications such as Facebook, Twitter, Skype, WhatsApp, and SpeedTest.

Viavi lets you measure the experience of an end user running the most popular apps while simultaneously measuring RF network performance.

TestMeNow
Simple one-button testing for voice, web, and data

Detailed Visibility
Easily view and customize the parameters you need

Outdoors: Google Maps
Test outdoors and view results with Google Maps

Simulate Subscriber Behavior
Test services the way subscribers use them with simple parallel sequencing

Applications Testing
Benchmark the performance of end-user applications and troubleshoot RF vs. service issues

Indoor: Floor Plans
Perform detailed indoor analysis, where most of your traffic originates, without GPS

Easy to Use
An intuitive interface lets virtually any-one test

Key Benefits

- Understand how users experience the network**
Test the end-to-end performance of real applications over the network and benchmark against competitors to limit churn
- Virtually any technician can capture data, anywhere**
Discreetly collect data and send results via FTP for expert analysis
- Test with the devices your subscribers use**
Measure the real customer experience using supported Android™ devices
- Quickly analyze WCDMA and LTE parameters**
Engineering mode lets your experts see all associated measurements for GSM, GPRS, WCDMA, HSDPA, LTE, and WiFi
- In-sequence forcing**
Ensure consistent, repeatable testing by forcing within the test sequence

Supported Measurements

LTE Cell Info Parameters	LTE ML1 Serving Cell Measurements	LTE Serving and Neighbor Parameters	LTE Demodulation Configuration Parameters	LTE RACH Request Response Parameters	LTE Advance SCC Parameters	LTE Path Loss Result Parameter
<ul style="list-style-type: none"> Cell identity Physical cell ID Tracking area code MCC MNC DL E-ARFCN UL E-ARFCN DL bandwidth UL bandwidth Band indicator Allowed access RLC Rx throughput RLC Tx throughput MAC UL throughput MAC DL throughput Total PDCP Tx throughput (kbps) Total PDCP Rx throughput (kbps) LTE mode LTE TDD SF assignment LTE TDD special SF patterns CQI CWO CQI CW1 	<ul style="list-style-type: none"> RSSI Rx(0) dBm RSSI Rx(1) dBm RSSI dBm RSRP Rx(0) dBm RSRP Rx(1) dBm RSRP dBm RSRQ Rx(0) dBm RSRQ Rx(1) dBm RSRQ dBm SINR Rx(0) dB SINR Rx(1) dB 	<ul style="list-style-type: none"> Serving E-ARFCN Serving physical cell ID Serving RSRP (dBm) Serving RSRQ (dB) Detected cells PCI Neighbor cell count N1 PCI N1 RSRP (dBm) N1 RSRQ (dB) N2 PCI N2 RSRP (dBm) N2 RSRQ (dB) N3 PCI N3 RSRP (dBm) N3 RSRQ (dB) N4 PCI N4 RSRP (dBm) N4 RSRQ (dB) 	<ul style="list-style-type: none"> PDSCH RNTI ID PDSCH RNTI type Number of Tx antennas Number of Rx antennas PRACH Tx power (dBm) Transmission mode Spatial rank RB allocation for slot 0 (%) RB allocation for slot 1 (%) Frequency selective PMI PMI index Stream 0 TBS (bits) Stream 0 modulation Traffic-to-pilot block ratio Stream 1 TBS (bits) Stream 1 modulation PB 	<p>Request</p> <ul style="list-style-type: none"> RACH RNTI RACH preamble Cyclic shift PRACH Tx power (dBm) Transmission mode Spatial rank RB allocation for slot 0 (%) RB allocation for slot 1 (%) Frequency selective PMI PMI index Stream 0 TBS (bits) Stream 0 modulation Traffic-to-pilot block ratio Stream 1 TBS (bits) Stream 1 modulation PB <p>Response</p> <ul style="list-style-type: none"> RACH response RX time Temporary C-RNTI MCS TPC for PUSCH Hopping flag UL delay CQI request RB assignment RACH procedure type RNTI type RNTI value 	<ul style="list-style-type: none"> SCC 1 – 7: serving EARFCN SCC 1 – 7: serving PCI SCC 1 – 7: neighbor cell count SCC 1 – 7: serving RSRQ SCC 1 – 7: serving RSRP 	<ul style="list-style-type: none"> SIB 2 RS power (dBm) DL path loss (dB) SIB 2 PONomPUCCH power (dBm) PUCCH Tx power (dBm) UL path loss(dB) Path loss imbalance indicator Path loss imbalance magnitude
GSM Parameters		GPRS/EDGE Parameters	UMTS Parameters	HSDPA HSUPA Parameters	IMS/RTP Parameters (requires VoLTE license)	Summary Parameters
<ul style="list-style-type: none"> ARFCN BCCH BSIC Cell ID MCC MNC LAC Mode Rx level full Rx level sub Rx qual full Rx qual sub Timeslot Timing advance Tx level C1 C2 DSF DTX FER HSN HOP LIST HOP FLAG MAIO RLT Neighbor 1 – 6: BCCH Neighbor 1 – 6: BSIC Neighbor 1 – 6: C1 Neighbor 1 – 6: C2 Neighbor 1 – 6: RXLEV 		<ul style="list-style-type: none"> C/I EGPRS DL CS EGPRS UL CS EDGE support ACC burst type Allocation type Control ACK type DL TS allocation UL TS allocation ACK mode DL CS DL TBF state DL TFI UL CS UL TBF state UL TFI DL LLC throughput DL RLC/MAC throughput UL LLC throughput UL RLC/MAC throughput DL RTX RLC block rate UL RTX RLC blocks UL TX RLC blocks DL RX RLC blocks 	<ul style="list-style-type: none"> Serving UARFCN Serving SC Serving Ec/Io (dB) Serving RSCP (dBm) CELL ID RRC state RX power TX power SC MCC SC MNC RLC DL throughput (kbps) RLC UL throughput (kbps) BLER No trans channels Trans channel ind Active RSSI Neighbor 1 – 5: UARFCN Neighbor 1 – 5: RSSI Neighbor 1 – 5: SC Neighbor 1 – 5: Ec/Io Neighbor 1 – 5: RSCP Detected 1 – 5: UARFCN Detected 1 – 5: RSSI Detected 1 – 5: SC Detected 1 – 5: Ec/Io 	<p>HSDPA</p> <ul style="list-style-type: none"> AVG MAC rate AVG schedule rate AVG served rate Modulation scheme DL HS-PDSCH BLER DL HSDPA throughput CQI sample count CQI valid count CQI average % ACKS & NACKS % DTX <p>HSUPA</p> <ul style="list-style-type: none"> TTI in use Primary E-RNTI Secondary E-RNTI HSUPA HARQ throughput (Kbps) HSUPA BLER (%) Happy bits (%) Not-happy bits (%) 	<ul style="list-style-type: none"> IMS session setup status IMS session setup time IMS session handshake time Codec type Packet loss Inter arrival jitter R-factor R-factor MOS 	<ul style="list-style-type: none"> Satellites visible Satellites tracked Battery status Battery level Current running test HTTP throughput FTP GET DL throughput FTP GET DL Interim throughput FTP PUT DL throughput FTP PUT DL Interim throughput FTP GET DL throughput IPERF DL throughput IPERF UL throughput SPEED latency SPEED DL rate SPEED UL rate VOICE call setup time VOICE MoS score VOICE attenuation VOICE ref sample rate VOICE rec sample rate VOICE ref SNR VOICE rec SNR VOICE ref active speech ratio VOICE rec active speech ratio



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