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.

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

Handheld WCDMA/ LTE Service and Applications Testing
## Supported Measurements

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</tbody>
</table>

### GSM Parameters
- ARFCN
- BCH
- Cell ID
- MCC
- MNC
- LAC
- Mode
- Rx level
- 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: BCC
- Neighbor 1 – 6: BSIC
- Neighbor 1 – 6: C1
- Neighbor 1 – 6: C2
- Neighbor 1 – 6: RXLEV

### GPRS/EDGE Parameters
- C1I
- 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

### UMTS Parameters
- 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)
- No trans channels
- Transmission channel
- Active RSI
- Neighbor 1 – 5: UARFCN
- Neighbor 1 – 5: RSI
- Neighbor 1 – 5: Ec/Io
- Neighbor 1 – 5: RSCP
- Detected 1 – 5: UARFCN
- Detected 1 – 5: RSI
- Detected 1 – 5: Ec/Io

### HSDPA HSUPA Parameters
- AVG MAC rate
- AVG schedule rate
- AVG served rate
- Modulation scheme
- DL HS-PDSCH BLER
- DL HS-DSDPA throughput
- CQI sample count
- CQI valid count
- CQI average
- % ACK
- % NACKS
- % DTX

### IMS/RTTP Parameters
- IMS session setup status
- IMS session setup time
- IMS session handshake time
- Codec type
- Packet loss
- Inter arrival jitter
- R-factor
- R-factor MOS

### Satellite Parameters
- 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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