Skylight™

Wireless network survey for 5G NR, LTE, EVDO, CMA2k, UMTS, GSM

FLEXIBLE 5G NETWORK SCANNING FOR EPIQ SOLUTIONS SDRS

QUICKLY REVEAL A COMPLETE PICTURE OF YOUR WIRELESS ENVIRONMENT

Skylight is a commercially-available cellular scanning and survey software that provides comprehensive and flexible network analysis. The software decodes cell broadcast messages containing system information and displays a complete picture of your cellular environment to its simple, intuitive user interface or its easily integrated API. The application is designed for efficiency so you can access first results within seconds, perfect for blind surveys and high performance drive tests. When used with a radically small Epiq Solutions' software-defined radio (SDR), Skylight allows you to see results and make decisions on mobile devices without the need for additional, bulky equipment. Skylight's API enables remote survey operations, is compatible with widely deployed DoD applications, and can be easily integrated with other systems and applications.

SPECTRUM MANAGEMENT

Survey and analyze environment to determine spectrum usage in ways simple RF analysis methods fall short.

DRIVE TEST

Quickly collect, log, and export network survey data for a complete scan of carriers and technologies.

IN-BUILDING TEST

Verify coverage and quickly identify service issues in complex in-building and DAS environments.

INDEPENDENT VERIFICATION

Easily verify network configuration independently from network operator.

WALK TEST

Industry-leading handheld SDRs discreetly and quickly scan networks while you walk.

BASE STATION LOCATION

Automatically locate base stations while conducting a survey.

RUNS ON HOST PLATFORMS

Epiq Solutions SDRs define state-of-the-art in small form factor and low power consumption, providing an ideal host platform for low visibility mobile survey applications. As a survey is performed, results can be sent over Wi-Fi or USB to Android or other supported devices.

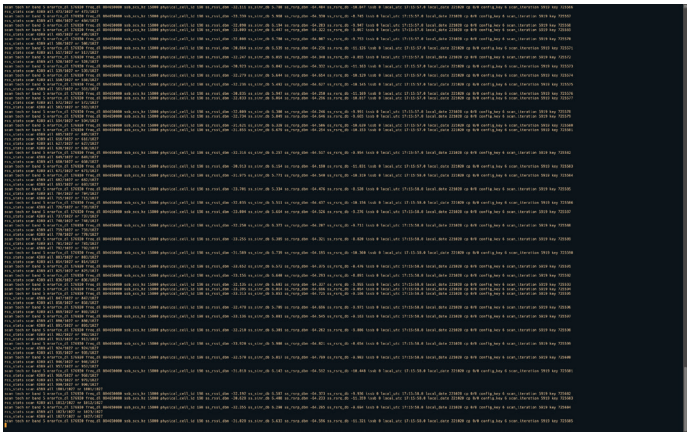
Matchstiq Z Series Platforms

Commercial Laptops

Matchstiq S Series Platforms

API INTERFACE:

Skylight has a text-based command and control interface available via a configurable TCP port. This option gives users the flexibility to develop their own integrations of Skylight or set up automated network scanning. Full-featured API enables embedments and has been successfully integrated with DoD's RaptorX applications.



SAMPLE PARAMETERS

5G (NR)

Band, Channel, SSB Subcarrier Spacing, Physical Cell ID, SS-RSSI, SS-SINR, SS-RSRP, SS-RSRQ, SSB Beam Index, MIB

4G LTE (TD and FD)

Band, Channel, RSSI, RSRP, RSRQ, Transmit Antenna Count, System Frame Number, HARQ Information, Neighbor Cells, Downlink Bandwidth, FDD or TDD, Physical Cell ID, Global Cell ID, TAC, Cell Reselection Priority, MIB, SIB 1-21, SIB 24-26

UMTS/HSPA

Band, Channel, RSSI, Cell ID, PLMN, LAC, Ec/N0, Primary Scrambling Code (PSC), Neighbor Cells

EVDO

Band, Channel, RSSI, EC_IO, Maximum Revision, Minimum Revision, Pilot PN Offset, MCC, Sector ID, Channels, Neighbors, Extended Channels, Layer 3 Sync Channel, Layer 3 Sync Message

CDMA2K

Band, Channel, SID, NID, Pilot PN Offset, Reg Period, Reg Zone ID, Base ID, Base Class, MCC, Neighbor Cells, Channel, RSSI, EC_IO, Page Channel, Layer 3 Messages

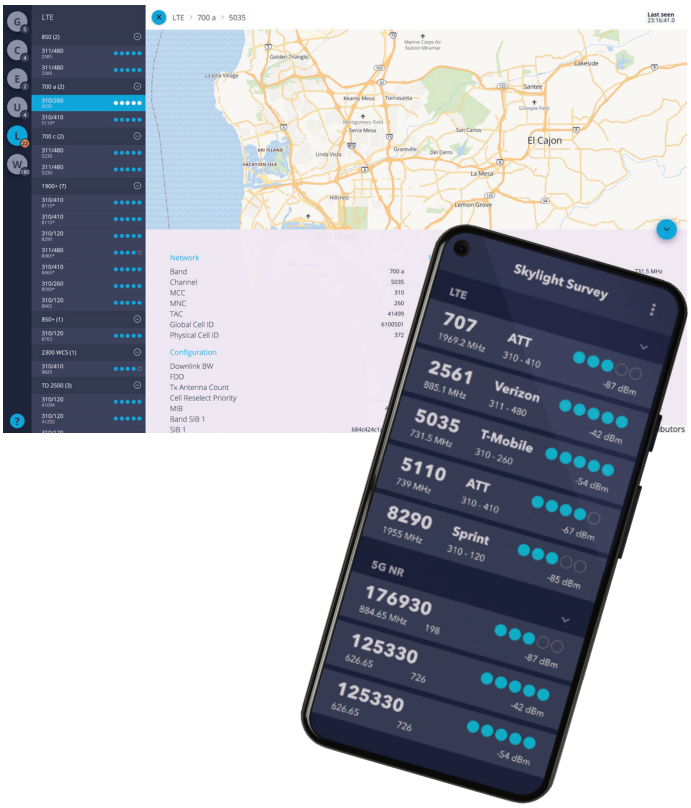
GSM

Band, Channel, RSSI, Cell ID, PLMN, LAC, Neighbor Cells

EASY TO CONFIGURE AND MONITOR - TWO WAYS

WEB UI:

Use any computer, tablet or smartphone with a modern browser to configure and monitor Skylight via a network connection. Skylight can serve as its own UI so there is no additional software required to download and install.



Specifications subject to change without notice.
Epiq Solutions is a business dedicated to advancing RF technology through products designed and manufactured in the U.S.A.
Epiq Solutions exports its products strictly in accordance with all US Export Control laws and regulations which shall apply to any purchase or order.

Rev 1.0

epiqsolutions.com
sales@epiqsolutions.com
847 598 0218

3740 Industrial Ave,
Rolling Meadows, IL 60008