





Computer-Based Network Measurement and Reporting Tool

Product Description

SeeHawk Studio, part of the SeeHawk Engage family, is a computer-based drive testing and post-processing tool. SeeHawk Studio is offered for all major PC platforms, including Windows, Mac OSX, and Linux, so standard office computers can also be used for drive testing. SeeHawk Studio supports both traditional USB-connected test mobiles and Bluetooth-connected SeeHawk Engage User Equipment (UE) devices. SeeHawk Studio also allows users to remotely control their Engage devices in the field via the cloud. This gives you unparalleled flexibility and ensures that you can conduct all measurements in the most efficient way for your testing needs.

SeeHawk Studio's software licensing system allows you to easily transfer licenses from one laptop to another. It can also save you money by reducing the need for extra licenses. Automatic software updates guarantee that you are always running the latest software. SeeHawk Studio also features cloud-based device management so that you can control your SeeHawk-enabled UEs remotely.

SeeHawk Engage™ Advantage

- Fully automated updates via the cloud ensure that your software is always up to date.
- Supports most popular off-the-shelf phones and tablets.
- Remote configuration via the cloud allows easy control of your SeeHawk Engage test tool fleet.
- Log file storage and export in the cloud allows you to make the most out of your data.

Key Features

- Available on all major platforms (Windows, Mac, Linux)
- Supports major cellular technologies such as CDMA, EV-DO, GSM, UMTS, and LTE, all in one tool
- Advanced playback, troubleshooting, and reporting capabilities
- Supports multiple devices simultaneously
- Transferrable license allows you to move your software from one laptop to another with ease
- Supports direct device connectivity via USB
- Can connect to SeeHawk Engage UEs via Bluetooth
- Powerful real-time visualization of measurement data
- Extensive application testing
- Wi-Fi and Bluetooth measurements
- Cloud integration for easy management and file transfer



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SeeHawk[™] Studio Features

SeeHawk Studio is designed to handle testing across today's heterogeneous multi-technology, multiband networks with ease by connecting multiple devices through Bluetooth or traditional USB.

When combined with multiple devices and scanners, it supports RF field testing applications across the network life cycle, from site surveys to commissioning to network benchmarking or acceptance testing through ongoing optimization testing. SeeHawk Studio also quickly generates plots and reports so that users can make intelligent decisions faster. These capabilities, combined with its floating license scheme and the power of the cloud-based measurement setup and management, make testing cost and resource effective.



Testing Capabilities

- Automated test sequencing with built-in scripting
- Forcing features for bands and technologies
- Channel/PCI locking
- Application Testing
 - Call with MOS SMS
 - FTP with multi-stream
 - FTPS
 - HTTP web browsing
 - HTTP file transfer
 - Ping
 - YouTube
- Detailed serving system information including System, Band, MNC, MCC, and CID
- Complete signal strength measurements for serving and neighbor channels

- Detailed uplink power control parameters
- Comprehensive set of RACH parameters such as TX Max, RX Min, TX Pwr, and Preambles
- Detailed information on packet scheduling (TBF state, TS allocation, CQI, and BLER %)
- Data throughput measurements
- Full Layer 3 and RRC signaling







- Line graph
- Bar graph
- Distribution graph
- Textual
- Historical textual view that always shows previous value

SIGNALING DISPLAY

- Highlight with color
- Filter in/out

APPLICATION TEST VIEW

• Real-time view for ongoing application testing (web, video, etc.)

MAP VIEW



Support for Google and OpenStreet maps

- Offline mode with map pre-loading
- Drive route coloring with user definable thematics







SeeHawk Engage in the Cloud

Total Control of Your Network Test Tools

Cloud-based remote control

SeeHawk Engage family measurement tools come with PCTEL's pre-configured cloud service. Simply log in, and you are ready to take advantage of its features.

SeeHawk automatically stores your log files in the cloud and allows you to download your measurements in various file formats.

From the cloud, you can also configure devices, manage or upload maps and scripts, and execute tests on your SeeHawk-enabled UEs remotely.

SeeHawk Engage's cloud service not only gives your SeeHawk Engage-enabled devices fully automated data storage for all drive and walk test files – it also gives you a simple way to control and configure your devices remotely.

SeeHawk Engage's cloud-based license management makes device management a breeze. Floating SeeHawk Engage licenses stay with each device only as long as they are needed.

You'll never need to lose time and money due to incorrect measurement settings. Remote configuration ensures that all the teams in the field use the correct settings when making measurements.

Key Features

- Free with SeeHawk Engage family tools, including 1 GB of file storage
- Zero configuration required
- Built-in measurement file export to the most common formats, such as MapInfo, Google Earth, ESRI, and CSV
- Indoor map support for iBwave format or image file formats such as JPB, PNG, and BMP
- Cell tower database for importing most popular cell tower formats and custom-defined CSV formats
- Device management, with the capability to push configuration settings to SeeHawk Engage family tools
- License management



Want to turn your data into actionable intelligence more quickly? Analyze your data quickly and easily through the integration of SeeHawk Engage with PCTEL's SeeHawk Analytics platform, featuring innovative algorithms for interference management and quick identification of network quality issues.

PCTEL, Inc. RF Solutions

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Parameters

GSM/EDGE

Detailed serving system information including System, Band, MNC, MCC, and CID

Serving cell: RSSI, BSIC, C/I, RXQ, FER, TA, RLT

Neighbor cell: RSSI, BSIC, Band

Hopping channel: HSN, MAIO

RACH parameters such as TX Max, RX Min, TX Pwr, RAND, and Paging mode

Detailed information on packet data: Modulation, Coding scheme, Timeslot allocation, BEP, TFI, and TBF

Data throughput measurements

Full Layer 3 signaling

CDMA/EVDO

Detailed serving system information including System, Band, SID, NID, and Reg Zone

Active set: PN, Ec/lo, RSCP

Candidate set: PN, Ec/Io, RSCP

Neighbor set: PN, Ec/Io, RSCP

Remaining set: PN, Ec/lo, RSCP

RACH parameters such as Probe number, Access RX level, Access TX adjust, and Interference correction

Detailed information on packet data: Modulation, Payload bits, ARQ Ack/Nack, SINR, and PER

Data throughput measurements

Full Layer 3 signaling

UMTS/HSPA

Detailed serving system information including System, Band, MNC, MCC, CID, RAI, LAI, and URAID

Active set: PSC, Ec/No, and RSCP

Monitored set: PSC, Ec/No, RSCP, and Intra/Inter

Detected set: PSC, Ec/No, RSCP, and Intra/Inter

RACH parameters such as Preambles, AICH, Signature, Subchannel, SFN, Timing, and TXPower

Detailed information on packet scheduling (TBF state, TS allocation, CQI, and BLER %)

Data throughput measurements

Full Layer 3 and RRC signaling

LTE

Detailed serving system information including System, Band, MNC, MCC, CID, TAC, and ARFCN

Active: PCI, RSRP, RSRQ, SINR

Neighbor: PCI, RSRP

MIMO measurements: Antenna count and measurements for each antenna

RACH parameters such as Preamble info, PRACH TX, SN, SNF, RNTI type, RNTI, and RA Timing Advance

Detailed information on packet scheduling (MSC, RB allocation, TBS Stream info, and bandwidth)

Data throughput measurements

Full Layer 3 and RRC signaling

VOICE QUALITY

POLQA MOS G.107 Rating Attenuation Line Noise level Sample rate (reference/measured) SNR (reference/measured) Level (reference/measured) Active speech ratio (reference/measured) Duration (reference/measured)

WI-FI
SSID
RSS
BSSID
Channel
Cryptset
BLUETOOTH
SSID

RSS BSSID Туре



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