Site Survey APP
Advanced Edition

COILER®
We Extend Your Coverage

Version VA3, January 20, 2015

Site Survey APP

Coiler's Site Survey APP is a powerful tool to measure and record signal quality on Android smartphone device. Unlike anything on the market, SSA possesses the ability to record and instantly analyze the tested info so immediate actions can be taken without the need of post processing software. It enables engineers to be more efficient with typical site survey scenarios. SSA is a new category of tool that every BTS engineer would like to have.

Networks & Parameters

SSA works on GSM , WCDMA, and LTE. Reading of different parameters can help network engineers diagnose signal quality & issues. Following are the lists supported frequencies and parameters for the different networks:

GSM 850/900/1800/1900
- RSSI*
- ARFCN*
- Cell ID*
- TX Power
- Rx level*
- C1/C2*
- MNC
- MCC
- LAC

WCDMA 850/900/1900/2100
- RSSI
- RSCP*
- Ec/Io*
- UARFCN*
- PSC*
- Cell ID
- MNC
- MCC
- LAC
- TX Power

LTE Band 1, 2, 3, 4, 5, 7, 8, 17, 20, 28, 40
- RSSI*
- RSRP*
- RSRQ*
- SINR
- EARFCN*
- PCI*
- Cell ID
- MCC
- MNC
- TAC
- PDSCH BLER
- Modulation
- PUCCH TX Power
- PUSCH TX Power
- Timing Advance
- CQI
- ANT0
- ANT1

**These parameters are shown for both serving and neighbor cell.*

Parameters in Graph

Certain parameters are more obvious when they are displayed in graph mode. Below is the list of different parameters that can be seen in graph form on the SSA, available for the particular type of the network picked:

WCDMA
- RSSI
- EcNo
- Tx Power
- BLER
- DL/UL FER
- DL/UL Throughput (PL)
- DL Throughput (APP)

LTE
- RSSI (0&1)
- SINR (0&1)
- RSRP (0&1)
- RSRQ (0&1)
- AGC Tx Power
- CQ
- PMI
- Rank / BWP Index
- BLER
- DL/UL Modulation Rate
- DL/UL Throughput (PL)
- DL Throughput (APP)
- RB Num
- Serving PCI / EARFCN
- MCS Index

Call Test Options

SSA is capable of making different types of calls according to script defined by user. It also allows to edit and save script for repeated testing. Following is the list of different types of call tests available:
- Voice Call
- HTTP Call
- FTP DL Call
- FTP UL Call
- VOD Call
- Ping Call
- Scenario Call
- Idle Logging

Layer 3 Actix Support

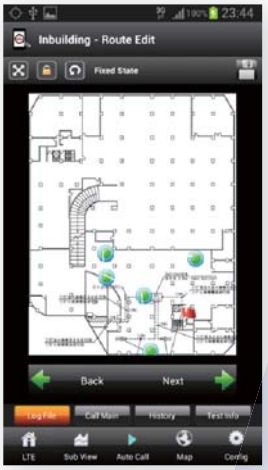
SSA logs contain layer 3 information which is essential for optimization & troubleshooting. Starting December of 2014, SSA logs are fully supported by Actix so operators with ongoing Actix support can seamlessly incorporate the use of SSA as a standard measurement tool.

Outdoor Testing

When call tests are done outdoors, the built-in GPS automatically pinpoints the location to show route travelled. BTS location can also be imported for an accurate network representation.

Indoor Testing

When call tests need to be done indoors, existing floor plans saved as .jpg or .png file can be loaded into SSA. If such file types are not available, it is also possible to take a picture of building exit map or even drawing the floorplan can also be done directly on the phone. Any of the three methods can be used to generate good representation of the testing location.



Test Result Report

Call test logs information can be viewed directly on the phone in report format. Reports main page utilize the pie chart to show call test event statistics. Events that are shown on main page include the following:

- Success
- Time Out
- Fail
- Drop
- Pend

Log Playback

Once a log is opened, a playback function can be initiated to simulate the test route recorded. During playback, the following types of information are synchronized:

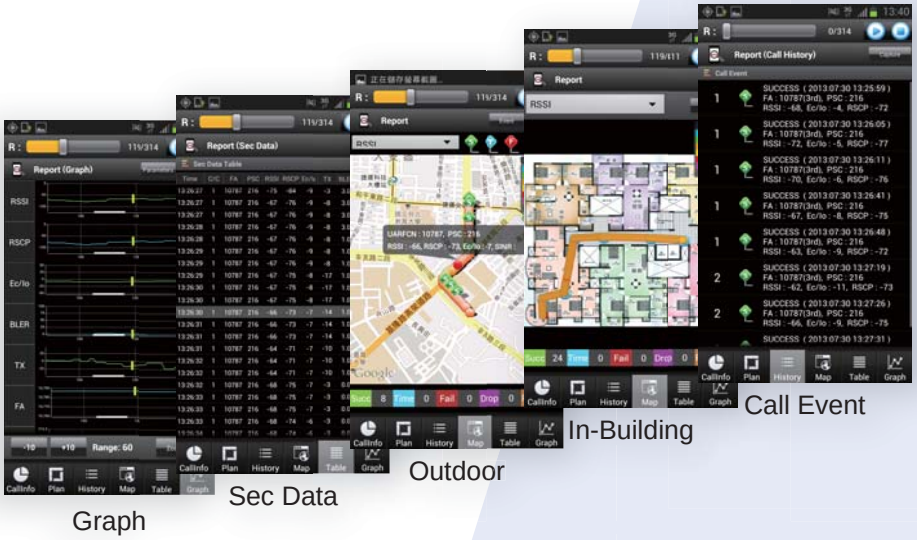
- Events
- Data in table
- Graph
- Map

In addition, any of the available parameters can be selected during playback, which allows for easy review without the need for a post processing software.

Voice Notifications

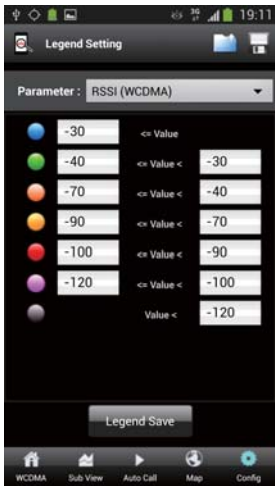
During call tests, voice notification would be provided to alert the user. During a drive test, this feature helps the driver to keep eyes on the road. Below is the list of voice notifications available:

- Start Testing
- Dialing
- Call Start
- Call Success
- Call Fail
- Call Drop
- Stop Testing



Legend Customization

Parameter legends can be customized by color & range individually for simple identification of signal qualities.



Data Export

Call test logs data can be exported into two different file formats: Excel and Google Earth files. Further data analysis can be done with all the data in excel table while better location pinpoint can be seen on Google Earth. Both types of exports can be done directly from the mobile device.

Excel Export

Google Earth Export

Supported Handset

Coiler SSA Professional currently is compatible to LG G3 which supports GSM 850/900/1800/1900, WCDMA 800/900/1900/2100, HSDPA, HSUPA, FDD LTE Band 1 (2100) / Band 2 (1900) / Band 3 (1800) / Band 4 (AWS) / Band 5 (850) / Band 7 (2600) Band 8 (900) / Band 17 (700bc) / Band 20 (800DD) / Band 28 (700) + TDD Band 40 (2300), and with built in GPS.

LG G3

Coming Soon

With the introduction of LTE Advance from 3GPP, CA (Carrier Aggregation) is the next phase of LTE development. SSA CA version has been developed and due to release with the next LG Flex 2. Stay tuned for release information.

We Extend Your Coverage

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