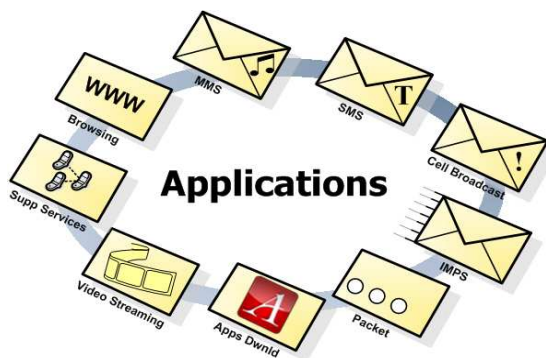# SAS-Lite

SAS-Lite is a simple and easy to use network simulator that offers real-world scenarios, applications, benchmarking, performance testing and in-depth signalling analysis for debugging and proving mobile devices.

SAS-Lite brings all the functionality of Anite's market leading interoperability tool "SAS" into a simple one or two transceiver package. Using the Graphical User Interface or Playback Scripts, SAS-Lite simulates complex GERAN and UTRAN (up to 3GPP Rel. 7) network scenarios and provides a level of testing which exceeds standard conformance tests. SAS-Lite reduces test costs by running repeatable, reproducible tests quicker than a changing live network environment.

SAS-Lite utilises the Anite real-time trace, logging and Protocol Data Unit (PDU) management tools to provide in-depth protocol performance analysis. Together with data throughput measurements, procedure set-up timing, combined and parallel procedures and multi-RAT handover, SAS-Lite tests the performance of mobile handsets to market-relevant and objective test requirements.

SAS-Lite includes a powerful cell configuration and management interface that allows the user to configure the network simulator to *real-world* scenarios. Users are able to create these scenarios manually, or use the default/sample network operator scenarios included in the SAS-Lite library.

Unique to Anite is the ability to import logs taken from Network Monitoring tools, like "Nemo Outdoor™", used for network operator testing programmes, debugging User Equipment (UE) and creating more realistic scenarios and scripts.
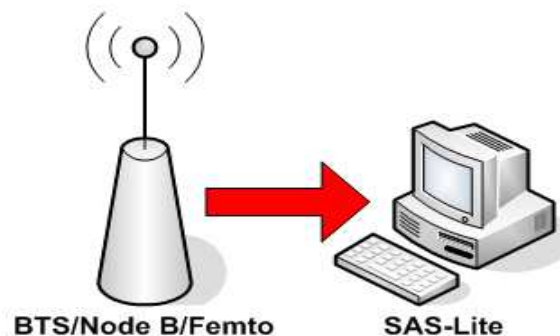

Mobile applications beyond just plain voice now account for a large proportion of subscriber revenues as content and bearer speeds grow steeply. SAS-Lite enables users to test a wide variety of applications in optimised conditions and real-world scenarios where bearers and cells are affected by network conditions and configurations. Coupled with Playback Scripts and protocol analysis into the Access Stratum, SAS-Lite is a unique tool for testers and developers.

The SAS-Lite package includes a number of features to automate testing, improve speed and efficiency. Application Testing commands can either be sent to the UE directly from the application or alternatively SAS-Lite can be used with the much more powerful and flexible "Terminal Automation Gateway" (TAG)*. TAG can also drive external applications to build a more comprehensive automation suite e.g. SIM swap, web cam control etc.

SAS-Lite also includes "Campaign Manager" which can manage and execute batches of scripts and create a simple test report for the user.

Anite's SAS-Lite is supplied with a range of GERAN and UTRAN sample scripts from simple signalling to video and packet call through to data throughput tests. The SAS Playback facility enables users to run these test scripts as supplied, or edit them to create custom tests.

Test Services

Anite Test Services can provide specific network operator libraries, built to customer requirements, and the creation of test scripts.

Features and Benefits

- Complete turn-key hardware and software package including applications testing, scripting, realistic network simulation, protocol analysis, performance testing for fast user adoption and simplicity
- Coverage for multiple 3GPP standards: GSM, GPRS, EDGE, WCDMA, HSDPA, HSUPA and HSPA+ Windows® based PC
- Unique use of diagnostic mobile data to create network scenarios, valuable for testing to specific live network configurations and debugging UE's
- Automatic script creation without the need for programming, saving considerable time compared with field trials and executed with minimal user intervention
- Best in class Graphical User Interface which is intuitive to the user and their skill level

Specifications

- SAS-Lite 1 Transceiver (1 x Agilent 8960, 1 x Anite ABP) – 1xG or 1xU cell**
- SAS-Lite 2 Transceivers (2 x Agilent 8960, 2 x Anite ABP) – 2xG, 1xG + 1xU or 2xU cells*. RF combiner
- Windows® based PC
- SAS-Lite application featuring:
  - GSM multi-band
  - GPRS
  - EGPRS
  - W-CDMA (FDD), multi-band
  - HSDPA (3GPP Release 5) - DL Category 8 (7Mb/s)
  - HSUPA - FDD Enhanced Uplink (3GPPRelease 6)
  - HSPA+ (3GPP Release 7) Signalling

** (G – GERAN, U - UTRAN)

 * TAG is available as an additional purchase option.