



## The SRS LTE Air Interface Analyzer

### SRS presents AirScope

Capture all downlink traffic in any LTE cell in any frequency band using off-the-shelf laptop or PC hardware and generic radio front-end devices from a wide range of suppliers.

Observe all network activity, quickly troubleshoot problems and rapidly implement solutions. Passively analyze end-user quality of experience for the complete cell, identify cell-edge users and flag potential coverage, congestion and interference issues.

Monitor per-user DL and UL traffic volumes, examine cell load distribution and identify bandwidth hogs. Easily integrate AirScope with third-party tools using our non-proprietary signal capture formats. Wireshark captures and text-based logs provided as standard.

Optimize new NB-IoT deployments and monitor performance with the AirScope NB-IoT extensions.

### FEATURES AND BENEFITS

#### OBSERVE

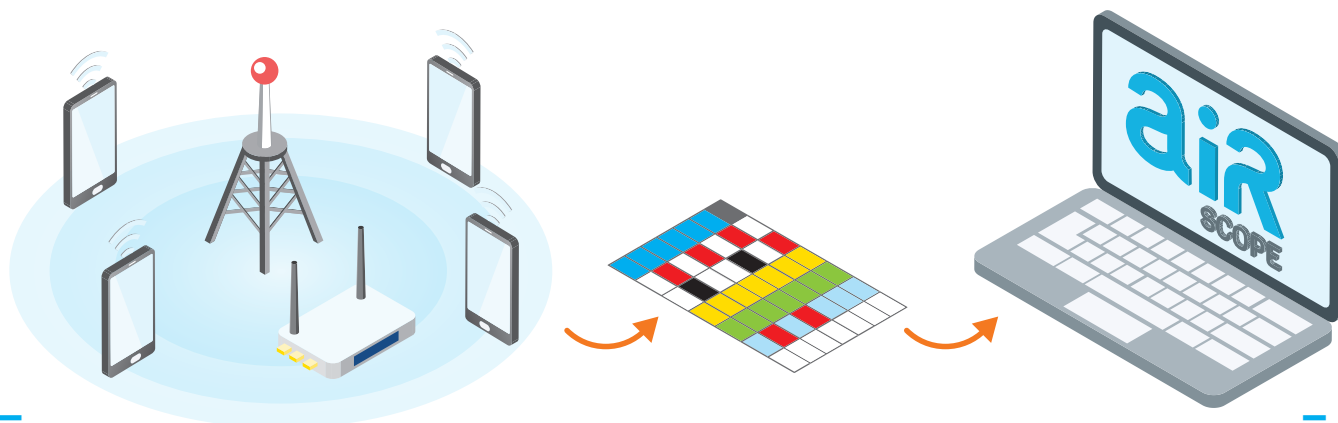
- All real-time traffic
- Cell configuration
- Active user distribution
- Per-user channel quality
- Cell spectral efficiency
- Congestion patterns
- Scheduler performance

#### CAPTURE

- Master Information Block
- System Information Blocks
- Paging Messages
- Downlink Control Information
- DL/UL Resource Allocation
- HARQ Indicators
- Timing Offsets
- NB-IoT extension for M2M traffic

#### ANALYZE

- Detailed log files
- Per-packet metrics, hex captures
- Wireshark MAC packet captures
- Web-based graphical interface
- Standalone or distributed deployment with cloud-based interface





## SPECIFICATIONS

- SIB and Paging
- PDCCH, PDSCH, PHICH
- PHY/MAC/RLC usage
- DL/UL grants
- Cell-wide scheduling
- Per-user MCS, PRB, TBS, RV
- DL/UL timing offsets
- RSRQ, RSRP, SINR, RSSI, CFO
- NB-IoT NPDCCH/NPDSCH support
- Per-packet logging
- MAC-layer packet captures
- HTML5 graphical front-end

## HARDWARE

- Intel and ARM processors
- NI/Ettus USRP RF front-ends
- BladeRF front-ends
- LimeSDR front-ends



### OPERATORS

Use AirScope to monitor performance of your own and competing networks and to quickly troubleshoot problems and implement solutions.

### REGULATORS

Use AirScope to carry out independent network performance assessments and to verify key coverage and quality-of-service targets for example under rural broadband public-private partnerships.

### ENTERPRISE PROVIDERS

Use AirScope in planning, deploying and managing your in-building solutions for 4G.

### RESEARCHERS

Use AirScope to carry out live measurements of real networks in the field and observe real-time traffic and congestion patterns.

**SOFTWARE RADIO SYSTEMS (SRS)** is a global leader in the delivery of high-performance L1, L2 and L3 software for wireless systems. We are an Irish company providing modular, portable libraries and applications for a range of wireless technologies including LTE, NB-IoT and DVB-S2/RCS2. Our software-defined radio approach targets commodity off-the-shelf hardware to deliver low-cost cutting-edge wireless solutions.



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