

Mobile radio network surveying for cities and municipalities

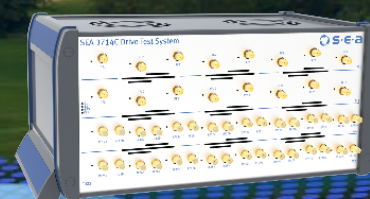
S.E.A. Your partner for precise mobile network measurement & analysis.

Real measurement data for reliable results.

- Hardware and software for capturing and analyzing
- 2G-5G mobile and Wi-Fi
- Mobile network survey and analysis
- Customized reports

Coverage
Gap?
Not in your area?
We check
what is really
there.

The professional solution for
cell site coordinators,
cell phone providers,
consultants &
service providers



Scan me
for more



Our services for you!

Precise mobile network and Wi-Fi analysis - hardware & software

- ✔ Recording and analysing all network operators, technologies and frequencies
- ✔ Surveying of cities and municipalities up to entire federal states, 5G campus networks
- ✔ Conducting entire measurement campaigns (drive tests) or supporting you in conducting your own measurements
- ✔ Processing of measurement data
- ✔ Indoor surveying

Convincing data –

Reliability through real measurement data!

Clearly presented statistics and visualizations for:

- Statistical information for decision-makers / management
- Documents for marketing & PR reports
- Technical details for technicians and engineers for troubleshooting and analysis



Visualisation and measurement:

How well is an area covered (per provider, technology)?

- Number of radio cells in an area
- Signal strength
- Available technologies in a region
- Private 5G networks: representation of radio cells, expansion and overlap



Surveying & consulting



Indoor & outdoor



Analysis & evaluation



www.sea-gmbh.com

What distinguishes S.E.A.'s solution from other surveying solutions?

- ✔ Comprehensive, second-by-second mobile network measurements for seamless data collection during drive tests at realistic driving speeds.
- ✔ The recorded data belongs to you, delivered in an easy-to-use, machine-readable format
- ✔ No specially trained personnel required.
- ✔ We provide the technology, SIM cards, expertise, and skilled staff.
- ✔ We also offer drive testing as a service, using our own vehicles and trained staff.
- ✔ Measurement of broadband coverage from 2G to 5G, including LTE-M and NB-IoT, across all network operators simultaneously.
- ✔ Analysis of upload/download speeds and latency.
- ✔ Analysis of the coverage area of public Wi-Fi hotspots
- ✔ Customized service packages for users needing equipment to perform their own measurements.



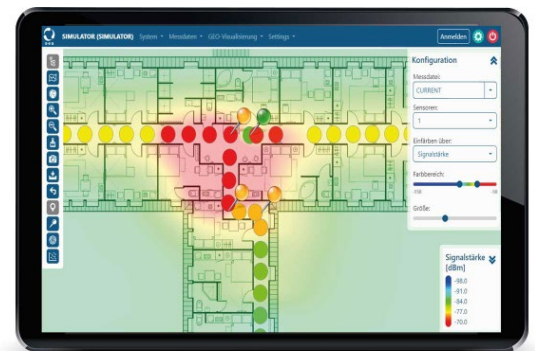
Measuring instruments – data acquisition with hardware and software

- SIM-based measurement with network registration using a multichannel system for the mobile radio standards 2G/3G/4G/5G/NB-IoT/LTE-M
- Recording of cell parameters such as Cell-ID, neighbouring cells, signal strength, bands, etc.
- Live output of current GPS position and cell parameters
- Stationary or mobile operation with power supply, battery or car adapter
- Fully automatic measurement operation, auto data upload



SpaceMaster Streaming Client & SpaceMaster GEO - Analysis & Evaluation

- Visualisation of the reception situation and propagation
- Functions for searching and determining the radio cells
- Comprehensive data search & geo-filter (radius, polygon)
- Visualization of current and archived drive test data on local maps
- Configurable reporting for purposes such as providing information to mobile network operators
- User-friendly system configuration and quality monitoring



Example:
Indoor measurement



What advantages do mobile radio measurements offer you?

- Identify gaps in mobile coverage, find out availability of mobile service providers.
- Improvement of emergency management
- Qualified data for applying for funding for network expansion
- Bandwidth measurement for broadband coverage to increase
- Attractiveness for companies, investors, residents and tourists.

