

About Us

Grepton Zrt. is the leading solution provider in the Central European IT sector, backed by decades of professional experience. Our team delivers innovative, high-performance solutions across custom software development, business intelligence, data management, and digital transformation projects.

Grepton is the developer of the SIMon software – short for Spectrum and Interference Monitoring. Now in its third generation, SIMon has been fully rebuilt based on user journey methodologies. Its intuitive, map-centric user interface puts visual structure at the core of all tasks, enabling seamless control of all monitoring equipment from a single platform.

Our mission is to provide our partners with state-of-the-art technologies, whether it's to support business processes, digital transformation or research and development projects.

We are proud of our history, but we are focused on the future. Through continuous innovation, a solid professional foundation, and a customer-centric approach, Grepton is committed to making its name synonymous with reliability and progress – especially in the world of spectrum monitoring.



+36 1 789 3692

CALL FOR MORE INFO

More Information

Email

groja@grepton.hu

Web

<https://grepton.hu/en/simon>



SCAN
FOR
MORE



**SIMON
INTERNATIONAL
SPECTRUM MONITORING
SYSTEM**

OVERVIEW

SIMon is a state-of-the-art, vendor-independent spectrum monitoring system designed for comprehensive and flexible spectrum surveillance. Supporting both fixed and mobile installations, it provides real-time data analysis via a browser-based user interface, offering unmatched usability and operational transparency.

KEY HIGHLIGHTS



Vendor-independent device integration



Intuitive, web-based user interface (no installation required)



Full offline measurement capabilities at remote stations



Real-time visualization and analytics via GPU-accelerated WebGL



Integrated support for mobile route measurement and event monitoring



Quick and supported onboarding process.



On-site monitoring of communication frequency band utilization

USER-FRIENDLY INTERFACE

The SIMon system was designed with a strong focus on user experience. It runs in all major web browsers without requiring any client-side installation. The responsive user interface is optimized for handling large-scale data sets, visualized through an integrated Spectrum and Signal Analyzer with real-time rendering capabilities.

Features such as drag-and-drop configuration, integrated map-based station selection, and context-aware interaction simplify daily operations for professionals at all levels.

SUPPORTED AND INTEGRATED DEVICES

SIMon supports a wide range of measurement and control hardware from leading vendors:

Receivers

- Rohde & Schwarz: DDF550, DDF255, EB500, EM550, EM100, ESMD, ESMB, EBD195
- NARDA: SignalShark 3310, 3320, 3330
- CRFS: RFeyeNode 20-6, 50-8, 100-8, 100-18
- ANRITSU: MS2720xA
- CommsAudit: Spectra SRDF, CA4909-1
- IZT: R3000 series

Rotators and Switches

- Rohde & Schwarz: FU129, GB127M, GB127S, HSRG, RD127, ZS127
- STMM: RK3 rotator, KM44 and KM88 switch
- DVB-T/T2 Dual LAN monitor

Other Devices

- Boreas: Weather station
- Compu-Consult: TELE-OPERATOR UTS v.16 DVB-T/T2 Dual LAN monitor

SYSTEM CAPABILITIES

SIMon enables scheduled and real-time spectrum monitoring, device configuration, route-based measurements, and geolocation. Data is securely stored and synchronized across distributed stations, even supporting complete operation in offline scenarios.

- Real-time and scheduled measurement execution
- Automated alerts based on mask/list violations
- Post-processing with statistical analysis and machine learning
- Flexible deployment for national supervision or high-security events
- Role-based access and LDAP/Active Directory integration

ARCHITECTURE & SCALABILITY

The SIMon system is built on a distributed architecture featuring a Central Controller and multiple Station Controllers. Each controller provides full control and visualization tools accessible via web browsers. Stations can operate independently or within a centralized framework — ideal for scalable nationwide deployments. Offline-capable user interfaces, integrated map services, and direct device control interfaces make SIMon a reliable choice for professional environments.