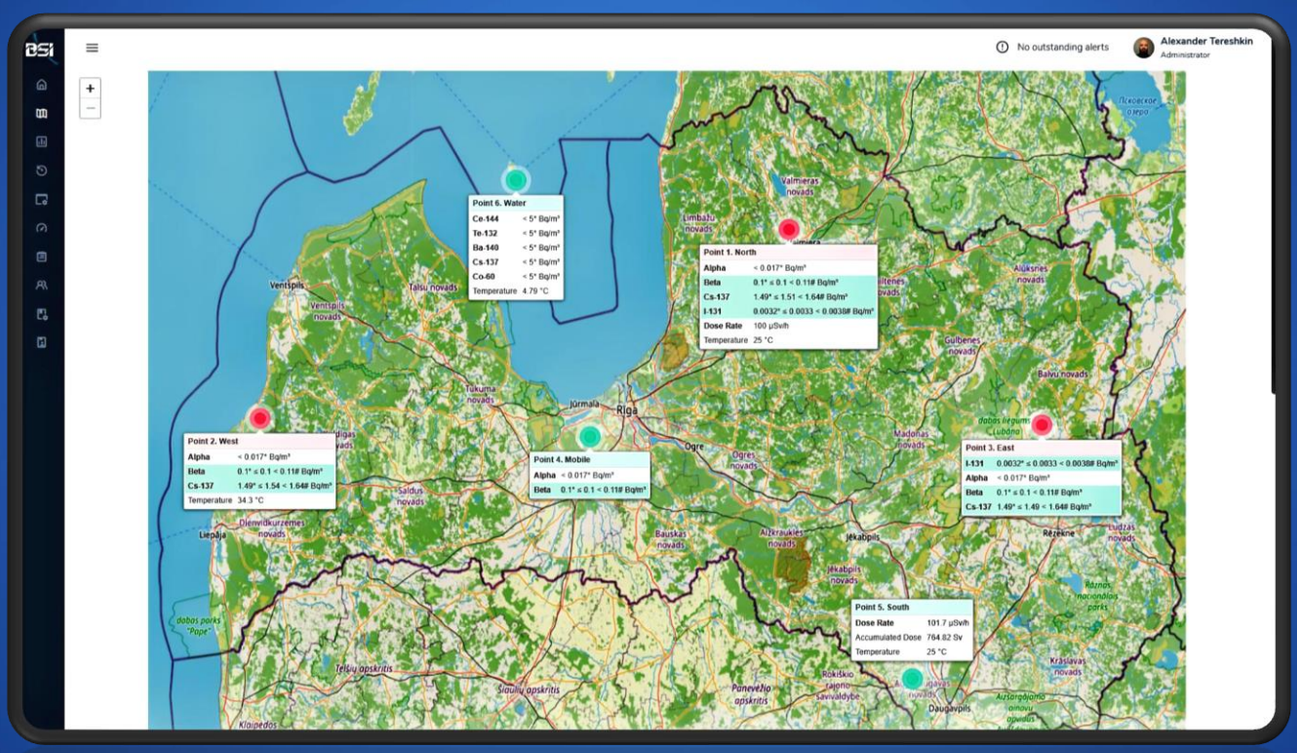
BALTIC SCIENTIFIC INSTRUMENTS

Bringing Solutions



RAVEN

Radiation Analysis and Visualization Environment Network software

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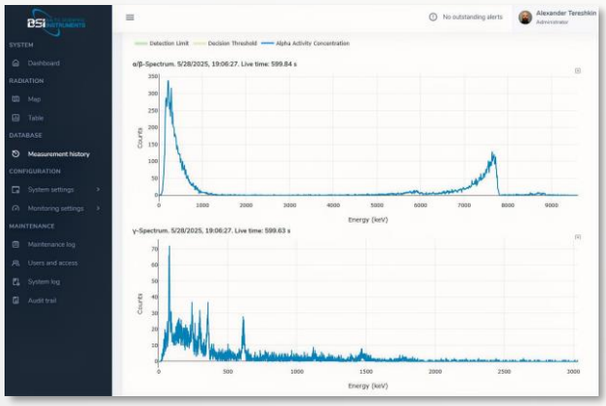
DESCRIPTION

Radiation Analysis and Visualization Environment Network RAVEN software is a web-based user interface for managing online flow of data accumulated from one or a number of Radiation Monitoring Stations (**AirTrack** family). The software package is built on several blocks, such as:

- Main dashboard with general information
- A map displaying all Stations and key current values
- Measurement results is a block with displays detailed flow of data from each Station
- Summary report.



The radiation spectrum registered by each monitor can be accessed at any time

FEATURES

- Multi-layered network (stationary, mobile, and laboratory stations)
- Real-time monitoring of air and water radiation levels
- Using a map of any area (site, city, region, country)

HOW IT WORKS

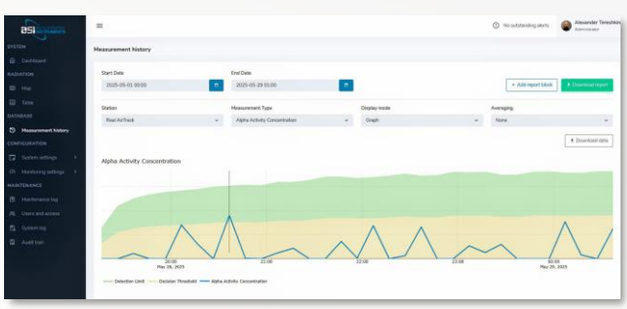
The current status of each monitor at every measurement station can be tracked in the Dashboard.

Measurement results for each monitor are available in a dedicated window in tabular format in compliance with ISO 11929. This window also provides access to technical parameters and the alpha/beta or gamma radiation spectra for each monitor. This option helps assess detector's performance and, together with valid technical parameters, supports quality assurance of the measurement results.

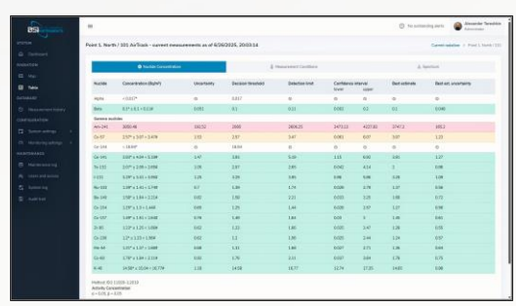
The software generates a summary report for a selected alpha, beta, or gamma radionuclide concentration in a single table showing all monitors measuring that radionuclide. Ambient dose equivalent rate values are also presented in tabular form, both from GDRM and, if available, from AirSpec, WaterSpec, or WaterTrack spectrometers.

All the results are stored and can be displayed for any selected time period and averaged over 1, 3, 6, 12, or 24 hours, or by month. Multiple blocks can be displayed as time-series charts or tables. The resulting report can be exported as a DOC or PDF file.

The software has two access levels: operator limited to monitoring only and administrator. It also provides a station maintenance history, automatically logs all changes made by to the station configuration, and records all messages from the monitors.



The measurement data can be displayed for any time period



The measurement in a table view

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Alpha-, beta-, gamma-rays