Network solution software for monitoring radioactivity, meteorology, water and air
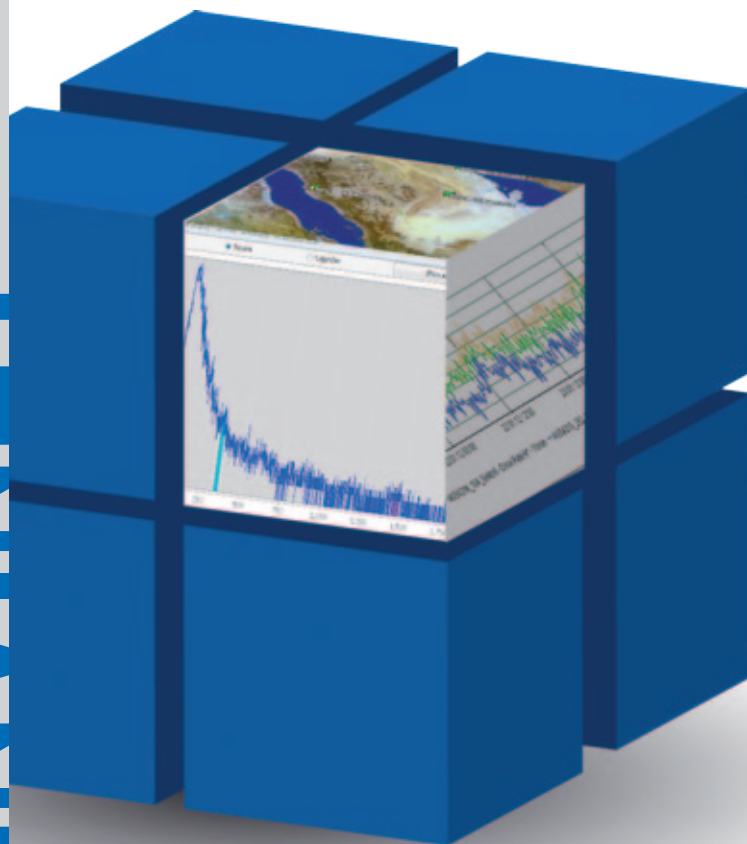
NMC
ENVINET

Systems for monitoring environmental data are subject to continuously changing functional requirements as well as fast modifications of information technology. The provision of collected data in real-time and from distributed stations is the condition to quickly decide about the necessary measures to be taken.

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NMC – UNIVERSAL SOLUTION FOR ONLINE MONITORING OF ENVIRONMENTAL PARAMETERS

NMC as a scalable monitoring network solution meets even the highest requirements with regard to service and functionality. NMC administrates and oversees environmental monitoring stations and offers extensive services in the validation, presentation, evaluation and analysis of data.

APPLICATIONS

The flexible and modular concept enables the use in the following application areas:

Radioactivity
Nation-wide monitoring networks
Ring monitoring systems around nuclear installations
Monitoring inside and outside nuclear facilities

Meteorology
Local and nation-wide
weather monitoring

Water
Monitoring of water distribution networks

Air
Air quality monitoring
Emission control

COLLECT, ANALYZE AND PRESENT DATA

The NMC system allows the collection of continuous and discontinuous data of different types and from an unlimited number of monitoring stations.

After validating the data with a high integrity, the information can be presented graphically, in tabular form or on a map. Therefore, NMC realizes the fast, reliable and automated generation of reports from the existing data.
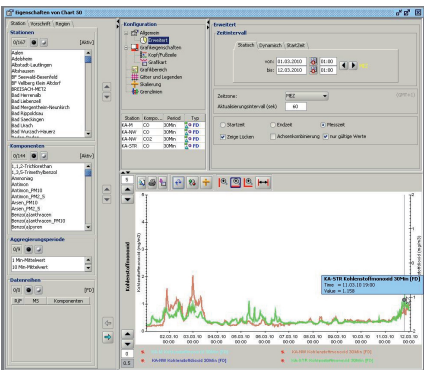
The import or export of data and information enables the exchange between systems and authorities.

The processing of data includes:
- Data aggregation
- Logic operation
- Statistical functions
- Derivative of status parameters

AUTOMATISATION

NMC includes various functions for setting alarms, generating reports, or exchanging data.

Automated functions such as the report generation at an assigned time reduce the time effort significantly.

Furthermore, the system offers an integrated, standardized GIS (Geographic Information System) allowing a summary at a glance of all monitoring stations on a map, including the current measurement values and the status.
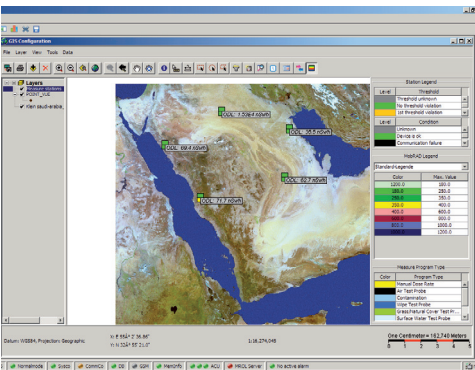
SIMPLIFIED ADMINISTRATION AND CONTROL OF MONITORING NETWORKS

The user can extend and configure the NMC according to the requirements and is supported by a familiar Windows user interface. The user administration, for example, allows the assignment of user rights.

Providing a high flexibility, NMC can be adapted to new communication techniques. Supporting WINDOWS, LINUX and Mac OS in addition to numerous interfaces, protocols, and services, NMC becomes an universal solution.

The monitoring network control enables:
- Master data management
- Configuration of monitoring stations
- Communication with monitoring stations
- Connection of further monitoring systems
- Functionality and status surveillance

BENEFITS
- Easy handling
- Standardized solution with many applications guarantees high functional reliability
- Extensive functional range fulfills all demands
- Customer experiences integrated in NMC

EXPERIENCE THAT COUNTS

Along with flexibility and know how ENVINET offers sectorial environmental information systems that are based on more than 25 years of experience.

The monitoring network solution NMC by ENVINET GmbH is successfully in use worldwide.

APPLICATION EXAMPLES

Radiation early-warning system in Austria
Measuring data of more than 330 radiation monitoring stations in the country is retrieved automatically with NMC and afterwards comprehensively visualized and analyzed. The storage in an Oracle database allows for report generation and data export to participating organizations at any time.

State office for Environmental Protection
Since many years, the NMC system for air quality (AMC) has contributed to the data collection and processing of around 90 air quality monitoring stations. Not only is the data polled automatically and afterwards centrally visualized and archived but also validated, aggregated and, if necessary, exported according to existing regulations.

Airport Luxembourg
Real-time monitoring data of local weather stations are collected and visualized via NMC. The meteorological data is processed with the report and export functions of NMC.

The NMC system for air quality (AMC) presents the measuring data clearly and its presentation can be adapted according to the individual requirements.

The GIS module allows the presentation of monitoring stations on a map including current measuring data.

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