EnviScreen

CBRN and Environmental Monitoring Systems

- Intuitive user interface
- Scalable system — the best possible configuration for customer's needs
- Consequence Management with advanced plume modeling

Environics

For your SAFETY

EnviScreen

CBRN and Environmental Monitoring Systems

The EnviScreen System is a complete solution against chemical, biological, radiological and nuclear threats.

During the first seconds of an incident, accurate real-time information is essential. In order to minimize damages and casualties high level situational awareness is a must to ensure correct first responder action. The EnviScreen System consists of state-of the -art software and networked field-proven detectors and sensors providing effective emergency management tools. Realistic simulation features create an ideal basis for operational training of all stakeholders involved in CBRN crisis management.

KEY FEATURES

- Intuitive user interface
- Scalable system – the best possible configuration for customer's needs
- Human error free / Eliminates human error
- Secure network infrastructure
- Military grade reliability
- Interactive training and simulation tools
- Comprehensive reporting tools
- Consequence Management with advanced plume modeling

APPLICATIONS

- Vehicle applications
- Event security
- Naval applications
- Critical Infrastructure Protection
- Area monitoring systems
- Industrial safety systems
- Subway safety systems
- Nationwide CBRN monitoring

Guiding User Interface

During high-stress situation the risk of human errors increases. To eliminate the possibility of stress-related mistakes, the EnviScreen software user interfaces are designed in cooperation with leading human behavior scientists. In case of emergency, the operator interface automatically displays clear information and instructions, for example standard operational procedures. The Operator interface is easy to learn and does not require special skills.

Scalable System

The scale requirements of CBRN monitoring systems vary from single detection point systems up to nationwide security networks. The flexible and modular structure of the EnviScreen system makes it fully scalable and cost effective. Based on the specific requirements of each customer, appropriate modules and features can be chosen. For future needs, the system expands easily. Various user levels are available for different scale systems and for operative and administrative users.
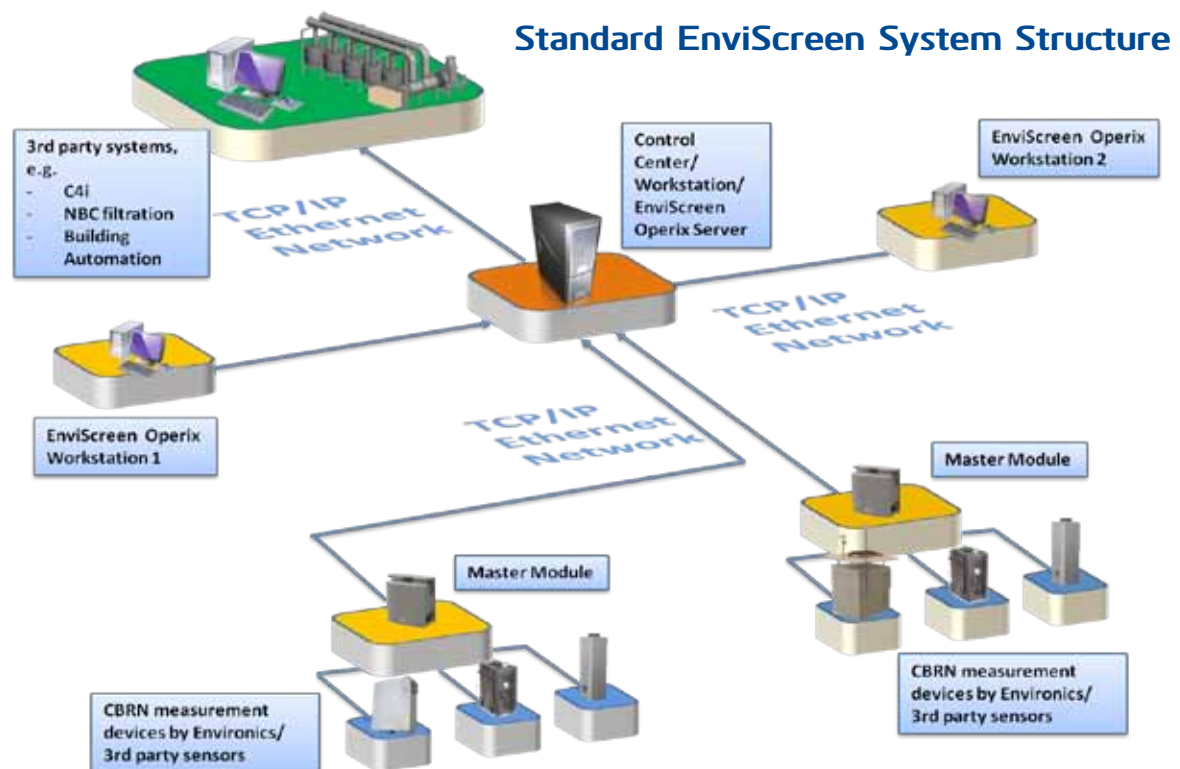
Secure System

All data communication within the EnviScreen network is secured. The system supports the most common encryption techniques and methods. Additionally, proprietary customer encryption methods can be implemented.

Advanced Plume Models

Efficient consequence management requires the possibility of utilizing sophisticated plume modeling methods. This is crucial during the hazard prediction and release source identification. The EnviScreen system supports SILAM plume modeling as well as HPAC and ATP-45 for military applications. Calculations and graphic visualization of the modeling is an automatic process. If desired, the user has an option to access all of the calculation parameters.
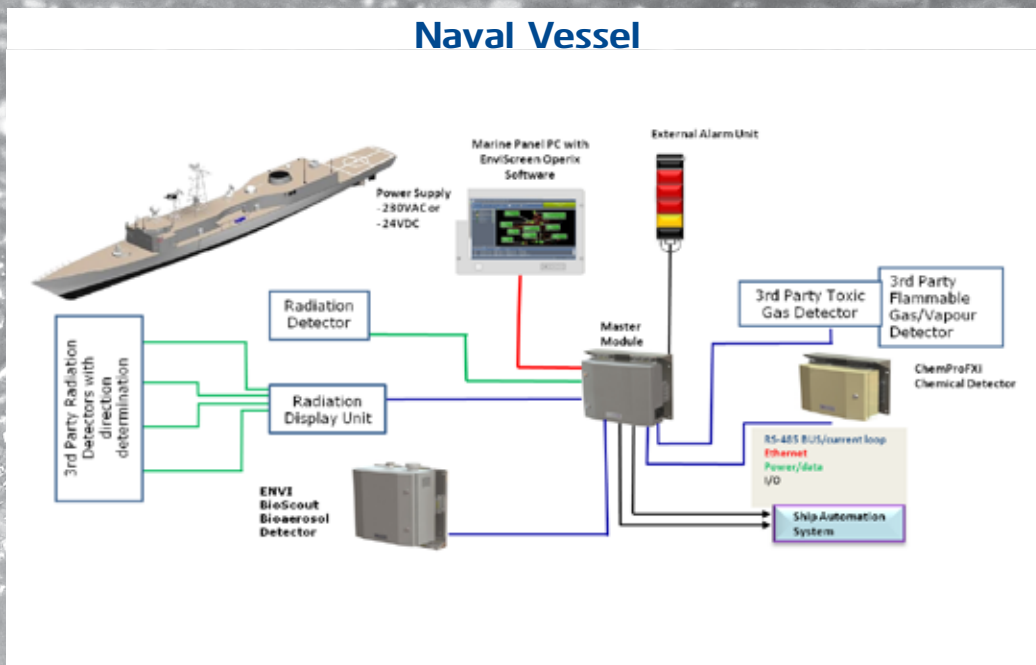
Simulated Scenarios

To maintain and develop crisis management preparedness and standard operational procedures regular training and simulation is essential. The EnviScreen system offers tools for realistic and effective tactical drills. Different threat scenarios can be easily simulated in order to create and develop appropriate consequence management procedures and practices. Scheduled tactical training substantially improves the operational preparedness of all involved teams and organizations.

Standard EnviScreen System Structure

3rd party systems, e.g.
- C4i
- NBC filtration
- Building Automation

TCP/IP Ethernet Network

Control Center/ Workstation/ EnviScreen Operix Server

EnviScreen Operix Workstation 2

EnviScreen Operix Workstation 1

TCP/IP Ethernet Network

TCP/IP Ethernet Network

Master Module

Master Module

CBRN measurement devices by Environics/ 3rd party sensors

CBRN measurement devices by Environics/ 3rd party sensors

CBRN Monitoring System Solution Examples

Naval Vessel

Critical Infrastructure

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