

SCINTERFACE®: INTEGRATING DISPARATE SENSOR NETWORKS

Sensors are used in multiple industries across geographically disperse locations and each perform uniquely different functions. Within the gas industry alone, there are well over 250 different sensor protocols. Sensor integrators are constantly challenged by the multitude of sensor protocol standards available within the industry. SCInterface® is the solution for tying together these disparate sensor networks into a centralized platform.

SCInterface (pronounced S-C-Interface) provides an open source platform to tie together the multitude of sensor protocols into a single framework. This includes off-the-shelf sensor drivers, custom integration of user interfaces (PDA, cell phone, voice recognition) & drivers and statistical and analytical tools for interpreting sensor data. In addition, Netarus will provide third party plug-ins including sensor level encryption and multi-party authorization utilities.

The SCInterface framework was developed to manage, control and monitor distributed heterogeneous sensor networks such as SCADA and M2M. Functioning as the "glue" to tie together these sensor networks, SCInterface works with an array of sensor protocols to retrieve sensor data and distribute this information securely to a centralized interface. SCInterface enables sensors to be monitored, managed and controlled seamlessly without requiring a new standard to be adopted or implemented at the sensor level. User defined triggers can also be added to fully automate the network.

Product Highlights:

- ◆ Manage all sensors with one universal architecture
- ◆ Integrate disparate sensor protocols
- ◆ Monitor status in real-time
- ◆ Create event based triggers
- ◆ Email notifications
- ◆ Bluetooth, serial, wireless and Ethernet compliant
- ◆ Centralized interface accessible from any location
- ◆ Operates in a cluster environment
- ◆ AES end-to-end encryption
- ◆ User and Group permissions
- ◆ PHP and Java based APIs
- ◆ Integrated Data Plotting
- ◆ Export data to any application
- ◆ Native Support for BACnet, Modbus, X10, Crossbow

This universal software platform offloads the processing from multiple types of sensors to a secure and central location that renders this information to any type of interface. SCInterface is a linearly scalable monitoring and control solution by leveraging proven technologies including XML, AJAX, AES, multi-threading, and advanced caching mechanisms for improved performance.

This white paper provides an overview of the challenges presented with today's sensor standards and how SCInterface is the solution to reduce the cost and time to market for integrating legacy and disparate sensor networks.

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