

Product Highlights:

- Manage all sensors with one universal architecture
- Integrate disparate protocols
- 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
- Service Oriented Architecture (SOA)
- Native Support for BACnet, X10, Crossbow and more

Sensor Control Interface

Open source platform for managing and controlling sensors.

NETARUS, LLC

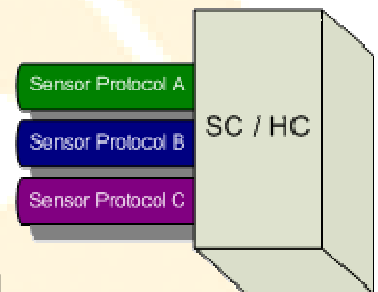
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Smart

SCInterface® is a Service Oriented Architecture (SOA) developed to monitor, manage and control distributed heterogeneous sensors within one unified software platform. The open architecture of SCInterface functions as a data acquisition platform to enable unrestricted access to sensors regardless of manufacturer or protocol. Any data from a sensing device is encrypted for end-to-end secure communication. SCInterface is a powerful software tool ready for the needs of today's evolving sensor industry.

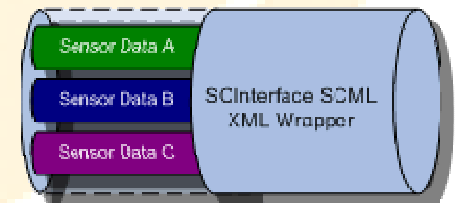
Versatile

Versatility and autonomy are fundamental benefits of SCInterface. Built on the concept of open architecture SCInterface provides comprehensive support for the Data Link (Ethernet, sensor bus, RS232, Wireless) and Application layers (BACnet, MIMOSA, Modbus/TCP, DeviceNet, PROFInet) of the OSI model. In the Data Link layer, the protocol properties only require IP stack integration with no additional conditions needed. The Application layer is addressed through SCInterface's Sensor Controllers (SCs) and Hardware Controller (HCs). Components of the Controllers provide extensible support for unlimited sensing devices.

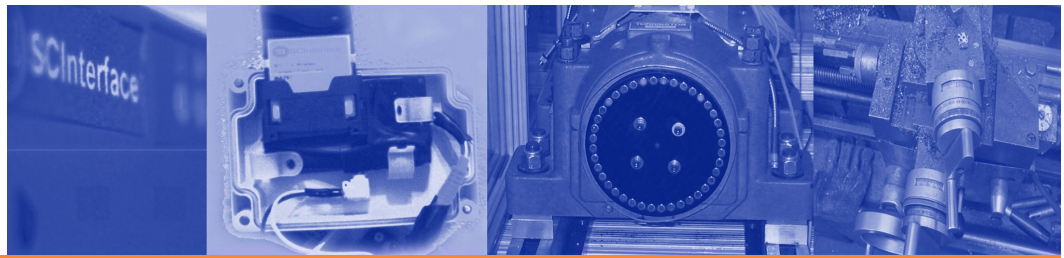


SCs are software agents that function as the connection between SCInterface and sensing device(s). The SC agent can be embedded into any device because of the small footprint. A key benefit of the SC is secure bi-directionally communication. In addition to sending sensor data via a unified framework, the SC is enabled to transmit secure updates or maintenance events to the sensor device via the central Graphical User Interface (GUI). The GUI provides a distributed, accessible and secure environment for controlling all sensors through any electronic device (i.e. Computer, PDA, Cell or Satellite Phone, etc.) regardless of sensor platform or geographic location.

HCs are hardware enabled SCs providing communication with sensing devices. The HC hardware is very compact, about the size of a stick of gum. The HCs are Bluetooth, serial, wireless and Ethernet compliant allowing deployment across various sensor networks.



HCs are deployed within the communication range of the sensing devices. Secure data transmission occurs between the HC (or an embedded SC) and the Sensor Control Manager (SCM) via the SCInterface XML-based communication protocol called Sensor Control Markup Language (SCML). As the Sensor Control Manager receives and processes sensor data it is securely communicated to the end user.

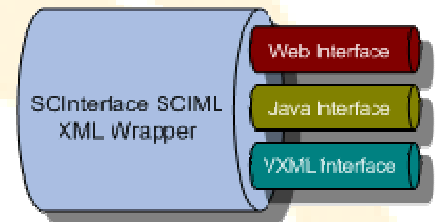


Universal Management

The SCM manages all Controllers within the SCInterface framework sending sensor data securely to the end user. The SCM is the core of SCInterface handling all computations allowing the Controllers and the sensor networks to function at optimal performance levels. Only one SCM is needed to control hundreds of sensors and can be scaled to work with many networks. The SCM is shareable accommodating multiple interfaces including web, cell phone, satellite, desktop, PDA and other devices.

Accessible

Sensor Control Interface Markup Language (SCIML) is the communication protocol between the SCM and user interface. This secure means of communication and a powerful integrated GUI provides the end user the ability to access and interact with sensing devices from any location. Enhancing the ability to collect and view information, SCInterface has included various Application Program Interfaces (APIs). APIs are available for quick customization and integration into any new or legacy user interface.



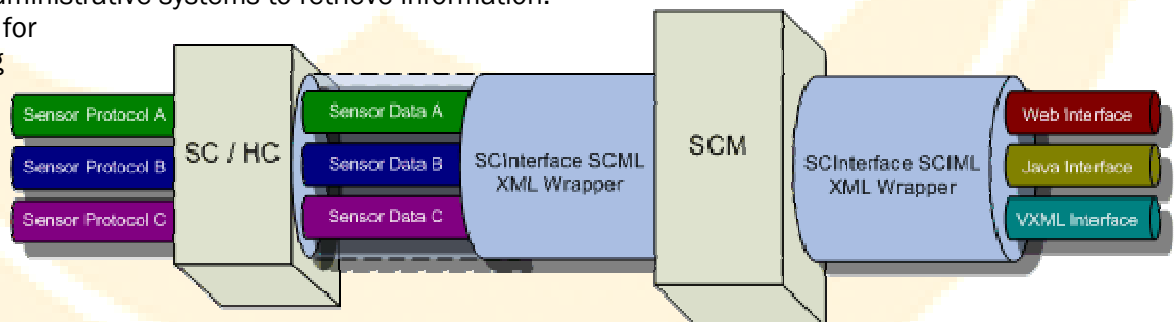
Scalable & Secure

SCInterface can operate in a cluster environment and leverage parallel processing techniques. This scalable solution provides control for very large sensor networks while supplying required data to one unified interface or legacy application. Advanced Encryption Standard (AES) for encryption and HMAC-MD5 for data integrity validation are used for end-to-end secure communication. Additional features included with SCInterface are user and group based privilege schemes offering flexibility for access rights.

Distributed

SCInterface provides information to the end user regardless of the physical location. The end user is not dependent on multiple sensor network administrative systems to retrieve information.

SCInterface is the solution for centralizing and controlling heterogeneous or homogeneous sensors and control system networks across many locations.



About Netarus

Netarus, LLC is a software development firm located in Virginia Beach, Virginia. We provide a diverse array of smart products and innovative services for web-based control and management systems.



Visit <http://sensors.scinterface.com> for more information