StarNeT™ 1000 is a Windows® based (WIN XP Pro) security monitoring and control system. Unlike general purpose control systems based on building management, CCTV or access control applications, the StarNeT graphic user interface (GUI) and its companion Crossfire™ network are optimized for perimeter and/or central security control room applications where speed, reliability, ease of use and integration are essential requirements. StarNeT’s system’s open architecture, industry standard TCP/IP interface and many hardware options provide a scalable and affordable security management solution without compromising performance or features.

The StarNeT 1000 system fully supports the remote maintenance and diagnostic features of Senstar-Stellar’s growing family of smart ‘Plug-n-Play’ perimeter security sensors while providing integrated control and annunciation of any contact-closure-controlled outdoor/indoor sensor or device. The system was designed to facilitate high level interfaces to CCTV switchers, digital recorders, access control systems and third-party networks. StarNeT can greatly increase the efficiency of any security system by automating security responses and providing the security operator with a single point of control for time-critical tasks in emergency alarm response situations.

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StarNeT is the result of customer feedback and the lessons learned from over 25 years of security GUI design and support. Senstar-Stellar displays have always set the standard with uncluttered emergency response screens that free the operator from unnecessary clutter and yet provide critical information and immediate access to context sensitive help and more sophisticated control options.

StarNeT takes this to an even higher level with event-specific audio prompts, automated event processing and high resolution site-specific graphics. All of these can also be easily modified by end-user maintenance personnel to meet local requirements and preferences. Security operators do not require computer experience and quickly adapt to StarNeT as it was designed with them in mind. Operator keyboard input is required for only a few administrative functions and most of their interaction is via an intuitive mouse, trackball and/or touch screen interface. This greatly increases the speed and accuracy of operator responses to emergency situations while simultaneously minimizing training costs.

Senstar-Stellar’s expertise in GUI design also extends to the supervisory and maintenance modules, which provide powerful tools for password maintenance, diagnostics, reporting and system configuration.
SIMPL™, the system configuration software, provides a powerful but easy-to-use tool for system design. Extensive use of graphics and adherence to Windows human interface standards have resulted in exceptional user-friendliness without compromising features. Default device ICONs can be used to represent site alarm and control points thereby providing rapid “out-of-the-box” functionality or they can be fully customized with different graphics, functionality and associated “WAV” files (for audio event prompts). An ICON copy capability greatly speeds up site creation. ICONs can also have associated processes that use Boolean logic and macro-like features to create powerful automated relationships between I/O points.

StarNeT software is available in large or small versions that can communicate with up to 128 or 32 transponders respectively. Either StarNeT version can be bundled with hardware to form a complete workstation and up to 64 workstations can be networked together, each with the following features:

- Generic text-based site database for quick setup
- SIMPL Site Configuration Utility to generate site-specific database, site maps and custom I/O screens, ICONS and event processing
- Default ICON library with automatic processes for standard door control functions including interlock support, fire alarms, interior sensors, exterior sensors, guard tour, CCTV call up, intercoms and nurse call. The processes are customizable
- Audio Annunciation Library with default “WAV” files that can be associated with alarm/operator events. Additional WAV files can be imported or created using standard audio recording programs and a microphone (not included)
- Security Network Driver Library for Crossfire PLC, TROS, Miniplex and Sennet. (Contact factory for custom third-party drivers)
- Serial Video Switcher Driver Library (contact factory for current list)
- Password protected Operator, and Supervisor/Maintenance modules with full support for Senstar-Stellar smart ‘Plug-n-Play’ sensors

Two StarNeT software/hardware bundles are available each with Windows XP Pro and StarNeT software preinstalled on a state-of-the-art commercial desktop computer with a 15” LCD monitor. Upgrade options include:

- 19 in. Rack Mounted Industrial PC
- Additional RAM to 256 MB
- A variety of sizes of Desktop and Rackmount LCD and SVGA monitors with or without touchscreens.
- Ethernet Adapters and Hubs for multi-workstation systems (10BaseT, 100BaseT or 100BaseFX Fiber Optic)

The Senstar-Stellar StarNeT Security Monitoring and Control System is flexible enough to suit any site from a simple standalone system to a multiple workstation, multiple site application with full hardware redundancy, multi-language support and high level interfaces to CCTV and other subsystems. A StarNeT system can be expanded, upgraded or modified at any time and is supported by Senstar-Stellar Corporation, the world’s leading supplier of outdoor security solutions.
StarNet 1000
Network Configuration

Applications
- Private Estates
- Government Agencies
- Laboratories
- Oil and Gas
- Utilities
- Communications
- Airports
- Military Bases
- Correctional Institutions
- and Laboratories
CROSSFIRE HIGH SECURITY NETWORK
Senstar-Stellar’s Crossfire Network is a powerful complement to any StarNeT system. It features dual physical data paths (fiber optic or copper); redundant hardware for increased reliability; and bi-directional communications for remote sensor diagnostics and secure tamper detection. A StarNet station can control a Crossfire network with up to 128 devices. StarNet’s powerful data protocol with peer-to-peer TCP/IP global point identification allows multiple workstations to monitor and control any I/O point operating on any Crossfire data path connected to the TCP/IP network. This redundancy ensures that intrusions are always reported, and control is always available. The system is scalable to meet virtually any requirement and additional devices can be easily added.

PLC 420 I/O MODULE CONTROLLER
The PLC-420 supervises the PLC I/O Modules and reports their status to the StarNeT workstation(s). A single PLC-420 can monitor a maximum of 64 inputs and 64 outputs using any combination of I/O modules, provided that its total input/output capacity is not exceeded. The I/O Modules are connected to the PLC-420 by a ten conductor ribbon cable which provides both synchronous data and power. Separate in and out ribbon connectors are provided on each I/O Module to simplify equipment installation. Both the PLC-420 and its associated I/O Modules can be mounted to a NEMA panel or in an EIA 19 inch Senstar-Stellar PC card rack shelf. This design simplifies retrofit installations by allowing the use of existing electrical enclosures.

I/O-101 OPTO ISOLATED INPUT MODULE
The I/O-101 monitors 32 optically isolated switch inputs, reporting their status to the PLC-420 controller. Typically it is used to monitor cell door position switches, intercom call buttons and door open request buttons. Optical isolation improves reliability by limiting the effects of electrical switching transients.

I/O-102 HIGH SECURITY INPUT MODULE
The I/O-102 monitors 16 end-of-line resistor supervised sensor inputs providing both alarm and tamper supervision. The status of both are reported to the PLC-420 controller using 32 input points. The tamper supervision is always active and is designed to prevent tampering with critical signaling switches such as armory door, duress call buttons, emergency equipment shut-down controls and alarm sensors.

I/O-201 OPEN COLLECTOR OUTPUT MODULE
The I/O-201 controls 32 open-collector outputs, reporting their status to the PLC-420 controller. Typically these outputs are used for triggering CCTV switches, intercom controllers, telephone interfaces, and relay coils where the I/O-201 can be wired to furnish 24 VDC to power the coils. Each output is provided with an LED indicator to indicate that the output is activated, providing a simple method of assessing output status at a glance.

I/O-202 LOW CURRENT RELAY OUTPUT MODULE
The I/O-202 module provides 16 low current dry contact relay outputs, reporting their status to the PLC-420 controller. Typically these outputs are used for triggering low current door openers, alarm signals, CCTV switchers, intercom controllers, telephone interfaces and contactor coils. Gold plated contacts permit the switching of very low current signals without pitting or resistance build-up.

PLC 430D/F FIELD TRANSPONDERS
The PLC-430 is an advanced multiplex transponder designed for high security applications requiring alarm and tamper monitoring, hardware self-testing and remote control. It is controlled by an onboard microprocessor and can be used as an intelligent node in a distributed architecture monitoring system. Alarm, tamper, and remote control are performed by the PLC-430 and forwarded to the StarNeT workstation(s) over redundant data paths. It is available in two models: the PLC-430/D with 8/4 relay inputs/outputs and the PLC-430/F with 8/8 relay inputs/outputs.

* Specifications subject to change without prior notice.

Senstar-Stellar is represented by dealers in over 75 countries.