



Intelligent Monitoring

*Taking intelligent
monitoring to a
higher level*



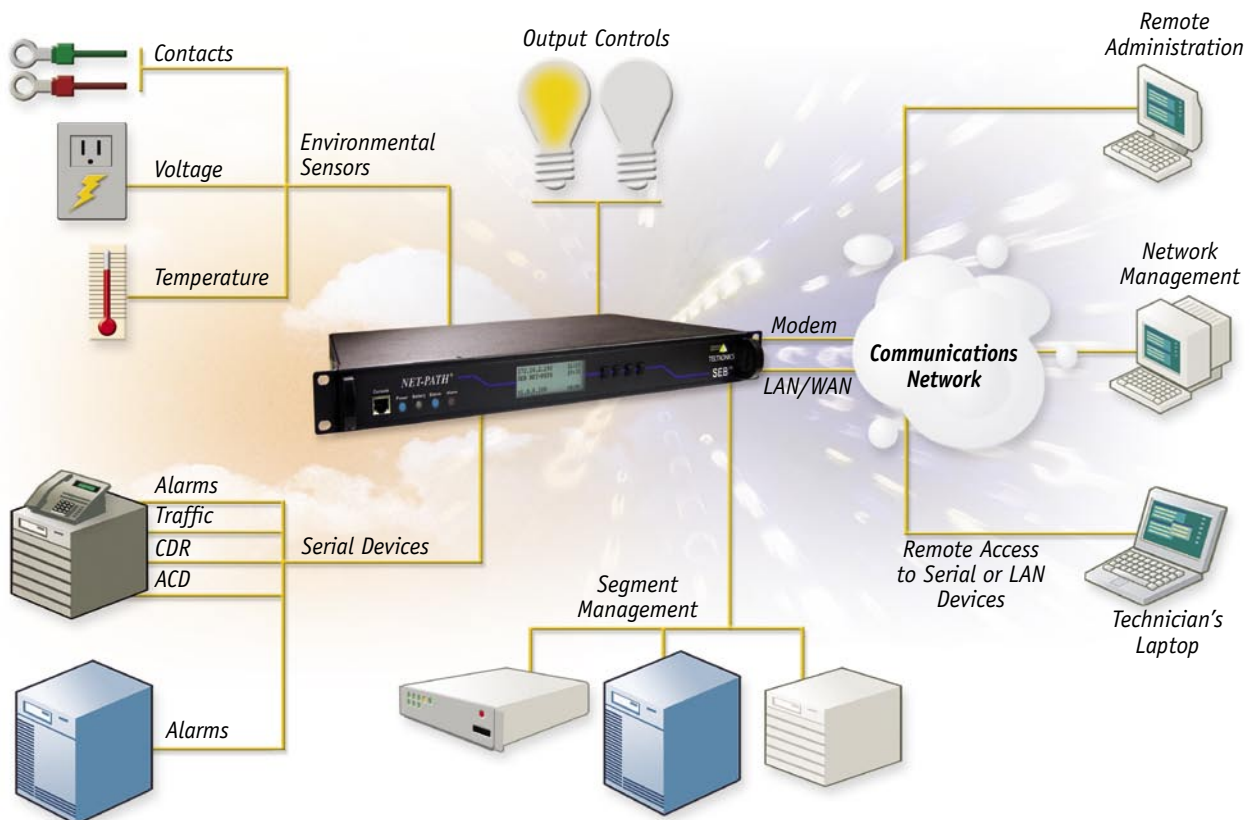
SEB NET-PATH

SEB NET-PATH™ : More powerful capabilities than ever before

Today's large private enterprise networks and service organizations rely on a communications network for mission-critical operations – savvy decision makers know the strategic value of an intelligent and flexible alarm management system. That's why Teltronics, the leader in alarm management technology for over twenty years, is proud to offer the newest version of our Site Event Buffer – **SEB NET-PATH**. This monitoring device is the latest in a long line of Teltronics Intelligent Systems Management products that have become an industry standard for automating fault and configuration management for a wide range of telecom and datacom systems.

Packaged in a 1U rack mount enclosure, the SEB NET-PATH offers 32Mb of Flash and 128 Mb of SDRam memory to meet the most demanding requirements. Designed for large service companies or self-maintained enterprises, SEB NET-PATH offers a rich array of capabilities for monitoring legacy telecom systems and IP-based datacom elements – serving as an SNMP Proxy Agent or a Network Segment Manager, providing ASCII datastream analysis, monitoring environmental sensors and controls, collection/polling of bulk data, access security ... and more.

SEB NET-PATH offers the perfect foundation for implementing the enhanced maintenance services that today's technology-aware companies demand. It's fully integrated



SEB NET-PATH

Host-Independent with Proactive Fault Resolution

with IRISnGEN™, Teltronics' state-of-the-art Alarms Management system. Together, they provide the end-user or service provider the most comprehensive suite of site management tools available – for highly reliable, centralized monitoring, management and maintenance of remote devices or systems.

SEB NET-PATH is designed to be host-independent, which means that it can be used to monitor and report alarms for nearly any electronic device equipped with a serial interface, alarm contacts or network connection. Monitoring legacy PBX equipment or state-of-the-art data communications systems, SEB NET-PATH gives users everything they need to effectively monitor, report and correct service-affecting problems.

SEB NET-PATH utilizes an architecture specifically designed for unattended operation. Incorporating a built-in UPS, it provides the highest possible reliability for monitoring mission-critical devices. When facility power is lost, SEB NET-PATH continues normal operation for up to two hours, storing data and reporting critical events. SEB NET-PATH also sends an event notification when power is restored. Mission critical data is stored in non-volatile RAM to prevent loss of data in the event of a power failure. Comprehensive battery management insures that the UPS is ready when required.

Tremendous flexibility in data screening allows SEB NET-PATH to detect and react to changing host conditions with customized responses. Depending on the condition, SEB NET-PATH can trigger reactions that vary from simple data storage and reporting to a fully scripted dialog between SEB NET-PATH and the monitored host device for proactive correction of the fault condition. Powerful event filtering

and threshold capabilities let the user control exactly what comprises a reportable event and how to respond to it. Integrated scripting support using Python (an advanced programming language) offers even more options for collecting, diagnosing and responding proactively to fault conditions. Advanced built-in correlation helps reduce spurious occur-clear alarm conditions and provides effective root-cause analysis for intra-system or inter-system failures.

SEB NET-PATH can detect physical and logical events from virtually any host system. Logical events are derived from data streams received from the monitored host – either from an RS232 or network interface – while physical events are derived from integrated internal event-detection sensors or external data sensors connected to SEB NET-PATH. SEB NET-PATH can detect almost any type of data output from a device – whether a single byte or a record consisting of many lines of serial data, an SNMP Trap or a contact closure – and respond according to a set of predetermined rules.

The SEB NET-PATH is Ideal for a Wide Variety of Applications, Including:

- ***Alarm event detection and reporting***
- ***Data collection and polling***
- ***Advanced correlation of multiple alarms***
- ***Custom host dialog and proactive fault correction***
- ***SNMP Proxy agent for legacy devices***
- ***SNMP Segment Management for SNMP-compliant systems***
- ***Secure access for remote devices***

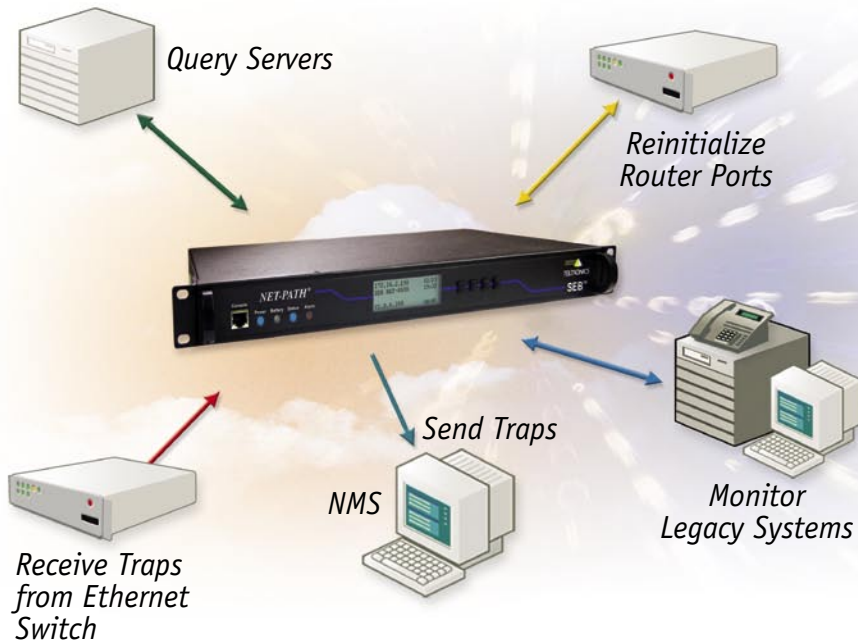
SEB NET-PATH

For Legacy and SNMP-Compliant Devices: Reliable Monitoring

SEB NET-PATH performs environmental monitoring through contact sensors; monitoring conditions such as temperature, intrusion detection, water or smoke alarms, or any device that signals fault conditions using contact closures or a TTL logic signal. An internal temperature sensor, coupled with support for external temperature and integrated DC-voltage sensors, assures secure environmental monitoring. Two output control relays enable SEB NET-PATH to automatically activate on-site devices, reset systems with error conditions, or switch to backup systems.

The SNMP-proxy capabilities of SEB NET-PATH extends network capabilities to legacy devices, increasing their functionality and their lifecycle in a networked environment.

SEB NET-PATH receives serial data output from the legacy system, converting and reporting it via SNMP Traps or V3 Inform Requests. Using an integrated Telnet client/server, the SEB NET-PATH provides network access to serial devices for administration or fault correction. SNMP Segment Management allows the SEB NET-PATH to act as a master agent to receive traps from, and to issue SNMP GET and SET commands to, devices that are SNMP-compliant. The SEB NET-PATH can receive, filter, threshold, correlate, and report traps to IRISnGEN or a network management system such as HP OpenView, Netcool or Tivoli. Proactive monitoring of SNMP devices is accomplished through scripted interrogation of SNMP objects within a device, comparing values and analyzing results. If needed, SNMP objects can be set to the necessary values to effect control of the SNMP device.



Highest Reliability

SEB NET-PATH can reliably collect and store data from virtually any host device. All standard SEB NET-PATH units can store 128 Mb of data, from multiple host types, in UPS-protected RAM while 32 Mb of nonvolatile Flash memory is available to insure that mission critical data is not lost in the event of a prolonged power failure. Data polling is just as flexible, offering modem, network or direct connectivity to selectively extract the data.

Embedded SNMP Agent and Manager

SEB NET-PATH

Automated Data Management Reduces Costly Downtime

Highly Versatile Management Tools

Regardless of the source of the data or the size of the record, events can be screened in SEB NET-PATH through a wide variety of parameters – including, but not limited to, date or time of day, period of time in a given state, or number of occurrences of the event. SEB NET-PATH can even determine if an expected event did not occur. A tremendous variety of response actions can be defined, depending on the event, and multiple actions can be combined to provide a logical response to the condition. Reportable events can be delivered to multiple destinations, including:

- Dial-out connection using an integrated internal 56 Kbps modem or an external modem
- SNMP Inform Request or Trap to IRISnGEN or to a network management system
- FAX
- Numeric/alpha-numeric pager
- Display on a locally-connected system (e.g., VDU, printer)
- Audible alarm
- Visual alarm indicator
- Relay output for external signaling devices.

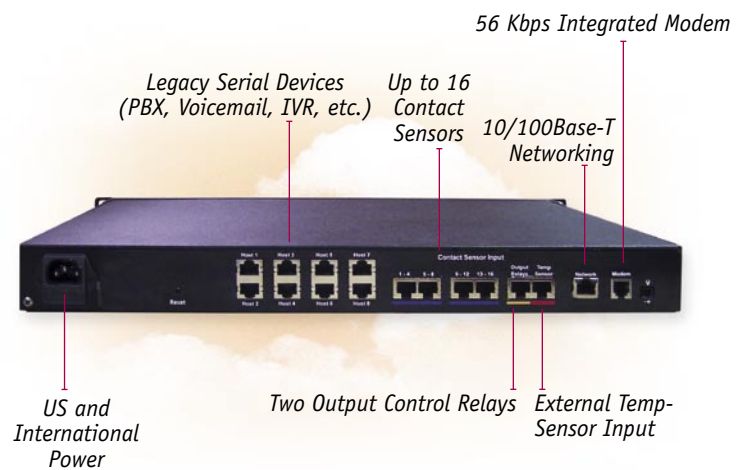
Events can be delivered to a single destination or to a combination of destinations. If an event cannot be delivered to a primary destination, the order of delivery can be specified, as well as the logic, to support alternate destinations. Typically, events that use a LAN/WAN as the primary delivery mechanism can be automatically delivered via modem if the network goes down. Delivery protocols include SNMP, SEBII and SEB NET-PATH, and insure reliable, error-free-receipted event delivery regardless of the protocol selected.

Automated Site Management

Need to change passwords or event filters at a thousand sites? No problem – SEB NET-PATH and IRISnGEN work together to provide automated site management. Select the sites, schedule automatic updates with just a few mouse clicks, and let the system do the rest. Any changes made to SEB NET-PATH databases within the IRISnGEN system are automatically flagged and can be selected and downloaded to the SEB NET-PATH on a scheduled basis.

Configuration Flexibility

To accommodate a wide variety of application requirements, SEB NET-PATH offers flexible configuration of ports and contact sensors. Universal ports enable the SEB NET-PATH to communicate with the applicable host device using serial or network protocols. RS232C speeds up to 115 Kbps, modem speeds up to 56 Kbps, and network connectivity at 100 megabits are standard. Configuration is simple, using shared libraries to control individual device characteristics such as port parameters, devices monitored, and alarm conditions reported.



SEB NET-PATH

Professional Services

User-Definable for Increased Security

SEB NET-PATH safeguards access to monitored devices to insure secure configuration and/or problem resolution.

Access is fully configurable by port, and the level of access privilege can be defined for each user.

SEB NET-PATH uses a multiple-level sign-on process that supports:

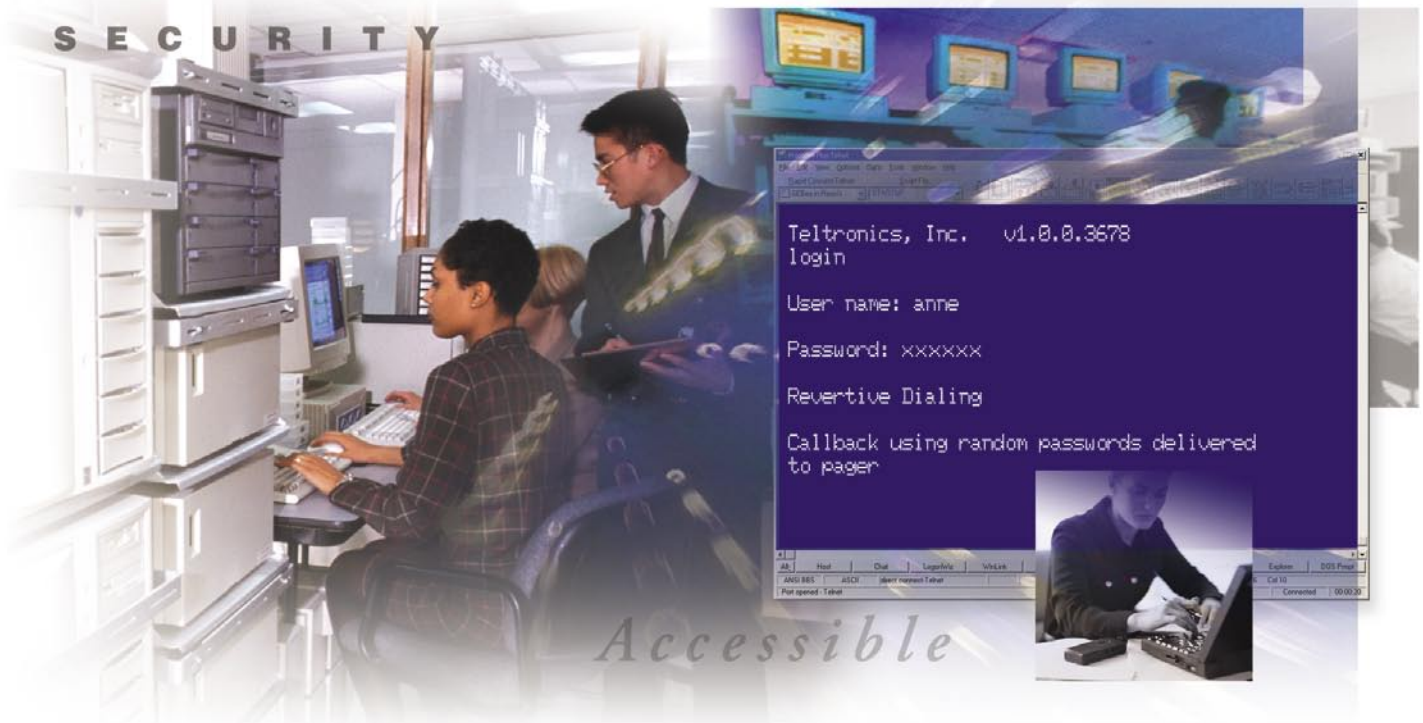
- user name
- password
- callback (revertive dialing)
- callback (using random passwords delivered to pagers)

SEB NET-PATH can be optioned to support token-based authentication mechanisms for both man-machine access (i.e., engineer calls to the SEB NET-PATH) and machine-machine access (i.e., IRISnGEN calls to the SEB NET-PATH). This option assures the highest practical level of secure access.

Speedy Access from Anywhere

Whether from the IRISnGEN System or a PC at a technician's home, access to the SEB NET-PATH – or to any remote host device – is quick and easy. The SEB NET-PATH can be accessed via dial-up or Telnet, for immediate diagnosis and resolution of a reported problem from any host device. Thorough, secure and rapid authentication/authorization safeguards against unauthorized access, and lets the technician perform only those commands that are authorized by his or her personal security profile. Once established, a PPP connection allows an element management system (EMS) to manage all serial or data devices monitored by the SEB NET-PATH.

Advantage: the user can launch a Web-based client, a Telnet client, or a proprietary EMS and exercise full control over a host system at a remote site – from virtually anywhere!



SEB NET-PATH

SEB NET-PATH Feature Specifications

Feature	Description	Standard Configuration	Options
Communication Ports	RS232, RJ45	4 ports	4 additional RS232 ports
Network	10/100Base-T	Included	—
Contact Sensors	Hard contact sensors	8 contacts	8 Additional contacts
Modem	56 Kbps, Class 2 fax	1 modem (integrated)	
Memory	Program and data storage	32 Mb Flash (nonvolatile) 128 Mb SDRAM	—
RTC	Real-time Clock	Yes	—
Output Controls	Controlled output devices	2 SPDT relays, 200 ma	—
Integrated Analog Sensors	Analog sensors for reporting temperature and voltage	1 temperature (50° – 110° F) 1 DC voltage (0 – 60 VDC)	External sensors
System Power	Universal power supply	90/240 VAC 50/60 Hz	DC power supply (48 VDC)
Battery Backup	Integrated UPS: maintains full function up to 2 hours	Field-replaceable batteries	—
Sleep Battery	Provides long-term backup for system parameters	Lithium	—
Diagnostics	LCD display for system information and diagnostics	LCD display for battery, power, general health, and alarm conditions	—
Watchdog	Watchdog timer	Standard	—
Mounting Configuration	19" rack mount	Standard	Desktop
Operating Environment	Temperature-operating: 50° – 110° F Non-operating: 20° – 140° F Relative humidity, noncondensing: 20% – 80%		

Ideas that Communicate

Teltronics

For over thirty years, Teltronics, Inc. has been dedicated to excellence in the design, development and manufacture of electronics equipment and applications software systems that enhance the performance of telecommunications networks. Teltronics develops telephone switching systems and software, contact center systems and 911 public safety communication centers. Teltronics provides remote maintenance hardware and software solutions to help companies effectively monitor and maintain telecommunications systems. The Company also serves as a contract manufacturing partner to customers nationwide.

Specifications subject to change without notice.
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