

# SNMP

## Standards-based support for monitoring ESI IP devices

### Introduction

In recent years, ESI has received numerous requests from the field to support **Simple Network Management Protocol (SNMP)** in our product lines. SNMP is a communication method used by IT personnel to monitor networks and servers — and, with the advent of VoIP, IP phone systems. SNMP was once found only in enterprise-sized systems but, with the rapid expansion of IT networks in small and medium-sized businesses, it has found a foothold in businesses of all sizes. It's used by network management system (NMS) applications to gather performance and health metrics about SNMP-aware equipment so personnel can proactively tackle problems that may arise. NMSs poll SNMP devices, also called *agents*, to report status data. With the large number of free, open-source NMSs available, it's easier than ever to monitor SNMP devices and maintain the health of such systems.

ESI's **IP Server 900** business communications system has been developed to support SNMP monitoring, and reports a great deal of information, from cabinet configuration and status to the number of voice mail ports in use. Monitored items include:

- Voice mail storage use and ports in use
- Analog, T1, PRI, and SIP CO line usage
- Esi-Link channel usage
- Shelf statistics (such as carrier card status and module status)

For a full description of the events and requests supported by the system, see the *IP Server 900 SNMP Installation Guide*, ESI # 0450-1364.

### Requirements

- **ESI system** — An IP Server 900 with SNMP provisioning configured to accept connections from the NMS server.
- **Networking** — The IP Server 900 and the NMS server must be connected to the same data network.
- **NMS** — In order to gather events and metrics from the IP Server 900, the customer must have an NMS server configured to manage the IP Server 900. ESI doesn't endorse any specific NMS platform or vendor.

### SNMP provisioning

Provisioning of the IP Server 900 SNMP agent is performed through *IP Server 900 Web ESI System Programmer (WESP)*. After provisioning is complete, the system will send emergency alerts to the NMS as necessary and respond to polling requests from the NMS. (For more information on provisioning SNMP, see the *IP Server 900 SNMP Installation Guide*, ESI # 0450-1364).

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#### About ESI

ESI (Estech Systems, Inc.) designs and manufactures high-performance phone systems for businesses and organizations. ESI uses advanced technology to design IP and digital communications systems that integrate built-in capabilities, advanced features, and highly differentiated applications into flexible products that are easy to use and keep employees productive. ESI has sold over 250,000 business communications systems through hundreds of factory-trained Certified Resellers. Founded in 1987, ESI is a privately held corporation with headquarters in Plano, Texas.



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