

### Element Management System

Real-time element management at a single point in the signaling network.

#### Overview

Tekelec offers a scalable element management system (EMS) as an optional feature for the EAGLE 5 platform. Tekelec's EAGLE 5 platform performs key functions such as signal transfer point (STP), signaling gateway, intelligent routing, screening services, number portability (NP) and integrated performance and service management. The EAGLE EMS consolidates real-time element management at a single point in the signaling network to reduce ongoing operational expenses, network downtime, and provide a higher quality of customer service. This advanced element manager is specifically optimized to manage a network of Tekelec EAGLE 5 platforms through easy-to-use, customized, graphical displays. The EAGLE 5 EMS is provided on a RISC-based UNIX system that integrates an on-line relational database management system (RDBMS), enabling operators to monitor and control the network of EAGLE 5 platforms.

#### Product Description

The EAGLE 5 EMS, with its intuitive graphical user interface (GUI), displays a view of the EAGLE 5 network down to the card level with event-filtering capabilities. Alarm management features enable the operator to proactively monitor the network and address service degradation early. If outages occur, the EAGLE 5 EMS provides the tools to quickly isolate the problem and enable rapid service restoration, often without dispatching technical personnel. A cut-through window provides direct access to any EAGLE 5 platform command line interface (CLI). The addition of command and control buttons gives the operator the flexibility to remotely manage EAGLE 5 platforms based on customer-defined rules for common and repetitive actions.

#### Benefits

- **Reliable, Centralized Management.** The system uses industry-leading hardware and software such as Sun servers, Solaris OS, and an industry standard database to ensure carrier-class reliability. From its central location in the signaling network, the EMS can manage multiple EAGLEs and provide fault management, command and control from any workstation
- **Lower Operating Costs.** Tekelec's EAGLE 5 EMS delivers real-time status of the nodes

in the signaling network. Using this information, operators can proactively correct system outages and reduce downtime. In addition, Tekelec's centralized management capabilities allow operators to more efficiently allocate administration support staff

- **Scalable.** The EAGLE 5 EMS supports a centralized architecture. Increasing capacity involves the simple addition of processors and memory or larger servers. Operators can manage the entire network from one location
- **Automated Alarm System.** Alarm events, isolation and escalation are automated, allowing network operators to quickly isolate problems and provide rapid service restoration, often without dispatching technical personnel. The system can also be configured to automatically send emails, pages or facsimiles to multiple destinations and individuals based on events
- **Customized Event Viewing.** The customer can view user-configurable windows, based on their choice of filtering and viewing criteria. This provides a flexible, efficient way to view and monitor alerts. Features include: easy-to-use GUI, point-and-click operation, choice of graphical or textual presentation, scene drill down capability, geographical or logical network views, and color-coded alert severity
- **Advanced Network Mapping.** Tekelec's EAGLE 5 EMS supports multi-level hierarchical views. Using imported bitmaps of geographic maps or floor plans, along with customized graphics and resource placement, a layout can be created that closely matches the actual network
- **EAGLE 5 ISS Agents.** The EAGLE 5 EMS allows direct communication with EAGLE 5 platforms. These agents are pre-tested, documented, out-of-the-box interfaces that connect network devices through a variety of standard and proprietary protocols, including transmission control protocol/internet protocol (TCP/IP), user datagram protocol (UDP)/IP, simple network management protocol (SNMP), serial protocol, and transaction language 1 (TL1)