

Signaling Gateway

Delivers centralized signaling routing and bridges the legacy circuit-switched and packet networks.

Overview

Managing telecommunication networks – whether wireless or wireline – is becoming increasingly complex. The explosion in data traffic is stretching the capacity of existing networks. An extremely competitive landscape is driving the need to reduce operating costs and to create new, next-generation services to retain and attract customers. And, carriers have large investments in their existing circuit-switched resources that they cannot afford to abandon as they migrate their networks to packet technology.

Signaling over Internet protocol (IP) delivers access to new markets and revenue opportunities, enables access to existing circuit-based services, solves network congestion problems and reduces signaling and facilities costs.

Tekelec has been a leader in defining industry IP signaling standards and a pioneer in implementing successful IP-based networks, with some of the earliest and largest deployments in North America, Europe and Asia Pacific regions. Tekelec offers proven and robust IP signaling solutions, based on the industry standard SIGTRAN protocol suite, to fit a variety of networking needs.

Product Description

Tekelec's EAGLE 5 Signaling Gateway delivers centralized signaling routing, and bridges the legacy circuit-switched and packet networks. It provides seamless interworking between time division multiplex (TDM) resources like service control points (SCPs) and IP-enabled elements such as softswitches and next-generation databases. With its packet-based technology, the EAGLE 5 Signaling Gateway can handle the signaling requirements of the most complex networks, delivering dynamic bandwidth sharing to support increases in signaling traffic without the addition of additional nodes. The same platform delivers full signal transfer point (STP) capabilities and a host of revenue-generating applications such as calling name, personal call manager and mobile prepaid.

Benefits

- **Decreased network congestion.** Tekelec's packet-switched technology delivers dynamic bandwidth sharing to enable carriers to effectively expand their signaling networks and reduce network bottlenecks. By replacing 56K links with an IP interface, service providers can significantly increase signaling capacity to service control points
- **Reduced transport costs.** Replacing long-haul, point-to-point SS7 links between network elements with IP connectivity can reduce recurring signaling transport costs by 40 to 70 percent
- **More efficient networks.** Enabling a network with IP does not require expensive forklift replacements or costly software upgrades for existing end nodes. With Tekelec solutions, carriers can streamline their networks while reducing administration – all with no service interruption during installation
- **Migration to next-gen architecture.** The EAGLE 5 Signaling Gateway can appear as an end office to the SS7 network by sharing its point code with the IP endpoints. This allows carriers to migrate to a packet-based architecture without adding a new point code or reconfiguring the network. Tekelec's open, multiprotocol architecture gives carriers the capability to grow and migrate their network and the independence to choose best-in-class products