

SEGway™ Advanced Routing SOLUTION SHEET

Advanced Routing/Screening/Accounting Feature Overview

Every carrier's network is unique and often requires specialized routing to direct signaling traffic through the network. Combining PT's carrier-class SEGway platforms, any-to-any connectivity and flexible advanced routing options gives carriers the power to take charge of their signaling network and gain a competitive advantage when growing and rolling out new value-add services.

Network Security and Auditing

The signaling network remains a critical element in the telecom network infrastructure and must continuously be protected against malicious activities like denial of service attacks or bandwidth theft. **Gateway Screening (GWS)** is essential to ensure security and integrity between interconnected networks. Acting as a sentry into a carrier's network, GWS prevents unauthorized use of the signaling network and controls the flow of signaling traffic. This powerful option allows individual screening criteria to be defined for each interconnected network offering the carrier peace of mind that their network is safe.

Gateway Accounting

Service providers who engage in inter-connection agreements with other operators often require the ability to audit and monitor the traffic entering and leaving their SS7 network. Their needs are typically twofold – validation that the traffic being presented to

the network is authorized (i.e., a message transfer agreement is in place) and if not, identify the origin of the messages and verification of inter-carrier billing data is accurate. Using **Gateway Accounting**, network administrators can define rule sets based on SS7 message parameters to collect statistical information which may be used for auditing purposes.

Traffic Management/Control and Steering

While standard Gateway Screening provides the means for allowing or disallowing messages to enter a service provider's network, Advanced Routing features support operators' business arrangements by supplying sophisticated controls on the paths that messages take to reach their destination.

Advanced Message Screening allows an operator to route messages based upon the screening parameters associated with Gateway Screening. For example, by using the TCAP Opcode to identify SMS traffic, a service provider can separate SMS messages from SS7 ISUP traffic and steer SMS traffic over a different set of links. This enables the service provider to steer the SMS traffic over IP-based signaling links and ISUP traffic over circuit-switched signaling links, thus offloading an operator's existing facilities.

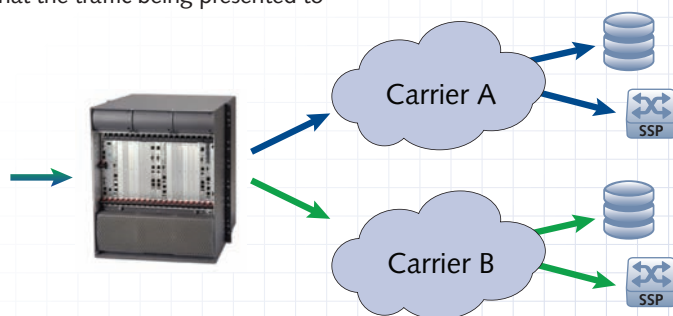
BENEFITS

Flexible Configurations

Network-Proven Solutions

Network Security

Sophisticated Routing Controls



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Similarly, using a combination of the originating point code (OPC) and a destination point code (DPC) specific routes can be selected based on business agreements with different inter-connectivity partners.

The SEGway **Advanced GTT (SCCP)** option provides even greater flexibility by allowing translation decisions to be based upon both origination and termination parameters. This powerful feature allows operators to designate a combination of the following parameters used in forming Global Title Translation decisions: Called Party Address, Calling Party Address and Originating Point Code contained within the MTP routing label.

Advanced Managed Routing provides origin-based MTP routing allowing operators the flexibility to direct traffic by utilizing the incoming linkset and destination point code to identify outgoing paths.

Routing messages based upon Circuit Identification Code (CIC) and Transaction ID are capabilities utilized by our unique **Point Code Emulation™** feature. Carriers who have interconnectivity partners can benefit operationally by using Point Code Emulation (PCE) to simplify their network topology to create a virtual private signaling network much like Network Address Translation (NAT) simplifies an IP network. Carriers who deploy PCE realize numerous advantages as they evolve and grow their network. Operationally, PCE de-risks switch cutovers by offering a means to migrate traffic seamlessly with full control and without service interruption.

Flexible Routing for Mobile Operators

With the ability to search on additional message parameters alone or in combination, an operator handling roaming traffic through their STP can identify a roaming subscriber's service provider from the calling party address (CGPA) and destination point code (DPC) to steer this roaming subscriber's traffic to traverse the lowest cost signaling network to the final destination.

Mobile operators may similarly use these same parameters to block traffic between providers where agreements may not exist.

Mobile and multi-media applications continue to drive revenue growth for service providers. To bring these new service offerings to their subscriber base and increase their revenue per subscriber, many of these applications require a feed from the SS7 network. Using **Advanced Gateway Screening**, it is possible to redirect or copy SS7 messages to any registered application.

For GSM roaming hub providers who manage roaming agreements as a service, SEGway provides additional parameters such as TCAP Opcode which may be used for routing and screening of messages.

Our flexible approach ensures that SEGway products can easily adapt to the demands of the market without the costly deployment of additional platforms. Alone or in combination, SEGway's flexible routing options provides significant benefits in the areas of network security, network troubleshooting, billing verification, and traffic steering.

When combined together, SEGway's powerful routing, screening, and accounting capabilities offer the carrier the broadest range of options for managing signaling traffic across their network.

ORDERING INFORMATION

To discuss specific requirements and/or pricing, contact sales@pt.com.

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