Changing the Way the World Communicates

SoIP Sigtran Gateway – SS7 to IP for Legacy Mobile Networks

Compact, High Performance and Cost Effective Sigtran to SS7 Gateway

Ideal for linking GSM network elements and for adding IP connectivity to legacy switches

The SoIP Sigtran Gateway is a Signalling Gateway translating SS7 MAP signalling to Sigtran M3UA. This is normally used to connect IP-based equipment to an operator's existing SS7 network. Typical examples of IP-based equipment are SMS Message Hubs, HLRs and Call Centre equipment - the SoIP will allow these to interwork fully with the installed base of equipment in the mobile network and therefore save investment by extending its useful life
The SoIP solution complements SIP-based NGN solutions and seamlessly integrates with traditional SS7 networks.

WTL Carrier Grade Solutions

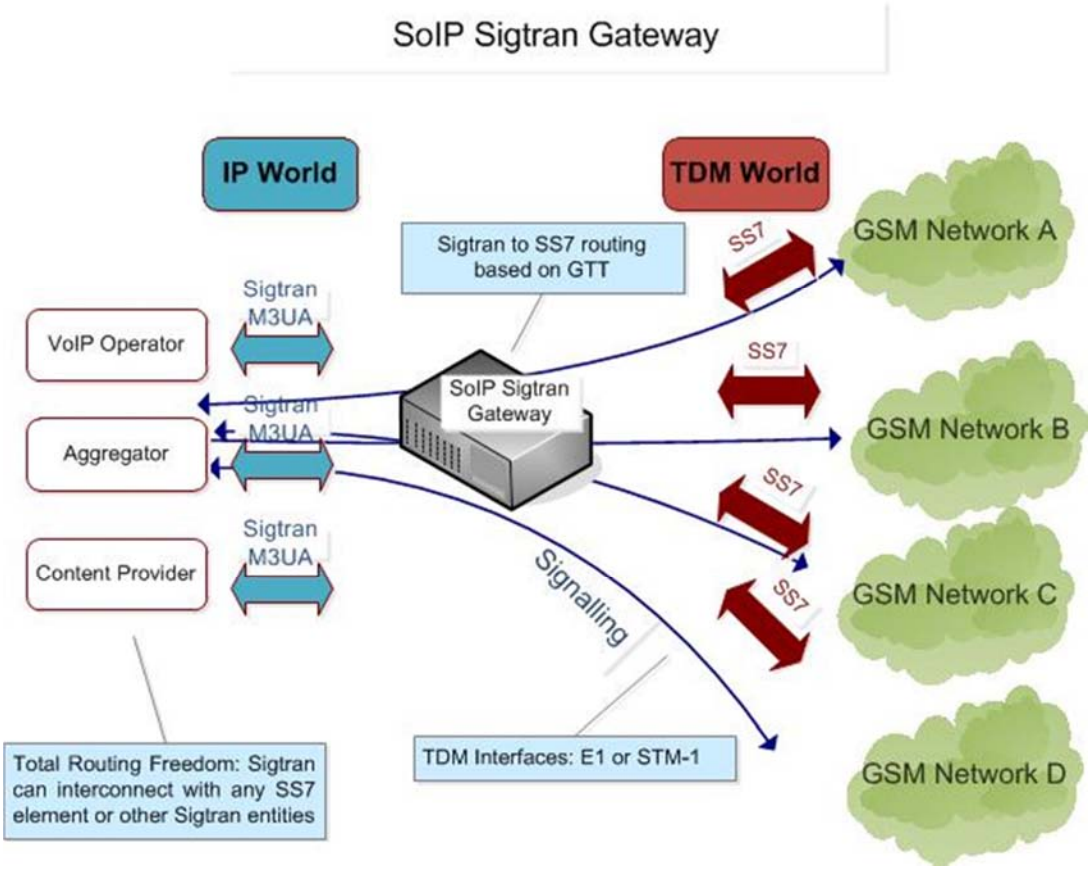
The SoIP Sigtran Gateway is based on the well-established SoIP SS7 Gateway which has been widely deployed in hundreds of carrier networks all over the world. WTL's huge expertise in SS7 signalling has been used to add SCCP signalling to the existing ISUP stack.
The WTL SoIP implements GTT (Global Title Translation) and therefore is a fully featured Sigtran and SS7 switch. This means that multiple connections may be supported on both the IP and the TDM sides. Switching between connections is managed by reference to GTT routing tables.
The product is highly scalable and the TDM connections may be E1/T1 or STM-1.

Product Benefits

- Ease of Use – Simple web-based set up and management
- Performance – Supports more than 1000 MSU per second
- Reliability – Multiple physical and logical redundancy features
- Scalable – Starts as small as 2 E1s and can expand all the way to multiple STM-1s
- Total Routing Freedom – Sigtran to SS7, Sigtran to Sigtran, SS7 to SS7
- Protocols –Sigtran M3UA, SS7 ISUP
- Flexible – Up to 64 Sigtran connections per gateway
- Multi-use – SoIP Sigtran can also act as VoIP SIP gateway

Total Routing Freedom

The product acts as both a SG (Signalling Gateway) and a STP / ITP (Signalling Transfer Point / IP Transfer Point) and allows flexible topologies. This means that IP to IP or TDM to TDM routing is possible at the same time as the classic IP to TDM.



Key Features:

The basic SoIP Sigtran Gateway is a 4U rack mounted device with 2 to 32 E1 links. Multiple gateways can be seamlessly linked and larger versions of the product support capacities up to 8 x STM-1. One box can support SS7 signalling translation for up to 256 SS7 Signalling Link Sets. The SoIP uses the Solaris Operating System, RAID disks and dual PSUs to ensure the highest levels of reliability.
SoIP supports many SS7 ISUP variants and network topologies. Multiple routing rules can be configured to support various fallback features.

Great Flexibility

- SS7 ISUP message manipulation
- Modify information elements in SS7 messages
- SS7 Cause Code mapping
- Number manipulation for incoming (pre-routing) and outgoing (post-routing) trunks

Carrier Grade Platform

- High availability architecture - 99.99% availability
- SS7 Redundancy at multiple levels
- Total Remote Management
- Web based EMS
- IP separation (per media, control protocol, and OAM)

Specifications

Gateway:	M3UA Signaling Gateway	M3UA Virtual STP Gateway
	MTP & SCCP layers	TDM signaling links
STP Features:	SCCP Relay	M3UA Geographic redundancy
	Point Code Translation	Capability Point Code
	Point Code Emulation	
Routing:	Global title substitution	Routing on SCCP called party address
	Routing on ASPid	Round Robin Load Balancing
	Routing on Transaction Id for WTL internal client	
Capacity:	Up to 32 SS7 links*	Up to 32 SS7 trunks*
	64 Destination Point Codes	4 Operational Point Codes (National or international)
	Call set up: BHCC Rate (Busy Hour Call Completion) < 250,000 per SoIP Gateway	
	* Limit per unit. Expansion possible via additional units.	
Physical:	SS7 Interfaces: T1/E1/ STM-1	IP Interfaces : 2 x 10/100/1000 Base-T Ethernet
	3 x SCSI RAID 5 + Pass through disk for emergency recovery	
	Power: 1+1 redundant PSUs.	Consumption: Max 800W
	Height : 4U	Depth : 755 mm