

Signaling Gateway

TELES Signaling Gateway provides seamless signaling between IP and TDM networks



- Provides seamless signaling between IP and TDM networks
- Supports SIGTRAN (SCTP, M2UA, M3UA), MTP2, MTP3
- Wide range of national SS7 certificates enables easy migration to large-scale global NGN deployments
- Future-proof architecture & standard based carrier-grade solution
- Leverages existing investment in SS7 networks and allows seamless migration to next generation services and applications

Overview

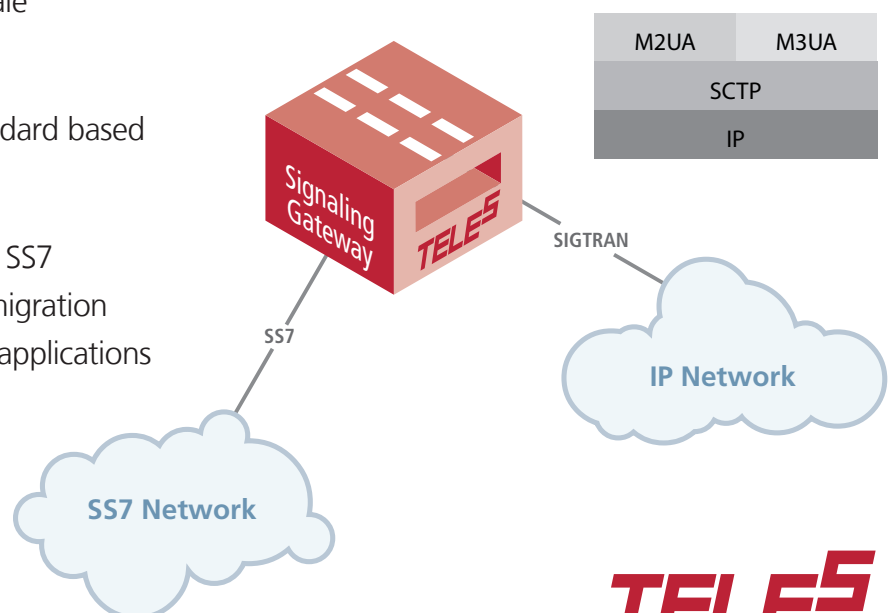
Resolve SS7 over IP issues in Next Generation Networks using the TELES Signaling Gateway. It provides standard based seamless interworking between TDM networks and packet networks controlled by the TELES Media Gateway Controller. Deployed in large carrier networks, the TELES Signaling Gateway provides robust, carrier-grade, and future-proof interworking solutions to next generation service providers.

Flexibility and robustness

The TELES Signaling Gateway supports an extensive range of SS7 network configurations using one-to-many or shared SS7 point codes. It accomplishes this by providing SS7 signaling link termination using the IETF SIGTRAN protocol suite.

The TELES Signaling Gateway delivers ISDN User Part (ISUP) information to the TELES Media Gateway Controller (MGC). The messages can be delivered to the MGC using either M2UA or M3UA, depending on your network architecture.

In addition, the TELES Signaling Gateway supports a wide range of national SS7 certificates and thereby enables easy migration to large-scale global NGN deployments.



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CAPABILITIES

Scalability	Max. number of signaling links: 24
Performance	Max. capacity per signaling link: 0.95E
	Max. capacity total: 5.04E
	Max. number of SIGTRAN M2UA-Links: 24
	Max. number of SIGTRAN M3UA-Users: 24
	Max. number of M3UA Routing Keys: 240

PROTOCOLS

PSTN SS7	ETSI (ETS 300 011-1)
	ITU-T (Q.701, Q.702, Q.703, Q.704)
SIGTRAN	SCTP (RFC2719, RFC2960, RFC3309)
	M2UA (RFC3331)
	M3UA (RFC4666)

SYSTEM MANAGEMENT

OAM by Java based GUI
CLI (command line interface via SSH)
SNMPv2 (RFC3418)
Standard MIBs
Private MIBs

CONNECTION SPECIFICATIONS

Ethernet Interface	1+1 redundant 100baseTx Fast Ethernet, rear connectors
TDM interfaces	RJ48c rear connectors, impedance E1/T1 120 ohms
	RJ21 (Telco) rear connector per 12 trunks (upon request)
	1.0/2.3 rear connectors, impedance E1 75 ohms unbalanced (upon request)

HARDWARE SPECIFICATIONS

Physical Parameters	
Dimensions (H×W×D)	483 mm × 134 mm × 311 mm (5.3" (3RU) × 19" × 12.3")
Mounting	19" Rack
Weight	Approx. 20 kg (41 lbs)
Power supply	1+1 redundant power supply units 100–240 VAC, 200 W
Cooling	1+1 redundant fans 100m3/h left to right (load shared)
Environment Conditions	
Temperature, operating	0 °C to 50 °C
Humidity	5 % to 95 % (non-condensing)
Altitude	0 to 3,000 m (10,000 ft)
Regulatory Compliance	
Emissions and Immunity	EMC Directive 89/336/EC
	EN 61000-6-4:2001: EN 300 386 v1.3.1
	EN 55022
	EN 61000-6-2: 2001
Electrical Safety	EN 6100-4-2/-3/-4/-5/-6/-11
	LVD Directive 73/23/EC
	EN 60950-1: 2002



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