

Softswitch Compact

○ Datasheet

High-class and user-friendly Class 4 Softswitch

The TELES Softswitch Compact provides a leading edge interconnection and peering solution for Next Generation Network (NGN) operators. Supporting all network architectures and maximizing the call completion rate, the Softswitch combines versatile signaling capabilities with leading edge routing capabilities. In short, the Softswitch provides an intelligent, easy to configure call routing engine to handle traffic.

Throughout the world, the TELES Softswitch has a trackrecord of proven interoperability with numerous VoIP and PSTN networks and types of equipment.

BENEFITS AT A GLANCE

- Carrier-grade Class 4 Softswitch for interconnection and peering
- Supports up to 2 million Busy Hour Call Attempts (BHCA) and up to 20,000 concurrent calls
- Any-to-any interworking between all relevant VoIP and PSTN signaling protocols
- High-end call routing policy engine with multiple external interfaces

Softswitch Compact	
Scalability	
Max. number E1	2,000
Max. simultaneous calls	20,000
Performance	
Busy Hour Call Attempts	2 Mio
Redundancy	
1+1 Hot Standby Redundancy Concept	⊙
with L2 Geo-Redundancy	⊙
Routing Policies	
Advanced, intelligent call routing (complex routing rules, multi-level routing function, Least Cost Routing, fully programmable routing flow by using regular expressions)	
Routing API	
RADIUS AAA (RFC2865, RFC2866, RFC2869, Cisco VSAs, TELES VSAs)	⊙
SIP redirect server support	⊙
IN (INAP SSF)	⊙
CAMEL (CAP SSF, partially SCF)	⊙
ENUM E.164 number mapping	⊙
Interface to database (Data Server or REST)	⊙
Routing API to wholesale trading billing systems	⊙
Billing API	
CDR file interface to CMS or offline billing	⊙
RADIUS AAA interface to prepaid billing	⊙
Management	
EMS GUI, CLI	⊙
Monitoring	
SNMPv2 Standard + Private MIBs	⊙
Hypervisor / Operating System	
VMware ESXi 6.5 or later; CentOS 7	⊙
Functions	
NGN: Softswitch, MGC, G-MSC, IP-STP, IC-SBC	⊙
IMS: MGCF, SGF, BGCF, IBCF	⊙

PROTOCOLS

Gateway Control	H.248 (Megaco), MGCP
VoIP Signaling	SIP, SIP-I / T SIP-ISUP (SIP-I / T) Interworking (ITU-T Q.1912.5-Profile C, RFC3372, RFC3398, RFC3204) H.323v4
VoIP Codec Negotiation	G.711-a, G.711-μ, G.729, G.729A, G.729B, G.729AB, G.729.1, G.722*, G.722.1*, G.723.1 (5.3k, 6.3k), G.726, G.728, G.729E*, G.729EB*, G.729.1, AMR, AMR-WB, EG.711* (A-law, μ-law), EVRC*, EVRC-B*, EVRC-WB*, SVM*, GSM-FR/ EFR, iLBC* (13k,15k), T.38, nx64, ccd, Clear Modus, VBD Modus * not available in H.323 Silence suppression and echo cancellation on a per call basis Fax/modem detection and transport (bypass, transparent or relay)
PSTN SS7 Signaling	MTP3 (ITU-T Q.704) ISUP (ITU-T Q.761-Q.764 (V1 Blue Book, V2 White Book, V3)), Q.767 international ETSI (ETS 300 356-1: 92, 95, 98), 40 national ISUP variants ANSI SS7 (T111.3+4, T113.3) MAP 3GPP TS 29.002 v4.18.0 (partially) CAP 3GPP TS 29.078 v4.9.0 (partially) INAP CS-1, CS-2, CS-3 (partially)
SIGTRAN	SCTP (RFC2719, RFC2960, RFC3309) M2UA (RFC3331), M3UA (RFC4666) M2PA (RFC4165), IUA (RFC4233)

INTEROPERABILITY

Media Gateways	TELES Border Gateway (NBE) TELES Media Gateway (iMGW) TelcoBridges TMG800/3200/7800 AudioCodes Mediant series Nuera GX-2K, GX-3K Alcatel 7515 MG Cisco AS5xxx series Newgrid NMG 16/32/63 Nortel MG3200
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