

Softswitch Cluster

○ Datasheet

Divide and rule your network

TELES cluster technology divides your system architecture into independent functional elements that are separated into call control and protocol entities and allow cluster elements to be independently scaled and geographically distributed. The result is a Softswitch Cluster with carrier-grade availability that is suitable for large-scale global deployments.

TELES Softswitch Cluster delivers outstanding scalability, optimum performance, and high availability. Designed for high peak loads and short call duration applications, the architecture is best suited to ultra-high performance. The Softswitch Cluster is remotely managed, configured, and deployed. It offers enhanced operational capabilities and reduces the time and effort typically required to manage a Next Generation Network. In short, the TELES Softswitch Cluster is one of the strongest on the market.

BENEFITS AT A GLANCE

- Carrier-grade Class 4 Softswitch
- Supports up to 12 million Busy Hour Call Attempts (BHCA)
- Supports up to 175,000 concurrent calls
- Advanced programmable call routing policy engine
- Any-to-any interworking between all major VoIP and PSTN signaling protocols

Softswitch Cluster	
Scalability	
Max. number E1	8,000
Max. simultaneous calls	175,000
Performance	
Busy Hour Call Attempts	12 Mio.
Redundancy	
1+1 Hot Standby Redundancy Concept	⊙
with L3 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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