

base7 8681 AGCF PLATFORM

OPERATING SYSTEMS

Linux RHEL/Centos 6.x

+

Solaris 10+

CONCURRENT CALLS

30k per ref server

AVAILABILITY

99.99999 %

IP CLIENTS

510 per server

REGISTRATIONS

750k per ref server

The 8681 AGCF is a software platform that can be deployed on industry standard hardware to interconnect between a H.248 enabled device that interacts with the v5.2 network and SIP peer devices in an IMS or SIP core network. It implements the requirements of a PSTN Emulation Subsystem (PES) as defined in the ETSI standard TS 183 043.

The main features supported by the 8681 are

- Support for all H.248 packages required for TS 183 043 interactions
- Transport for both H.248 and SIP over SCTP/IP, TCP/IP or UDP/IP
- Local Registration database for managing subscriber state. This can be interfaced to a site subscriber database for provisioning and subscription information exchange
- Any supplementary service can be configured in the services database including Initial Filter Criteria and SIP service logic to allow for expansion and customization of the supplementary services feature set.
- Deployed in Highly Available hardware clusters with full state replication to allow for call continuity in failure or managed shutdown. Support for multihoming and failover in SCTP configurations.
- Integration to the base7 EMS or any NMS that uses SNMP for performance monitoring and alarming
- Local CDR generation in formatable textual or binary output with storage and recovery.

- Support for Advice of Charge messaging
- Web-based GUI for configuration and management
- Can be deployed with the 5710 and 5720 gateway elements to extend support to ISUP/Q.931 /INAP
- Registration interoperability with the Cisco Broadsoft platform to allow for a single point of user registration and management
- embedded SBC for NAT traversal, topology hiding and media management

SUPPORTED STANDARDS

ETSI ES 282 001: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Functional Architecture Release 1".

ETSI TS 182 006: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Subsystem (IMS); Stage 2 description (3GPP TS 23.228 v7.2.0, modified)".

ETSI TS 182 012: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IMS-based PSTN/ISDN Emulation Subsystem; Functional architecture".

ETSI ES 283 003: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); IP Multimedia Call Control Protocol based on Session Initiation Protocol (SIP) and Session Description Protocol (SDP) Stage 3 [3GPP TS 24.229 (Release 7), modified]".

ETSI ES 283 002: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN Emulation Subsystem (PES); NGN Release 1 H.248 Profile for controlling Access and Residential Gateways".

ETSI TS 183 028: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Common

ETSI TS 183 004: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Communication Diversion (CDIV); Protocol specification".

ETSI TS 183 010: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); NGN Signalling Control Protocol; Communication HOLD (HOLD); PSTN/ISDN simulation services".

ETSI ES 200 659-3: "Access and Terminals (AT); Analogue access to the Public Switched Telephone Network (PSTN); Subscriber line protocol over the local loop for display (and related) services; Part 3: Data link message and parameter codings".

ETSI EG 201 973-2: "Access and Terminals (AT); Public Switched Telephone Network; Support of legacy terminals by Broadband IP networks and equipment; Part 2: Analogue PSTN terminals"

ETSI ETS 300 738: "Human Factors (HF); Minimum Man-Machine Interface (MMI) to public network based supplementary services".

ITU-T Recommendation H.248.23: "Gateway control protocol: Enhanced Alerting packages".

ITU-T Recommendation H.248.26: "Gateway control protocol: Enhanced analog lines packages".

IETF draft-ietf-sipping-config-framework-08: "A Framework for Session Initiation Protocol User Agent Profile Delivery".

IETF RFC 4240: "Basic Network Media Services with SIP".

IETF RFC 2833: "RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals".

IETF RFC 3842: "A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)".

H.248.1: "Gateway control protocol".

IETF RFC 3323: "A Privacy Mechanism for the Session Initiation Protocol (SIP)".

IETF RFC 3325: "Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks".

ETSI TS 183 006: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Message Waiting Indication (MWI): Protocol specification".

ETSI TS 183 011: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services: Anonymous Communication Rejection (ACR) and Communication Barring (CB); Protocol specification".

IETF RFC 3311: "The Session Initiation Protocol (SIP) UPDATE Method".

IETF RFC 6086: "The SIP INFO Method and Package Framework"

IETF RFC 3261: "The Session Initiation Protocol"

ETSI ES 283 027: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); Endorsement of the SIP-ISUP Interworking between the IP Multimedia (IM) Core Network (CN) subsystem and Circuit Switched (CS) networks [3GPP TS 29.163 (Release 7), modified]".

ETSI TS 183 023: "Telecommunications and Internet converged Services and Protocols for Advanced Networking (TISPAN); PSTN/ISDN simulation services; Extensible Markup Language (XML) Configuration Access Protocol (XCAP) over the Ut interface for Manipulating NGN PSTN/ISDN Simulation Services".