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Approach

- Develop protocols (SIP, RTSP, RTP,...)
- Implement common reusable libraries
- Provide distributed servers components
- Integrate with web, email, phone systems

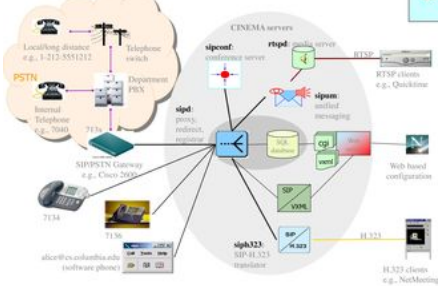
Session Initiation Protocol (SIP)-based enterprise VoIP infrastructure

Project Objectives

A flexible architecture to support clients and servers for wide range of multimedia communication applications such as video conferencing, Internet telephony/radio, interactive voice response, unified messaging, presence and multimedia collaboration.

Performance

- sipstone: benchmark for SIP servers
- Different signaling vs. media components
- Black-box measurement and white-box profiling
- Load balancing, thread pooling, and reactive system to improve performance
- Novel peer-to-peer IP telephony using SIP



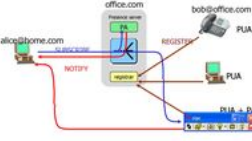
Unified messaging using SIP and RTSP



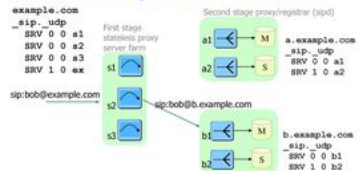
P2P VoIP using SIP

Peer-to-peer Internet telephony avoids the configuration and maintenance cost of server-based architecture and dependency on controlled infrastructure such as DNS. We use Chord algorithm on top of SIP for an interoperable, scalable and robust P2P-SIP endpoint.

Presence and event notification



Load sharing and failover in SIP



Multimedia conferencing

A SIP/RTSP-based centralized conference server to support audio mixing, video forwarding, text chat, and screen sharing among heterogeneous endpoints such as PC and phones. It has play-out delay adjustment for wide area Internet, web-based conference setup, high quality audio (G.722, G.711) as well as low bit rate codecs (GSM, DVI).

SIP-H.323 gateway

A signaling translator between ITU-T's multistage H.323 and IETF's SIP that supports different dialing modes, has a built-in gatekeeper and is transparent to media path.

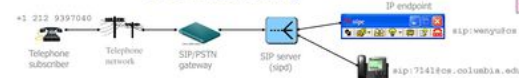
Programmable IP telephony services

Programmable call routing based on time of day, caller id, etc., using server side Call processing language, Common Gateway interface (CGI), Java servlets or client side Language for End System services (LESS) scripts

Interactive voice response (IVR)



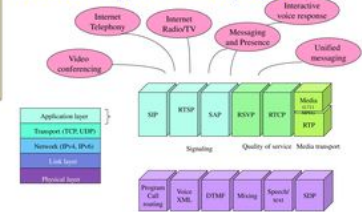
PSTN interworking



Overview

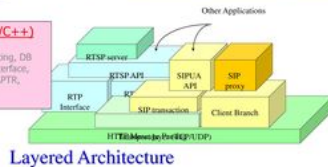
- Multimedia communication
 Audio, video, text, screen sharing, ...
 PSTN interworking, IVR
- Multi-devices
 IP-phone, telephone, X10, Ncast, ...
- Collaboration
 Voicemail, discussion forum, ...

Multimedia application components



Libraries (C/C++)

SIP, RTP, audio mixing, DB interface, SNMP interface, RTSP, DNS SRV/NAPTR, win32 portability, ...



... moving from IP telephony to real-time multimedia collaboration...

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