SIP-XMPP Mappings

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SIP <=> XMPP

- draft-saintandre-sip-xmpp-*
- A series of expired I-Ds, 2004-2009
- Architectural assumption: bidirectional gateway between SIP network and XMPP network
- Approach: map syntax and semantics between protocols
-core

• addresses
  • localpart only
  • ASCII range only
  • allowed and disallowed characters
• error handling
-presence

• subscriptions
  • long-lived in XMPP, temporary (with renewals) in SIP

• notifications
  • on/open + off/closed
  • availability, status, priority, PIDF, extensions, etc.
-im

- Basic instant messaging ("page mode")
- Body, thread, subject, etc.
- Extensions and content-types
- Not one-to-one chat sessions
- Not groupchat
-chat

• One-to-one chat sessions
• Mapping to Message Session Relay Protocol (MSRP) = RFC 4975
• Gateway handles SIP session management
• Uses Stanza Session Negotiation (XEP-0155)
-groupchat

• Multi-User Chat (XEP-0045) <=> Message Session Relay Protocol (RFC 4975)

• Join, leave, set nickname, send message, change presence

• Not a full mapping of text conferencing capabilities
-media

- Mapping between Jingle (XEP-0166 etc.) and core SIP features for call management
- Focused on voice and video, not other media use cases (say, whiteboarding)
- Not a full mapping
Restart this Work?

• Several of these specs are close to done (core, presence, IM)
• Others are pretty far along (chat)
• Others are sketchy (groupchat, media)
• Additional work (disco, file transfer, etc.)?
• Is this worth pursuing? By whom?