

SIP-XMPP Mappings

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SIP \Leftrightarrow 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) \Leftrightarrow 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?