

More Instant Messaging Interoperability (MIMI) Working Group



Image courtesy of Stable Diffusion

Note Well

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Definitive information is in the documents listed below and other IETF BCPs. For advice, please talk to WG chairs or ADs:

- BCP 9 (Internet Standards Process)
- BCP 25 (Working Group processes)
- BCP 25 (Anti-Harassment Procedures)
- BCP 54 (Code of Conduct)
- BCP 78 (Copyright)
- BCP 79 (Patents, Participation)
- https://www.ietf.org/privacy-policy/ (Privacy Policy)

Mask policy

Note taker?

Agenda

- Chair slides (3 minutes)
- MIMI Protocol open issues (Travis Ralston and Konrad Kohbrok, 30 minutes)
- Discovery
 - Consensus points thus far (chairs, 10 minutes)
 - <u>Interoperable Private Identity Discovery for E2EE Messaging</u> (Femi Olumofin, 35 minutes)
 - <u>Discovery of MIMI Service-Specific Identifiers via DNS</u> (Vittorio Bertola, 15 minutes)

Framing of the user discovery problem

- Service-specific identifier (SSI): identifies a unique user within a single service provider's service and encodes the service provider in the identifier
- Service-independent identifier (SII): identifies a unique user independent of any specific service
- Messaging providers want to assert mappings from SIIs to their SSIs.
- A large number of messaging providers may exist.
- Clients (or providers acting on their behalf) want to discover which SSIs map to a given SII.
- In general, clients (or providers acting on their behalf) do not trust messaging providers' assertions of SII-SSI mappings (they may trust some, but not all). They assume some messaging providers will assert false SII-SSI mappings.

User discovery consensus points

"Discovery" involves two separable problems:

- Authentication of SII-SSI mappings
 - o Clients (or their providers acting on their behalf) need to trust the mappings
 - Similar shape as a PKI, where mapping authorities doing authentication have similar properties, threat models, and constraints as CAs
 - Implies option for messaging providers to be their own mapping authorities or use third-party mapping authorities
- Distribution of SII-SSI mappings
 - Clients (or providers acting on their behalf) need an efficient way to query mappings from distributions points
 - Since mappings are authenticated, distribution points need not be trusted
 - Distribution points can be designed according to scaling and privacy goals
 - May imply that messaging providers serve as distribution points