More Instant Messaging Interoperability (MIMI) Working Group

IETF 116
March 30, 2023
Note Well

This is a reminder of IETF policies in effect on various topics such as patents or code of conduct. It is only meant to point you in the right direction. Exceptions may apply. The IETF's patent policy and the definition of an IETF "contribution" and "participation" are set forth in BCP 79; please read it carefully.

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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)

Mask policy
Agenda

- Agenda Bash, Administrivia, and WG Roadmap (Chairs) 10 minutes
- Content format (Rohan Mahy) 30 minutes
- Message transport and delivery
  - Matrix: framework and linearized Matrix (Matthew Hodgson) 7 minutes
  - MIMI Transport Protocol (Jonathan Rosenberg) 7 minutes
  - MIMI Delivery Service (Raphael Robert) 7 minutes
  - Discussion of transport requirements and trade-offs (Eric Rescorla) 40 minutes
- WG process going forward (Chairs) 10 minutes
# MIMI Building Blocks (1/2)

<table>
<thead>
<tr>
<th>Building block</th>
<th>Problem(s) to be solved</th>
<th>Relevant drafts and existing building blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Messaging content format</td>
<td>- Which message features are supported and how&lt;br&gt;- Extensibility mechanism</td>
<td>Reqs: draft-ralston-mimi-messaging-requirements&lt;br&gt;Specs: draft-mahy-mimi-content&lt;br&gt;draft-ralston-mimi-matrix-message-format&lt;br&gt;Existing: MIME, URIs</td>
</tr>
<tr>
<td>Message transfer and delivery (also known as transport)</td>
<td>- How providers exchange messages&lt;br&gt;- How users on different providers initiate contact with one another&lt;br&gt;- How MLS delivery service (DS) functions are performed (?)</td>
<td>Reqs: draft-ralston-mimi-messaging-requirements&lt;br&gt;Specs: draft-rosenberg-mimi-protocol&lt;br&gt;draft-ralston-mimi-linearized-matrix&lt;br&gt;draft-ralston-mimi-matrix-transport&lt;br&gt;draft-robert-mimi-delivery-service&lt;br&gt;Existing: XMPP, Matrix</td>
</tr>
<tr>
<td>MLS profile</td>
<td>Explanation of how MLS operational requirements (Section 6 of draft-ietf-mls-architecture) are met</td>
<td>draft-robert-mimi-delivery-service (?)</td>
</tr>
</tbody>
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# MIMI Building Blocks (2/2)

<table>
<thead>
<tr>
<th>Building block</th>
<th>Problem(s) to be solved</th>
<th>Drafts and existing building blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identifier naming conventions</td>
<td>How providers, users, clients, devices, and groups are identified</td>
<td>draft-mahy-mimi-identity</td>
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<tr>
<td></td>
<td></td>
<td>draft-rosenberg-mimi-protocol</td>
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<td></td>
<td></td>
<td>Existing: URIs using im: or other schemes</td>
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</tbody>
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| E2E identity                  | How to associate non-cryptographic identity attributes to cryptographic representation of a MIMI client
|                               | - Includes how MLS authentication service (AS) functions are performed                 | Arch:
|                               |                                                                                       | draft-barnes-mimi-identity-arch                                         |
|                               |                                                                                       | draft-mahy-mimi-identity                                                |
|                               |                                                                                       | Existing: X.509, Verifiable Credentials, OIDC                           |
MIMI WG Roadmap

Proposed prioritization of work items:

1. Content format
2. Message transfer protocol + identifier naming conventions
3. MLS profile
4. Identity
WG process going forward

● Virtual interims on regular cadence
  ○ Bi-weekly starting week of April 10?
  ○ Choosing a time slot

● Process for agreeing on semi-stable draft versions to use as interop targets
  ○ Regular deadlines for PR submission and incorporation