

More Instant Messaging Interoperability  
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Conveying the More Instant Messaging Interoperability Message ID in  
Messaging Layer Security Additional Authenticated Data  
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## Abstract

The More Instant Messaging Interoperability (MIMI) content format defines a MIMI Message ID, communicated only to members of the Messaging Layer Security (MLS) group in which the message was sent. This document defines a way to share a Message ID in the MLS Additional Authenticated Data (AAD) so it is visible to MIMI providers.

## About This Document

This note is to be removed before publishing as an RFC.

The latest revision of this draft can be found at <https://rohanmahy.github.io/mimi-msgid-aad/draft-mahy-mimi-msgid-aad.html>. Status information for this document may be found at <https://datatracker.ietf.org/doc/draft-mahy-mimi-msgid-aad/>.

Discussion of this document takes place on the More Instant Messaging Interoperability mailing list (<mailto:mimi@ietf.org>), which is archived at <https://mailarchive.ietf.org/arch/browse/mimi/>. Subscribe at <https://www.ietf.org/mailman/listinfo/mimi/>.

Source for this draft and an issue tracker can be found at <https://github.com/rohanmahy/mimi-msgid-aad>.

## Status of This Memo

This Internet-Draft is submitted in full conformance with the provisions of BCP 78 and BCP 79.

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## 1. Introduction

Many messaging protocols and formats have a Message ID. The MIMI content format defines how to calculate a MIMI Message ID Section 3.3 of [I-D.ietf-mimi-content] for an application message. A MIMI Message ID is currently only shared end-to-end encrypted with members of the MLS [RFC9420] group in which the message was sent. This document defines an optional mechanism to share a Message ID in the MLS AAD, so it is visible to intermediary providers. This greatly facilitates debugging and troubleshooting, but causes a modest reduction in privacy.

## 2. Conventions and Definitions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in BCP 14 [RFC2119] [RFC8174] when, and only when, they appear in all capitals, as shown here.

## 3. Mechanism

This document defines a new Safe AAD `message_id` component as described in Section 4.9 of [I-D.ietf-mls-extensions].

When the content of an MLS application message is a MIMI content message (media type `application/mimi-content`), if the `message_id` component is present inside `SafeAAD.aad_items`, it MUST contain the MIMI content Message ID calculated as described in Section 3.3 of [I-D.ietf-mimi-content].

To the extent that other application formats or media types have a Message ID, the Message ID for an application message of that type or format MAY be conveyed in this extension.

## 4. Security Considerations

An attacker with access to a fragment of message history, and the message logs of a MIMI provider in the path of a message could potentially learn more about the participants of a particular MIMI room or the room's corresponding MLS group.

## 5. IANA Considerations

### 5.1. `message_id` MLS Component Type

This document registers a new MLS Component Type in the Specification Required range with the following template:

- \* Value: TBD (new assignment by IANA)
- \* Name: `message_id`
- \* Where: AD
- \* Recommended: Y
- \* Reference: RFC XXXX

## 6. Normative References

`[I-D.ietf-mimi-content]`

Mahy, R., "More Instant Messaging Interoperability (MIMI) message content", Work in Progress, Internet-Draft, draft-ietf-mimi-content-06, 28 February 2025, <<https://datatracker.ietf.org/doc/html/draft-ietf-mimi-content-06>>.

`[I-D.ietf-mls-extensions]`

Robert, R., "The Messaging Layer Security (MLS) Extensions", Work in Progress, Internet-Draft, draft-ietf-mls-extensions-06, 19 February 2025, <<https://datatracker.ietf.org/doc/html/draft-ietf-mls-extensions-06>>.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", BCP 14, RFC 2119, DOI 10.17487/RFC2119, March 1997, <<https://www.rfc-editor.org/rfc/rfc2119>>.

[RFC8174] Leiba, B., "Ambiguity of Uppercase vs Lowercase in RFC 2119 Key Words", BCP 14, RFC 8174, DOI 10.17487/RFC8174, May 2017, <<https://www.rfc-editor.org/rfc/rfc8174>>.

[RFC9420] Barnes, R., Beurdouche, B., Robert, R., Millican, J., Omara, E., and K. Cohn-Gordon, "The Messaging Layer Security (MLS) Protocol", RFC 9420, DOI 10.17487/RFC9420, July 2023, <<https://www.rfc-editor.org/rfc/rfc9420>>.

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TODO acknowledge.

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