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**IANA Registration of Content-Disposition Header Field value
'encapsulated'
draft-melnikov-iana-reg-cd-encapsulated-00**

Abstract

This document defines a new Content-Disposition header field value "encapsulated" to be used with "message/rfc822" and "message/global" media types. Content-Disposition "encapsulated" signals that enclosed message should be presented inline, instead of being presented as a forwarded message. One use case for this is for S/MIME header protection.

About This Document

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

Status information for this document may be found at <https://datatracker.ietf.org/doc/draft-melnikov-iana-reg-cd-encapsulated/>.

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1. Introduction

This document defines a new Content-Disposition header field [[RFC2183](#)] value "encapsulated" to be used with "message/rfc822" [[RFC2046](#)] and "message/global" [[RFC6532](#)] media types. The value "encapsulated" is meaningful when used within S/MIME or PGP/MIME signed or encrypted body parts (e.g., as specified in [[I-D.ietf-lamps-header-protection](#)] for S/MIME). Absence of Content-Disposition header field (or presence of any value other than "encapsulated") when Content-Type is "message/rfc822" or "message/global" means that the message nested inside "message/rfc822" (or "message/global") is a simple forwarded message. Presence of "Content-Disposition: encapsulated" means that encapsulation is used for header protection, but otherwise the message should be displayed inline.

1.1. Use Cases

Two use cases have been discovered so far:

1. This Content-Disposition value indicates whether a nested message is signed and/or encrypted (S/MIME or PGP/MIME), which tells the receiving side how to display the message to the user. Currently, many email clients display "weird artefacts" to users due to this missing information.
2. This Content-Disposition values indicates to mailing lists which signed and/or encrypted (S/MIME or PGP/MIME) email messages are forwarded, and which are just encapsulated for the purpose of header protection, and how to handle these respective messages.

1.2. Implementations

At this time, the following email systems are known to use this Content-Disposition header field value:

1. Isode Harrier Web Server with S/MIME [[RFC8551](#)] support

1.3. Requirements Language

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.

[1.4.](#) Terms

The following terms are defined for the scope of this document:

- * Header Field (HF): cf. [[RFC5322](#)]
- * Header Section (HS): cf. [[RFC5322](#)]

[2.](#) Specification

This section defines the new "encapsulated" Content-Disposition header field value.

An implementation that supports Content-Disposition header field as defined in [[RFC2183](#)], but doesn't support this specification will interpret "encapsulated" in the same way as the value "attachment" (as per requirements in [[RFC2183](#)]).

An implementation that supports this specification uses the Content-Disposition value "encapsulated" with Content-Type "message/rfc822" or "message/global" to signal that the message is encapsulated for header protection (cf. [[I-D.ietf-lamps-header-protection](#)]). Presence of Content-Disposition "encapsulated" with any other Content-Type should be treated in the same way as the Content-Disposition value "inline".

[3.](#) Example

The following example shows the usage of the Content-Disposition header field value "encapsulated" for an email message that is not forwarded, but encapsulated in another email message.

Date: Mon, 25 Sep 2017 17:31:42 +0100 (GMT Daylight Time)
Message-ID: <e4a483cb-1dfb-481d-903b-298c92c21f5e@matt.example.net>
Subject: Meeting at my place
From: "Alexey Melnikov" <alexey.melnikov@example.net>
MIME-Version: 1.0
Content-Type: multipart/signed; charset=us-ascii; micalg=sha1;
protocol="application/pkcs7-signature";
boundary=.cbe16d2a-e1a3-4220-b821-38348fc97237

This is a multipart message in MIME format.

--.cbe16d2a-e1a3-4220-b821-38348fc97237
Content-Type: message/rfc822
Content-Disposition: encapsulated

Date: Mon, 25 Sep 2017 17:31:42 +0100 (GMT Daylight Time)
From: "Alexey Melnikov" <alexey.melnikov@example.net>
Message-ID: <e4a483cb-1dfb-481d-903b-298c92c21f5e@matt.example.net>
MIME-Version: 1.0
MMHS-Primary-Precedence: 3
Subject: Meeting at my place
To: somebody@example.net
X-Mailer: Example Mailer
Content-Type: text/plain; charset=us-ascii

This is an important message that I don't want to be modified.

--.cbe16d2a-e1a3-4220-b821-38348fc97237
Content-Transfer-Encoding: base64
Content-Type: application/pkcs7-signature

[[base-64 encoded signature]]

--.cbe16d2a-e1a3-4220-b821-38348fc97237--

4. Security Considerations

This document does not define a new protocol, and thus does not create new security concerns in and of itself.

5. Privacy Considerations

This document does not introduce any new issues regarding Privacy.

6. IANA Considerations

This document requests IANA to register the Content-Disposition header field value [[RFC2183](#)] "encapsulated" with the reference [RFC THIS].

[[RFC Editor: Replace [RFC THIS] with the number of this RFC before publication.]]

7. Acknowledgments

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8. References

8.1. Normative References

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[Appendix A](#). Document Changelog

[[RFC Editor: This section is to be removed before publication]]

* [draft-melnikov-iana-reg-cd-encapsulated-00](#)

- Renamed document
- Replaced Content-Type forwarded parameter with Content-Disposition "encapsulated"

* [draft-melnikov-iana-reg-forwarded-00](#)

- Initial version derived from [draft-ietf-lamps-header-protection-requirements-01](#)

[Appendix B](#). Open Issues

[[RFC Editor: This section should be empty and is to be removed before publication.]]

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