JMAP
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Sending an MDN Response with JMAP
draft-ietf-jmap-mdn-00

Abstract

This document specifies a data model for handling [RFC8098] MDN messages with a server using JMAP.

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

JMAP <https://tools.ietf.org/html/draft-ietf-jmap-core-06> is a generic protocol for synchronising data, such as mail, calendars or contacts, between a client and a server. It is optimised for mobile and web environments, and aims to provide a consistent interface to different data types.

This specification defines a method helping to send MDN (Message Disposition Nodification) messages. MDN are defined in [RFC8098] and are used as "read receipts", "acknowledgements", or "receipt notifications".

1.1. Notational conventions

The key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "MAY", and "OPTIONAL" in this document are to be interpreted as described in [RFC2119].

Type signatures, examples and property descriptions in this document follow the conventions established in Section 1.1 of <https://tools.ietf.org/html/draft-ietf-jmap-core-06>. Email object and methods are defined in <https://tools.ietf.org/html/draft-ietf-jmap-mail-06>.

1.2. Terminology

The same terminology is used in this document as in the core JMAP specification.

1.3. Addition to the capabilities object

The capabilities object is returned as part of the standard JMAP Session object; see the JMAP spec. Servers supporting _this_ specification MUST add a property called "urn:ietf:params:jmap:mdn" to the capabilities object.

2. Email/createMDN

The Email/createMDN method create a [RFC5322] message from MDN properties.

It takes the following arguments:

- *accountId*: "String|null" The id of the account to use for this call. If "null", defaults to the "urn:ietf:params:jmap:mail" primary account.

- *mdns*: "String[MDN]" A map of creation id (client specified) to MDN objects

An *MDN* object has the following properties:

- *referencedMessageId*: "String" Message Id of the received message the user wants to create an MDN for.

- *subject*: "String" Subject that will be used as "Subject" header for this MDN.

- *textBody*: "String" Human readable part of the MDN, as plain text.

- *reportingUA*: "String" Name of the MUA creating this MDN. It is used to build the MDN Report part of the MDN.

- *disposition*: "Disposition" Object containing the diverse MDN disposition options.

A *Disposition* object has the following properties:

- *actionMode*: "String" This MUST be one of the following strings: "manual-action" / "automatic-action"

- *sendingMode*: "String" This MUST be one of the following strings: "MDN-sent-manually" / "MDN-sent-automatically"

- *type*: "String" This MUST be one of the following strings: "deleted" / "dispatched" / "displayed" / "processed"

See [RFC8098] for the exact meaning of these different fields.

If the _referencedMessageId_, _subject_, _textBody_, _reportingUA_, _disposition_ properties are invalid (e.g. missing, wrong type, id not found), the server MUST reject the import with an "invalidProperties" SetError.

If the email cannot be created because it would take the account over quota, the creation should be rejected with a "maxQuotaReached" SetError.

The response has the following arguments:

- *accountId*: "String" The id of the account used for this call.
- *created*: "String[Email]" A map of the creation id to an object build from the referenced properties. The _blobId_ field of the Email objects can then be used to effectively send the MDN.
- *notCreated*: "String[SetError]" A map of creation id to a SetError object for each Email that failed to be created. The possible errors are defined above.

3. IANA Considerations

3.1. JMAP Capability Registration for "mdn"

IANA will register the "mdn" JMAP Capability as follows:

Capability Name: "urn:ietf:params:jmap:mdn"

Specification document: this document

Intended use: common

Change Controller: IETF

Security and privacy considerations: this document, section 4.

4. Normative References

[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/info/rfc2119>.

[RFC5322] Resnick, P., Ed., "Internet Message Format", RFC 5322, DOI 10.17487/RFC5322, October 2008, <https://www.rfc-editor.org/info/rfc5322>.

[RFC8098] Hansen, T., Ed. and A. Melnikov, Ed., "Message Disposition Notification", STD 85, RFC 8098, DOI 10.17487/RFC8098, February 2017, <https://www.rfc-editor.org/info/rfc8098>.

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