

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.

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Internet-Draft

JMAP MDN handling

July 2018

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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:

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

An `*MDN*` object has the following properties:

- o `*referencedMessageId*`: "String" Message Id of the received message the user wants to create an MDN for.
- o `*subject*`: "String" Subject that will be used as "Subject" header for this MDN.
- o `*textBody*`: "String" Human readable part of the MDN, as plain text.
- o `*reportingUA*`: "String" Name of the MUA creating this MDN. It is used to build the MDN Report part of the MDN.
- o `*disposition*`: "Disposition" Object containing the diverse MDN disposition options.

A `*Disposition*` object has the following properties:

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

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

- o `*accountId*`: "String" The id of the account used for this call.
- o `*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.
- o `*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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