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IANA registry for Sieve actions  
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## Abstract

This document creates a registry of Sieve ([RFC 5228](#)) actions in order to help developers and Sieve extension writers track interactions between different extensions.

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Internet-Draft

IANA registry for Sieve actions

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[1.](#) Introduction

Sieve Email Filtering Language [[RFC5228](#)] is a popular email filtering language used upon final mail delivery. Popularity of Sieve resulted in a myriad of Sieve extensions that can interact with each other in wonderful and complex ways. There is currently no easy way to find out all actions defined by Sieve extensions published in RFCs, which make it quite difficult for Sieve extension writers and Sieve implementation developers to foresee interactions between Sieve actions.

This document creates a registry of Sieve [[RFC5228](#)] actions in order to help developers and Sieve extension writers track interactions between different extensions.

[2.](#) Conventions Used in This Document

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.](#) IANA Considerations[3.1.](#) Sieve Actions Registration Template and Procedure

IANA is requested to create a new registry for Sieve actions (see [Section 2.9 of \[RFC5228\]](#) for details on Sieve actions). Registration

of both actions specified in IETF Stream RFCs and vendor specific actions is allowed and encouraged. The registration template contains:

1. name of the action;

2. short description;
3. references: one or more documents describing the action and any significant updates to its definition (this field is REQUIRED for actions described in RFCs and OPTIONAL otherwise);
4. name(s) of Sieve capabilit(ies) associated with the Sieve action being registered;
5. interactions with other Sieve actions, if any;
6. flag specifying whether the action cancels the implicit keep (see [Section 2.10.2 of \[RFC5228\]](#));
7. whether or not this action can be used with IMAP events in Sieve ([\[RFC6785\]](#)), and
8. optional comment.

Registration procedure for this registry is Expert Review. The Designated Expert only checks that the name of the action being registered matches documentation, that the description field is accurate, that the correct documents are referenced and that the list of relevant documents is as complete as possible. The Designated Expert can't reject a registration based on personal dislike of the document defining an action and should always err on the side of registering, even if documentation is not complete.

Addition of a new reference to an existing registration or change to the description field goes through the same registration procedure as a new registration.

### [3.2.](#) Initial Sieve Action Registry

The following table is used to initialize the actions registry.

| Name      | Description                                       | References                | Capabilities | Interactions  | Cancels<br>Implicit<br>Keep? |
|-----------|---|---------------------------|--------------|---|------------------------------|
| addheader | Add a header field to the existing message header | <a href="#">[RFC5293]</a> | "editheader" | All subsequent tests and actions apply to the altered | N                            |

|              |  |  |                              |   |   |
|--------------|--|--|------------------------------|---|---|
|              |  |  |                              | message   |   |
| addflag      | Add flags to a list of IMAP flags                      | <a href="#">[RFC5232]</a> ,<br><a href="#">[RFC5229]</a> | "imap4flags",<br>"variables" |   | N |
| convert      | Convert body parts from one MIME type to another       | <a href="#">[RFC6558]</a>                                | "convert"                    | All subsequent tests and actions apply to the altered message | N |
| deleteheader | Remove a header field from the existing message header | <a href="#">[RFC5293]</a>                                | "editheader"                 | All subsequent tests and actions apply to the altered message | N |
| discard      | Silently throw away the message                        | <a href="#">[RFC5228]</a>                                |                              | Compatible with all other actions                             | Y |
| enclose      | Enclose a message as an                                | <a href="#">[RFC5703]</a>                                | "enclose"                    | All subsequent  | N |

|             |   |                      |                            |   |   |
|-------------|---|----------------------|----------------------------|---|---|
|             | attachment to a new message               |                      |                            | tests and actions, except "redirect" apply to the altered message |   |
| ereject     | Refuse delivery of the message            | [RFC5429]            | "ereject"                  |   | Y |
| extracttext | Store text of a MIME part into a variable | [RFC5703], [RFC5229] | "extracttext", "variables" |   | N |
| fileinto    | Deliver the message into                  | [RFC5228], [RFC3894] | "fileinto", "copy",        | Use of :copy suppresses   | Y |

|          |  |  |  |  |   |
|----------|--|--|--|--|---|
|          | the specified mailbox                      | [RFC5232], [RFC5490], [RFC9042], [RFC8579] | "imap4flags", "mailbox", "mailboxid", "special-use"      | cancelation of implicit keep                         |   |
| keep     | File message into the user's main mailbox  | [RFC5228], [RFC5232]                       | "imap4flags"   |  | Y |
| notify   | Send a notification to a user              | [RFC5435], [RFC8580]                       | "enotify", "fcc"   |  | N |
| redirect | Send (forward) the message to another user | [RFC5228], [RFC3894], [RFC6009], [RFC6134] | "copy", "redirect-dsn", "redirect-deliverby", "extlists" | Use of :copy suppresses cancelation of implicit keep | Y |
| reject   | Refuse                                     | [RFC5429]                                  | "reject"   |  | Y |

|            |  |                      |                           |  |   |
|------------|--|----------------------|---------------------------|--|---|
|            | delivery of the message                |                      |                           |  |   |
| removeflag | Remove flags from a list of IMAP flags | [RFC5232], [RFC5229] | "imap4flags", "variables" |  | N |
| replace    | Replace a MIME part                    | [RFC5703]            | "replace"                 | All subsequent tests and actions, except "redirect" apply to the altered message | N |
| set        | Store a value in a variable            | [RFC5229]            | "variables"               |  | N |
| setflag    | Set IMAP system flags or keywords      | [RFC5232], [RFC5229] | "imap4flags", "variables" |  | N |
| vacation   | Vacation autoresponder                 | [RFC5230], [RFC6131] | "vacation", "vacation-    |  | N |

|  |  |           |                 |  |  |
|--|--|-----------|-----------------|--|--|
|  |  | [RFC8580] | seconds", "fcc" |  |  |
|--|--|-----------|-----------------|--|--|

Table 1

#### 4. Security Considerations

The sole purpose of this document is to create a new IANA registry, so it doesn't create new security considerations for Sieve implementations.

The new registry should help Sieve extension writers and Sieve implementors track interactions between different Sieve actions, so it might improve quality of specifications and implementations,

including security aspects.

## 5. References

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#### [Appendix A](#). Acknowledgements

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