

Workgroup: Network Working Group  
Internet-Draft:  
draft-ietf-extra-sieve-action-registry-06  
Published: 27 March 2023  
Intended Status: Standards Track  
Expires: 28 September 2023  
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**IANA registry for Sieve actions**

## **Abstract**

Sieve Email Filtering Language (RFC 5228) is a popular email filtering language used upon final mail delivery. 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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## 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. IANA Considerations

### 2.1. 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 is optional otherwise);
4. name(s) of Sieve capabilit(ies) associated with the Sieve action being registered;

- 5. interactions with other Sieve actions (as described in Section 2.10.1 of [[RFC5228](#)]), 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](#)]);
- 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.

2.2. Initial Sieve Action Registry

The following table is used to initialize the actions registry. Note that when "Action Interactions" cell is empty it means that there is no restriction on use of the corresponding action with any other action, however implementors still need to read the corresponding specification(s) to see if there is any surprising behaviour. Also note that the "Comments" field of the registration template is omitted from this table, as no registration currently have any comment.

Name	Description	References	C
addheader	Add a header field to the existing message header	<a href="#">[RFC5293]</a>	"
addflag	Add IMAP flags to a list of IMAP	<a href="#">[RFC5232]</a> , <a href="#">[RFC5229]</a>	" "

Name	Description	References	C
	flags that would be set on the message if it gets delivered to a mailbox		
convert	Convert body parts from one MIME type to another	[ <a href="#">RFC6558</a> ]	"
deleteheader	Remove a header field from the existing message header	[ <a href="#">RFC5293</a> ]	"
discard	Silently throw away the message	[ <a href="#">RFC5228</a> ]	
enclose	Enclose a message as an attachment to a new message	[ <a href="#">RFC5703</a> ]	"
ereject	Refuse delivery of the message	[ <a href="#">RFC5429</a> ]	"

Name	Description	References	C
extracttext	Store text of a MIME part into a variable	[ <a href="#">RFC5703</a> ], [ <a href="#">RFC5229</a> ]	" "
fileinto	Deliver the message into the specified mailbox	[ <a href="#">RFC5228</a> ], [ <a href="#">RFC3894</a> ], [ <a href="#">RFC5232</a> ], [ <a href="#">RFC5490</a> ], [ <a href="#">RFC9042</a> ], [ <a href="#">RFC8579</a> ]	" " " " "
keep	File message into the user's main mailbox	[ <a href="#">RFC5228</a> ], [ <a href="#">RFC5232</a> ]	"
notify	Send a notification to a user	[ <a href="#">RFC5435</a> ], [ <a href="#">RFC8580</a> ]	" "
redirect	Send (forward) the message to another user	[ <a href="#">RFC5228</a> ], [ <a href="#">RFC3894</a> ], [ <a href="#">RFC6009</a> ], [ <a href="#">RFC6134</a> ]	" " d " d "
reject	Refuse delivery of the message	[ <a href="#">RFC5429</a> ]	"

Name	Description	References	
removeflag	Remove IMAP flags from a list of IMAP flags that would be set on the message if it gets delivered to a mailbox	[ <a href="#">RFC5232</a> ], [ <a href="#">RFC5229</a> ]	" "
replace	Replace a MIME part	[ <a href="#">RFC5703</a> ]	"
set	Store a value in a variable	[ <a href="#">RFC5229</a> ]	"
setflag	Set IMAP system flags or keywords that would be set on the message if it gets delivered to a mailbox	[ <a href="#">RFC5232</a> ], [ <a href="#">RFC5229</a> ]	" "
vacation	Vacation autoresponder	[ <a href="#">RFC5230</a> ], [ <a href="#">RFC6131</a> ], [ <a href="#">RFC8580</a> ]	" " S "

Table 1

### 3. 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.

For the Security Considerations of particular actions, see the RFC(s) referenced for that action in the Initial Sieve Action Registry in [Section 2.2](#).

## 4. References

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## **Appendix A. Acknowledgements**

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