

Network Working Group
Internet-Draft
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March 19, 2007

Sieve Email Filtering: Notary Extension
draft-freed-sieve-notary-00

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Abstract

This document describes the "notary" extension to the Sieve email filtering language. The "notary" extension provides access to additional envelope information provided by the delivery status notification extension to SMTP defined in [RFC 3461](#).

Change History (to be removed prior to publication as an RFC

Fixed several typos.

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1. Introduction

Sieve [[I-D.ietf-sieve-3028bis](#)] is a language for filtering email messages at or around the time of final delivery. It is designed to be implementable on either a mail client or mail server. It is suitable for running on a mail server where users may not be allowed to execute arbitrary programs, such as on black box Internet Message Access Protocol [[RFC3501](#)] servers, as it has no user-controlled loops or the ability to run external programs.

The base sieve specification defines the envelope extension and test to access information in the message envelope. Only information available in regular SMTP is provided; additional information added to the SMTP envelope by SMTP extensions cannot be accessed. The "notary" extension extends the envelope test to allow access to the additional envelope fields defined by the SMTP extension for delivery status notification specified in [RFC 3461](#) [[RFC3461](#)].

2. Conventions used in this document

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 [BCP 14](#) [[RFC2119](#)].

The terms used to describe the various components of the Sieve language are taken from [[I-D.ietf-sieve-3028bis](#)] [section 1.1](#).

3. Capability Identifiers

The capability strings associated with the extension defined in this document is "notary".

4. Notary extension

The "notary" extension does not define any new tests or actions, rather, it adds four values to the list of possible (case-insensitive) envelope-part strings defined in [[I-D.ietf-sieve-3028bis](#)] [section 5.4](#):

notify Match the list of notification conditions, or NOTIFY values,

associated with TO address used in the SMTP RCPT command that resulted in this message getting delivered to this user. More than one notification condition can be in effect at once; each condition that is in effect is tested separately and any match causes the text to succeed. The syntax and semantics of the

NOTIFY parameter are defined in [RFC 3461 \[RFC3461\] section 4.1](#). Currently the possible notification condition values are "NEVER", "SUCCESS", "FAILURE" and "DELAY".

orcpt Match the original recipient, or ORCPT, value in decoded form associated with the TO address used in the SMTP RCPT command that resulted in this message getting delivered to this user. The syntax and semantics of the ORCPT parameter are defined in [RFC 3461 \[RFC3461\] section 4.2](#).

ret Match the return of content, or RET, value given in the SMTP MAIL FROM command. The syntax and semantics of the RET parameter are defined in [RFC 3461 \[RFC3461\] section 4.3](#). Currently the possible return of content values are "FULL" and "HDRS".

envid Match the envelope identifier, or ENVID, value in decoded form given in the SMTP MAIL FROM command. The syntax and semantics of the ENVID parameter are defined in [RFC 3461 \[RFC3461\] section 4.4](#).

All of these tests fail unconditionally if the specified envelope parameter does not exist for the current message or recipient.

The "relational" extension [[I-D.ietf-sieve-3431bis](#)] adds a match type called ":count". The count of an envelope test of with an envelope-part of "orcpt", "ret", and "envid" is 1 if the corresponding SMTP parameter is present and 0 otherwise. The count of an envelope test with an envelope-part of "notify" is equal to the number of notification conditions specified and 0 if the NOTIFY parameter is not present.

5. Security Considerations

This extension provides access to additional message envelope information. This is not believe to raise any additional security issues beyond those for the Sieve "envelope" test.

All of the security considerations given in the base Sieve specification also apply to this extension.

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6. IANA Considerations

The following template specifies the IANA registration of the Sieve extension specified in this document:

To: iana@iana.org
Subject: Registration of new Sieve extension

Capability name: notary
Description: The "notary" extension extends the envelope test to allow checking of information associated with the NOTARY SMTP extension.
RFC number: RFC XXXX
Contact address: Ned Freed <ned.freed@mrochek.com>

This information should be added to the list of sieve extensions given on <http://www.iana.org/assignments/sieve-extensions>.

7. References

7.1. Normative references

[I-D.ietf-sieve-3028bis]

Guenther, P. and T. Showalter, "Sieve: An Email Filtering Language", [draft-ietf-sieve-3028bis-12](http://www.ietf.org/internet-drafts/draft-ietf-sieve-3028bis-12) (work in progress), February 2007, <<http://www.ietf.org/internet-drafts/draft-ietf-sieve-3028bis-12.txt>>.

[I-D.ietf-sieve-3431bis]

Segmuller, W. and B. Leiba, "Sieve Extension: Relational Tests", [draft-ietf-sieve-3431bis-04](#) (work in progress), December 2005, <<http://www.ietf.org/internet-drafts/draft-ietf-sieve-3431bis-04.txt>>.

[RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [BCP 14](#), [RFC 2119](#), March 1997.

[RFC3461] Moore, K., "Simple Mail Transfer Protocol (SMTP) Service Extension for Delivery Status Notifications (DSNs)", [RFC 3461](#), January 2003.

[7.2](#). Informative references

[RFC3501] Crispin, M., "INTERNET MESSAGE ACCESS PROTOCOL - VERSION 4rev1", [RFC 3501](#), March 2003.

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