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Sieve Extension: File Carbon Copy (Fcc) draft-ietf-extra-sieve-fcc-01

Abstract

The Sieve Email Filtering Language provides a number of action commands, some of which can generate additional messages on behalf of the user. This document defines an extension to such commands to allow a copy of any generated message to be filed into a target mailbox.

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1. Introduction

The Sieve Email Filtering Language [RFC5228] provides a number of action commands, some of which can generate additional messages on behalf of the user. Two such commands are defined by the Vacation [RFC5230] and Notify [RFC5435] extensions. It is sometimes desirable to have an archive of the messages generated by these commands.

This extension defines a new optional tagged argument ":fcc" to action commands which generate additional messages to allow a copy of the generated message to be filed into a target mailbox.

The capability string associated with this extension is "fcc".

2. Conventions Used in This Document

Conventions for notations are as in Section 1.1 of [RFC5228], including use of the "Usage:" label for the definition of action and tagged arguments syntax.

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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 [RFC2119].

3. Tagged Argument ":fcc"

```
Usage: ":fcc" FCC-OPTIONS <mailbox: string>
```

The positional FCC-OPTIONS argument is defined here in ABNF [RFC4234] syntax so that it can be modified by other extensions.

```
FCC-OPTIONS = "" ; empty string
```

If the optional ":fcc" argument is specified with an action that generates an additional message, it instructs the Sieve interpreter to file a copy of the generated message into the target mailbox. If the specified mailbox doesn't exist, the implementation MAY treat it as an error, create the mailbox, or file the message into an implementation-defined mailbox.

3.1. Interaction with the Vacation Action

This document extends the "vacation" [RFC5230] action (see also "vacation-seconds" [RFC6131]) to optionally store a copy of the autoreply messages into a target mailbox.

3.2. Interaction with the Notify Action

This document extends the "notify" [RFC5435] action to optionally store a copy of the notification messages into a target mailbox.

3.3. Compatibility with the Reject and Extended Reject Actions

"fcc" MUST be incompatible with the "reject" and "ereject" [RFC5429] actions. Making "fcc" compatible with these actions violates the SMTP [RFC5321] principle that a message is either delivered or bounced back to the sender. Namely, the saved copy of the rejection message will contain the original message.

It is an error for a script to use the ":fcc" tagged argument with either "reject" or "ereject".

3.4. Compatibility with Other Actions

The "fcc" extension is not compatible with any Sieve action that does not generate an additional message on behalf of the user. It is an error for a script to use the ":fcc" tagged argument with any such action.

Future extensions that define actions that generate additional messages on behalf of the user should describe their compatibility with ":fcc".

3.5. Interaction with Fileinto Extensions

The "fcc" extension can be used with some tagged arguments defined in extensions to the "fileinto" action. The sections below describe its interaction with currently defined extensions. Tagged arguments in

future extensions to the "fileinto" command should describe their interaction with ":fcc", if any.

3.5.1. Imap4flags Extension

This document extends the definition of the ":flags" $[{\tt RFC5232}]$ tagged argument so that it can be used as an FCC-OPTIONS to the ":fcc" argument.

```
FCC-OPTIONS =/ [":flags" <list-of-flags: string-list>]
```

If the optional ":flags" argument is specified with ":fcc", it instructs the Sieve interpreter to set the IMAP4 flags provided in the subsequent argument when the generated message is filed into the target mailbox.

3.5.2. Mailbox Extension

This document extends the definition of the ":create" $[{\tt RFC5490}]$ tagged argument so that it can be used as an FCC-OPTIONS to the ":fcc" argument.

```
FCC-OPTIONS =/ [":create"]
```

If the optional ":create" argument is specified with ":fcc", it instructs the Sieve interpreter to create the target mailbox, if needed, before attempting to file the generated message into the target mailbox.

3.5.3. Special-Use Extension

This document extends the definition of the ":specialuse" [I-D.ietf-extra-sieve-special-use] tagged argument so that it can be used as an FCC-OPTIONS to the ":fcc" argument.

```
FCC-OPTIONS =/ [":specialuse <special-use-flag: string>"]
```

If the optional ":specialuse" argument is specified with ":fcc", it instructs the Sieve interpreter to check whether a mailbox exists with the specific special-use flag assigned to it. If such a mailbox exists, the generated message is filed into the special-use mailbox. Otherwise, the generated message is filed into the target mailbox.

If both the optional ":specialuse" and ":create" arguments are specified with ":fcc", the Sieve interpreter is instructed to create the target mailbox per Section 4.1 of [I-D.ietf-extra-sieve-special-use], if needed.

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3.5.4. Extended Example

4. Security Considerations

The "fcc" extension does not raise any other security considerations that are not already present in [RFC5228], [RFC5230], [RFC5435], and [RFC6131].

5. IANA Considerations

5.1. Registration of Sieve Extension

To: iana@iana.org

Subject: Registration of new Sieve extension

Capability name: fcc

Description: Adds the ":fcc" parameter to Sieve action commands that generate additional messages.

RFC number: RFC XXXX

Contact address: The Sieve discussion list <sieve@ietf.org>

6. Acknowledgments

The authors would like to thank the following individuals for contributing their ideas and support for writing this specification: Ned Freed, Stan Kalisch.

7. References

7.1. Normative References

```
[I-D.ietf-extra-sieve-special-use]

Bosch, S., "Sieve Email Filtering: Delivering to Special-
Use Mailboxes", <u>draft-ietf-extra-sieve-special-use-01</u>
(work in progress), January 2018.
```

- [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.
- [RFC4234] Crocker, D., Ed. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", RFC 4234, DOI 10.17487/RFC4234, October 2005, https://www.rfc-editor.org/info/rfc4234.
- [RFC5228] Guenther, P., Ed. and T. Showalter, Ed., "Sieve: An Email Filtering Language", RFC 5228, DOI 10.17487/RFC5228, January 2008, https://www.rfc-editor.org/info/rfc5228>.

- [RFC5435] Melnikov, A., Ed., Leiba, B., Ed., Segmuller, W., and T.
 Martin, "Sieve Email Filtering: Extension for
 Notifications", RFC 5435, DOI 10.17487/RFC5435, January
 2009, https://www.rfc-editor.org/info/rfc5435.
- [RFC5490] Melnikov, A., "The Sieve Mail-Filtering Language --Extensions for Checking Mailbox Status and Accessing Mailbox Metadata", <u>RFC 5490</u>, DOI 10.17487/RFC5490, March 2009, https://www.rfc-editor.org/info/rfc5490.

7.2. Informative References

- [RFC5429] Stone, A., Ed., "Sieve Email Filtering: Reject and
 Extended Reject Extensions", RFC 5429,
 DOI 10.17487/RFC5429, March 2009,
 https://www.rfc-editor.org/info/rfc5429.
- [RFC6131] George, R. and B. Leiba, "Sieve Vacation Extension:

 "Seconds" Parameter", <u>RFC 6131</u>, DOI 10.17487/RFC6131, July
 2011, https://www.rfc-editor.org/info/rfc6131.

<u>Appendix A</u>. Change History (To be removed by RFC Editor before publication)

Changes since <u>draft-ietf-extra-sieve-fcc-00</u>:

- o Updated abstract with text from Ned.
- o Added support for :fcc to notify extension.
- o Prohibit use of :fcc with reject and ereject extensions.
- o Added registration of the extension with IANA.
- o Added Acknowledgments.
- o Minor editorial changes.

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