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Sieve Extension for converting messages before delivery
draft-melnikov-sieve-convert-00

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Abstract

This document describes how Lemonade CONVERT can be used to transform messages before final delivery.

Table of Contents

1.	Conventions Used in this Document	3
2.	Introduction	3
3.	:converted tagged argument to the 'fileinto' action	3
4.	Examples	3
5.	Security Considerations	4
6.	IANA Considerations	4
7.	Acknowledgements	4
8.	Normative References	4
	Authors' Addresses	5
	Intellectual Property and Copyright Statements	6

1. 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 [RFC 2119](#) [[RFC2119](#)].

Conventions for notations are as in [[SIEVE](#)] [section 1.1](#), including the use of [[ABNF](#)].

2. Introduction

The [[CONVERT](#)] extension adds an IMAP command for performing client controlled conversions on whole messages or their body parts. This document defines a similar extension to the SIEVE [[SIEVE](#)] mail filtering language, which reuses conversion parameters and framework established by [[CONVERT](#)].

3. :converted tagged argument to the 'fileinto' action

Usage: :converted <quoted-from-mime-type: string>
 <quoted-to-mime-type: string>
 <transcoding-params: string-list>

The :converted tag specifies that all body parts with "quoted-from-mime-type" MIME type should be converted to "quoted-to-mime-type" MIME type using conversion parameters specified in "transcoding-params". Each conversion parameter value has the following syntax: "<transcoding-param>=<transcoding-param-value>", where <transcoding-param> and <transcoding-param-value> are defined in [[CONVERT](#)]. Messages which don't have any body part with the "quoted-from-mime-type" MIME type are not affected by the conversion.

[[anchor3: Should there be a way to specify/restrict which specific body parts need to be converted (e.g. only the second body part)? Should there be a way to specify multiple conversions (on different body parts of the same message)?]]

[[anchor4: Interaction with MIME Loops (e.g. if :converted is applicable to the replace action) should be specified.]]

4. Examples

In the following examples all "image/tiff" body parts of the message are converted to "image/jpeg" with image resolution of 320x480 pixels.


```
require ["fileinto", "convert"];
```

```
fileinto :convert "image/tiff" "image/jpeg" "pix-x" "320"  
          "pix-y" "480" "INBOX";
```

Messages which don't have image/tiff body parts are delivered to INBOX as is.

5. Security Considerations

[[anchor6: TBD]]

6. IANA Considerations

IANA is requested to add the following registrations to the list of Sieve extensions:

Capability name: convert

Description: adds a new tag to the fileinto action that enables Sieve script to perform a conversion on the message being delivered.

RFC number: this RFC

Contact address: The Sieve discussion list
<ietf-mta-filters@imc.org>

7. Acknowledgements

[[anchor9: TBD]].

8. Normative References

- [ABNF] Crocker, D., Ed. and P. Overell, "Augmented BNF for Syntax Specifications: ABNF", [RFC 4234](#), October 2005.
- [CONVERT] Melnikov, A., Ed. and P. Coates, Ed., "IMAP CONVERT extension", [draft-ietf-lemonade-convert-20](#) (work in progress), May 2008.
- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", [RFC 2119](#), [BCP 14](#), March 1997.
- [SIEVE] Guenther, P., Ed. and T. Showalter, Ed., "Sieve: An Email Filtering Language", [RFC 5228](#), January 2008.

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