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# Sieve Notifications via the Extensible Messaging and Presence Protocol (XMPP)

draft-saintandre-sieve-notify-xmpp-00

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Abstract

This document describes a profile of the Sieve extension for instant notifications to be used with the Extensible Messaging and Presence Protocol (XMPP).

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#### 1. Introduction

#### 1.1 Overview

[SIEVE-NOTIFY] defines a [SIEVE] extension for instant notifications to be generated when a new message has arrived in an email inbox. In particular, [SIEVE-NOTIFY] defines the "notify" action but does not specify which technology or technologies to use for such notifications; instead, it leaves the definition of specific notification methods up to "profiles" of [SIEVE-NOTIFY]. This document defines one such profile, for the Extensible Messaging and Presence Protocol (XMPP) as defined in [XMPP].

## **1.2** Terminology

This document inherits terminology from [ $\underline{SIEVE}$ ], [ $\underline{SIEVE-NOTIFY}$ ], and [ $\underline{XMPP}$ ].

The capitalized 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 <a href="https://recommons.org/recommon

#### Definition

In order to send Sieve notifications to an XMPP entity, the format of the notify action shall be as follows:

- o The ":method" tag MUST be specified and its value MUST be a URI that conforms to the xmpp URI scheme (as specified in [XMPP-URI]) and that identifies an XMPP account associated with the email inbox.
- o The ":id" tag MAY be specified.
- o The ":priority" tag MAY be specified.
- o The ":message" tag MAY be specified.

The notify action SHOULD be mapped to XMPP elements and attributes as follows:

- o The notification MUST be an XMPP <message/> stanza.
- o The value of the ":id" tag SHOULD NOT be translated into XMPP syntax.
- o The value of the ":priority" tag MAY be translated into XMPP syntax; if it is so translated, it SHOULD be encapsulated as the value of an [XMPP-SHIM] header named "Priority" and its value SHOULD be consistent with [RFC1327] (namely, "normal", "non-urgent", or "urgent").

- o The value of the ":message" tag MUST be translated into the XML character data of the XMPP <message/> stanza's <body/> child element.
- o The value of the XMPP <message/> stanza's 'type' attribute SHOULD be "normal" (or not included since "normal" is the default value) but MAY be "headline".
- o The value of the XMPP <message/> stanza's 'to' attribute MUST be the XMPP address that is extracted from the ":method" tag in accordance with the processing rules specified in [XMPP-URI].
- o The value of the XMPP <message/> stanza's 'from' attribute MUST be the XMPP address of the notification service.
- o The XMPP <message/> stanza MAY include a <subject/> child element whose value is either the ":subject" tag or, absent that, some configurable text indicating that the message is a Sieve instant notification.

## 3. Example

#### 4. Internationalization Considerations

Although an XMPP address may contain nearly any [UNICODE] character, the value of the ":method" tag MUST be a Uniform Resource Identifier (see [URI] rather than an Internationalized Resource Identifier (see [IRI]). The rules specified in [XMPP-URI] MUST be followed when generating XMPP URIS.

## 5. Security Considerations

Detailed security considerations for the relevant protocols profiled in this document are given in [SIEVE], [SIEVE-NOTIFY], and [XMPP]; this document introduces no new security concerns above and beyond those described in the foregoing specifications.

#### 6. References

#### **6.1** Normative References

[SIEVE] Showalter, T. and P. Guenther, "Sieve: An Email Filtering Language", <u>draft-ietf-sieve-3028bis-05</u> (work in progress), November 2005.

### [SIEVE-NOTIFY]

Melnikov, A., "Sieve -- An extension for providing instant notifications", <u>draft-ietf-sieve-notify-01</u> (work in progress), October 2005.

- [TERMS] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", <u>BCP 14</u>, <u>RFC 2119</u>, March 1997.
- [XMPP] Saint-Andre, P., "Extensible Messaging and Presence Protocol (XMPP): Core", RFC 3920, October 2004.

## [XMPP-URI]

Saint-Andre, P., "Internationalized Resource Identifiers (IRIs) and Uniform Resource Identifiers (URIs) for the Extensible Messaging and Presence Protocol (XMPP)", <a href="https://draft-saintandre-xmpp-iri-03">draft-saintandre-xmpp-iri-03</a> (work in progress), December 2005.

## **6.2** Informative References

- [IRI] Duerst, M. and M. Suignard, "Internationalized Resource Identifiers (IRIs)", <u>RFC 3987</u>, January 2005.
- [RFC1327] Hardcastle-Kille, S., "Mapping between X.400(1988) / ISO 10021 and RFC 822", RFC 1327, May 1992.
- [UNICODE] The Unicode Consortium, "The Unicode Standard, Version 3.2.0", 2000.

The Unicode Standard, Version 3.2.0 is defined by The Unicode Standard, Version 3.0 (Reading, MA, Addison-Wesley, 2000. ISBN 0-201-61633-5), as amended by the Unicode Standard Annex #27: Unicode 3.1

(<a href="http://www.unicode.org/reports/tr27/">http://www.unicode.org/reports/tr27/</a>) and by the Unicode Standard Annex #28: Unicode 3.2 (<a href="http://www.unicode.org/reports/tr28/">http://www.unicode.org/reports/tr28/</a>).

- [URI] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, RFC 3986, January 2005.
- [UTF-8] Yergeau, F., "UTF-8, a transformation format of ISO 10646", STD 63, RFC 3629, November 2003.

## [XMPP-SHIM]

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