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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).

Saint-Andre & Melnikov Expires June 8, 2006

[Page 1]

Internet-Draft

Table of Contents

<u>1</u> . Introduction	<u>3</u>
<u>1.1</u> Overview	<u>3</u>
<u>1.2</u> Terminology	<u>3</u>
<u>2</u> . Definition	<u>3</u>
<u>3</u> . Example	<u>4</u>
<u>4</u> . Internationalization Considerations	<u>4</u>
<u>5</u> . Security Considerations	<u>5</u>
<u>6</u> . References	<u>5</u>
6.1 Normative References	<u>5</u>
6.2 Informative References	
Authors' Addresses	<u>6</u>
Intellectual Property and Copyright Statements	<u>7</u>

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].

<u>1.2</u> Terminology

This document inherits terminology from [<u>SIEVE</u>], [<u>SIEVE-NOTIFY</u>], and [<u>XMPP</u>].

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 <u>RFC 2119</u> [<u>TERMS</u>].

2. 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", "nonurgent", 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

Consider the following Sieve notify action:

```
notify :method "xmpp:romeo@example.com"
:id "some-id"
:priority "high"
:message "<juliet@example.org> Wherefore art thou?";
```

The resulting XMPP <message/> stanza might be as follows:

<u>4</u>. 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.

<u>5</u>. Security Considerations

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

<u>6</u>. References

<u>6.1</u> 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.

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- [XMPP] Saint-Andre, P., "Extensible Messaging and Presence Protocol (XMPP): Core", <u>RFC 3920</u>, October 2004.

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<u>6.2</u> Informative References

- [IRI] Duerst, M. and M. Suignard, "Internationalized Resource Identifiers (IRIs)", <u>RFC 3987</u>, January 2005.
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- [UNICODE] The Unicode Consortium, "The Unicode Standard, Version 3.2.0", 2000.

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- [URI] Berners-Lee, T., Fielding, R., and L. Masinter, "Uniform Resource Identifier (URI): Generic Syntax", STD 66, <u>RFC 3986</u>, January 2005.
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Internet-Draft

SIEVE-XMPP

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