Session Initiation Protocol (SIP) Registration Event Package Extension for Consent-Based Communications
draft-camarillo-sipping-consent-reg-event-00.txt

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Abstract

This document defines an extension to the SIP registration event package for communicating whether or not a registrar has obtained permission to perform a translation that was set up through a registration. This extension is used by registrars implementing the framework for consent-based communications in SIP.
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1. Introduction

The framework for consent-based communications in SIP [5] identifies the need for registrars to inform user agents about the consent-related status of their registrations. That is, user agents need to know whether or not their registrar has obtained permission to perform a particular translation that was set up through a registration.

User agents are kept informed about the status of their registrations using the SIP [2] registration event package [3]. This event package has provision for including extension elements within the <contact> element. This document defines a new element called <consent-status> that may be used to deliver the consent-related status of a registration.

2. Terminology

In this document, the key words "MUST", "MUST NOT", "REQUIRED", "SHALL", "SHALL NOT", "SHOULD", "SHOULD NOT", "RECOMMENDED", "NOT RECOMMENDED", "MAY", and "OPTIONAL" are to be interpreted as described in BCP 14, RFC 2119 [1] and indicate requirement levels for compliant implementations.

3. Description

A new element <consent-status> is defined which contains the consent-related status of a registration. This element can take the following values: 'pending', 'granted', or 'denied'.

This optional element is included within the body of a NOTIFY for the "reg" event package when the framework for consent-communications in SIP is used. The contact URI and the consent-related status are then both available to the watcher.

4. Notifier Processing of SUBSCRIBE Requests

Unchanged from RFC 3680 [3].

5. Notifier Generation of NOTIFY Requests

A notifier for the "reg" event package [3] SHOULD include the <consent-status> element when the framework for consent-based communications in SIP is used. When present, the <consent-status>
element MUST be positioned as an instance of the <any> element within the <contact> element.

6. Subscriber Processing of NOTIFY Requests

Subscribers receive information about the consent-related status of registrations in "reg" event notifications with <contact> elements containing <consent-status> elements.

Subscribers that are unaware of this extension will, as required by [3], ignore the <consent-status> element.

7. Example

The following is an example registration information document including the new <consent-status> element:

```xml
<?xml version="1.0"?>
<reginfo xmlns="urn:ietf:params:xml:ns:reginfo"
         xmlns:cs="urn:ietf:params:xml:ns:consent-status"
         xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
         version="0" state="full">
  <registration aor="sip:user@example.com" id="as9" state="active">
    <contact id="76" state="active" event="registered"
             duration-registered="7322"
             q="0.8">
      <uri>sip:user@192.0.2.1</uri>
      <cs:consent-status>pending</cs:consent-status>
    </contact>
  </registration>
</reginfo>
```

8. XML Schema Definition

A consent-status document is an XML document that MUST be well-formed and SHOULD be valid. Consent-status documents MUST be based on XML 1.0 and MUST be encoded using UTF-8. This specification makes use of XML namespaces for identifying consent-status documents. The namespace URI for elements defined for this purpose is a URN, using the namespace identifier 'ietf'. This URN is:
9. IANA Considerations

There are two IANA considerations associated with this specification.

9.1. URN Sub-Namespace Registration

This section registers a new XML namespace, per the guidelines in [4].

URI: The URI for this namespace is
urn:ietf:params:xml:ns:consent-status

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9.2.  XML Schema Registration

This section registers an XML schema per the procedures in [4].


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The XML for this schema can be found in Section 8.

10.  Security Considerations

Security considerations for the registration event package are
discussed in RFC 3680 [3], and those considerations apply here.

The addition of consent-related information does not impact security
negatively because that information is less sensitive than the
contact URI itself.

11.  References
11.1. Normative References


11.2. Informative References
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