

Geopriv
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An Extensible Markup Language (XML) Representation for Expressing
Geographic Location Information Policy Capabilities
draft-guenther-geopriv-policy-caps-01.txt

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Abstract

This specification defines a set of Extensible Markup Language (XML) elements for expressing geographic location information policy capabilities.

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1. Introduction

Authorization policies are an important component of presence [[RFC2778](#)]. They allow the presentity to grant access to specific pieces of information to watchers. Authorization policies haven been designed to be extensible. For this reason [[I-D.rosenberg-simple-common-policy-caps](#)] defines a generic Extensible Markup Language (XML) based format for representing policy capabilities. That format applies to many policy types, including location and presence. This specification extends that one by defining policy capabilities specific to geographic location information. Those policy capabilities correspond to the conditions, actions and transformations defined in [[I-D.ietf-geopriv-policy](#)].

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[2.](#) Terminology

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 [[RFC2119](#)].

Furthermore, the terminology defined in [[I-D.ietf-geopriv-policy](#)] is used.

3. Structure of Geopriv Policy Capabilities

The structure of common policy capability documents is defined in [[I-D.rosenberg-simple-common-policy-caps](#)]. In that specification, each policy capability document has three components - a list of supported conditions, a list of supported actions, and a list of supported transformations. This specification merely extends that document with the conditions, actions and transformations defined in [[I-D.ietf-geopriv-policy](#)]. It does so by defining the following empty elements:

- o civil-loc-condition
- o geospatial-loc-condition
- o civil-loc-transformation
- o set-retention
- o set-distribution
- o keep-rules
- o longitude-resolution
- o latitude-resolution
- o altitude-resolution
- o provide-timezone

Each of these elements indicates whether the respective attribute in [[I-D.ietf-geopriv-policy](#)] is supported. All of these elements are defined within the namespace:

urn:ietf:params:xml:ns:supported-geopriv-permissions

[4.](#) XML Schema

```
<?xml version="1.0" encoding="UTF-8"?>
<xs:schema
  targetNamespace=
    "urn:ietf:params:xml:ns:supported-geopriv-permissions"
  xmlns:sgp=
    "urn:ietf:params:xml:ns:supported-geopriv-permissions"
  xmlns:sp=
    "urn:ietf:params:xml:ns:supported-permissions"
  xmlns:xs=
    "http://www.w3.org/2001/XMLSchema"
  elementFormDefault="qualified">
```

```

attributeFormDefault="unqualified">

<xs:import namespace="urn:ietf:params:xml:ns:supported-permissions"
            schemaLocation="supported-permissions.xsd"/>

<xs:element name="civil-loc-condition"
            substitutionGroup="sp:condition"/>
<xs:element name="geospatial-loc-condition"
            substitutionGroup="sp:condition"/>

<xs:element name="civil-loc-transformation"
            substitutionGroup="sp:transformation"/>
<xs:element name="set-retention"
            substitutionGroup="sp:transformation"/>
<xs:element name="set-distribution"
            substitutionGroup="sp:transformation"/>
<xs:element name="keep-rules"
            substitutionGroup="sp:transformation"/>
<xs:element name="longitude-resolution"
            substitutionGroup="sp:transformation"/>
<xs:element name="latitude-resolution"
            substitutionGroup="sp:transformation"/>
<xs:element name="altitude-resolution"
            substitutionGroup="sp:transformation"/>
<xs:element name="provide-timezone"
            substitutionGroup="sp:transformation"/>

</xs:schema>

```

5. Example Document

The following document indicates that the identity, validity, and sphere conditions are supported, each of which is defined in [[I-D.ietf-geopriv-common-policy](#)]. It also indicates that the geolocation-specific condition named geospatial-loc-condition is supported. Support of the geolocation-specific transformations named

civil-loc-transformation, longitude-resolution and latitude-resolution is indicated by the three child elements of the <transformations> element:

```
<?xml version="1.0" encoding="UTF-8"?>
<supported-permissions
  xmlns="urn:ietf:params:xml:ns:supported-permissions"
  xmlns:sgp="urn:ietf:params:xml:ns:supported-geopriv-permissions"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation=
    "urn:ietf:params:xml:ns:supported-permissions
      supported-permissions.xsd
      urn:ietf:params:xml:ns:supported-geopriv-permissions
      supported-geopriv-permissions.xsd">

  <conditions>
    <identity/>
    <validity/>
    <sphere/>
    <sgp:geospatial-loc-condition/>
  </conditions>

  <actions>
  </actions>

  <transformations>
    <sgp:civil-loc-transformation/>
    <sgp:longitude-resolution/>
    <sgp:latitude-resolution/>
  </transformations>

</supported-permissions>
```


6. Security Considerations

This specification does not introduce any new security considerations beyond those discussed in [[I-D.rosenberg-simple-common-policy-caps](#)].

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[7.](#) IANA Considerations

This section registers a new XML namespace and a new XML schema with IANA.

[7.1](#) Namespace Registration

URI: urn:ietf:params:xml:ns:supported-geopriv-permissions
Registrant Contact: IETF Geopriv Working Group, Christian Guenther
(christian.guenther@siemens.com), Hannes Tschofenig
(hannes.tschofenig@siemens.com).

XML:

```
BEGIN
<?xml version="1.0"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML Basic 1.0//EN"
  "http://www.w3.org/TR/xhtml-basic/xhtml-basic10.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="content-type"
    content="text/html; charset=iso-8859-1"/>
  <title>Supported Geopriv Permissions</title>
</head>
<body>
  <h1>Namespace for Supported Geopriv Permissions</h1>
  <h2>urn:ietf:params:xml:ns:supported-geopriv-permissions</h2>
  <p>See <a href="[[[URL of published RFC]]]">RFCXXXX
    [NOTE TO IANA/RFC-EDITOR:
      Please replace XXXX with the RFC number of this
      specification.]
    </a>.</p>
</body>
</html>
END
```

[7.2](#) Supported Geopriv Permissions Schema Registration

URI: Please assign.

Registrant Contact: IETF Geopriv Working Group, Christian Guenther
(christian.guenther@siemens.com), Hannes Tschofenig
(hannes.tschofenig@siemens.com).

XML: The XML schema to be registered is contained in section [Section](#)

[4.](#) Its first line is

```
<?xml version="1.0" encoding="UTF-8"?>
```

and its last line is

```
</xs:schema>
```

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8. Acknowledgments

The authors would like to thank Jonathan Rosenberg whose Presence Policy Capabilities document [[I-D.rosenberg-simple-pres-policy-caps](#)] served as template for this document.

[9.](#) References

[9.1](#) Normative References

- [RFC2119] Bradner, S., "Key words for use in RFCs to Indicate Requirement Levels", March 1997.
- [RFC2778] Day, M., Rosenberg, J. and H. Sugano, "A Model for Presence and Instant Messaging", February 2000.
- [RFC3688] Mealling, M., "The IETF XML Registry", January 2004.

[9.2](#) Informative References

- [I-D.ietf-geopriv-common-policy]
Schulzrinne, H., "A Document Format for Expressing Privacy Preferences", [draft-ietf-geopriv-common-policy-02](#) (work in progress), October 2004.
- [I-D.ietf-geopriv-policy]
Schulzrinne, H., "A Document Format for Expressing Privacy Preferences for Location Information",

[draft-ietf-geopriv-policy-03](#) (work in progress), October 2004.

[I-D.ietf-simple-presence-rules]

Rosenberg, J., "Presence Authorization Rules",
[draft-ietf-simple-presence-rules-00](#) (work in progress),
May 2004.

[I-D.rosenberg-simple-common-policy-caps]

Rosenberg, J., "An Extensible Markup Language (XML)
Representation for Expressing Policy Capabilities",
[draft-rosenberg-simple-common-policy-caps-01](#) (work in
progress), July 2004.

[I-D.rosenberg-simple-pres-policy-caps]

Rosenberg, J., "An Extensible Markup Language (XML)
Representation for Expressing Presence Policy
Capabilities", [draft-rosenberg-simple-pres-policy-caps-01](#)
(work in progress), July 2004.

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