XACML v3.0 Privacy Policy Profile
Version 1.0

Committee Specification 01

10 August 2010

Specification URIs:
This Version:

Previous Version:

Latest Version:
http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-en.html
http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-en.doc (Authoritative)

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Related work:
This specification replaces or supercedes:
• Privacy policy profile of XACML v2.0

This specification is related to:
• eXtensible Access Control Markup Language (XACML) Version 3.0, CD 03

Declared XML Namespace(s):
None

Abstract:
This OASIS Standard describes a profile of XACML for expressing privacy policies.

Status:
This document was last revised or approved by the OASIS eXtensible Access Control Markup Language (XACML) TC on the above date. The level of approval is also listed above. Check the “Latest Version” or “Latest Approved Version” location noted above for possible later revisions of this document.

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1 Introduction

1.1 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].

1.2 Glossary

Custodian

The entity to which personally-identifiable information is entrusted.

Owner

The subject of personally-identifiable information.

1.3 Normative References


1.4 Non-Normative References

None
Privacy Guidelines - Organization of Economic Cooperation and Development, 1980 (Non-normative)


[OECD] describes the obligations on the custodian.

1. **Openness.** There should be limits to the collection of personal data and any such data should be obtained by lawful and fair means and, where appropriate, with the knowledge or consent of the data subject.

2. **Data quality principle.** Personal data should be relevant to the purposes for which they are to be used and, to the extent necessary for those purposes, should be accurate, complete and kept up-to-date.

3. **Purpose specification.** The purposes for which personal data are collected should be specified not later than at the time of data collection and the subsequent use limited to the fulfillment of those purposes or such others as are not incompatible with those purposes and as are specified on each occasion of change of purpose.

4. **Use limitation principle.** Personal data should not be disclosed, made available or otherwise used for purposes other than those specified in accordance with Paragraph 9 except:
   a. with the consent of the data subject; or
   b. by the authority of law.

5. **Security safeguards principle.** Personal data should be protected by reasonable security safeguards against such risks as loss or unauthorized access, destruction, use, modification or disclosure of data.

6. **Openness principle.** There should be a general policy of openness about developments, practices and policies with respect to personal data. Means should be readily available of establishing the existence and nature of personal data, and the main purposes of their use, as well as the identity about usual residence of the data controller.

7. **Individual participation principle.** An individual should have the right:
   a. to obtain from a data controller, or otherwise, confirmation of whether or not the data controller has data relating to him;
   b. to have communicated to him, data relating to him
      i. within a reasonable time;
      ii. at a charge, if any, that is not excessive;
      iii. in a reasonable manner; and
      iv. in a form that is readily intelligible to him;
   c. to be given reasons if a request made under subparagraphs (a) and (b) is denied, and to be able to challenge such denial; and
   d. to challenge data relating to him and, if the challenge is successful, to have the data erased; rectified, completed or amended.

8. **Accountability principle.** A data controller should be accountable for complying with measures which give effect to the principles stated above.

This profile provides standard attributes and a standard `<Rule>` element for enforcing the 3rd and 4th principles, related to the purpose for which personally identifiable information is collected and used.
3 Standard attributes

This profile defines two attributes.

"urn:oasis:names:tc:xacml:2.0:resource:purpose"

This attribute, of type "http://www.w3.org/2001/XMLSchema#string", indicates the purpose for which the data resource was collected. The owner of the resource SHOULD be informed and consent to the use of the resource for this purpose. The attribute value MAY be a regular expression. The custodian's privacy policy SHOULD define the semantics of all available values.

"urn:oasis:names:tc:xacml:2.0:action:purpose"

This attribute, of type "http://www.w3.org/2001/XMLSchema#string", indicates the purpose for which access to the data resource is requested. Action purposes MAY be organized hierarchically, in which case the value MUST represent a node in the hierarchy. See [Hier].
4 Standard rules

4.1 Matching purpose

This rule MUST be used with the "urn:oasis:names:tc:xacml:2.0:rule-combining-algorithm:deny-overrides" rule-combining algorithm. It stipulates that access SHALL be denied unless the purpose for which access is requested matches, by regular-expression match, the purpose for which the data resource was collected.

```xml
<?xml version="1.0" encoding="UTF-8"?>
<Rule xmlns="urn:oasis:names:tc:xacml:3.0:core:schema:wd-17"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:oasis:names:tc:xacml:3.0:core:schema:wd-17 xacml-core-v3-schema-wd-17.xsd"
RuleId="urn:oasis:names:tc:xacml:2.0:matching-purpose"
Effect="Permit">
  <Condition>
    <Apply FunctionId="urn:oasis:names:tc:xacml:2.0:function:string-regexp-match">
      <AttributeDesignator
        MustBePresent="false"
        Category="urn:oasis:names:tc:xacml:3.0:attribute-category:resource"
        AttributeId="urn:oasis:names:tc:xacml:2.0:resource:purpose"
        DataType="http://www.w3.org/2001/XMLSchema#string"/>
      <AttributeDesignator
        MustBePresent="false"
        Category="urn:oasis:names:tc:xacml:3.0:attribute-category:action"
        AttributeId="urn:oasis:names:tc:xacml:2.0:action:purpose"
        DataType="http://www.w3.org/2001/XMLSchema#string"/>
    </Apply>
  </Condition>
</Rule>
```
5 Conformance

An implementation may conform to this specification as any of the following.

5.1 As XACML request producer

An implementation conforms to this specification as an XACML request producer if it produces XACML requests with the attributes defined in section 3.

5.2 As XACML policy processor

An implementation conforms to this specification as an XACML policy processor if it makes use of the XACML rule defined in section 4.
A. Acknowledgements

The following individuals have participated in the creation of this specification and are gratefully acknowledged:

Anil Saldhana
Anil Tappetla
Anne Anderson
Anthony Nadalin
Bill Parducci
Craig Forster
David Chadwick
David Staggs
Dilli Arumugam
Duane DeCouteau
Erik Rissanen
Gareth Richards
Hal Lockhart
Jan Herrmann
John Tolbert
Ludwig Seitz
Michiharu Kudo
Naomaru Itoi
Paul Tyson
Prateek Mishra
Rich Levinson
Ronald Jacobson
Seth Proctor
Sridhar Muppidi
Tim Moses
Vernon Murdoch
## B. Revision History

[optional; should not be included in OASIS Standards]

<table>
<thead>
<tr>
<th>Revision</th>
<th>Date</th>
<th>Editor</th>
<th>Changes Made</th>
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<td></td>
<td>Erik Rissanen</td>
<td>Initial update to XACML 3.0.</td>
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<tr>
<td>WD 2</td>
<td>28 Dec 2007</td>
<td>Erik Rissanen</td>
<td>Update to the current OASIS template.</td>
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<tr>
<td>WD 3</td>
<td>4 Nov 2008</td>
<td>Erik Rissanen</td>
<td>Fix typo in example</td>
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<tr>
<td>WD 4</td>
<td>5 Apr 2009</td>
<td>Erik Rissanen</td>
<td>Editorial cleanups. Write conformance section.</td>
</tr>
<tr>
<td>WD 05</td>
<td>17 Dec 2009</td>
<td>Erik Rissanen</td>
<td>Fix formatting issues. Update acknowledgments</td>
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<tr>
<td>WD 06</td>
<td>12 Jan 2010</td>
<td>Erik Rissanen</td>
<td>Updated cross references. Fixed the XML fragment so it’s valid against the XACML schema. Update acknowledgments</td>
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<tr>
<td>WD 07</td>
<td>8 Mar 2010</td>
<td>Erik Rissanen</td>
<td>Updated cross references. Fixed OASIS formatting issues</td>
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