



XACML v3.0 Privacy Policy Profile Version 1.0

Committee Specification 01

10 August 2010

Specification URIs:

This Version:

<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cs-01-en.html>
<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cs-01-en.doc> (Authoritative)
<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cs-01-en.pdf>

Previous Version:

<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cd-03-en.html>
<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cd-03-en.doc> (Authoritative)
<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-cd-03-en.pdf>

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)
<http://docs.oasis-open.org/xacml/3.0/xacml-3.0-privacy-v1-spec-en.pdf>

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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

2 1.1 Terminology

3 The key words “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD
4 NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” in this document are to be interpreted as described
5 in [RFC2119].

6 1.2 Glossary

7 **Custodian**

8 The entity to which personally-identifiable information is entrusted.

9 **Owner**

10 The subject of personally-identifiable information.

11 1.3 Normative References

- 12 **[Hier]** OASIS Committee Specification 01, XACML v3.0 Hierarchical Resource Profile
13 Version 1.0, August 2010, [http://docs.oasis-open.org/xacml/3.0/xacml-3.0-
hierarchical-v1-spec-cs-01-en.doc](http://docs.oasis-open.org/xacml/3.0/xacml-3.0-
14 hierarchical-v1-spec-cs-01-en.doc)
- 15 **[OECD]** *Guidelines on the Protection of Privacy and Transborder Flows of Personal Data*,
16 OECD, 1980.
- 17 **[RFC2119]** S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*,
18 <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.

19 1.4 Non-Normative References

20 **None**

2 Privacy Guidelines - Organization of Economic Cooperation and Development, 1980 (Non-normative)

The following extract from OASIS Committee Specification 01, XACML v3.0 Hierarchical Resource Profile Version 1.0, August 2010, <http://docs.oasis-open.org/xacml/3.0/xacml-3.0-hierarchical-v1-spec-cs-01-en.doc>

[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.

65 3 Standard attributes

66 This profile defines two attributes.

67 “urn:oasis:names:tc:xacml:2.0:resource:purpose”

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

72 “urn:oasis:names:tc:xacml:2.0:action:purpose”

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

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4 Standard rules

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4.1 Matching purpose

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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.

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```
<?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-regex-
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>
```

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106 **5 Conformance**

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

108 **5.1 As XACML request producer**

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

111 **5.2 As XACML policy processor**

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

114

115 **A. Acknowledgements**

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

118
119 Anil Saldhana
120 Anil Tappetla
121 Anne Anderson
122 Anthony Nadalin
123 Bill Parducci
124 Craig Forster
125 David Chadwick
126 David Staggs
127 Dilli Arumugam
128 Duane DeCouteau
129 Erik Rissanen
130 Gareth Richards
131 Hal Lockhart
132 Jan Herrmann
133 John Tolbert
134 Ludwig Seitz
135 Michiharu Kudo
136 Naomaru Itoi
137 Paul Tyson
138 Prateek Mishra
139 Rich Levinson
140 Ronald Jacobson
141 Seth Proctor
142 Sridhar Muppidi
143 Tim Moses
144 Vernon Murdoch
145
146

147

B. Revision History

148 [optional; should not be included in OASIS Standards]

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Revision	Date	Editor	Changes Made
WD 1		Erik Rissanen	Initial update to XACML 3.0.
WD 2	28 Dec 2007	Erik Rissanen	Update to the current OASIS template.
WD 3	4 Nov 2008	Erik Rissanen	Fix typo in example
WD 4	5 Apr 2009	Erik Rissanen	Editorial cleanups. Write conformance section.
WD 05	17 Dec 2009	Erik Rissanen	Fix formatting issues Update acknowledgments
WD 06	12 Jan 2010	Erik Rissanen	Updated cross references Fixed the XML fragment so it's valid against the XACML schema. Update acknowledgments
WD 07	8 Mar 2010	Erik Rissanen	Updated cross references Fixed OASIS formatting issues

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