



XACML v3.0 Privacy Policy Profile Version 1.0

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Related work:

This specification replaces or supersedes:

- *Privacy policy profile of XACML v2.0*. Edited by Tim Moses. 1 February 2005. OASIS Standard. http://docs.oasis-open.org/xacml/2.0/access_control-xacml-2.0-privacy_profile-spec-os.pdf.

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- *eXtensible Access Control Markup Language (XACML) Version 3.0*. Edited by Erik Rissanen. 22 January 2013. OASIS Standard. <http://docs.oasis-open.org/xacml/3.0/xacml-3.0-core-spec-os-en.html>.

Abstract:

This specification 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" location noted above for possible later revisions of this document. Any other

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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

- | | |
|------------------|--|
| [Hier] | <i>XACML v3.0 Hierarchical Resource Profile Version 1.0</i> . 10 August 2010. OASIS Committee Specification 01. http://docs.oasis-open.org/xacml/3.0/xacml-3.0-hierarchical-v1-spec-cs-01-en.doc |
| [OECD] | “Guidelines on the Protection of Privacy and Transborder Flows of Personal Data”, OECD, 1980.
http://www.oecd.org/internet/ieconomy/oecdguidelinesontheprivacyandtransborderflowsofpersonaldata.htm |
| [RFC2119] | Bradner, S., “Key words for use in RFCs to Indicate Requirement Levels”, BCP 14, RFC 2119, March 1997. http://www.ietf.org/rfc/rfc2119.txt . |

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

The following extract from [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 Example rules (Non-normative)

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.

```
<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="Deny">
  <Condition>
    <Apply FunctionId="urn:oasis:names:tc:xacml:1.0:function:not">
      <Apply FunctionId="urn:oasis:names:tc:xacml:1.0:function:any-of-any">
        <Function
          FunctionId="urn:oasis:names:tc:xacml:1.0: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>
    </Apply>
  </Condition>
</Rule>
```

5 Conformance

An implementation conforms to this specification by using any of the XACML attributes as defined in section 3.

Appendix A. Acknowledgments

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Appendix B. Revision History

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
WD 08	22 Jan 2014	Erik Rissanen	Updated to current OASIS document template. Fixed broken rule in section 4.1.
WD 09	11 Mar 2014	Erik Rissanen	Fixed references.
WD 10	9 Oct 2014	Erik Rissanen	Fixed typo in hyperlink in reference to hierarchical profile. Added hyperlink to the OECD guidelines reference. Made the sample rule non-normative and updated the section to use the 3.0 combining algorithm. Updated the conformance section accordingly. Removed empty section of non-normative references.