

eXtensible Access Control Markup Language (XACML) Version 3.0 Errata 01

Approved Errata

12 July 2017

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Additional artifacts:

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- eXtensible Access Control Markup Language (XACML) Version 3.0 Plus Errata 01. Edited by Erik Rissanen. 12 July 2017. OASIS Standard incorporating Approved Errata. http://docs.oasis-open.org/xacml/3.0/errata01/os/xacml-3.0-core-spec-errata01-os-complete.html.
- eXtensible Access Control Markup Language (XACML) Version 3.0 Plus Errata 01 (redlined).
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 http://docs.oasis-open.org/xacml/3.0/errata01/os/xacml-3.0-core-spec-errata01-os-redlined.html.
- XML schema unmodified from OASIS Standard: http://docs.oasisopen.org/xacml/3.0/errata01/os/schema/xacml-core-v3-schema-wd-17.xsd.

Related work:

This specification provides Errata for:

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 22 January 2013. OASIS Standard. http://docs.oasis-open.org/xacml/3.0/xacml-3.0-corespec-os-en.html.

Declared XML namespace:

urn:oasis:names:tc:xacml:3.0:core:schema:wd-17

Abstract:

This document lists Errata for the OASIS Standard eXtensible Access Control Markup Language (XACML) Version 3.0.

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 numbered Versions and other technical work produced by the Technical Committee (TC) are listed at https://www.oasis-open.org/committees/tc_home.php?wg_abbrev=xacml#technical.

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1 Introduction

[All text is normative unless otherwise labeled]

1.1 Normative References

[XACML3] OASIS Standard, "eXtensible Access Control Markup Language (XACML)

Version 3.0", January 2013. http://docs.oasis-open.org/xacml/3.0/xacml-3.0-core-

spec-en.doc

1.2 Non-Normative References

[INFOSET] XML Information Set (Second Edition), W3C Recommendation 4 February 2004,

available at https://www.w3.org/TR/xml-infoset/

[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 Approved Errata

The following are the approved errata to the OASIS XACML v3.0 standard.

2.1 Definition of Target

Change to section 1.1.1 Preferred terms, line 91 - 93, page 11

Remove:

Target

The set of *decision requests*, identified by definitions for *resource*, *subject* and *action* that a *rule*, *policy*, or *policy set* is intended to evaluate

Add:

Target

An element of an XACML *rule*, *policy*, or *policy set* which matches specified values of *resource*, *subject*, *environment*, *action*, or other custom attributes against those provided in the request context as a part of the process of determining whether the *rule*, *policy*, or *policy set* is applicable to the current decision.

2.2 Reference to INFOSET

Change to section 1.4 Normative References, page 12

Add:

[INFOSET] XML Information Set (Second Edition), W3C Recommendation 4 February 2004, available at https://www.w3.org/TR/xml-infoset/

2.3 Namespace Context for XPath Expressions

Change to section 5.30, line 2494, page 59

Add:

The namespace context for the value of the Path attribute is given by the [in-scope namespaces] **[INFOSET]** of the <AttributeSelector> element.

Change to section A.2 Data-types, lines 4050 - 4052, page 106

Remove:

When the value is encoded in an <AttributeValue> element, the namespace context is given by the <AttributeValue> element and an XML attribute called XPathCategory gives the category of the <Content> element where the expression applies.

Add:

When the value is encoded in an <AttributeValue> element, the namespace context is given by the [in-scope namespaces] (see [INFOSET]) of the <AttributeValue> element, and an XML attribute called XPathCategory gives the category of the <Content> element where the expression applies.

2.4 Number of Minor Status Codes

Change to section 5.55, lines 3025 - 3026, page 71

Remove:

The <StatusCode> element contains a major status code value and an optional sequence of minor status codes.

Add:

The <StatusCode> element contains a major status code value and an optional recursive series of minor status codes.

2.5 Keyword Usage

Change to section A.3.5 Logical functions, line 4259, page 111

Remove:

Note: When evaluating and, or, or n-of, it MAY NOT be necessary to attempt a full evaluation of each

Add:

Note: When evaluating and, or, or n-of, it may not be necessary to attempt a full evaluation of each

2.6 Policy Identifier List

Change to section 5.48, lines 2922 - 2925

Remove:

If the ReturnPolicyIdList attribute in the <Request> is true (see section 5.42), a PDP that implements this optional feature MUST return a list of all policies which were found to be fully applicable. That is, all policies where both the <Target> matched and the <Condition> evaluated to true, whether or not the <Effect> was the same or different from the <Decision>.

Add:

If the ReturnPolicyIdList attribute in the <Request> is true (see section 5.42), a PDP that implements this optional feature MUST return a list which includes the identifiers of all policies which were found to be fully applicable, whether or not the <Effect> (after Rule combining) was the same or different from the <Decision>. The list MAY include the identifiers of other policies which are currently in force, as long as no policies required for the decision are omitted. A PDP MAY satisfy this requirement by including all policies currently in force, or by including all policies which were evaluated in making the decision, or by including all policies which did not evaluate to "NotApplicable", or by any other algorithm which does not omit any policies which contributed to the decision. However, a decision which returns "NotApplicable" MUST return an empty list.

2.7 Attribute Selector Result

Change to section 5.30, lines 2499 – 2500, page 59

Remove:

This attribute governs whether the element returns "Indeterminate" or an empty bag in the event the XPath expression selects no node.

Add:

This attribute governs whether the element returns "Indeterminate" or an empty bag in the event that the attributes category specified by the Category attribute does not exist in the request context, or the attributes category does exist but it does not have a <Content> child element, or the <Content> element does exist but the XPath expression selects no node.

Change to section 7.3.7, lines 3326 - 3327, page 79

Remove:

1. Construct an XML data structure suitable for xpath processing from the <Content> element in the attributes category given by the Category attribute.

Add:

1. If the attributes category given by the Category attribute is not found or does not have a <Content> child element, then the return value is either "Indeterminate" or an empty bag as determined by the MustBePresent attribute; otherwise, construct an XML data structure suitable for xpath processing from the <Content> element in the attributes category given by the Category attribute.

Change to section 7.3.7, line 3346, page 79

Add:

If the evaluation returns an empty sequence of nodes, then the return value is either "Indeterminate" or an empty bag as determined by the MustBePresent attribute.

2.8 Spurious start-tag

Change to section 5.44, line 2808, page 66

Remove:

</xs:complexType><xs:complexType name="SubjectType">

Add:

</xs:complexType>

2.9 Relocate Attributes Text

Change to section 5.42 Element < Request>, lines 2744 - 2747, page 65

Remove:

The <Request> element contains <Attributes> elements. There may be multiple <Attributes> elements with the same Category attribute if the PDP implements the multiple decision profile, see [Multi]. Under other conditions, it is a syntax error if there are multiple <Attributes> elements with the same Category (see Section 7.19.2 for error codes).

Change to section 5.42 Element <Request>, following line 2776, page 65

Add:

The <Request> element contains <Attributes> elements. There may be multiple <Attributes> elements with the same Category attribute if the PDP implements the multiple decision profile, see

[Multi]. Under other conditions, it is a syntax error if there are multiple <Attributes> elements with the same Category (see Section 7.19.2 for error codes).

2.10 Correct Misspellings

Correct the following misspellings. Line numbers refer to approved core specification.

- Section 5.14, line 2094: typos: "byt the PDP. The corresponsing obligations"
- Section 5.16, line 2122: typos: "occurrence of the <CombinberParameters>"
- Section 5.18, line 2162: typo: "<RuleCombinberParameters>"
- Section 5.19, line 2188: typo: "<PolicyCombinberParameters>
- Section 5.20, line 2217: typo: "<PolicySetCombinberParameters>
- Section 5.21, line 2272: typos: ..."byt the PDP. The corresponseding obligations"...
- Section 5.36, line 2590: typo: "obligation expressions"
- Section 5.48, line 2983: typo: "policies"
- Section 10.2.9, line 3969: typo: "policies"

2.11 Remove Obsolete Identifier

In section 8.1, line 3674 remove: "SubjectCategory".

2.12 Add two Identifiers to Table of Identifiers

Add the following identifiers to the table in section 10.2.6.

- urn:oasis:names:tc:xacml:2.0:resource:target-namespace
- urn:oasis:names:tc:xacml:1.0:action:action-namespace

3 Conformance

This document does not add any additional conformance requirements.

Appendix A. Acknowledgments

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

Participants:

Erik Rissanen, Axiomatics
Bill Parducci, Individual Member
Martin Smith, Individual Member
Rich Levinson, Oracle
Hal Lockhart, Oracle
Richard C. Hill, The Boeing Company
Mohammad Jafari, Veterans Health Administration
Steven Legg, ViewDS Identity Solutions
Cyril Dangerville (not a member of XACML TC)

Appendix B. Revision History

Revision	Date	Editor	Changes Made
WD1	10/31/2016	Richard Hill	Initial committee draft
WD2	12/18/2016	Richard Hill	Updates to WD1 based on TC comments, which includes updates to references, Definition of Target, Namespace Context for XPath Expressions, and added Relocate Attributes Text section.
WD3	1/3/2017	Richard Hill	Added Reference to INFOSET section, moved [INFOSET] and [RFC2119] references to the non-normative references section, removed the terminology section.
WD4	1/19/2017	Richard Hill	Updated section 2.2 to bold [INFOSET]. Added Mohammad Jafari to participants list
WD5	4/13/2017	Hal Lockhart	Added corrections proposed by Cyril Dangerville Misspellings in section 5 and section 10, removal of SubjectCategory from section 8.1, further rewording of section 5.48 and addition of two identifiers to sections B.5 and B.6.
Approved Errata	7/12/2017	OASIS TC Administration	Added corrections proposed by Cyril Dangerville Misspelling in section 10. Details are in http://docs.oasis-open.org/xacml/3.0/errata01/csprd02/xacml-3.0-core-spec-errata01-csprd02-comment-resolution-log.txt