



Cross-Enterprise Security and Privacy Authorization (XSPA) Profile of Security Assertion Markup Language (SAML) for Healthcare Version 1.0

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urn:oasis:names:tc:xspa:1.0
urn:oasis:names:tc:saml:2.0

Abstract:

This profile describes a framework in which SAML is encompassed by cross-enterprise security and privacy authorization (XSPA) to satisfy requirements pertaining to information-centric security within the healthcare community.

Status:

This document was last revised or approved by the OASIS Security Services (SAML) 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

This document describes a framework that provides access control interoperability useful in the healthcare environment. Interoperability is achieved using SAML assertions that carry common semantics and vocabularies in exchanges specified below.

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].

The keywords “MUST”, “MUST NOT”, “REQUIRED”, “SHALL”, “SHALL NOT”, “SHOULD”, “SHOULD NOT”, “RECOMMENDED”, “MAY”, and “OPTIONAL” are to be interpreted as described in [RFC2119].

The following definitions establish additional terminology and usage in this profile:

Access Control Service (ACS) – The Access Control Service is the enterprise security service that supports and implements user-side and service-side access control capabilities. The service would be utilized by the Service and/or Service User.

Object – An *object* is an entity that contains or receives information. The *objects* can represent information containers (e.g., files or directories in an operating system, and/or columns, rows, tables, and views within a database management system) or *objects* can represent exhaustible system resources, such as printers, disk space, and **central processing unit** (CPU) cycles. ANSI RBAC (American National Standards Institute Role Based Access Control)

Operation - An *operation* is an executable image of a program, which upon invocation executes some function for the user. Within a file system, *operations* might include read, write, and execute. Within a database management system, *operations* might include insert, delete, append, and update. An *operation* is also known as an action or privilege. ANSI RBAC

Permission - An approval to perform an operation on one or more RBAC protected objects. ANSI RBAC

Structural Role - A job function within the context of an organization whose permissions are defined by operations on workflow objects. ASTM (**American Society for Testing and Materials**) E2595-2007

Service Provider (SP) - The service provider represents the system providing a protected resource and relies on the provided security service.

Entity - An entity may also be known as a principal and/or subject, which represents an application, a machine, or any other type of entity that may act as a requester in a transaction.

Service User - The service user represents any individual entity [such as on an Electronic Health Record (EHR)/**personal health record (PHR)** system] that needs to make a service request of a Service Provider.

1.2 Normative References

[RFC2119] S. Bradner, *Key words for use in RFCs to Indicate Requirement Levels*, <http://www.ietf.org/rfc/rfc2119.txt>, IETF RFC 2119, March 1997.

[SAMLPROF] OASIS Standard, “Profiles for the OASIS Security Assertion Markup Language, v2.0,” March 2005. <http://docs.oasis-open.org/security/saml/v2.0/saml-profiles-2.0-os.pdf>

[ASTM E1986-98 (2005)] Standard Guide for Information Access Privileges to Health Information.

[ASTM E2595 (2007)] Standard Guide for Privilege Management Infrastructure

- 44 **[SAML]** OASIS Standard, "Security Assertion Markup Language (SAML) v2.0"
45 <http://docs.oasis-open.org/security/saml/v2.0/saml-core-2.0-os.pdf>
- 46 **[HL7-PERM]** HL7 Security Technical Committee, HL7 Version 3 Standard: Role-based Access
47 Control Healthcare Permission Catalog, (Available through
48 <http://www.hl7.org/library/standards.cfm>), Release 1, Designation: ANSI/HL7 V3
49 RBAC, R1-2008, Approval Date 2/20/2008.
- 50 **[HL7-CONSENT]** HL7 Consent Related Vocabulary Confidentiality Codes Recommendation,
51 <http://lists.oasis-open.org/archives/xacml-demo-tech/200712/doc00003.doc>, from
52 project submission: [http://lists.oasis-open.org/archives/xacml-demo-](http://lists.oasis-open.org/archives/xacml-demo-tech/200712/msg00015.html)
53 [tech/200712/msg00015.html](http://lists.oasis-open.org/archives/xacml-demo-tech/200712/msg00015.html)
- 54 **[SNOMED CT]** SNOMED CT User Guide (July 2008) [http://www.ihtsdo.org/snomed-ct/snomed-](http://www.ihtsdo.org/snomed-ct/snomed-ct-publications/)
55 [ct-publications/](http://www.ihtsdo.org/snomed-ct/snomed-ct-publications/)

56 **1.3 Non-Normative References**

- 57 **[XSPA-SAML-INTRO]**
58 OASIS Committee Working Draft, "Introductory overview of XSPA Profile of
59 SAML for Healthcare," [http://www.oasis-](http://www.oasis-open.org/committees/document.php?document_id=30407)
60 [open.org/committees/document.php?document_id=30407](http://www.oasis-open.org/committees/document.php?document_id=30407)
- 61 **[XSPA-SAML-EXAMPLES]**
62 OASIS Committee Working Draft, "Implementation examples of XSPA Profile of
63 SAML for Healthcare," [http://www.oasis-](http://www.oasis-open.org/committees/document.php?document_id=30408)
64 [open.org/committees/document.php?document_id=30408](http://www.oasis-open.org/committees/document.php?document_id=30408)

2 XSPA profile of SAML Implementation

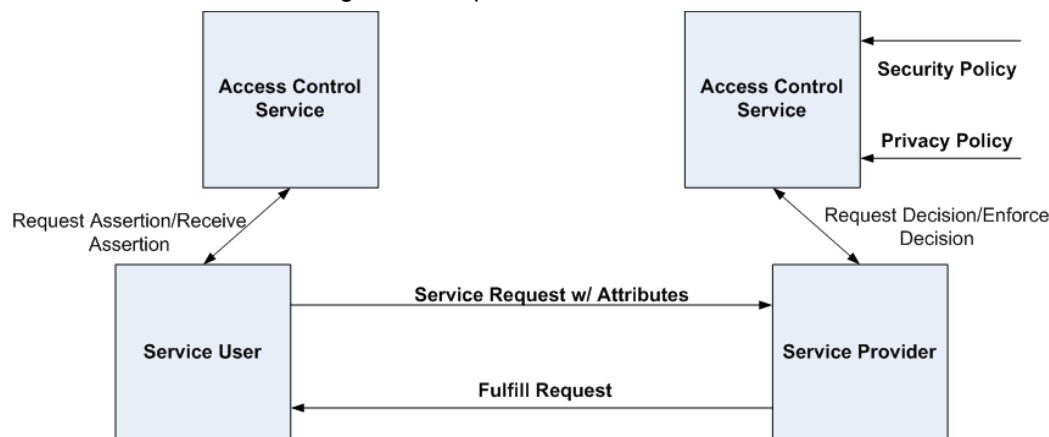
65

66 The XSPA profile of SAML describes the minimum vocabulary necessary to provide access control over
67 resources and functionality within and between healthcare information technology (IT) systems.
68 Additional introductory information and examples can be found in Cross-Enterprise Security and Privacy
69 Authorization (XSPA) a Profile of Security Assertion Markup Language (SAML) Implementation Examples
70 [XSPA-SAML-EXAMPLES].

2.1 Interactions between Parties

71

72 Figure 1 displays an overview of interactions between parties in the exchange of healthcare information.
73 Elements described in the figure are explained in the subsections below.



74

75 *Figure 1: Interaction between Parties*

2.1.1 Access Control Service (Service User)

76

77 The XSPA profile of SAML supports sending all requests through an Access Control Service (ACS). The
78 Access Control Service receives the Service User request and responds with a SAML assertion
79 containing user authorizations and attributes.

80 To perform its function, the ACS may acquire additional attribute information related to user location, role,
81 purpose of use, and requested resource requirements and actions. The requesting ACS is responsible
82 for the enforcement of access control decisions.

2.1.2 Access Control Service (Service Provider)

83

84 The Service Provider ACS is responsible for the parsing of assertions, evaluating the assertions against
85 the security and privacy policy, and making and enforcing a decision on behalf of the Service Provider.

2.1.3 Attributes

86

87 Attributes are information related to user location, role, purpose of use, and requested resource
88 requirements and actions necessary to make an access control decision.

2.1.4 Security Policy

89

90 The security policy includes the rules regarding authorizations required to access a protected resource
91 and additional security conditions (location, time of day, cardinality, separation of duty purpose, etc.) that
92 constrain enforcement.

93 **2.1.5 Privacy Policy**

94 The privacy policy includes the set of consent directives and other privacy conditions (object masking,
95 object filtering, user, role, purpose, etc.) that constrain enforcement.

96 **2.2 Protocols**

97 This profile utilizes SAML 2.0 Assertion Query and Request protocol. It assumes in all cases the service
98 user has previously authenticated. Each request shall have a saml:Assertion element containing child
99 elements saml:Issuer, saml:Subject, saml:AuthnStatement, and saml:AttributeStatement.

100 **2.3 Transmission Integrity**

101 The XSPA profile of SAML recommends the use of reliable transmission protocols. Where transmission
102 integrity is required, this profile makes no specific recommendations regarding mechanism or assurance
103 level.

104 **2.4 Transmission Confidentiality**

105 The XSPA profile of SAML recommends the use of secure transmission protocols. Where transmission
106 confidentiality is required, this profile makes no specific recommendations regarding mechanisms.

107 **2.5 Error States**

108 This profile adheres to error states describe in SAML 2.0.

109 **2.6 Security Considerations**

110 The following security considerations are established for the XSPA profile of SAML:

- 111 • Entities must be members of defined information domains under the authorization control of a
112 defined set of policies,
- 113 • Entities must have been identified and provisioned (credentials issued, privileges granted, etc.) in
114 accordance with policy,
- 115 • Privacy policies must have been identified and provisioned (consents, user preferences, etc.) in
116 accordance with policy,
- 117 • Pre-existing security and privacy policies must have been provisioned to Access Control
118 Services,
- 119 • The capabilities and location of requested information/document repository services must be
120 known,
- 121 • Secure channels must be established as required by policy,
- 122 • Audit services must be operational and initialized, and
- 123 • Entities have pre-asserted membership in an information domain by successful and unique
124 authentication.

125 **2.7 Confirmation Identifiers**

126 The manner used by the relying party to confirm that the requester message came from a system entity
127 that is associated with the subject of the assertion will depend upon the context and sensitivity of the
128 data. For confirmations requiring a specific level of assurance, this profile specifies the use of National
129 Institute of Standards and Technology (NIST) Special Publication 800-63 Electronic Authentication
130 Guideline. In addition, this profile specifies the Liberty Identity Access Framework (LIAF) criteria for
131 evaluating and approving credential service providers.

132 2.8 Metadata Definitions

133 This profile will utilize the SAML <Attribute> element for all assertions.

134 2.9 Naming Syntax, Restrictions and Acceptable Values

135 This profile conforms to SAML 2.0 specification.

136 2.10 Namespace Requirements

137 The NameFormat Extensible Markup Language (XML) attribute in <Attribute> elements MUST be
138 urn:oasis:names:tc:SAML:2.0:attrname-format:uri.

139 2.11 Attribute Rules of Equality

140 All asserted attributes will be typed as strings. Two <Attribute> elements refer to the same SAML
141 attribute if and only if their Name XML attribute values are equal in a binary comparison.

142 2.12 Attribute Naming Syntax, Restrictions and Acceptable Values

143 The Name XML attribute MUST adhere to the rules specified for that format, as defined by **[SAMLCore]**.
144 For purposes of human readability, there may also be a requirement for some applications to carry an
145 optional string name together with the Object Identifier (OID) [Uniform Resource Name](#) (URN). The
146 optional XML attribute FriendlyName (defined in **[SAMLCore]**) MAY be used for this purpose, but is not
147 translatable into an XACML attribute equivalent.

148 This profile will utilize the namespace of urn:oasis:names:tc:xspa:1.0

149 Example of use:

```
150 <saml:Attribute NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:uri"  
151 Name="urn:oasis:names:tc:xspa:1.0:organization">  
152   <saml:AttributeValue xsi:type="http://www.w3.org/2001/XMLSchema#string">  
153     County Hospital  
154   </saml:AttributeValue>  
155 </saml:Attribute>
```

156 Name

157 This is the name of the user as required by Health Insurance Portability and Accountability Act (HIPAA)
158 Privacy Disclosure Accounting. The name will be typed as a string and in plain text with an identifying tag
159 of <urn:oasis:names:tc:xspa:1.0:subject:subject-id>.

160 National Provider Identifier (NPI) – (optional)

161 This is a US Government issued unique provider identifier required for all Health Insurance Portability and
162 Accountability Act (HIPAA) Privacy Disclosure Accounting transactions. NPI will be typed as a string in
163 plain text with an identifying element of <urn:oasis:names:tc:xspa:1.0:subject:npi>.

164 Organization

165 This is the organization that the user belongs to as required by HIPAA Privacy Disclosure Accounting.
166 Organization will be typed as a string in plain text with an identifying element of
167 <urn:oasis:names:tc:xspa:1.0:subject:organization>.

168 Structural Role

169 This is the value of the principal's structural role Structural roles are described in ASTM E2595-07,
170 Standard Guide for Privilege Management Infrastructure.

171 Structural roles provide authorizations on objects at a global level without regard to internal details.
172 Examples include authorization to participate in a session, authorization to connect to a database,
173 authorization to participate in an order workflow, or connection to a protected uniform resource locator
174 (URL). The structural role is the role name referenced by the patient's consent directive.

175 This profile specifies ASTM 1986-98 (2005) Standard Guide for Information Access Privileges to Health
176 Information persons for whom role based access control is warranted as the defined default structural
177 roles to be used in this profile. ASTM E1986

178 Each request will contain the codeSystem attribute of this element must be present, and must specify the
179 OID of the ISO code system 1.2.840.1986.7.

180 **Permission (optional)**

181 There is no explicit assertion of permission required by this profile. The permission in use is determined
182 by the action on the target. See "Action" below. The permission is the ANSI INCITS (International
183 Committee for Information Technology Standards) RBAC compliant action-object pair representing the
184 authorization required for access by the protected resource.

185 **ACTIONS**

186 The HL7 (Health Level Seven) RBAC Permission catalog is an ANSI INCITS 359-2004 RBAC compliant
187 vocabulary that provides a minimal permission subset for interoperability. This profile specifies the use of
188 the following HL7 RBAC Permission Catalog Actions:

- 189 • Append
- 190 • Create
- 191 • Delete
- 192 • Read
- 193 • Update

194 Each request will contain the codeSystem attribute of this element must be present, and must specify the
195 OID of the HL7 code system, 2.16.840.1.113883.13.27.

196 **Execute (optional)**

197 Execute refers to complex functions and stored procedures that provide for extended actions within the
198 healthcare environment. Examples include "print", "suspend", and "sign". This profile specifies the use of
199 SNOMED CT (Systematized Nomenclature of Medicine--Clinical Terms) action vocabularies to define
200 execute operations.

201 **OBJECTS**

202 This profile specifies the use of SNOMED CT as the object vocabulary in an action-object permission pair.
203 SNOMED CT provides the core general terminology for the electronic health record (EHR). As used in
204 this profile, SNOMED CT is used to designate clinically relevant protected information objects.

205 SNOMED CT is one of a suite of designated standards for use in U.S. Federal Government systems for
206 the electronic exchange of clinical health information and is also a required standard in interoperability
207 specifications of the [U.S. Healthcare Information Technology Standards Panel](#). SNOMED CT is also
208 being implemented internationally as a standard within other [International Health Terminology Standards
209 Development Organization \(IHTSDO\) Member countries](#).

210 This profile also permits the use of the HL7 RBAC Permission Catalog objects. The HL7 RBAC
211 Permission Catalog objects are functionally equivalent to terms in SNOMED CT and may be used in lieu
212 of the complete SNOMED CT set.

213 When SNOMED CT [SNOMED CT] is utilized each request will contain the codeSystem attribute of this
214 element must be present, and must specify the OID of the SNOMED CT code system,
215 2.16.840.1.113883.6.96.

216 When HL7 Permission Catalog [HL7-PERM] is utilized each request will contain the codeSystem attribute
217 of this element must be present, and must specify the OID of the HL7 code system,
218 2.16.840.1.113883.13.27.

219 **Purpose of Use (POU)**

220 Purpose of use provides context to requests for information resources. Each purpose of use will be
221 unique to a specific assertion, and will establish the context for other security and privacy attributes. For
222 a given claim, all assertions must be bound to the same purpose of use. Purpose of use allows the
223 service to consult its policies to determine if the user's authorizations meet or exceed those needed for

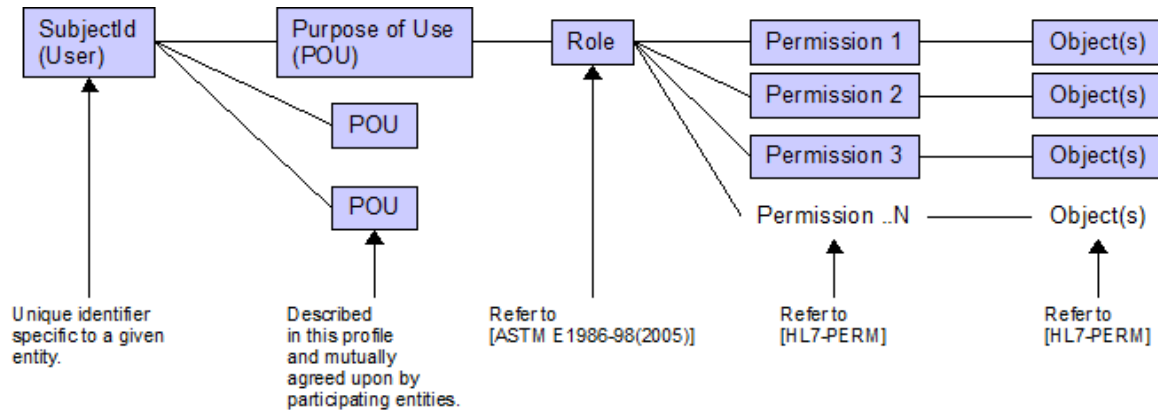
224 access control. Purpose of Use will be typed as string with an identifying element of
225 <urn:oasis:names:tc:xspa:1.0:subject:purposeofuse>

226 The following list of healthcare related purposes of use is specified by this profile:

- 227 • Healthcare Treatment, Payment and Operations (TPO),
- 228 • Emergency Treatment,
- 229 • System Administration,
- 230 • Research, and
- 231 • Marketing.

232 Figure 2 illustrates the general relationship between subject (user) and granted permissions to specific
233 objects as a relationship to their POU. Roles in this relationship are placeholders for permissions.

234 Permission defines the object-action relationship.



235

236 *Figure 2: Determining Subject Permissions*

237 Resource

238 The resource(s) for which access is requested must be identical to the object(s) for which the
239 authorization assertions of this profile apply. The resource vocabulary then must be either SNOMED CT
240 or objects from the HL7 RBAC Permission Catalog minimal SNOMED CT subset.

241 When SNOMED CT [SNOMED CT] is utilized each request will contain the codeSystem attribute of this
242 element must be present, and must specify the OID of the SNOMED CT code system,
243 2.16.840.1.113883.6.96.

244 When HL7 Permission Catalog [HL7-PERM] is utilized each request will contain the codeSystem attribute
245 of this element must be present, and must specify the OID of the HL7 code system,
246 2.16.840.1.113883.13.27.

247 Evidence

248 The <urn:oasis:names:tc:xspa:1.0:evidence> element contains an assertion or assertion reference that
249 the SAML authority relied on in issuing the authorization decision.

250 The evidence is an assertion and contains complex content. At a minimum the evidence should contain
251 three items which are needed for computational or instruction at the responding ACS:

- 252 1. The description of the destination of the disclosure,
- 253 2. Expiration date of the authorization, and
- 254 3. Reference to the paper authorization document.

255 3 Conformance

256 3.1 Introduction

257 The XSPA profile of SAML addresses the following aspects of conformance:

258 This profile describes a minimum vocabulary set that must be supported in order to claim conformance.

259 An Implementation must conform at minimum to the SAML v2.0 specification.

260 3.2 Conformance Tables

261 The following section identifies portions of the profile that **MUST** be adhered to in order to claim
262 conformance.

263 Note: “M” is mandatory “O” is optional.

264 Attributes

265 The implementation **MUST** use the attributes associated with the following identifiers in the way this
266 profile has defined.

267 Table 1: Conformance Attributes

Identifiers	
urn:oasis:names:tc:xacml:2.0:subject:subject-id	M
urn:oasis:names:tc:xacml:2.0:subject:locality	M
urn:oasis:names:tc:xspa:1.0:subject:hl7:permission	O
urn:oid:1.2.840.1986.7 ASTM E1986-98 (2005) Structured Role	M
Urn:oasis:names:tc:xspa:1.0:subject:functional_role	O
urn:oasis:names:tc:xspa:1,0:subject:purposeofuse	M
urn:oasis:names:tc:xacml:2.0:resource:resource-id	M
urn:oid: 2.16.840.1.113883.13.27 HL7 Permission Catalog Permission	O
urn:oid: 2.16.840.1.113883.13.27 HL7 Permission Catalog Resource Action	O
urn:oid: 2.16.840.1.113883.13.27 HL7 Permission Catalog Object	O
urn:oasis:names:tc:xspa:1.0:environment:locality	M
urn:oasis:names:tc:xspa:2.0:subject:npi	O
urn:oasis:names:tc:xspa:1.0:evidence	M
urn:oid: 2.16.840.1.113883.6.96 SNOMED CT Permission	O

Identifiers	
urn:oid: 2.16.840.1.113883.6.96 SNOMED CT Resource Action	O
urn:oid: 2.16.840.1.113883.6.96 SNOMED CT Object	O

269 **A. Acknowledgements**

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

272 **Participants:**

273 [Participant Name, Affiliation | Individual Member]

274 [Participant Name, Affiliation | Individual Member]

275

276

B. Revision History

277

Document ID	Date	Committer	Comment
xspa-saml-profile-01	12 Sep 2008	Mike Davis & David Staggs	Initial draft v0.0
xspa-saml-profile-02	15 Sep 2008	Craig Winter	QA Review / Revision v0.1
xspa-saml-profile-wd-03	31 Oct 2008	Duane DeCouteau	Incorporate initial SS TC feedback
xspa-saml-profile-cd-01	4 Nov 2008	Duane DeCouteau	Approved Committee Draft v1.0
xspa-saml-profile-cd-01	5 Nov 2008	Craig Winter	QA Review / Revision v1.1
xspa-saml-profile-pr-01	5 Nov 2008	David Staggs	Approved Public Review Draft v1.0

278