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#### 45 **Abstract:**

This specification defines terms used throughout the OASIS Security Assertion Markup Language (SAML) specifications and related documents.

#### 48 Status:

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- of any changes made to this document.
- 56 For information on whether any patents have been disclosed that may be essential to
- implementing this specification, and any offers of patent licensing terms, please refer to the
   Intellectual Property Rights web page for the Security Services TC (http://www.oasis-
- 59 open.org/committees/security/ipr.php).

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#### 63 **1** Glossary

This normative document defines terms used throughout the OASIS Security Assertion Markup Language (SAML) specifications and related documents.

66 Some definitions are derived directly from external sources (referenced in an appendix), some definitions

based on external sources have been substantively modified to fit the SAML context, and some are newly

developed for SAML. Please refer to the external sources for definitions of terms not explicitly defined
 here.

Some definitions have multiple senses provided. They are denoted by (a), (b), and so on. References to
 terms defined elsewhere in this glossary are italicized.

- 72 Following are the defined terms used in the SAML specifications and related documents.
- 73

74 75	Term	Definition
76 77 78	Access	To interact with a <i>system entity</i> in order to manipulate, use, gain knowledge of, and/or obtain a representation of some or all of a system entity's <i>resources</i> . [RFC2828]
79 80 81 82	Access Control	Protection of <i>resources</i> against unauthorized <i>access</i> ; a process by which use of resources is regulated according to a <i>security</i> <i>policy</i> and is permitted by only authorized system entities according to that policy. [RFC2828]
83 84 85 86 87 88 89 90	Access Control Information	Any information used for <i>access control</i> purposes, including contextual information [X.812]. Contextual information might include source IP address, encryption strength, the type of operation being requested, time of day, etc. Portions of access control information may be specific to a request itself, some may be associated with the connection via which a request is transmitted, and others (for example, time of day) may be "environmental". [RFC2829]
91 92 93	Access Rights	A description of the type of authorized interactions a <i>subject</i> can have with a <i>resource</i> . Examples include read, write, execute, add, modify, and delete. [Taxonomy]
94 95 96	Account	Typically a formal business agreement for providing regular dealings and services between a <i>principal</i> and business service providers.
97 98 99 100 101	Account Linkage	A method of relating <i>accounts</i> at two different <i>providers</i> that represent the same <i>principal</i> so that the providers can communicate about the principal. Account linkage can be established through the sharing of <i>attributes</i> or through <i>identity</i> <i>federation</i> .
102 103	Active Role	A role that a <i>system entity</i> has donned when performing some operation, for example <i>accessing</i> a <i>resource</i> .

104 105 106 107 108 109 110 111 112 113 114 115 116	Administrative Domain	An environment or context that is defined by some combination of one or more administrative policies, Internet Domain Name registrations, civil legal entities (for example, individuals, corporations, or other formally organized entities), plus a collection of hosts, network devices and the interconnecting networks (and possibly other traits), plus (often various) network services and applications running upon them. An administrative domain may contain or define one or more security domains. An administrative domain may encompass a single site or multiple sites. The traits defining an administrative domain may, and in many cases will, evolve over time. Administrative domains may interact and enter into agreements for providing and/or consuming services across administrative domain boundaries.
117 118 119 120 121 122	Administrator	A person who installs or maintains a system (for example, a SAML-based security system) or who uses it to manage <i>system entities</i> , users, and/or content (as opposed to application purposes; see also <i>End User</i> ). An administrator is typically affiliated with a particular <i>administrative domain</i> and may be affiliated with more than one administrative domain.
123 124	Affiliation, Affiliation Group	A set of system entities that share a single namespace (in the federated sense) of <i>identifiers</i> for <i>principals</i> .
125 126 127	Anonymity	The quality or state of being anonymous, which is the condition of having a name or identity that is unknown or concealed. [RFC2828]
128	Artifact	See SAML Artifact.
129 130 131 132	Assertion	A piece of data produced by a <i>SAML authority</i> regarding either an act of <i>authentication</i> performed on a <i>subject</i> , <i>attribute</i> information about the subject, or <i>authorization</i> data applying to the subject with respect to a specified <i>resource</i> .
133 134	Asserting Party	Formally, the <i>administrative domain</i> that hosts one or more SAML authorities. Informally, an instance of a SAML authority.
135 136 137 138 139 140 141 142 143 144 145	Attribute	A distinct characteristic of an object (in SAML, of a <i>subject</i> ). An object's <i>attributes</i> are said to describe it. Attributes are often specified in terms of physical traits, such as size, shape, weight, and color, etc., for real-world objects. Objects in cyberspace might have attributes describing size, type of encoding, network address, and so on. Attributes are often represented as pairs of "attribute name" and "attribute value(s)", e.g. "foo" has the value 'bar', "count" has the value 1, "gizmo" has the values "frob" and "2", etc. Often, these are referred to as "attribute value pairs". Note that <i>Identifiers</i> are essentially "distinguished attributes". See also Identifier and <i>XML attribute</i> .
146	Attribute Authority	A system entity that produces attribute assertions. [SAMLAgree]
147 148	Attribute Assertion	An assertion that conveys information about attributes of a subject.
149 150 151	Authentication	To confirm a <i>system entity</i> 's asserted <i>principal identity</i> with a specified, or understood, level of confidence. [CyberTrust] [SAMLAgree]

152 153	Authentication Assertion	An assertion that conveys information about a successful act of authentication that took place for a subject.
154 155	Authentication Authority	A system entity that produces authentication assertions. [SAMLAgree]
156 157 158 159 160 161	Authorization	The process of determining, by evaluating applicable access control information, whether a subject is allowed to have the specified types of access to a particular resource. Usually, authorization is in the context of authentication. Once a subject is authenticated, it may be authorized to perform different types of access. [Taxonomy]
162 163 164	Authorization Decision	The result of an act of <i>authorization</i> . The result may be negative, that is, it may indicate that the <i>subject</i> is not allowed any <i>access</i> to the <i>resource</i> .
165 166	Authorization Decision Assertion	An assertion that conveys information about an authorization decision.
167 168 169 170	Back Channel	Back channel refers to direct communications between two <i>system entities</i> without "redirecting" messages through another system entity such as an HTTP client (e.g. A user agent). See also <i>front channel</i> .
171 172 173 174 175 176 177	Binding, Protocol Binding	Generically, a specification of the mapping of some given protocol's messages, and perhaps message exchange patterns, onto another protocol, in a concrete fashion. For example, the mapping of the SAML <authnrequest> message onto HTTP is one example of a binding. The mapping of that same SAML message onto SOAP is another binding. In the SAML context, each binding is given a name in the pattern "SAML xxx binding".</authnrequest>
178 179	Credentials	Data that is transferred to establish a claimed <i>principal identity</i> . [X.800] [SAMLAgree]
180 181 182	End User	A natural person who makes use of resources for application purposes (as opposed to system management purposes; see <i>Administrator</i> , <i>User</i> ).
183 184 185 186	Federated Identity	A <i>principal</i> 's <i>identity</i> is said to be <i>federated</i> between a set of <i>Providers</i> when there is an agreement between the providers on a set of <i>identifiers</i> and/or <i>attributes</i> to use to refer to the Principal
187	Federate	To link or bind two or more entities together [Merriam].
188	Federation	This term is used in two senses in SAML:
		<ul> <li>a) The act of establishing a relationship between two entities [Merriam].</li> <li>b) An association comprising any number of <i>service providers</i> and <i>identity providers</i>.</li> </ul>
189 190 191 192 193	Front Channel	Front channel refers to the "communications channel" that can be effected between two HTTP-speaking servers by employing "HTTP redirect" messages and thus passing messages to each other via a user agent, e.g. a web browser, or any other HTTP client [RFC2616]. See also <i>back channel</i> .

194	Identifier	This term is used in two senses in SAML:
		c) One that identifies [Merriam].
		<ul> <li>A data object (for example, a string) mapped to a system entity that uniquely refers to the system entity. A system entity may have multiple distinct identifiers referring to it. An identifier is essentially a "distinguished attribute" of an entity. See also Attribute.</li> </ul>
195 196 197	Identity	The essence of an entity [Merriam]. One's identity is often described by one's characteristics, among which may be any number of identifiers. See also <i>Identifier, Attribute</i> .
198 199	Identity Defederation	The action occurring when <i>Providers</i> agree to stop referring to a <i>Principal</i> via a certain set of <i>identifiers</i> and/or <i>attributes</i> .
200	Identity Federation	The act of creating a <i>federated identity</i> on behalf of a Principal
201 202 203 204	Identity Provider	A kind of <i>service provider</i> that creates, maintains, and manages identity information for <i>principals</i> and provides principal authentication to other <i>service providers</i> within a <i>federation</i> , such as with web browser <i>profiles</i> .
205 206	Initial SOAP Sender	The SOAP sender that originates a SOAP message at the starting point of a SOAP message path. [WSGloss]
207 208 209	Login, Logon, Sign-On	The process whereby a <i>user</i> presents <i>credentials</i> to an <i>authentication authority</i> , establishes a <i>simple session</i> , and optionally establishes a <i>rich session</i> .
210 211	Logout, Logoff, Sign-Off	The process whereby a <i>user</i> signifies desire to terminate a <i>simple session</i> or <i>rich session</i> .
212 213 214 215 216 217	Markup Language	A set of <i>XML elements</i> and <i>XML attributes</i> to be applied to the structure of an XML document for a specific purpose. A markup language is typically defined by means of a set of <i>XML schemas</i> and accompanying documentation. For example, the <i>Security Assertion Markup Language</i> (SAML) is defined by two schemas and a set of normative SAML specification text.
218 219 220	Name Qualifier	A string that disambiguates an <i>identifier</i> that may be used in more than one <i>namespace</i> (in the federated sense) to represent different <i>principals</i> .
221	Namespace	This term is used in several senses in SAML:
		<ul> <li>e) (In discussing federated names) A domain in which an identifier is unique in representing a single principal.</li> </ul>
		<ul> <li>f) (With respect to authorization decision actions) A URI that identifies the set of action values from which the supplied action comes.</li> </ul>
		g) (In XML) See <i>XML namespace</i> .
222 223 224	Party	Informally, one or more <i>principals</i> participating in some process or communication, such as receiving an <i>assertion</i> or accessing a <i>resource</i> .

225 226 227 228	Persistent Pseudonym	A privacy-preserving name <i>identifier</i> assigned by a <i>provider</i> to identify a <i>principal</i> to a given <i>relying party</i> for an extended period of time that spans multiple <i>sessions</i> ; can be used to represent an <i>identity federation</i> .
229 230 231 232 233	Policy Decision Point (PDP)	A system entity that makes authorization decisions for itself or for other system entities that request such decisions. [PolicyTerm] For example, a SAML PDP consumes authorization decision requests, and produces authorization decision assertions in response. A PDP is an "authorization decision authority".
234 235 236 237	Policy Enforcement Point (PEP)	A system entity that requests and subsequently enforces authorization decisions. [PolicyTerm] For example, a SAML PEP sends authorization decision requests to a PDP, and consumes the authorization decision assertions sent in response.
238	Principal	A system entity whose identity can be authenticated. [X.811]
239	Principal Identity	A representation of a principal's identity, typically an identifier.
240 241	Profile	A set of rules for one of several purposes; each set is given a name in the pattern "xxx profile of SAML" or "xxx SAML profile".
		<ul> <li>Rules for how to embed assertions into and extract them from a protocol or other context of use.</li> </ul>
		<ul> <li>b) Rules for using SAML protocol messages in a particular context of use.</li> </ul>
		c) Rules for mapping attributes expressed in SAML to another attribute representation system. Such a set of rules is known as an "attribute profile".
242 243	Provider	A generic way to refer to both <i>identity providers</i> and <i>service providers</i> .
244	Proxy	An entity authorized to act for another.
		a) Authority or power to act for another.
		b) A document giving such authority. [Merriam]
245 246 247	Proxy Server	A computer process that relays a protocol between client and server computer systems, by appearing to the client to be the server and appearing to the server to be the client. [RFC2828]
248	Pull	To actively request information from a system entity.
249 250	Push	To provide information to a <i>system entity</i> that did not actively request it.
251 252 253 254	Relying Party	A system entity that decides to take an action based on information from another system entity. For example, a SAML relying party depends on receiving assertions from an asserting party (a SAML authority) about a subject.

255 256 257 258 259 260 261	Requester, SAML Requester	A system entity that utilizes the SAML protocol to request services from another system entity (a <i>SAML authority</i> , a <i>responder</i> ). The term "client" for this notion is not used because many system entities simultaneously or serially act as both clients and servers. In cases where the SOAP binding for SAML is being used, the SAML requester is architecturally distinct from the <i>initial SOAP sender</i> .
262 263	Resource	Data contained in an information system (for example, in the form of files, information in memory, etc), as well as:
		a) A service provided by a system.
		<ul> <li>An item of system equipment (in other words, a system component such as hardware, firmware, software, or documentation).</li> </ul>
		<ul> <li>c) A facility that houses system operations and equipment. [RFC2828]</li> </ul>
264 265		SAML uses <i>resource</i> in the first two senses, and refers to resources by means of <i>URI references</i> .
266 267 268 269 270 271 272	Responder, SAML Responder	A system entity (a SAML authority) that utilizes the SAML protocol to respond to a request for services from another system entity (a requester). The term "server" for this notion is not used because many system entities simultaneously or serially act as both clients and servers. In cases where the SOAP binding for SAML is being used, the SAML responder is architecturally distinct from the <i>ultimate SOAP receiver</i> .
273 274 275 276 277	Role	Dictionaries define a role as "a character or part played by a performer" or "a function or position." <i>System entities</i> don various types of roles serially and/or simultaneously, for example, active roles and passive roles. The notion of an Administrator is often an example of a role.
278 279 280	SAML Authority	An abstract system entity in the SAML domain model that issues assertions. See also attribute authority, authentication authority, and policy decision point (PDP).
281 282 283 284 285 286	Security	A collection of safeguards that ensure the confidentiality of information, protect the systems or networks used to process it, and control access to them. Security typically encompasses the concepts of secrecy, confidentiality, integrity, and availability. It is intended to ensure that a system resists potentially correlated attacks. [CyberTrust]
287 288 289 290 291 292 293 294 295 296 297 298 299	Security Architecture	A plan and set of principles for an <i>administrative domain</i> and its security domains that describe the security services that a system is required to provide to meet the needs of its users, the system elements required to implement the services, and the performance levels required in the elements to deal with the threat environment. A complete security architecture for a system addresses administrative security, communication security, and physical security, and prescribes security policies for each. A complete security architecture needs to deal with both intentional, intelligent threats and accidental threats. A security architecture should explicitly evolve over time as an integral part of its administrative domain's evolution. [RFC2828]

300 301	Security Assertion	An <i>assertion</i> that is scrutinized in the context of a security architecture.	
302	Security Assertion Markup Language(SAML)		
303		The set of specifications describing <i>security assertions</i> that are	
304		encoded in <i>XML</i> , <i>profiles</i> for attaching the assertions to various	
305		protocols and frameworks, the request/response protocol used to	
306		obtain the assertions, and <i>bindings</i> of this protocol to various	
307		transfer protocols (for example, SOAP and HTTP).	
308	SAML Artifact	A small, fixed-size, structured data object pointing to a typically	
309		larger, variably-sized SAML protocol message. SAML artifacts	
310		are designed to be embedded in URLs and conveyed in HTTP	
311		messages, such as HTTP response messages with "3xx	
312		Redirection" status codes, and subsequent HTTP GET	
313		messages. In this way, a service provider may indirectly, via a	
314		user agent, convey a SAML artifact to another provider, who may	
315		subsequently dereference the SAML artifact via a direct	
316		interaction with the supplying provider, and obtain the SAML	
		protocol message. Various characteristics of the HTTP protocol	
317		and user agent implementations provided the impetus for	
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319		concocting this approach. The HTTP Artifact binding section of	
320		[SAMLBind] defines both the SAML Artifact format and the SAML	
321		HTTP protocol binding incorporating it.	
322	Security Context	With respect to an individual SAML protocol message, the	
323		message's security context is the semantic union of the	
324		message's security header blocks (if any) along with other	
325		security mechanisms that may be employed in the message's	
326		delivery to a recipient. With respect to the latter, an examples are	
327		security mechanisms employed at lower network stack layers	
328		such as HTTP, TLS/SSL, IPSEC, etc.	
329			
330		With respect to a system entity, "Alice", interacting with another	
331		system entity, "Bob", a security context is nominally the semantic	
332		union of all employed security mechanisms across all network	
333		connections between Alice and Bob. Alice and Bob may each	
334		individually be, for example, a provider or a user agent. This	
335		notion of security context is similar to the notion of "security	
336		contexts" as employed in [RFC2743], and in the Distributed	
337		Computing Environment [DCE], for example.	
338	Security Domain	An environment or context that is defined by security models and	
339		a security architecture, including a set of resources and set of	
340		system entities that are authorized to access the resources. One	
341		or more security domains may reside in a single administrative	
342		domain. The traits defining a given security domain typically	
343		evolve over time. [Taxonomy]	
344	Security Policy	A set of rules and practices that specify or regulate how a system	
345		or organization provides security services to protect resources.	
346		Security policies are components of <i>security architectures</i> .	
347		Significant portions of security policies are implemented via	
348		security services, using security policies are implemented via security services. [RFC2828]	
340 349		[Taxonomy]	
040			
350	Security Policy Expression	A mapping of principal identities and/or attributes thereof with	
351		allowable actions. Security policy expressions are often	
352		essentially access control lists. [Taxonomy]	

353 354 355 356 357 358 359 360	Security Service	A processing or communication service that is provided by a system to give a specific kind of protection to <i>resources</i> , where said resources may reside with said system or reside with other systems, for example, an <i>authentication</i> service or a PKI-based document attribution and authentication service. A security service is a superset of AAA services. Security services typically implement portions of <i>security policies</i> and are implemented via security mechanisms. [RFC2828] [Taxonomy]
361 362	Service Provider	A <i>role</i> donned by a <i>system entity</i> where the system entity provides services to <i>principals</i> or other system entities.
363 364 365	Session	A lasting interaction between <i>system entities</i> , often involving a <i>Principal</i> , typified by the maintenance of some state of the interaction for the duration of the interaction.
366 367	Session Authority	A <i>role</i> donned by a <i>system entity</i> when it maintains state related to <i>sessions</i> . <i>Identity providers</i> often fulfill this role.
368 369	Session Participant	A <i>role</i> donned by a <i>system entity</i> when it participates in a <i>session</i> with at least a <i>session authority</i> .
370 371 372 373 374	Site	An informal term for an <i>administrative domain</i> in geographical or DNS name sense. It may refer to a particular geographical or topological portion of an administrative domain, or it may encompass multiple administrative domains, as may be the case at an ASP site.
375 376	Subject	A <i>principal</i> in the context of a <i>security domain</i> . SAML assertions make declarations about <i>subjects</i> .
377 378 379 380	System Entity, Entity	An active element of a computer/network system. For example, an automated process or set of processes, a subsystem, a person or group of persons that incorporates a distinct set of functionality. [RFC2828] [SAMLAgree]
381 382 383 384	Time-Out	A period of time after which some condition becomes true if some event has not occurred. For example, a <i>session</i> that is terminated because its state has been inactive for a specified period of time is said to "time out".
385 386 387	Transient Pseudonym	A privacy-preserving <i>identifier</i> assigned by an <i>identity provider</i> to identify a <i>principal</i> to a given <i>relying party</i> for a relatively short period of time that need not span multiple <i>sessions</i> .
388 389 390 391 392 393 394	Ultimate SOAP Receiver	The SOAP receiver that is a final destination of a SOAP message. It is responsible for processing the contents of the SOAP body and any SOAP header blocks targeted at it. In some circumstances, a SOAP message might not reach an ultimate SOAP receiver, for example because of a problem at a SOAP intermediary. An ultimate SOAP receiver cannot also be a SOAP intermediary for the same SOAP message. [WSGloss]
395 396	User	A natural person who makes use of a system and its resources for any purpose [SAMLAgree]

397 398 399 400 401 402	Uniform Resource Identifier (URI)	A compact string of characters for identifying an abstract or physical <i>resource</i> . [RFC2396] URIs are the universal addressing mechanism for resources on the World Wide Web. Uniform Resource Locators (URLs) are a subset of URIs that use an addressing scheme tied to the resource's primary access mechanism, for example, their network "location".
403 404 405	URI Reference	A <i>URI</i> that is allowed to have an appended number sign (#) and fragment identifier. [RFC2396] Fragment identifiers address particular locations or regions within the identified resource.
406 407 408 409	XML	Extensible Markup Language, abbreviated XML, describes a class of data objects called XML documents and partially describes the behavior of computer programs which process them. [XML]
410 411 412	XML Attribute	An XML data structure that is embedded in the start-tag of an XML element and that has a name and a value. For example, the italicized portion below is an instance of an XML attribute:
413		<address addressid="A12345"></address>
414		See also attribute.
415 416 417	XML Element	An XML data structure that is hierarchically arranged among other such structures in an XML document and is indicated by either a start-tag and end-tag or an empty tag. For example:
418 419 420 421 422 423 424 425 426		<address addressid="A12345"> <street>105 Main Street</street> <city>Springfield</city> <stateorprovince> <full>Massachusetts</full> <abbrev>MA</abbrev> </stateorprovince> <post code="56789"></post> </address>
427 428 429 430 431	XML Namespace	A collection of names, identified by a <i>URI reference</i> , which are used in XML documents as element types and attribute names. An XML namespace is often associated with an <i>XML schema</i> . For example, SAML defines two schemas, and each has a unique XML namespace.
432 433 434 435 436 437 438 439 440	XML Schema	The format developed by the World Wide Web Consortium (W3C) for describing rules for a <i>markup language</i> to be used in a set of XML documents. In the lowercase, a "schema" or "XML schema" is an individual instance of this format. For example, SAML defines two schemas, one containing the rules for XML documents that encode security assertions and one containing the rules for XML documents that encode request/response protocol messages. Schemas define not only XML elements and XML attributes, but also datatypes that apply to these constructs.

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