Liberty Technical Glossary
Version: v1.3

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Abstract:
This document is the Liberty Alliance Project Glossary of Terms.

Filename: liberty-glossary-v1.3.pdf
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1. Introduction

This document is Liberty Alliance Project glossary of normative technical terms.

This document is not an exhaustive compendium of all Liberty technical terminology because the Liberty terminology is built upon existing terminology. Thus many terms that are commonly used within this context are not listed. They may be found in the glossaries/documents/specifications referenced in the bibliography. Terms defined here that are not attributed to other glossaries/documents/specifications are being defined here.

This glossary is expected to evolve along with the Liberty Alliance Project specifications.
2. Definitions

Terms

AC
See authentication context.

account
A formal business agreement providing for regular dealings and services between a Principal and a service provider [Merriam-Webster].

account linkage
See identity federation.

AD
See Authentication Domain.

affiliation
An affiliation is a set of one or more entities, described by providerID’s, who may perform Liberty interactions as a member of the set. An affiliation is referenced by exactly one affiliationID, and is administered by exactly one entity identified by their providerID. Members of an affiliation may invoke services either as a member of the affiliation (using affiliationID), or individually (using their providerID). Affiliation and affiliation group are equivalent terms.

affiliation group
See affiliation.

Affiliation ID
An Affiliation ID identifies an affiliation. It is schematically represented by the affiliationID attribute of the <AffiliationDescriptor> metadata element [LibertyMetadata].

AP
See Attribute Provider.

AS Consumer
See Authentication Service Consumer.

AS Provider
See Authentication Service Provider.

assertion, SAML assertion
An XML-based data structure defined by SAML. Assertions are collections of one or more statements, made by a SAML authority (also known as an issuer), such as an authentication statement or attribute statement. As used in Liberty, assertions typically concern things such as: an act of authentication performed by a Principal, attribute information about a Principal, or authorization permissions applying to a Principal with respect to a specified resource.

attribute
A distinct, named, characteristic of a Principal or other system entity.

attribute class
A predefined set of attributes, such as the constituents of a Principal’s name (prefix, first name, middle name, last name, and suffix).
attribute container

a module comprised of a collection of attributes grouped together according to expected use patterns.

Attribute Provider (AP)

An attribute provider (AP) provides Identity Personal Profile (ID-PP) information. Sometimes referred to as an ID-PP provider.

authenticated identity

An identity, representing a system entity, which often is a Principal, that is asserted to have been the subject of a successful authentication.

authenticated Principal

A Principal who has had his identity authenticated by an Identity Provider.

authenticating authority

Synonymous with authenticating identity provider or authenticating IdP. An identity provider that authenticated a Principal (see also authentication). In [LibertyAuthnContext], the authenticating authority is identified by the first occurring <AuthenticatingAuthority> element instance.

authenticating entity

A system entity that engages in the process of authenticating itself to another system entity, the latter typically being an Identity Provider (see also authentication). More formally, an authenticating system entity.

authentication (authn)

Authentication is the process of confirming a system entity’s asserted identity with a specified, or understood, level of confidence [TrustInCyberspace].

authentication assertion

A SAML-based assertion that, in the Liberty specification suite, contains a <lib:AuthenticationStatement>. Note that the foregoing element is defined in a Liberty namespace. Also known as Liberty authentication assertion and ID-FF authentication assertion.

Liberty authentication assertions are formal XML extensions of SAML assertions [SAMLCore11]. Semantically, an assertion issuer is stating that the subject of the assertion authenticated with it (the issuer) at some point in time. Assertions are typically time-limited.

authentication authority

A system entity that produces authentication assertions [SAMLGloss]. In the Liberty architecture, it is typically an Identity Provider.

authentication context (AC)

Authentication Context is an extensible XML-based "schematic" description of authentication event characteristics [LibertyAuthnContext].

Authentication Domain (AD)

An Authentication Domain (AD) is a formal community of Liberty-enabled entities that interact using a set of well-known common rules.

authentication exchange

See authentication protocol exchange.

authentication mechanism

An authentication mechanism is a particular, identifiable, process or technique that results in a confirmation of a system entity's asserted identity with a specified, or understood, level of confidence. See also SASL mechanism. An authentication mechanism may be employed in the process of generating security tokens attesting to the authenticated identity of an authenticating entity. The ID-WSF Authentication Protocol specifies such a process [LibertyAuthn].
authentication protocol exchange

Authentication protocol exchange is the term used in [RFC2222] to refer to the sequence of messages exchanged between the client and server as specified and governed by the particular SASL mechanism being employed to effect an act of authentication.

authentication quality

The level of assurance that a service provider can place in an authentication assertion it receives from an identity provider.

authentication server

The precise, specific role played by a server in the protocol message exchanges defined in the ID-WSF Authentication Protocol.

Authentication Service Consumer (AS Consumer)

A Web Service Consumer (WSC) implementing the client-side of the ID-WSF Authentication Service [LibertyAuthn].

Authentication Service Provider (AS Provider)

A Web Service Provider (WSP) implementing the server-side of the ID-WSF Authentication Service [LibertyAuthn].

authentication session

The period of time starting after A has authenticated B and until A stops trusting B’s identity assertion and requires reauthentication. Also known simply as a session, it is the state between a successful login and a successful logout by the Principal.

authorization (authz)

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 [SAMLGloss].

bearer token

A bearer token is a form of security token having the property of connoting some attribute(s) to its holder, or bearer. In [LibertySecMech], bearer tokens connote identity and they consist essentially of credentials of some form, e.g. SAML assertions [wss-saml].

Circle of Trust (CoT)

A federation of service providers and identity providers that have business relationships based on Liberty architecture and operational agreements and with whom users can transact business in a secure and apparently seamless environment. Also known as a Trust Circle.

client

A role assumed by a system entity who makes a request of another system entity, often termed a server [RFC2828]. A client is at varying times a sender or a receiver.

CoT

See circle of trust.

credentials

Data that is transferred or presented to establish either a claimed identity or the authorizations of a system entity.

defederate, defederate identity

To eliminate linkage between a Principal’s accounts at an identity provider and a service provider.
delegation
Enabling a system entity to operate on behalf of a principal to access an identity service.

discoverable
A discoverable "in principle" service is one having a service type URI assigned (this is typically in done in the specification defining the service). A discoverable "in practice" service is one that is registered in some discovery service instance.

ID-WSF services are by definition discoverable "in principle" because such services are assigned a service type URI facilitating their registration in Discovery Service instances.

Discovery Service (DS)
An ID-WSF service facilitating the registration, and subsequent discovery of, ID-WSF service instances [LibertyDisco]. See also discoverable.

endpoint
A term used in [WSDLv1.1] — it is the short form of protocol endpoint — and which itself means an identified entity, at the current level of abstraction, to which a protocol message, of the same level of abstraction, may be sent. For example, at the Internet Protocol (IP) layer, an endpoint is represented by an IP address, and one may send an IP datagram (AKA a "message") to said endpoint. In contrast, at the HTTP layer, an endpoint is represented by a URL.

federate
To link or bind two or more entities together.

federation
(1) The act of establishing a relationship between two entities.
(2) An association comprising any number of service providers and identity providers.

final SASL response
The final <SASLResponse> message sent from the server to the client in an authentication exchange [LibertyAuthn].

gWS
See generic web service.

gWSP
See generic Web Service Provider.

generic web service (gWS)
A generic web service is defined by sense (1) of the web service definition.

generic Web Service Provider (gWSP)
A generic Web Service Provider (gWSP) an entity providing generic web services.

header, header block, header element
See SOAP header block.

ID-*
A shorthand designator referring to the Liberty ID-WSF, ID-FF, and ID-SIS specification sets. For example, one might say that the former specification sets are all part of the Liberty ID-* specification suite.

ID-* fault message
An ID-* fault message is a SOAP <$:Fault> element containing a <$:Status> element, with the attributes and attribute values of both elements configured as specified herein, or as specified in other specification(s) in the ID-WSF or ID-SIS specification sets.
ID-* header block
One of the header blocks defined in this specification, or defined in any of the other Liberty ID-* specification suite.

ID-* message
Equivalent to ordinary ID-* message.

ID-FF
The Identity Federation Framework (ID-FF) is the title for a subset of the Liberty specification suite which defines largely HTTP-based protocols for web single sign-on and identity federation. See LibertyProtSchema.

ID-FF authentication assertion
See authentication assertion.

ID-PP
The "ID Personal Profile" is an ID-SIS-based service which can provide profile information regarding Principals, typically subject to policy established by said Principals. See LibertyIDPP.

ID-SIS
Liberty Identity Service Interface specification set.

ID-SIS service
See ID-SIS-based service.

ID-SIS-based service
ID-SIS-based services are identity services typically built on ID-WSF — i.e. they are essentially ID-WSF-based services — and are often also built on the [LibertyDST] specification. [LibertyIDEP] and [LibertyIDPP] are examples of ID-SIS service specifications.

ID-WSF
Liberty Identity Web Services Framework specification set.

ID-WSF service
See ID-WSF-based service.

ID-WSF-based service
An ID-WSF-based service is an identity service that is at least discoverable in principle, and is based on [LibertySOAPBinding] and [LibertySecMech].

identity
The essence of an entity. One’s identity is often described by one’s characteristics, among which may be any number of identifiers.

Identity federation
Creating associations between a given system entity’s identifiers or accounts.

Identity Provider (IdP)
A Liberty-enabled system entity that manages identity information on behalf of Principals and provides assertions of Principal authentication to other providers.

identity service
An abstract notion of a web service whose operations are indexed by identity. Such a service might maintain information about, or on behalf of, identities, or perform actions on behalf of identities.

initial response
A [RFC2222] term referring to authentication exchange data sent by the client in the initial SASL request. It is used by a subset of SASL mechanisms. See Section 5.1 of [RFC2222].
initial SASL request
The initial <SASLRequest> message sent from the *client* to the *server* in an *authentication exchange* [LibertyAuthn].

IdP
See *Identity Provider*.

invocation identity
The identity of the *system entity* invoking a *service*.

LEC
See *Liberty-Enabled Client*.

LECP
See *Liberty-Enabled Client or Proxy*.

LEP
See *Liberty-Enabled Proxy*.

Liberty authentication assertion
See *authentication assertion*.

Liberty-enabled client (LEC)
An entity that has, or knows how to obtain, knowledge about the identity provider that the Principal wishes to use with the service provider.

Liberty-enabled client or proxy (LECP)
A Liberty-enabled client is a client that has, or knows how to obtain, knowledge about the identity provider that the Principal wishes to use with the service provider. A Liberty-enabled proxy is an HTTP proxy (typically a WAP gateway) that emulates a Liberty-enabled client.

Liberty-enabled Provider
An umbrella term referring to any *Provider* offering any ID-FF-, ID-WSF-, or ID-SIS-based services.

Liberty-Enabled Client and Proxy Profile
This profile specifies interactions between Liberty-enabled clients and/or proxies, service providers, and identity providers [LibertyBindProf].

Liberty-enabled Proxy (LEP)
A Liberty-enabled proxy is a HTTP proxy (typically a WAP gateway) that emulates a Liberty-enabled client.

Liberty-enabled User Agent or Device (LUAD)
A user agent or device that has specific support for one or more profiles of the Liberty specifications. It should be noted that although a standard web browser can be used in many Liberty-specified scenarios, it does not provide specific support for the Liberty protocols, and thus is not a LUAD.
No particular claims of specific functionality should be implied about a system entity solely based on its definition as a LUAD. Rather, a LUAD may perform one or more Liberty system entity roles as defined by the Liberty specifications it implements. For example, a LUAD-LECP is a user agent or device that supports the Liberty LECP profile, and a LUAD-DS would define a user agent or device offering a Liberty ID-WSF Discovery Service.

login
The act of a Principal proving their *identity* to a *system entity*, which typically establishes a session.

logout
The termination of a session.
See Liberty-enabled User Agent or Device.

A Web Service Consumer (WSC), that may or may not also be a Liberty-enabled User Agent or Device.

A process or technique for achieving a result [Merriam-Webster].

see Message Exchange Pattern

A [SOAPv1.2] term for the overall notion of various patterns of message exchange between SOAP nodes. For example, request-reply and one-way are two MEPs used in this specification.

A message thread is a synchronous exchange of messages in a request-response MEP between two SOAP nodes. All the messages of a given message thread are "linked" via each message's <Correlation> header block refToMessageID attribute value being set, by the sender, from the previous successfully received message's <Correlation> header block messageID attribute value.

Definitional data that provides information about other data or system entities managed within an application or environment. In Liberty, metadata is Provider information that is necessary for interacting with Providers [LibertyMetadata].

An abstraction, consisting of a Principal's global set of attributes, which is composed from a "union" of the Principal's accounts. See also identity.

the ability to act for another entity based on Trusted Authority Policy. The capability is non-transferable.

An identifier that has meaning only in the context between a specific identity provider and specific service provider.

An ordinary ID-* message is a Liberty Identity Web Services Framework (ID-WSF) or Service Interface Specification (ID-SIS) message as defined in the [LibertyDST], [LibertyDisco], and [LibertyIDPP] specifications and others. It has the characteristics of being designed to be conveyed by essentially any transport or transfer protocol, notably SOAP [SOAPv1.1]. It is also known among the ID-* specifications as a service request, or an ID-WSF (service) request, or an ID-SIS (service) request.

A Reversed HTTP binding for SOAP [SOAPv1.1] The primary difference from the normal HTTP binding for SOAP is that here a SOAP request is bound to a HTTP response and vice versa. "PAOS" is "SOAP" spelled backwards (pun intended).

See Policy Decision Point

See Policy Enforcement Point
permission
Privileges granted to a system entity with respect to operations that may be performed on some resource.

personally identifiable information (PII)
Any data that identifies or locates a particular person, consisting primarily of name, address, telephone number, e-mail address, bank accounts, or other unique identifiers such as Social Security numbers.

PII
See personally identifiable information.

policy
A logically defined, enforceable, and testable set of rules.

Policy Decision Point
A system entity that evaluates decision requests in light of applicable policy and information describing the requesting entity or entities and renders an authorization decision.

Policy Enforcement Point
A system entity that performs access control by making decision requests and enforcing authorization decisions. If the authorization decision is pushed to the PEP there will be no need for it to create a request.

Principal
Succinctly, a principal is a system entity whose identity can be authenticated. In Liberty usage, Principal is usually synonymous with a "natural person". A Principal's identity may be federated. Examples of Principals include individual users, groups of individuals, organizational entities e.g. corporations, or a component of the Liberty architecture.

privacy
Proper handling of personal information throughout its life cycle, consistent with the preferences of the subject.

processing context
A processing context is the collection of specific circumstances under which a particular processing step or set of steps take place.

processing context facet
A processing context facet is an identified aspect, inherent or additive, of a processing context.

profile
Data comprising the broad set of attributes that may be maintained on behalf of an system entity (usually a Principal), over and beyond its various identifiers. At least some of this information (for example, addresses, preferences, card numbers) is typically provided by the Principal.

provider
A provider is a Liberty-enabled entity that performs one or more of the provider roles in the Liberty architecture, for example Service Provider or Identity Provider. Providers are identified in Liberty protocol interactions by their Provider IDs or optionally their Affiliation ID if they are a member of an affiliation(s) and are acting in that capacity.

Provider ID
A Provider ID identifies an entity known as a provider. It is schematically represented by the providerID attribute of the <EntityDescriptor> metadata element [LibertyMetadata].

proxy
(1) An entity authorized to act for another [Merriam-Webster].
(2) A system entity whose authenticated identity, according to the recipient, differs from that of the system entity making the invocation under consideration.

pseudonym
An arbitrary identifier assigned by the identity or service provider to identify a Principal to a given relying party so that the name has meaning only in the context of the relationship between the parties.

recipient
An entity that receives a message and acts as the message’s ultimate processor.

RELs
See Rights Expression Languages.

receiver
A role taken by a system entity when it receives a message sent by another system entity. See also SOAP receiver in [SOAPv1.2].

relying party
The recipient of a message that relies on a request message and associated assertions to determine whether to provide a requested service.

requester
A system entity which sends a service request to a provider.

resource
Either data related to some identity or identities, or a service acting on behalf of some identity or group of identities. An example of a resource is a calendar containing appointments for a particular identity.

resource offering
The association of a resource and a service instance.

Rights Expression Language (REL)
A Rights Expression Language facilitates the expression of who are the "rights holders" for a resource, who is authorized to use a resource and their applicable permissions, and any constraints or conditions imposed on such permissions. They also may express "rights entities" and "rights transactions".

role
A function or part performed, especially in a particular operation or process [Merriam-Webster].

SAML (Security Assertion Markup Language)
An XML-based standard defining a means for making assertions about events, attributes, and policy evaluations concerning subjects [SAMLCore11]. In Liberty usage, SAML subjects are typically Principals.

SAML assertion
See assertion.

SAML Authority
An abstract system entity in the SAML domain model that issues assertions [SAMLGloss].

SASL
See Simple Authentication and Security Layer.

SASL mechanism
A SASL mechanism is an authentication mechanism that has been profiled for use in the context of SASL [RFC2222]. See [RFC2444] for a particular example of profiling an existing authentication mechanism — one-time passwords [RFC2289] — for use as a SASL mechanism. See also [LibertyAuthn].
security token

In Liberty, a security token is a collection of security-related information that is used to represent and substantiate a claim [LibertyIDWSFSecurityOverview] [LibertySecMech].

Outside of Liberty, the term "security token" often refers to hardware-based devices, e.g. so-called "token cards". One should not confuse the latter and the former definitions. However, it is possible for some given authentication mechanism to employ token cards in the process of authentication.

sender

(1) A role donned by a system entity when it constructs and sends a message to another system entity. See also SOAP sender in [SOAPv1.2].

(1a) an initial SOAP sender. A sender is a proxy when its identity differs from the invocation identity.

server

A role donned by a system entity that provides a service in response to requests from other system entities called clients [RFC2828]. Note that in order to provide a service to clients, a server will often be both a sender and a receiver.

service

(1) A collection of endpoints designed to offer some service or to provide information [WSDLv1.1].

(2) Short form of ID-WSF Service or ID-WSF-based Service.

service discovery

The act of looking up a service(s) in the Discovery Service.

service instance

The physical instantiation of a service. A service instance is a running web service at a distinct endpoint.

Service Provider (SP)

(1) A role donned by system entities. In the Liberty architecture, Service Providers interact with other system entities primarily via vanilla HTTP.

(2) From a Principal’s perspective, a Service Provider is typically a website providing services and/or goods.

service request

A service request is another term for an ordinary ID-* message sent by a client. Service request is also loosely equivalent to a "SOAP-bound (ordinary) ID-* message".

Service Type URI

ID-WSF-based services are assigned a Service Type URI as a part of each service’s definition. The Service Type URI is a factor in service discovery [LibertyDisco].

Simple Authentication and Security Layer (SASL)

SASL [RFC2222] is an approach to modularizing protocol design such that the security design components, e.g. authentication and security layer mechanisms, are reduced to a uniform abstract interface. This facilitates a protocol’s use of an open-ended set of security mechanisms, as well as a so-called "late binding" between implementations of the protocol and the security mechanisms’ implementations. This late binding can occur at implementation- and/or deployment-time. The SASL specification also defines how one packages authentication and security layer mechanisms to fit into the SASL framework, where they are known as SASL mechanisms, as well as register them with the Internet Assigned Numbers Authority [IANA] for reuse.

single sign-on (SSO)

From a Principal’s perspective, the capability to authenticate with one system entity — typically an Identity Provider — and have that authentication honored by other system entities, often Service Providers.

Single Sign-On Service (SSO Service, SSOS)

An ID-WSF-based service providing WSCs a means of obtaining ID-FF authentication assertions [LibertyAuthn].
Single Sign-On Service Consumer (SSO Service Consumer, SSOS Consumer)

A Web Service Consumer (WSC) implementing the client-side of the ID-WSF Single Sign-On Service

[LibertyAuthn].

Single Sign-On Service Provider (SSO Service Provider, SSOS Provider)

A Web Service Provider (WSP) implementing the server-side of the ID-WSF Single Sign-On Service

[LibertyAuthn].

SOAP (Simple Object Access Protocol)

An XML envelope and data encoding technology used to communicate information and requests across the Web. It is typically considered the protocol used by Web services. It is actually an envelope encapsulation format that can be used with lower level Web protocols such as HTTP and FTP. See [SOAPv1.1] and [SOAPv1.2].

SOAP-bound ID-* message

A SOAP message conveying ID-WSF and perhaps ID-SIS header blocks and conveying either an ordinary ID-* message or an ID-* fault message. After being bound to SOAP, the resultant composite messages are referred to as an Ordinary SOAP-bound ID-* Message and a SOAP-bound ID-* Fault Message, respectively.

SOAP header block

A [SOAPv1.2] term meaning: An [element] used to delimit data that logically constitutes a single computational unit within the SOAP header. In [SOAPv1.1] these are known as simply SOAP headers, or simply headers. Liberty specifications use the SOAPv1.2 terminology.

SOAP node

A [SOAPv1.2] term describing system entities who are parties to SOAP-based message exchanges that are, for purposes of this specification, also the ultimate destination of the exchanged messages, i.e. SOAP endpoints. In [SOAPv1.1], SOAP nodes are referred to as SOAP endpoints, or simply endpoints. This specification uses the SOAPv1.2 terminology.

SP

See Service Provider.

SSL (Secure Sockets Layer Protocol)

An Internet protocol (originally developed by Netscape Communications, Inc.) that uses connection-oriented end-to-end encryption to provide data confidentiality service and data integrity service for traffic between a client (often a Web browser) and a server and that can optionally provide peer entity authentication between the client and the server. See Transport Layer Security. [RFC2828].

SSO

See single sign-on.

SSOS, SSO Service

See Single Sign-On Service.

SSOS Provider, SSO Service Provider

See Single Sign-On Service Provider.

system 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 [SAMLGloss].

Liberty Alliance Project
TLS (Transport Layer Security Protocol)
An evolution of the SSL protocol. The TLS protocol provides communications privacy over the Internet. The protocol allows client/server applications to communicate in a way that is designed to prevent eavesdropping, tampering, or message forgery. See [RFC2246].

token
See security token.

trust circle
See Circle of Trust.

Trusted Authority
In Liberty, a Trusted Third Party (TTP) which issues and vouches for assertions, otherwise known as an Identity Provider.

Trusted Third Party
In general, a security authority or its agent, trusted by other entities with respect to security-related activities. In the context of Liberty, these other entities are, for example, Principals and Service Providers, and the trusted third party is typically the Identity Provider(s) involved in the particular interaction of interest.

TTP
See Trusted Third Party

URI (Uniform Resource Identifier)
A compact string of characters for identifying an abstract or physical resource. [RFC2396] defines the generic syntax of URIs. URNs and URLs are proper subsets of URIs.

URL (Uniform Resource Locator)
URLs identify resources via a representation of their primary access mechanism (e.g., their network location) rather than identifying the resource by name or by some other attributes of that resource [RFC2396]. URLs are a proper subset of URIs.

URN (Uniform Resource Name)
Persistent, location-independent, resource names with delegatable sub-namespaces, termed Uniform Resource Name (URN) Namespaces [RFC2141]. Liberty’s URN Namespace is defined in [RFC3622]. URNs are a proper subset of URIs.

user agent
Software that a "natural person" interacts with directly. A user agent typically implements a user interface.

user interface
The controls (such as menus, buttons, prompts, etc.) and mechanisms (such as selection and focus) provided by, e.g., a user agent.

web service
(1) Generically, a service defined in terms of an XML-based protocol, often transported over SOAP, and/or a service whose instances, and possibly data objects managed therein, are concisely addressable via URIs. Such a generic web service (gWS) may be defined in various proprietary and/or standardized terms, e.g. security paradigms.

(2) As specifically used in Liberty specifications, usually in terms of WSCs and WSPs, it means a web service that’s defined in terms of the ID-* "stack", and thus utilizes [LibertySOAPBinding], [LibertySecMech], and is "discoverable" [LibertyDisco].

Web Service Consumer
A role donned by a system entity when it makes a request to a web service.
Web Services Description Language
A means to describe the interface of a Web service. See [WSDLv1.1].

Web Service Provider
A role donned by a system entity when it provides a web service.

WML (Wireless Markup Language)
A markup language based on XML and intended for use in specifying content and user interface for narrowband devices, including cellular phones and pagers.

WSC
See Web Service Consumer.

WSDL
See Web Services Description Language.

WSP
See Web Service Provider.

X.509 token
A X.509 token is a type of security token containing an X.509 public key certificate.

XML (eXtensible Markup Language)
A W3C technology for encoding information and documents for exchange over the Web. See [XML], [XMLCanon], [XMLDsig], [xmlenc-core], [Schema1] and [Schema2]
References

Normative


http://www.nap.edu/readingroom/books/trust/

http://www.w3.org/TR/2000/REC-xml-20001006


Informative


