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AuthnNotification,
AuthnAcknowlegment,
AuthnRequest,
AuthnResponse,
AuthnQuery,
AuthnResult and
Ref(AuthnNotification).
There are seven authorization data structures:
AuthzNotification,
AuthzAcknowlegment,
AuthzRequest,
AuthzResponse,
Figure 1-Model
There are seven authentication data structures:

Figure 1 indicates which elements of the model communicate with which other elements.

unlimited length between the Primary Domain and the Secondary Domain, and when the

 Protocol exchanges
Discovery of services in a remote domain is outside the scope of this specification. symmetric-key challenge/response pair, an asymmetric-key challenge/response pair or a
document/signature pair. authenticator may be in any one of a number of forms, including a password, a Authentication Authority in the Principal's Primary Domain, and a Principal name. The However, it is a requirement of this step that it provide a posited name for the Principal authenticates itself to the Policy Enforcement Point is not defined in this specification. The Ref(AuthnNotification) data structure is defined in the Bindings section of the
specification, not in this, the Protocols, section. The step in which the Principal current version of the specification variables appropriate to the policy. These two data structures are out of scope for the authorization policy definition appropriate to the specified action and the environmental described; the authorization and session data structures are used in an analogous fashion.
In the authorization variants, the Policy Decision Point is responsible for obtaining the For the purpose of explaining the model, only the authentication protocols will be

SessionResult and $\operatorname{Ref}$ (SessionNotific ‘Kınðろuo!ssas 'əsuodsəyuolssas 'ssənbəyuo! ssas



 AuthzResult and

 without being directed by the Primary Domain
 Pull protocol
The Policy Decision Point authenticates the Principal and returns the result to the
Policy Enforcement Point in an AuthnResult message.
 5. The Policy Decision Point sends a request for the name assertion to the
Authentication Authority in the Primary Domain in the AuthnRequest message.








Figure 3- Principal-centered indirect protocol

Princt
It proceeds by the following steps.

1. The Principal conducts an authentication exchange with the Policy Enforcement
Point. As before, the Policy Enforement Point is not capable of completing the
authentication without the help of the Policy Decision Point.
2. The Policy Enforcement Point sends the posited name and the authenticator to the
Policy Decision Point in the AuthnQuery message.
3. The Porcement
Point


Figure 7 shows the Secondary Domain session-close protocol. Secondary domain session-close protocol
with the Policy Decision Point before processing each exchange between itself and the
Principal. In this way, the session closure will be effective immediately. Note: the Policy Enforcement Point should confirm the session status of the Principal


4. The Principal closes the existing session with the Authentication Authority.


Domain session-close protocol
This protocol may be used to notify Secondary Domains when a Principal logs off in the
Primary Domain. Primary domain session-close protocol
returns the result to the Policy Enforcement Point in an AuthnResult message.

 Policy Decision Point in an AuthnQuery message.



 2. The Policy Decision Point sends an acknowledgment for the name assertion to the 1. The Authentication Authority sends a name assertion in an AuthnNotification
message to the Policy Decision Point in the Secondary Domain. It proceeds by the following steps.


#  <br>  


 The AuthnAcknowlegment message is used in the Push protocol for the Policy Decision AuthnAcknowlegment Principal．It also includes validity dates and authentication information（e．g．a public
key）． Note：the name assertion contains identifiers for the Authentication Authority and the

 intended－receiver－the name of the receiver，as agreed between the sender and ．далрәәал sender－the name of the sender，as agreed between the sender and receiver during
initialization．It must be unique among all the sender names recognized by the

notification－identifier－an identifier assigned by the message originator．It must
be unique among all the outstanding AuthnNotification messages． version－this specification version number． Decision Point．It contains the following information． protocol to send the name assertion from the Authentication Authority to the Policy protocol to send the name assertion from the Authentication Authority to the Principal The AuthnNotification message is used in the Principal－centered direct authentication AuthnNotification
Schema for the data structures can be found in the Schema section of this specification． session status，it must conduct separate protocols for each．However，these separate
protocols may proceed in parallel． exchanges．If an entity needs information on any combination of name，entitlements and Note：there are separate data structures for authentication，authorization and session sam！วпnя ełea

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 The AuthzRequest message is used in the Principal－centered indirect protocol and the AuthzRequest error－code－error code． AuthzNotification message success－indicator－an indication of whether the receiver was able to process the


 The AuthzAcknowlegment message is used in the Push protocol for the Policy Decision AuthzAcknowlegment

Note：the entitlement assertion contains an identifier for the Authorization Authority and
a reference to the associated Principal name－assertion．It also contains validity dates． recognized by the sender． receiver during initialization．It must be unique among all the receiver names ．Іәлюวә，

 entitlement－assertion－the entitlement assertion．



Policy Decision Point．It contains the following information． Push protocol to send the entitlement assertion from the Authorization Authority to the protocol to send the entitlement assertion from the Authorization Authority to the
Principal and from the Principal to the Policy Enforcement Point．It is also used in the The AuthzNotification message is used in the Principal－centered direct authorization

AuthnQuery
error code


request－identifier－the request identifier supplied in the corresponding
AuthnRequest message．
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success indicator

version－this specification version number．
and Push protocols for the Policy Decision Point to return the result of the authentication
of the Principal to the Policy Enforcement Point． This protocol is used in the Principal－centered direct and indirect protocols and the Pull AuthnResult combination，a symmetric－key challenge／response combination，an asymmetric－
key challenge response combination or a document／signature combination．
name－assertion－the name assertion．Optional．
reference to name assertion－a reference to a name assertion．Optional，at least
one of＂posited name＂，＂name assertion＂or＂reference to name assertion＂must be
present． Enforcement Point and the Principal．This may be a user－name／password authenticator－the data used in the authentication exchange between the Policy
 request－identifier－an identifier assigned by the message originator．It must be
unique among all the outstanding AuthnQuery messages．
version－this specification version number．
to perform the authentication of the Principal． and Push protocols for the Policy Enforcement Point to request the Policy Decision Point This protocol is used in the Principal－centered direct and indirect protocols and the Pull

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session-assertion - the session assertion.
notification-identifier - an identifier assigned by the message originator. It must
be unique among all the outstanding SessionNotification messages.
version - this specification version number.
information.




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and Push protocols for the Policy Decision Point to return the result of the authorization
of the Principal to the Policy Enforcement Point.
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 principal name - the authenticated or claimed name of the Principal. Optional.
Must be identical to the posited name in any accompanying AuthnQuery message.
 unique among all the outstanding AuthzQuery messages.


# principal name - the name of the Principal. Optional. 

unique among all the outstanding SessionRequest messages.


Pull protocol for the Policy Decision Point to request the session assertion from the
Session Authority. It contains the following information. The SessionRequest message is used in the Principal-centered indirect protocol and the tsenbəyuo!ssəs
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The following error codes shall be supported.
error-code - error code.
SessionNotification message.
success-indicator - an indication of whether the receiver was able to process the

version - this specification version number.
protocols to acknowledge that the session with the Principal has been closed. It contains
the following information. Point to acknowledge receipt of the session assertion from the Session Authority. II is
also used in the Primary Domain session close and Secondary Domain session close The SessionAcknowlegment message is used in the Push protocol for the Policy Decision SessionAcknowlegment

 recognized by the sender. intended-receiver - the name of the receiver, as agreed berween the sien names
 sender - the name of the sender, as agreed between the sender and receiver during
initialization. It must be unique among all the sender names recognized by the

The exchange of Authority keys, certificates and certificate status information between
domains is out of scope for this specification. authenticity. Mechanisms other than XML Digital Signature may be used for this latter
purpose. mechanism. In addition, all protocol exchanges must be protected for integrity and With the exception of the session assertion in the SessionResult message, all assertions
must be protected for integrity and authenticity using the XML Digital Signature Security considerations the XML Digital Signature mechanism, signed by the Policy Decision Point. Note: the session assertion returned in the SessionResult message may be integrityerror code success indicator session assertion
request-identifier - the identifier from the corresponding SessionQuery message. version - this specification version number. and Push protocols for the Policy Decision Point to return the result of the status
evaluation of the Principal to the Policy Enforcement Point. This protocol is used in the Principal-centered direct and indirect protocols and the Pull SessionResult
reference to session assertion - a reference to a session assertion. Optional, at
least one of "principal name", "session assertion" or "reference to session
assertion" must be present.

