

Mapping WSPL to XACML components

XACML component	xacml:Target	Combining algorithm or function Id.	Description
PolicySet	xacml:Subjects = AnySubject xacml:Resources = wsld:port	Deny-overrides	A set of policies, all of which must be satisfied. See Note 1.
Policy	xacml:Actions = wsdl:operation xacml:Subjects = AnySubject xacml:Resources = AnyResource	Permit-overrides	A set of rules, at least one of which must be satisfied. See Note 2.
Rule	xacml:Actions = objective xacml:Subjects = AnySubject xacml:Resources = AnyResource	Deny-overrides	A single condition. See Note 3.
Condition	xacml:Actions = strategy	urn:oasis:names:tc:xacml:1.0:function:and	A set of predicates, all of which must be satisfied. See Note 4.

Note 1. A policy set is the set of all policies that govern all aspects of a service, including WS-Security, WS-Reliability, authorization, privacy, etc.. It contains the conjunctive set of *objectives* for the service. In the WSDL binding, the policy set should be referenced from the wsdl:operation to which it applies by means of the PolicySetId. Users of the PolicySet should confirm that the port and operation identified in the PolicySet target element are the ones for which access is sought. The special values AnyResource and AnyAction may be used if the policy set is not confined to a particular port or operation.

Note 2. A policy is a single *objective* for a single aspect of a service. It contains the disjunctive set of *strategies* governing the service. The policy should either be contained in a PolicySet or referenced from it by means of the PolicyId. Standards bodies that make use of this approach must define a set of identifiers for the *objectives* that are applicable to their domain.

Note 3. A rule is a single *strategy* governing a single aspect of a service. It contains the conjunctive set of *predicates* governing the service. The rule should either be contained in a Policy or referenced from it by means of the RuleId. Standards bodies that make use

of this approach must define a set of identifiers for the *strategies* that are applicable to their domain.

Note 4. A condition is the component of a rule that contains a conjunctive set of *predicates*. Standards bodies that make use of this approach must define a set of identifiers for the *predicates* that are applicable to their domain.