

Action 338:

<http://www.w3.org/2005/06/tracker/wspolicy/actions/338>

Primer reference :

<http://www.w3.org/TR/2007/WD-ws-policy-primer-20070810/#compatible-policies>

UPDATED DRAFT CHANGES:

SECTION 3.4

...Two policy alternatives are compatible if each policy assertion in one alternative is compatible with a policy assertion in the other and vice-versa. For example, policy assertions (c1) and (c2) in Company-X's policy alternative (Example 3.6) are compatible with policy assertions (t2) and (t1) in the client's policy alternative (Example 3.7). Company-X's policy alternative (a) [illustrated in Example 3.6] and the client's policy alternative (illustrated in Example 3.7) are compatible, because assertions in these two alternatives are compatible.

Two policies are compatible if a policy alternative in one is compatible with a policy alternative in the other. For example, Company-X's policy alternative (a) is compatible with the client's policy alternative. Company-X's policy and the client's policy are compatible because one of Company-X's policy alternative [labeled policy alternative (a) in Example 3.6] is compatible with the client's policy alternative.

[add] Consider a similar scenario between Company X and the client where compatible nested policy expressions exist in the policy alternatives. The nested policy expressions are evaluated in the context of their parent policy assertions in policy intersection. For example, take these two policies:

Example 3.8 Company X Nested compatible policy example

```
Company X
<wsp:Policy>
  <wsp:ExactlyOne>
    <xx:Assertion A>
      <wsp:Policy> <!-- Nested policy 1 -->
        <wsp:ExactlyOne>
          <xx:Assertion B> <!-- Nested alternative -->
          <xx:Assertion C>
        </wsp:ExactlyOne>
      </wsp:Policy>
    <xx:Assertion E>
      <wsp:Policy> <!-- Nested policy 2 -->
        <wsp:ExactlyOne>
          <xx:Assertion B> <!-- Nested alternative -->
          <xx:Assertion C>
        <wsp:ExactlyOne>
      </wsp:Policy>
    </wsp:ExactlyOne>
  </wsp:Policy>
```

Example 3.9 Client Nested compatible policy example

```
Client
<wsp:Policy>
  <xx:Assertion A>
    <wsp:Policy> <!-- Nested policy 3 -->
      <xx:Assertion B> <!-- Nested alternative -->
    </wsp:Policy>
  </wsp:Policy>
```

In this scenario, Assertion B is compatible in the nested policy expressions of the policy alternatives that exist in the parent and client policies for Assertion A (illustrated in Examples 3.8 and 3.9 in Nested policy 1 and 3). The nested policy expression that contains Assertion B that exists in parent policy Assertion E (illustrated in Example 3.8 in Nested policy 2), has a different top level QName. Therefore, the nested policy expression Assertion B in the parent policy Assertion E is not compatible.

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