7.2 GetRegistryEntry DTD's

Purpose

To obtain selected registry metadata associated with one or more registry entries, by submitting a RegistryEntryQuery to the registry/repository that holds the registry entries.

NOTE: Initially, the RegistryEntryQuery is a single AssignedURN!

Definition

Request DTD

```
<!ELEMENT GetRegistryEntry
  (         RegistryEntryQuery,
     (      WithClassifications
          | WithAssociations
          | WithExternalData
          | WithAlternateNames
          | WithContributions
          | WithDescriptions )*   )>

<!ELEMENT WithClassifications  EMPTY >
<!ELEMENT WithAssociations     EMPTY >
<!ELEMENT WithExternalData     EMPTY >
<!ELEMENT WithAlternateNames   EMPTY >
<!ELEMENT WithContributions    EMPTY >
<!ELEMENT WithDescriptions     EMPTY >
```

Response DTD

```
<!ELEMENT GetRegistryEntryResult
     ( RegistryMetadataInstance*,  StatusResult )>
```

Semantic Rules

1. Execute the RegistryEntryQuery according to the Semantic Rules of RegistryEntryQuery specified in Section 7.4.1. Let R be the set of RegistryEntryReference elements returned by the RegistryEntryQResult and let S be the set of status elements returned in the StatusResult. If any status element in S is an exception condition, then stop execution and return the same StatusResult element in the GetRegistryEntryResult.

2. If the set R is empty, then do not return a RegistryMetadataInstance subelement in the GetRegistryEntryResult. Instead, raise the warning: *no resulting registry entry*. Add this warning to the StatusResult returned by the RegistryEntryQResult and return this enhanced StatusResult with the GetRegistryEntryResult

3. For each registry entry E referenced by an element of R, use the attributes of E to create a new RegistryEntryInstance element as defined in Section 6.1. Then create a new RegistryMetadataInstance element as defined in Section 6.16.

4. If no With option is specified, then the resulting RegistryEntryInstance element has no Classification, Association, ExternalData, AlternateName, Contribution, or Description subelements. The set of RegistryMetadataInstance elements, with the StatusResult from the RegistryEntryQResult, is returned as the GetRegistryEntryResult.

5. If WithClassifications is specified, then for each E and for each Classification instance C linked to E, and for each LevelValuePair instance linked to C, create a new Classification element as defined in Section 6.3. Add these Classification elements to their related RegistryEntryInstance as defined in Section 6.16.

6. If WithAssociations is specified, then for each E and for each Association instance A linked to E, create a new Association element as defined in Section 6.2. Add these Association elements to their related RegistryEntryInstance as defined in Section 6.16.

7. If WithExternalData is specified, then for each E and for each ExternalData instance D linked to E, create a new ExternalData element as defined in Section 6.4. Add these ExternalData elements to their related RegistryEntryInstance as defined in Section 6.16.

8. If WithAlternateNames is specified, then for each E and for each AlternateName instance N linked to E, create a new AlternateName element as defined in Section 6.7. Add these AlternateName elements to their related RegistryEntryInstance as defined in Section 6.16.

9. If WithContributions is specified, then for each E and for each Contribution instance C linked to E, create a new Contribution element as defined in Section 6.9. Add these Contribution elements to their related RegistryEntryInstance as defined in Section 6.16.

10. If WithDescriptions is specified, then for each E and for each Description instance D linked to E, create a new Description element as defined in Section 6.8. Add these Description elements to their related RegistryEntryInstance as defined in Section 6.16.

11. If any warning or exception condition results, then add the code and the message to the StatusResult that came from the RegistryEntryQResult.

12. Return the set of RegistryMetadataInstance elements and the revised StatusResult as the GetRegistryEntryResult.