LexEVS Asserted Value Set Search Extension

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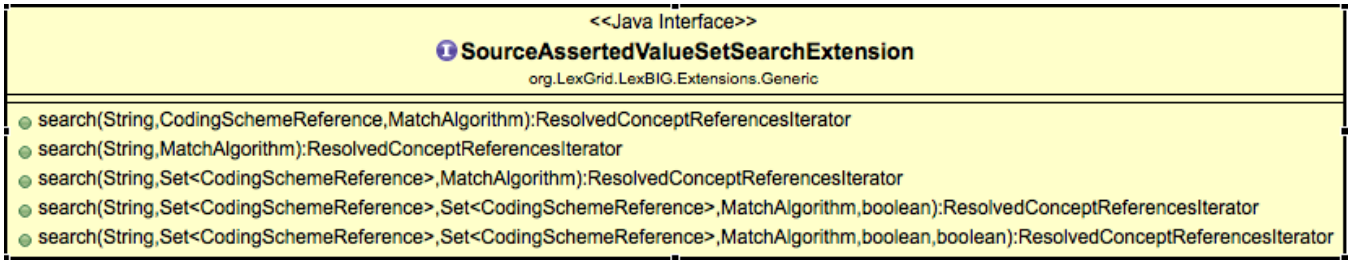
Introduction

The Asserted Value Set Search is an extension of the LexEVS API. It provides extended options value set searches

- Text Match
- Search Algorithm Choices
- Coding Scheme Restrictions for both original source and target value set
- Boolean flags for anonymous or active designations on the entity

SourceAssertedValueSetSearchExtension Class Diagram



LexEVS Asserted Value Set Search API

LexEVS Asserted Value Set Search Services provides search methods with a variety of inputs

- Text to Match: unique identifier, presentation, or property value.
- Algorithm for Match: exact match, contains, lucene query parser type search
- Coding Scheme Reference: reference to source scheme(s)
- Coding Scheme Reference: reference to coding scheme representation of a value set
- Boolean: includes anonymous nodes
- Boolean: includes inactive nodes

Asserted Value Set Search

```
search
```

Description:	Lists matching concept reference based on property or presentation text or other matching criteria

Input:	*String textMatch:* Matching text for presentation, property or unique identifier (code) *Set<CodingSchemeReference> (optional):* Coding scheme representation of asserted value set reference *Set<CodingSchemeReference> (not implemented):* Resolved Value Sets to Include in search*, currently can be included in the asserted group* *MatchAlgorithm value:* Generally exact or contains matches on text from property, presentation, or code *boolean isAnonymous (optional):* Anonymous is normally excluded set to true if you want these included *boolean isActive (optional):* Inactive entities are normally excluded but can be flagged for inclusion
Output:	ResolvedConceptRefenerencesIterator: Iterator over ResolvedConceptRefernences retrieved from the value set
Exception:	*LBException*
Implementation Details:	***Implementation:*** Call this method on the on the search extension to query indexes of asserted value sets ***Sample Call:***

- *Step 1:* Instantiate SourceAssertedValueSetSearchExtension if it is not done yet:

```
    LexBIGService lbsvc;
    SourceAssertedValueSetSearchExtensionImpl assertedVSsvc;
    lbsvc = LexBIGServiceImpl.defaultInstance();
    assertedVSsvc = (SourceAssertedValueSetSearchExtensionImpl) lbsvc
                .getGenericExtension("AssertedValueSetSearchExtension");
```

- *Step 2:* List all the coding scheme representations of the value sets

```
//Instantiate a relevant value set coding scheme reference
Set<CodingSchemeReference> refs = new HashSet<CodingSchemeReference>();
CodingSchemeReference r = new CodingSchemeReference();
r.setCodingScheme("http://evs.nci.nih.gov/valueset/FDA/C111112");
refs.add(r);
//Resolve a set of results as an iterator
ResolvedConceptReferencesIterator itr = assertedVSsvc.
     search("red", refs, null,
      MatchAlgorithm.PROPERTY_EXACT, false, false);
```