

7 - LexEVS 5.x Data Grid Service API

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Introduction

This document is a section of the [LexEVS 5.x Programmer's Guide](#).

The LexEVS Data Grid Service is a standard caGrid Data service based on the [LexEVS 2009 Model](#).

For complete documentation on caGrid Data Services, see [caGrid Data Service Documentation](#).

Querying The System

To query the LexEVS Data Grid Service, use the standard caGrid CQL query method to compose queries. See [caGrid Data Service API Documentation](#) for more information.

Example LexEVS queries follow.

Query for a Concept with a Specific Code

- Example: Concept: C12345

Java Code Snippet

```
<CQLQuery xmlns="http://CQL.caBIG/1/gov.nih.nci.cagrid.CQLQuery">
  <Target name="org.LexGrid.concepts.Concept">
    <Attribute name="_entityCode" value="C12345" predicate="EQUAL_TO"/>
  </Target>
</CQLQuery>
```

Query for a Concept with a Specific Presentation Text

- Example: A concept with a namespace 'SNOMED Clinical Terms' that contains a Presentation equal to 'Heart'

Java Code Snippet

```
<ns1:CQLQuery xmlns:ns1="http://CQL.caBIG/1/gov.nih.nci.cagrid.CQLQuery">
  <ns1:Target name="org.LexGrid.concepts.Entity">
    <ns1:Group logicRelation="AND">
      <ns1:Association name="org.LexGrid.concepts.Presentation" roleName="_presentationList">
        <ns1:Group logicRelation="AND">
          <ns1:Association name="org.LexGrid.commonTypes.Text" roleName="_value">
            <ns1:Group logicRelation="AND">
              <ns1:Attribute name="_content" predicate="EQUAL_TO" value="Heart"/>
            </ns1:Group>
          </ns1:Association>
        </ns1:Group>
      </ns1:Association>
    </ns1:Group>
    <ns1:Attribute name="_entityCodeNamespace" predicate="EQUAL_TO" value="SNOMED Clinical Terms"/>
  </ns1:Target>
</ns1:CQLQuery>
```

Restrict Results to Specific Attributes

- Example: Retrieve all of the 'localIds' of any 'SupportedAssociation' in the system.

Java Code Snippet

```
<ns1:CQLQuery xmlns:ns1="http://CQL.caBIG/1/gov.nih.nci.cagrid.CQLQuery">
  <ns1:Target name="org.LexGrid.naming.SupportedAssociation"/>
  <ns1:QueryModifier countOnly="false">
    <ns1:DistinctAttribute>_localId</ns1:DistinctAttribute>
  </ns1:QueryModifier>
</ns1:CQLQuery>
```