

# LexEVS Java RMI Code Examples

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## Code Files

### Distributed Coding Scheme List

## Java Code Snippet

```
import org.LexGrid.LexBIG.DataModel.Collections.CodingSchemeRenderingList;
import org.LexGrid.LexBIG.DataModel.InterfaceElements.CodingSchemeRendering;
import org.LexGrid.LexBIG.Exceptions.LBInvocationException;
import org.LexGrid.LexBIG.caCore.interfaces.LexEVSAApplicationService;
import org.LexGrid.LexBIG.caCore.interfaces.LexEVSDistributed;
import org.LexGrid.LexBIG.caCore.interfaces.LexEVSService;

import gov.nih.nci.system.client.ApplicationServiceProvider;

public class RemoteTestClient {

    private String serviceUrl = "https://lexevsapi65.nci.nih.gov/lexevsapi65";
    private LexEVSService lexevsService;

    public static void main(String args[]) throws Exception {
        RemoteTestClient client = new RemoteTestClient();
        client.queryLexEVSDistributed();
    }

    public RemoteTestClient() throws Exception {
        lexevsService = (LexEVSAApplicationService)ApplicationServiceProvider
            .getApplicationServiceFromUrl(serviceUrl, "EvsServiceInfo");
    }

    public void queryLexEVSDistributed() throws LBInvocationException {
        LexEVSDistributed distributedSvc = lexevsService;
        CodingSchemeRenderingList csrl = distributedSvc.getSupportedCodingSchemes();
        CodingSchemeRendering[] csr = csrl.getCodingSchemeRendering();
        for(int i=0;i<csr.length;i++){

            System.out.println("\t\tOutput: " + "Coding Scheme: " + csr[i].getCodingSchemeSummary().
getLocalName());
            System.out.println("\t\tOutput: " + " -- Version: " + csr[i].getCodingSchemeSummary().
getRepresentsVersion());
            System.out.println("\t\tOutput: " + " -- URI: " + csr[i].getCodingSchemeSummary().
getCodingSchemeURI());
        }
    }

}
```

## Resolve Coding Scheme

```

import org.LexGrid.LexBIG.LexBIGService.LexBIGService;
import org.LexGrid.LexBIG.Utility.Constructors;
import org.LexGrid.LexBIG.caCore.interfaces.LexEVSApplicationService;
import org.LexGrid.codingSchemes.CodingScheme;

import gov.nih.nci.system.client.ApplicationServiceProvider;

public class Test {

    LexBIGService lbSvc;

    public void run(String codingScheme, String version) {
        // Set the LexEVS URL (for remote access)
        String evsUrl = "https://lexevsapi65.nci.nih.gov/lexevsapi65";

        // Get the LexBIG service reference from LexEVS Application Service
        try {
            lbSvc = (LexEVSApplicationService) ApplicationServiceProvider.getApplicationServiceFromUrl(evsUrl,
                "EvsServiceInfo");
        } catch (Exception e1) {
            e1.printStackTrace();
        }
        // Resolve Scheme
        try {
            CodingScheme scheme = lbSvc.resolveCodingScheme(codingScheme,
                Constructors.createCodingSchemeVersionOrTagFromVersion(version));
            if(scheme != null) {
                System.out.println("Found scheme: " + scheme.getCodingSchemeName());
            } else {
                System.out.println("Scheme not found: " + codingScheme);
            }
        } catch (Exception e) {
            e.printStackTrace();
        }
    }

    /**
     * Main
     */
    public static void main(String[] args) {
        String name = "NCI Thesaurus";
        String version = "18.03d";

        new Test().run(name, version);
    }
}

```

## Coded Node Set Snippet

### Java Code Snippet

```

LexBIGService lbs = (LexBIGService)ApplicationServiceProvider.getApplicationServiceFromUrl(serviceUrl,
"EvsServiceInfo");
CodedNodeSet cns = lbs.getCodingSchemeConcepts(
    String codingScheme,
    org.LexGrid.LexBIG.DataModel.Core.CodingSchemeVersionOrTag);

```

## Coded Node Graph Snippet

#### Java Code Snippet

```
LexBIGService lbs = (LexBIGService)ApplicationServiceProvider.getApplicationServiceFromUrl(serviceUrl,
"EvServiceInfo");
CodedNodeGraph cng = lbs.getNodeGraph(
    String codingScheme,
    org.LexGrid.LexBIG.DataModel.Core.CodingSchemeVersionOrTag,
    String relationsContainerName (Optional));
```