

# LexEVS 6.x Value Set GUI

## Contents of this Page

- [Introduction](#)
- [How to Get This Tool](#)
- [Major Functions Available](#)
- [Configuration](#)
- [Load Function](#)
  - [Loading Value Set Definition](#)
  - [Loading Pick List Definition](#)
- [Display Definition Details](#)
  - [Display Value Set Definition Details](#)
  - [Display Pick List Definition Details](#)
- [Exporting](#)
  - [Exporting Value Set Definition](#)
  - [Exporting Expanded Value Set \(Value Set Resolution\)](#)
  - [Exporting Pick List Definition](#)
- [Resolution](#)
  - [Value Set Resolution](#)
  - [Pick List Resolution](#)
- [Query Functions](#)
  - [Value Set Definition by Concept Domain](#)
  - [Value Set Definition by Coding Scheme](#)
  - [Value Set Definition by Value Set Definition Name](#)
  - [Value Set Definition is Sub Set](#)
  - [Value Set Definition has Entity Code](#)
  - [Value Set Definition for Entity Term](#)
- [Authoring](#)
  - [Creating Value Set Definition](#)
  - [Editing Value Set Definition](#)
    - [Adding Definition Entry](#)
      - [Adding Coding Scheme Reference](#)
      - [Adding Value Set Definition Reference](#)
      - [Adding Entity Reference](#)
      - [Adding Property Reference](#)
      - [Editing Definition Entries](#)
      - [Removing Definition Entries](#)
      - [Adding Properties](#)
      - [Adding Property Qualifier](#)
      - [Editing Property](#)
      - [Editing Property Qualifier](#)
      - [Removing Property Qualifier](#)
      - [Removing Property](#)

## LexEVS Value Set Links

- [Value Set Guide Main Page](#)
  - [Value Set Design](#)
  - [Value Set Service API](#)
  - [Pick List Design](#)
  - [Pick List Service API](#)
  - [Value Set GUI](#)
- [Programmer's Guide Main Page](#)
- [LexEVS 6.0 Main Page](#)
- [LexEVS Current Release](#)

## Introduction

Value Sets Graphical User Interface (VS GUI) is developed using java SWT widgets to help developers/testers to quickly and easily test many of the functions available in LexEVS Value Sets services. This tool is included in LexEVS install package.



### Note

This tool is never intended for use in real time production as an interface for LexEVS Value Sets services.

## How to Get This Tool

As mentioned earlier, this tool will be downloaded when LexEVS package is installed. The start scripts can be found at <LexEVS install directory /gui/.

Different start scripts will be downloaded based on operating system selected during install:

- Windows-lbVSGUI.bat – for Windows
- Linux-lbVSGUI.sh – for Linux
- OSX-lbVSGUI.command – for OS

## Major Functions Available

- Loading
- Display Definition
- Display Resolution
- Resolving
- Querying/Filtering
- Exporting
- Deleting
- Creating
- Authoring

Each of these function are described in following sections.

## Configuration

Prior to using this tool, LexEVS instance should be configured properly. File lbconfig.props located at <LexEVS install directory >/resources /config/ should be set up properly, specially the database URL, driver, username and password.

## Load Function

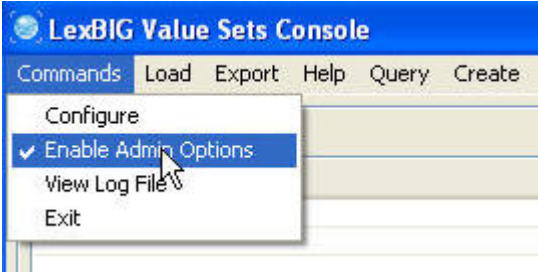
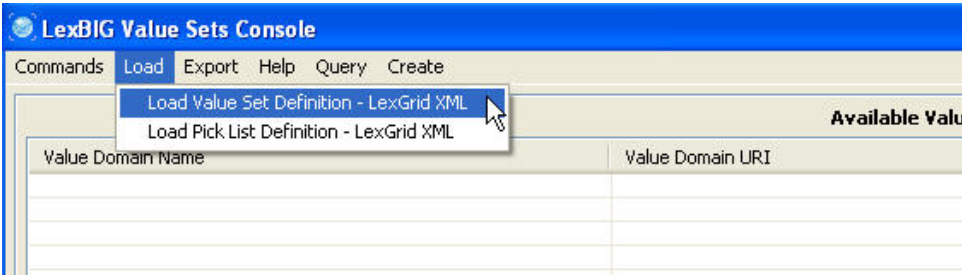
Using this tool, you can load Value Set Definition(s) or Pick List Definition(s) from an XML file. The contents should confirm to LexGrid [valuesets.xsd](#) schema.

Before you start loading any definitions, make sure you have configured the LexEVS instance properly as described above under 'Configuration' section of this document.

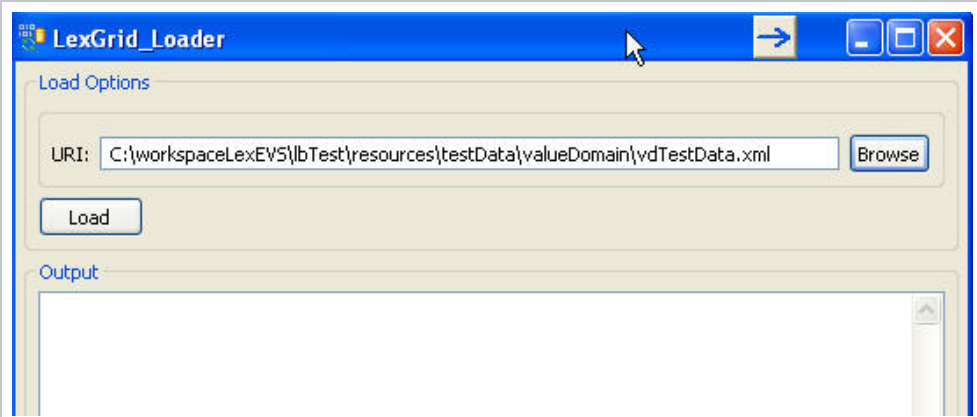
### Loading Value Set Definition

This function allows you to load Value Set Definition contents from XML file that is in LexGrid format (ie. The contents confirms to LexGrid [valuesets.xsd](#) schema).

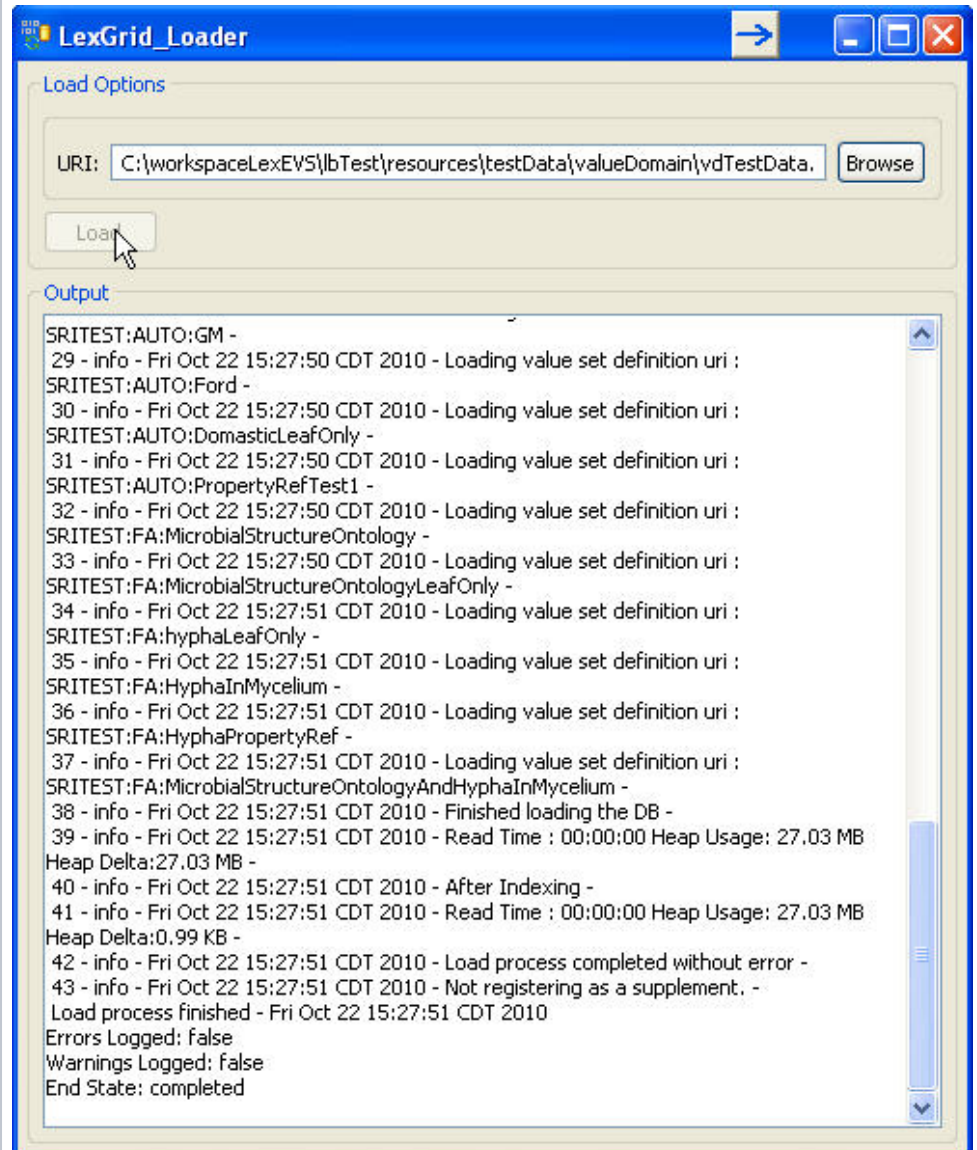
You can find a test data in <LexEVS install directory>/test/resources/testData/valueDomain/vdTestData.xml, that can be used to load for testing purpose.

Step	Action
1. Make sure to check 'Enable Admin Options' in 'Commands' menu.	
2. Select 'Load Value Set Definition – LexGrid XML' from 'Load' menu.	

3. A separate window will open to select a file to load. Select a file to load.



4. Click 'Load' button. Status of load process will be displayed as the data is getting loaded. If everything goes well, you should see 'Errors Logged: false' and 'End State: completed' at the bottom of the status output.



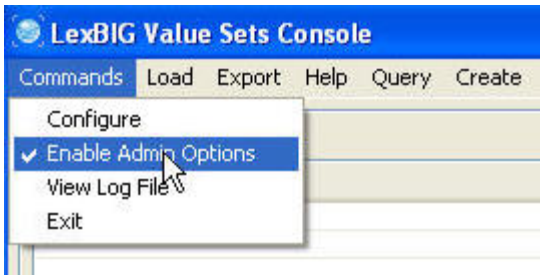
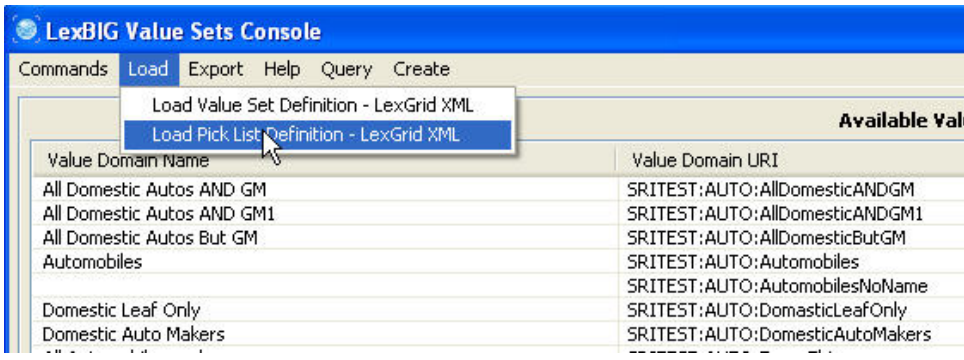
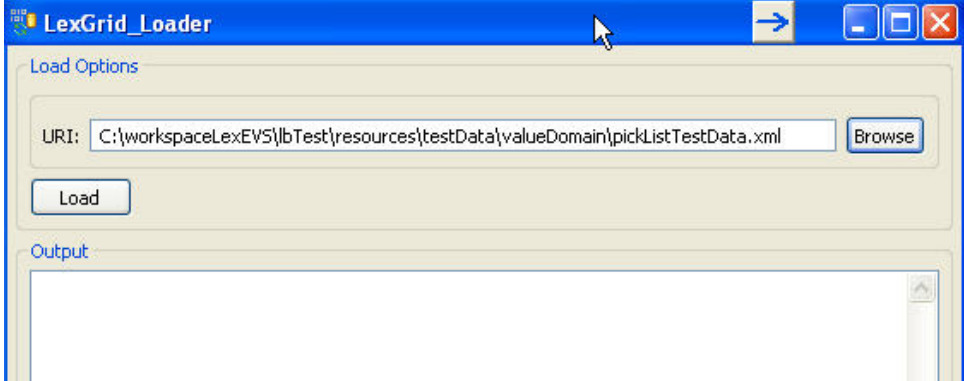
5. Value Set Definitions loaded should be displayed on the main console under 'Available Value Set Definitions'.

Available Value Set Definitions				
Value Domain Name	Value Domain URI	Default Coding Scheme	Concept Domain	
All Domestic Autos AND GM	SRITEST:AUTO:AllDomesticANDGM	Automobiles		Resolve
All Domestic Autos AND GM1	SRITEST:AUTO:AllDomesticANDGM1	Automobiles		Display Details
All Domestic Autos But GM	SRITEST:AUTO:AllDomesticButGM	Automobiles		Refresh
Automobiles	SRITEST:AUTO:Automobiles	Automobiles	Autos	Remove
Domestic Leaf Only	SRITEST:AUTO:DomesticLeafOnly	Automobiles		
Domestic Auto Makers	SRITEST:AUTO:DomesticAutoMakers	Automobiles	Autos	
All Automobiles nodes	SRITEST:AUTO:Everything	Automobiles	Autos	
Ford	SRITEST:AUTO:Ford	Automobiles		
GM	SRITEST:AUTO:GM	Automobiles		
Property Reference Test 1	SRITEST:AUTO:PropertyRefTest1	Automobiles		
Property Ref Test General OR Focus	SRITEST:AUTO:PropertyRefGeneralORFocus	Automobiles		
hypha in mycelium	SRITEST:FA:HyphaInMycelium	funungal_anatomy		
hypha leaf only	SRITEST:FA:HyphaLeafOnly	funungal_anatomy		
Property match value - hypha	SRITEST:FA:HyphaPropertyRef	funungal_anatomy		
microbial structure ontology	SRITEST:FA:MicrobialStructureOntology	funungal_anatomy		
microbial structure ontology AND HyphaInMycelium	SRITEST:FA:MicrobialStructureOntologyAndHyphaInMycelium	funungal_anatomy		
microbial structure ontology leaf only	SRITEST:FA:MicrobialStructureOntologyLeafOnly	funungal_anatomy		

## Loading Pick List Definition

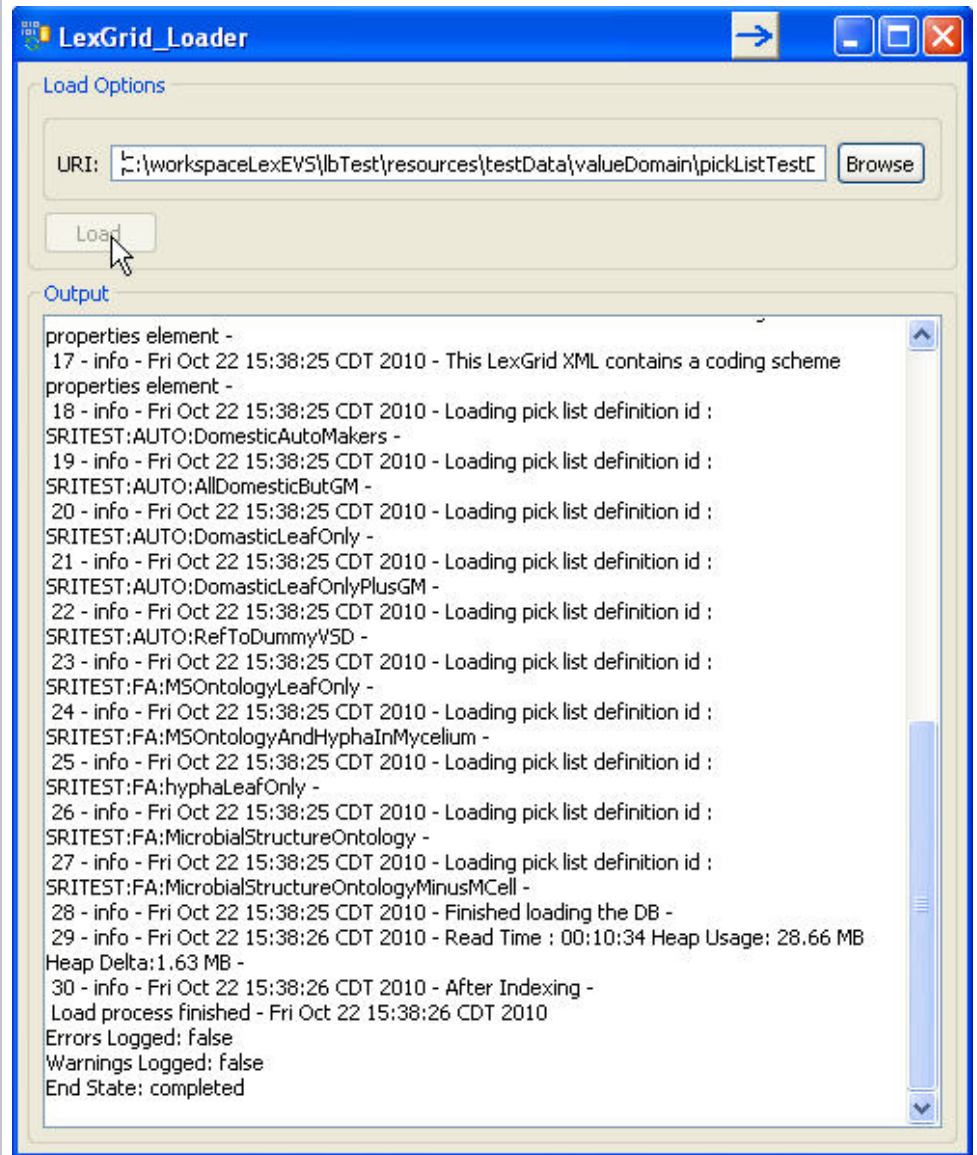
This function allows you to load Pick List Definition contents from XML file that is in LexGrid format (ie. The contents confirms to LexGrid [valuesets.xsd](#) schema).

You can find a test data in `<LexEVS install directory>/test/resources/testData/valueDomain/pickListTestData.xml`, that can be used to load for testing purpose.

Step	Action
1. Make sure to check 'Enable Admin Options' in 'Commands' menu.	
2. Select 'Load Pick List Definition - LexGrid XML' from 'Load' menu.	
3. A separate window will open to select a file to load. Select a file to load.	



4. Click 'Load' button. Status of load process will be displayed as the data is getting loaded. If everything goes well, you should see 'Errors Logged: false' and 'End State: completed' at the bottom of the status output.



5. Pick List Definitions loaded should be displayed on the main console under 'Available Pick List Definitions'.

Pick List Id	Represents Value Domain	Default EntityCode Namespace	Complete ...	Active	
SRITEST:AUTO:AllDomesticButGM	SRITEST:AUTO:AllDomesticButGM	Automobiles	false	true	<span>re Pick List Defn</span> <span>Display Definition</span> <span>Refresh</span> <span>Remove</span>
SRITEST:AUTO:DomesticLeafOnly	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true	
SRITEST:AUTO:DomesticLeafOnlyPlusGM	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true	
SRITEST:AUTO:DomesticAutoMakers	SRITEST:AUTO:DomesticAutoMakers	Automobiles	false	true	
SRITEST:AUTO:RefToDummyVSD	SRITEST:AUTO:DUMMY	Automobiles	true	true	
SRITEST:FA:hyphaLeafOnly	SRITEST:FA:hyphaLeafOnly	fungus_anatomy	true	true	
SRITEST:FA:MicrobialStructureOntology	SRITEST:FA:MicrobialStructureOntology	fungus_anatomy	false	true	
SRITEST:FA:MicrobialStructureOntologyMinusMCell	SRITEST:FA:MicrobialStructureOntology	fungus_anatomy	false	true	
SRITEST:FA:MicrobialStructureOntologyAndHyphaInMycelium	SRITEST:FA:MicrobialStructureOntologyAndHyphaInMycelium	fungus_anatomy	true	true	
SRITEST:FA:M5OntologyLeafOnly	SRITEST:FA:MicrobialStructureOntologyLeafOnly		true	true	

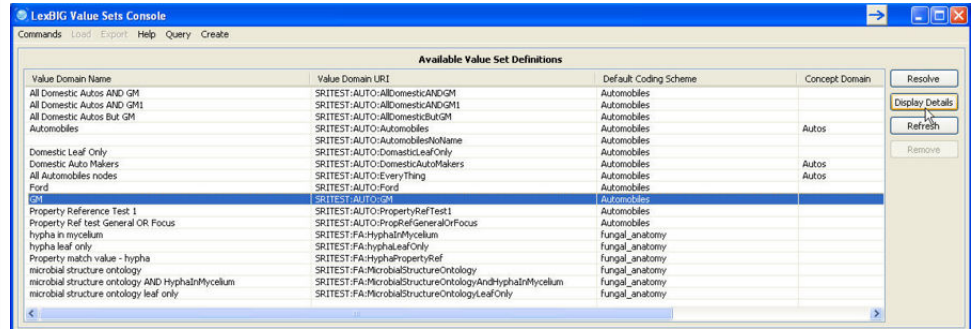
## Display Definition Details

## Display Value Set Definition Details

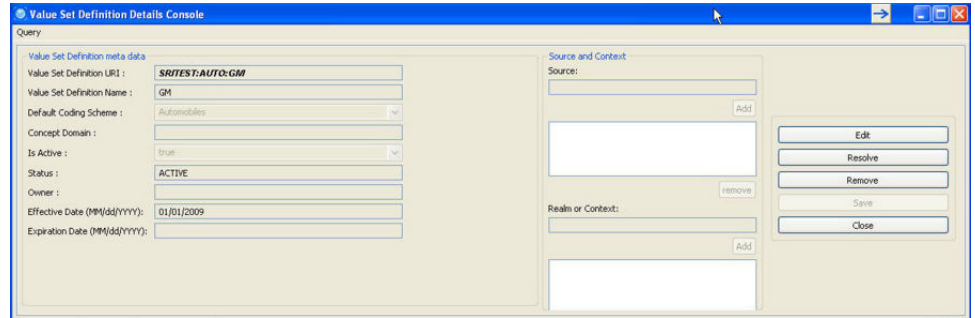
This function displays the details of selected Value Set Definition.

Step	Action
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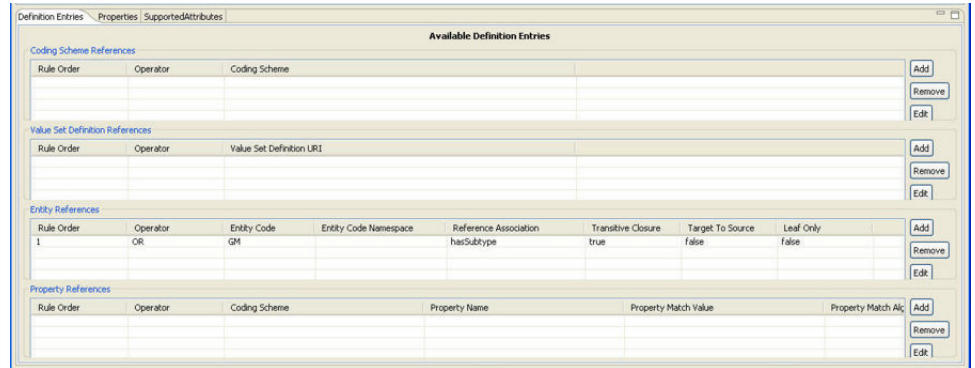
1. Select Value Set Definition under 'Available Value Set Definitions' and click on 'Display Details' button (or double click on Value Set Definition).



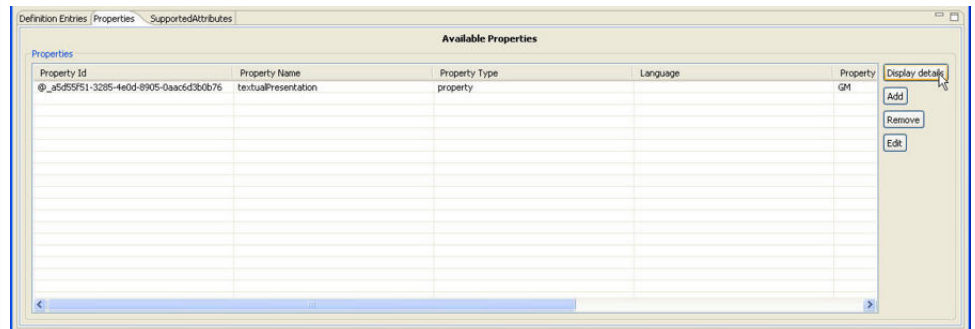
2. Separate window will be displayed with meta data of selected Value Set Definition at the top.



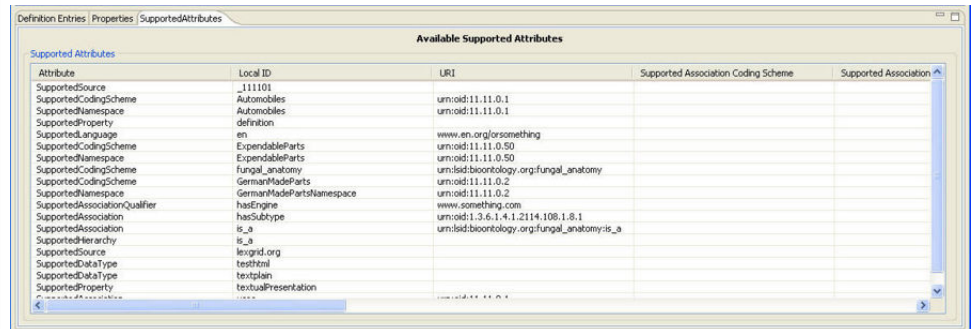
3. Click on 'Definition Entries' tab to view Definition Entries of this Value Set Definition.



4. Click on 'Properties' tab to view Properties of this Value Set Definition. And in this Properties view, you can select any particular property and click on 'Display Details' button to view more details like property qualifiers etc. of the selected property.

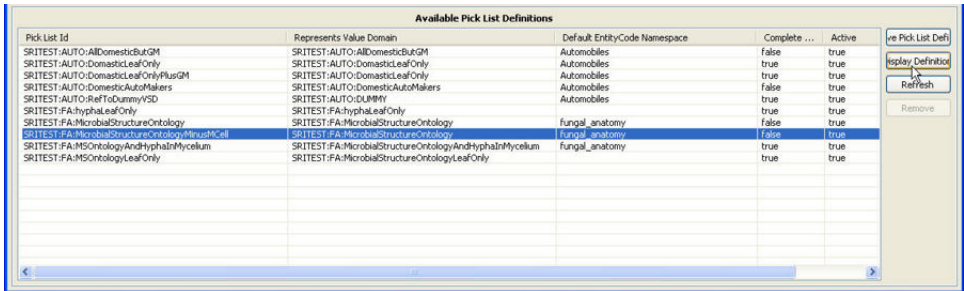
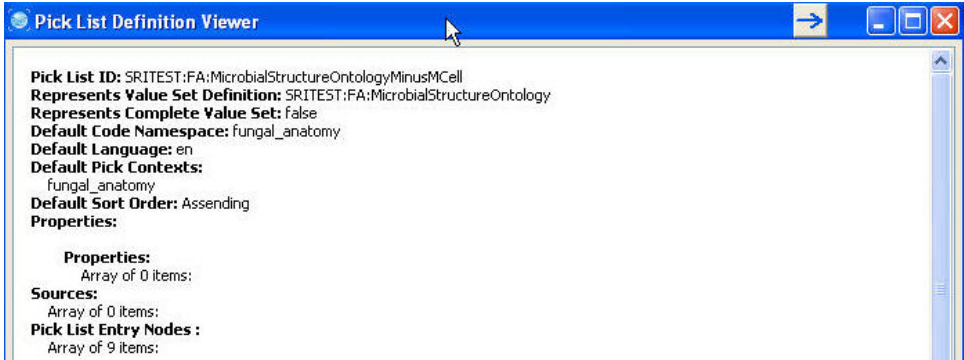


5. Click on 'Supported Attributes' tab to view list of Supported Attributes of this Value Set Definition.



## Display Pick List Definition Details

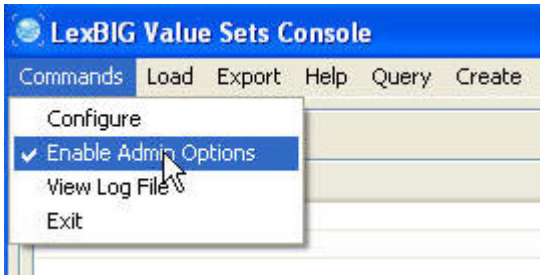
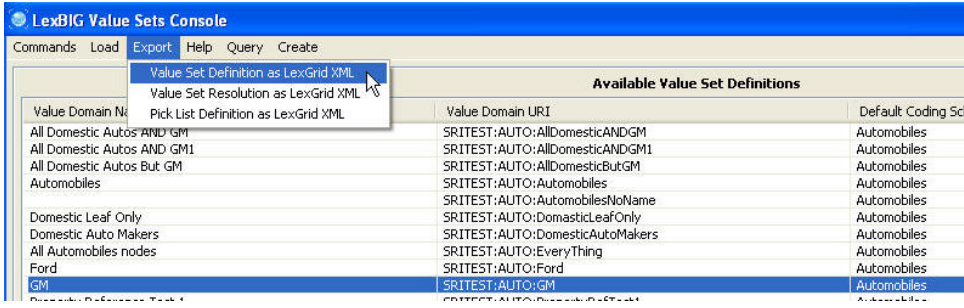
This function displays the details of selected Pick List Definition. For Release 6.0, this GUI for Pick List Definition Details simply displays the details as plain text unlike Details for Value Set Definition.

Step	Action
1. Select the Pick List Definition under 'Available Pick List Definitions' and click on 'Display Definition Details' button (or double click on Pick List Definition).	
2. A Separate window with the details of Pick List Definition will be displayed.	

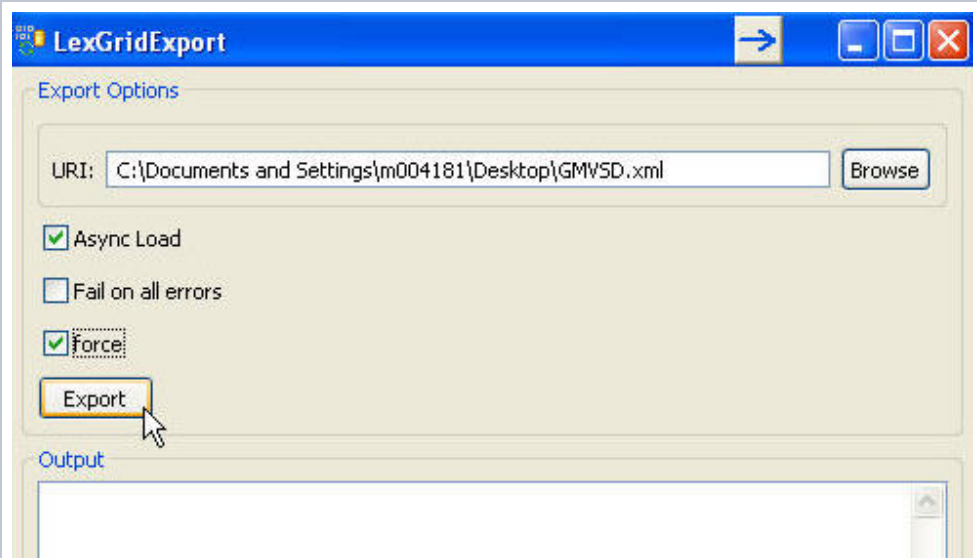
## Exporting

### Exporting Value Set Definition

This function exports the selected Value Set Definition to a file in LexGrid XML format. This will be helpful if you want to import this exported Value Set Definition in different instance of LexEVS.

Step	Action
1. Make sure to check 'Enable Admin Options' in 'Commands' menu.	
2. Select the Value Set Definition under 'Available Value Set Definitions' to be exported and click on 'Value Set Definition as LexGrid XML' under 'Export' menu.	

3. Enter the destination and the file name (should be .xml extension). Choose options appropriately and click on 'Export' button. 'Async Load' – Checking this will export the contents asynchronously 'Fail on all errors' – Checking this will stop the export if any error occurs. 'force' – Checking this will replace existing file. If there exists a file and this option was not checked, export will fail.



LexGridExport

Export Options

URI: C:\Documents and Settings\m004181\Desktop\GMVSD.xml Browse

☒ Async Load

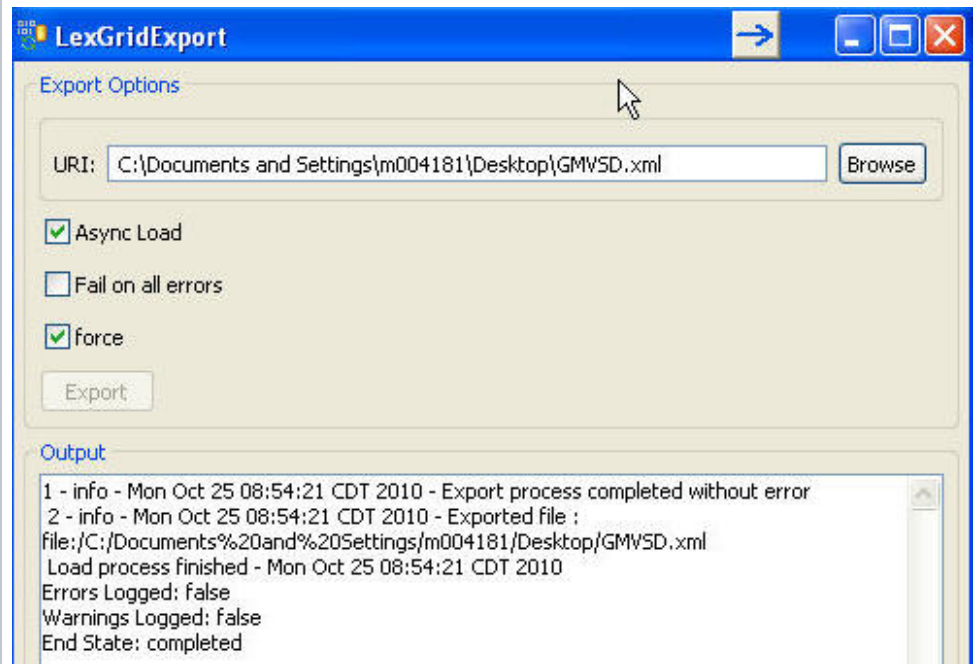
☐ Fail on all errors

☒ force

Export

Output

4. Status of an export process will be displayed as the data is getting exported. If everything goes well, you should see 'Errors Logged: false' and 'End State: completed' at the bottom of the status output.



LexGridExport

Export Options

URI: C:\Documents and Settings\m004181\Desktop\GMVSD.xml Browse

☒ Async Load

☐ Fail on all errors

☒ force

Export

Output

```
1 - info - Mon Oct 25 08:54:21 CDT 2010 - Export process completed without error
2 - info - Mon Oct 25 08:54:21 CDT 2010 - Exported file :
file:/C:/Documents%20and%20Settings/m004181/Desktop/GMVSD.xml
Load process finished - Mon Oct 25 08:54:21 CDT 2010
Errors Logged: false
Warnings Logged: false
End State: completed
```

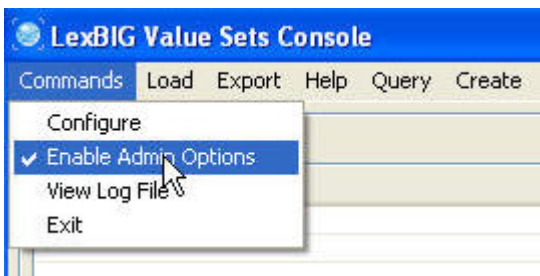
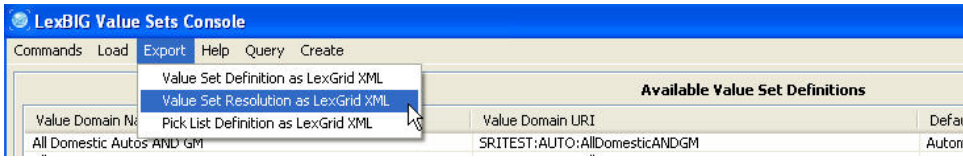


5. Verify the exported file.  
'valueSetDefinition' should be the top element and all its available contents (mappings, properties, definitionEntries etc) should be exported.

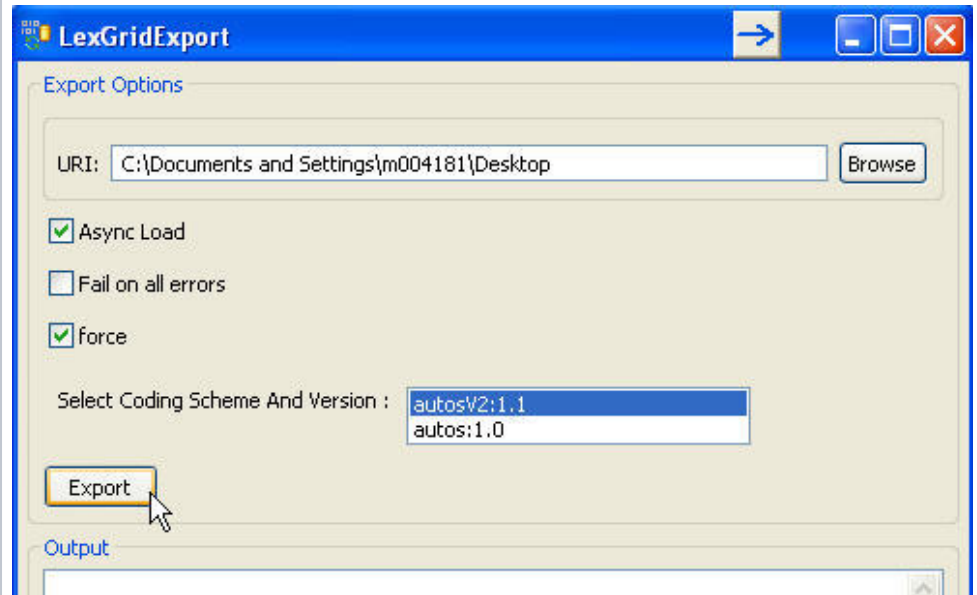
```
<?xml version="1.0" encoding="UTF-8"?>
<lgVD:valueSetDefinition
  xmlns:lgBuiltin="http://LexGrid.org/schema/2010/01/LexGrid/builtins"
  xmlns:lgCommon="http://LexGrid.org/schema/2010/01/LexGrid/commonTypes"
  xmlns:lgCon="http://LexGrid.org/schema/2010/01/LexGrid/concepts"
  xmlns:lgCS="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes"
  xmlns:lgNaming="http://LexGrid.org/schema/2010/01/LexGrid/naming"
  xmlns:lgRel="http://LexGrid.org/schema/2010/01/LexGrid/relations"
  xmlns:lgVD="http://LexGrid.org/schema/2010/01/LexGrid/valueSets"
  xmlns:lgVer="http://LexGrid.org/schema/2010/01/LexGrid/versions"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
  isActive="true" status="ACTIVE"
  effectiveDate="2009-01-01T05:00:00.000-06:00"
  valueSetDefinitionURI="SRITEST:AUTO:GM" valueSetDefinitionName="GM" defaultCodingScheme="Automobiles">
  <lgVD:mappings>
  <lgVD:properties>
    <lgCommon:property propertyName="textualPresentation"
      propertyId="@_a5d55f51-3285-4e0d-8905-0aac6d3b0b76" propertyType="property">
      <lgCommon:value>GM</lgCommon:value>
    </lgCommon:property>
  </lgVD:properties>
  <lgVD:definitionEntry ruleOrder="1" operator="OR">
    <lgVD:entityReference entityCode="GM"
      referenceAssociation="hasSubtype" transitiveClosure="true"
      leafOnly="false" targetToSource="false"/>
  </lgVD:definitionEntry>
</lgVD:valueSetDefinition>
```

## Exporting Expanded Value Set (Value Set Resolution)

This function resolve the selected Value Set Definition and exports the resolved(expanded) contents as a LexGrid Coding Scheme in XML format.

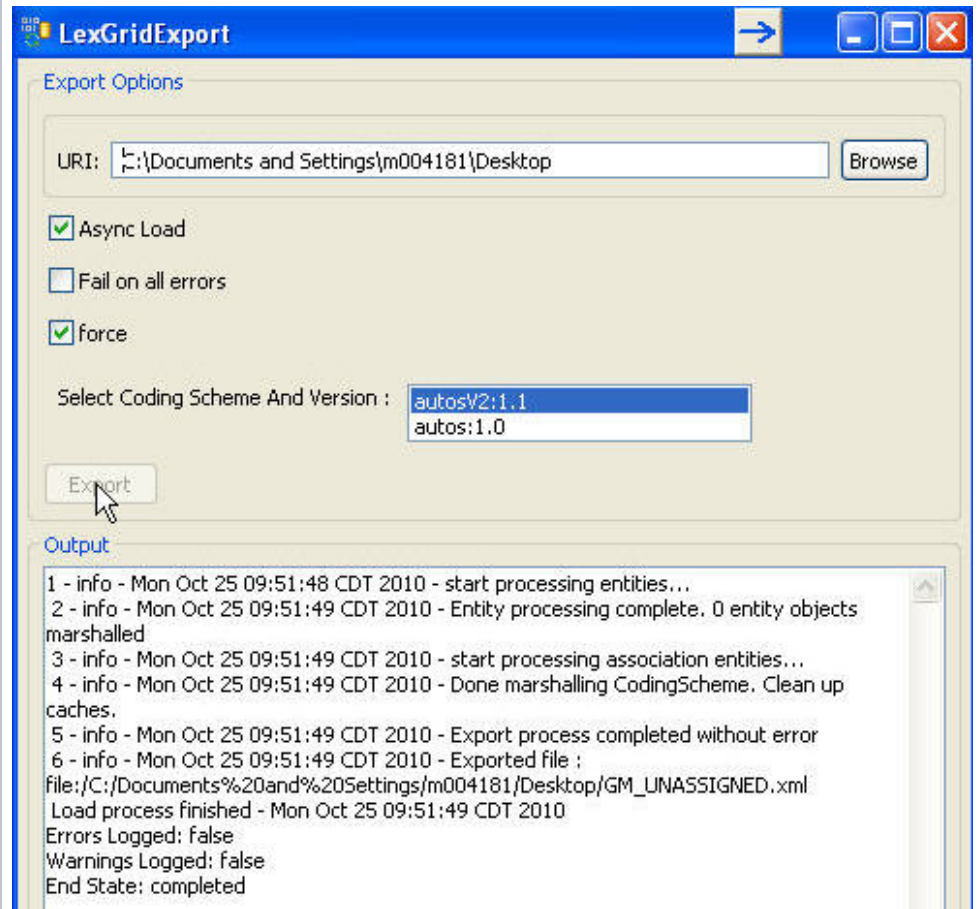
Step	Action
1. Make sure to check 'Enable Admin Options' in 'Commands' menu.	
2. Select the Value Set Definition under 'Available Value Set Definitions' to be exported and click on 'Value Set Resolution as LexGrid XML' under 'Export' menu.	

3. Enter the destination for the export at folder level. Choose options appropriately and click on 'Export' button. 'Async Load' – Checking this will export the contents asynchronously 'Fail on all errors' – Checking this will stop the export if any error occurs. 'force' – Checking this will replace existing file. If there exists a file and this option was not checked, export will fail. Select Coding Scheme And Version: Select the coding scheme version(s) to be used for resolving the Value Set Definition.



The LexGridExport dialog box has a blue title bar with the text 'LexGridExport' and standard window controls. The 'Export Options' section contains a 'URI' text box with the path 'C:\Documents and Settings\m004181\Desktop' and a 'Browse' button. Below are three checkboxes: 'Async Load' (checked), 'Fail on all errors' (unchecked), and 'force' (checked). A 'Select Coding Scheme And Version' dropdown menu shows 'autosV2:1.1' selected and 'autos:1.0' as an option. An 'Export' button is at the bottom left, with a mouse cursor hovering over it. An 'Output' section is visible at the bottom but is empty.

4. Status of an export process will be displayed as the data is getting exported. If everything goes well, you should see 'Errors Logged: false' and 'End State: completed' at the bottom of the status output.



This LexGridExport dialog box is identical to the one above, but the 'Output' section at the bottom is populated with a log of the export process. The log contains six entries: 1 - start processing entities..., 2 - Entity processing complete, 0 entity objects marshalled, 3 - start processing association entities..., 4 - Done marshalling CodingScheme. Clean up caches., 5 - Export process completed without error, and 6 - Exported file. The final summary shows 'Load process finished', 'Errors Logged: false', 'Warnings Logged: false', and 'End State: completed'. The 'Export' button is still visible and has a mouse cursor hovering over it.

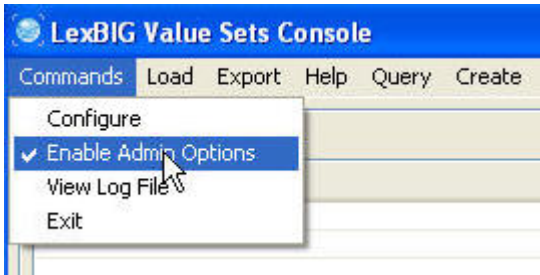
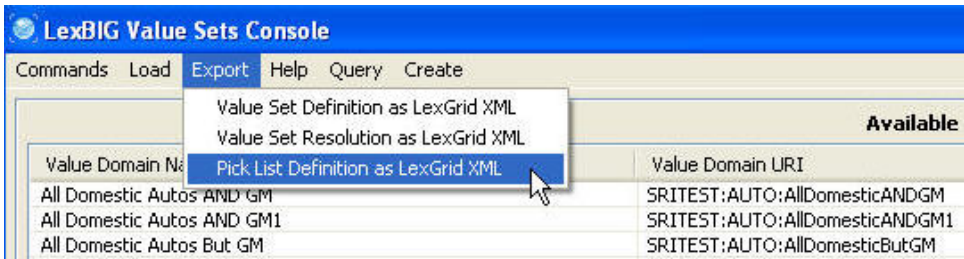


5. Verify the exported file.  
'codingScheme' should be the top element and all the concepts of the Resolved Value Set should be exported in 'entities' bucket.

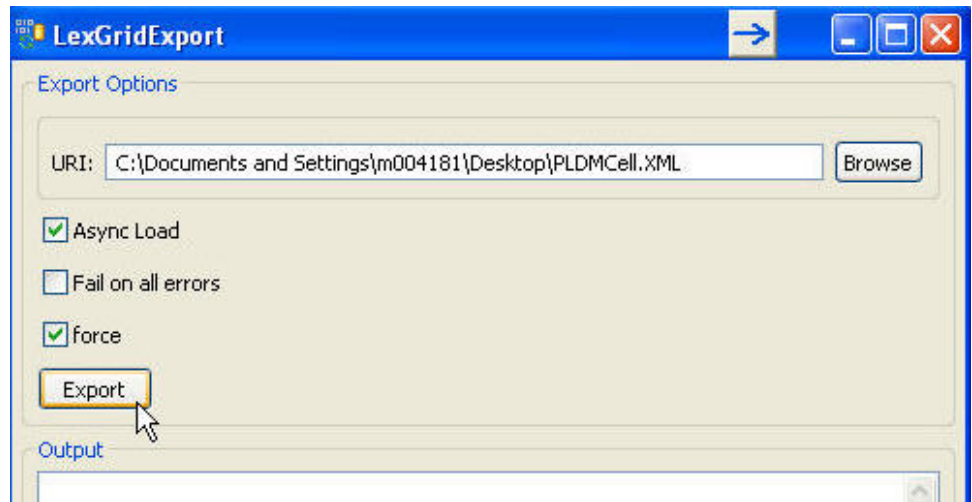
```
<?xml version="1.0" encoding="UTF-8"?>
<lgCS:codingScheme
  xmlns:lgBuiltin="http://LexGrid.org/schema/2010/01/LexGrid/builtins"
  xmlns:lgCommon="http://LexGrid.org/schema/2010/01/LexGrid/commonTypes"
  xmlns:lgCon="http://LexGrid.org/schema/2010/01/LexGrid/concepts"
  xmlns:lgCS="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes"
  xmlns:lgNaming="http://LexGrid.org/schema/2010/01/LexGrid/naming"
  xmlns:lgRel="http://LexGrid.org/schema/2010/01/LexGrid/relations"
  xmlns:lgVD="http://LexGrid.org/schema/2010/01/LexGrid/valueSets"
  xmlns:lgVer="http://LexGrid.org/schema/2010/01/LexGrid/versions"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
  isActive="true" status="ACTIVE"
  effectiveDate="2009-01-01T05:00:00.000-06:00" codingSchemeName="GM"
  codingSchemeURI="SRITEST:AUTO:GM" formalName="GM" representsVersion="UNASSIGNED">
  <lgCS:mappings>
  <lgCS:properties>
  <lgCS:entities>
    <lgCon:entity
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
      isActive="true" entityCode="GM"
      entityCodeNamespace="Automobiles" isDefined="false">
    <lgCon:entity
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
      isActive="true" entityCode="GMC"
      entityCodeNamespace="Automobiles" isDefined="false">
    <lgCon:entity
      xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
      xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
      isActive="true" entityCode="Chevy"
      entityCodeNamespace="Automobiles" isDefined="false">
  </lgCS:entities>
</lgCS:codingScheme>
```

## Exporting Pick List Definition

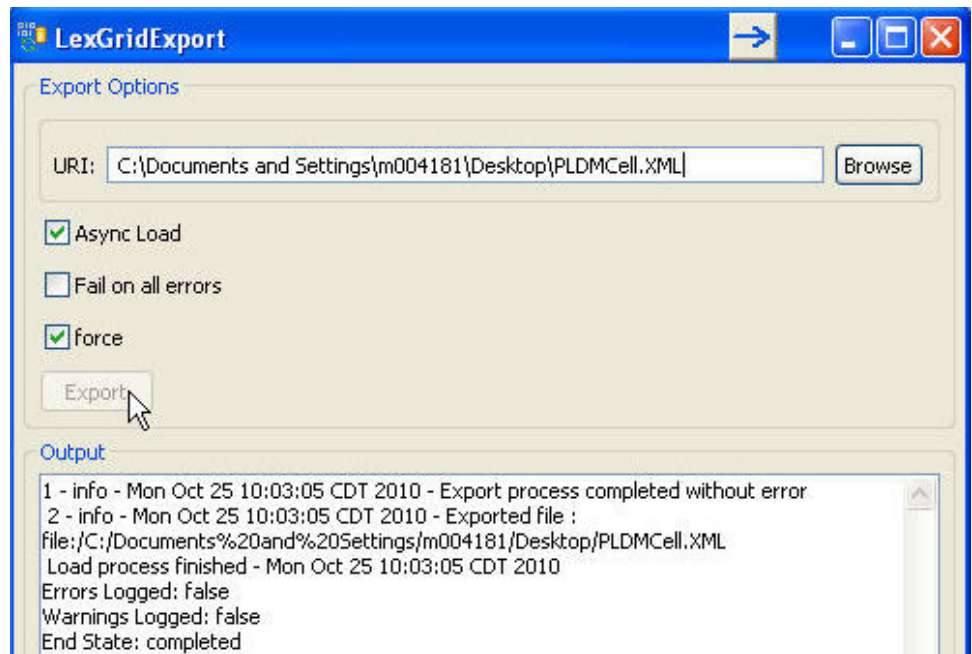
This function exports the selected Pick List Definition to a file in LexGrid XML format. This will be helpful if you want to import this exported Pick List Definition in different instance of LexEVS.

Step	Action
1. Make sure to check 'Enable Admin Options' in 'Commands' menu.	
2. Select the Pick List Definition under 'Available Pick List Definitions' to be exported and click on 'Pick List Definition as LexGrid XML' under 'Export' menu.	

3. Enter the destination and the file name (should be .xml extension). Choose options appropriately and click on 'Export' button. 'Async Load' – Checking this will export the contents asynchronously 'Fail on all errors' – Checking this will stop the export if any error occurs. 'force' – Checking this will replace existing file. If there exists a file and this option was not checked, export will fail.



4. Status of an export process will be displayed as the data is getting exported. If everything goes well, you should see 'Errors Logged: false' and 'End State: completed' at the bottom of the status output.



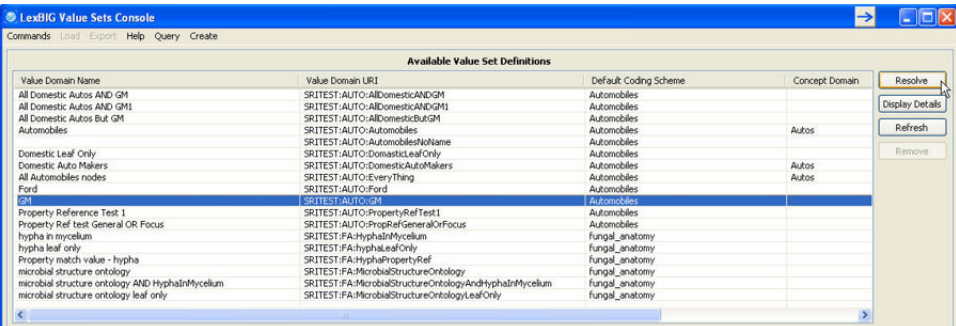
5. Verify the exported file.  
'pickListDefinition' should be the top element and all its available contents (mappings, properties, pickListEntryNodes etc) should be exported.

```
<?xml version="1.0" encoding="UTF-8"?>
<lgVD:pickListDefinition
  xmlns:lgBuiltin="http://LexGrid.org/schema/2010/01/LexGrid/builtins"
  xmlns:lgCommon="http://LexGrid.org/schema/2010/01/LexGrid/commonTypes"
  xmlns:lgCon="http://LexGrid.org/schema/2010/01/LexGrid/concepts"
  xmlns:lgCS="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes"
  xmlns:lgNaming="http://LexGrid.org/schema/2010/01/LexGrid/naming"
  xmlns:lgRel="http://LexGrid.org/schema/2010/01/LexGrid/relations"
  xmlns:lgVD="http://LexGrid.org/schema/2010/01/LexGrid/valueSets"
  xmlns:lgVer="http://LexGrid.org/schema/2010/01/LexGrid/versions"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes
http://LexGrid.org/schema/2010/01/LexGrid/codingSchemes.xsd"
  isActive="true" status="active"
  pickListId="SRITEST:FA:MicrobialStructureOntologyMinusMCell"
  representsValueSetDefinition="SRITEST:FA:MicrobialStructureOntology"
  defaultEntityCodeNamespace="fungal_anatomy" defaultLanguage="en"
  defaultSortOrder="Ascending" completeSet="false">
  <lgCommon:owner>Owner for FA:MicrobialStructureOntologyMinusMCell</lgCommon:owner>
  <lgCommon:entityDescription>Microbial Structure Ontology with out Mating cell</lgCommon:en
  <lgVD:mappings>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0001022:p1">
    <lgVD:exclusionEntry entityCode="FA0:0001022"/>
    <lgVD:properties/>
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000001:p1">
    <lgVD:inclusionEntry entryOrder="0" entityCode="FA0:0000001"
      entityCodeNamespace="fungal_anatomy" propertyId="p1"
      isDefault="true" matchIfNoContext="true">
    <lgVD:properties/>
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000001:p2">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000001:p1">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000005:p1">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000018:p1">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000032:p1">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000032:p3">
  </lgVD:pickListEntryNode>
  <lgVD:pickListEntryNode pickListEntryId="FA0:0000019:p1">
  </lgVD:pickListEntryNode>
  <lgVD:defaultPickContext>Microbial Structure</lgVD:defaultPickContext>
  <lgVD:defaultPickContext>Fungal Anatomy</lgVD:defaultPickContext>
  <lgVD:properties/>
</lgVD:pickListDefinition>
```

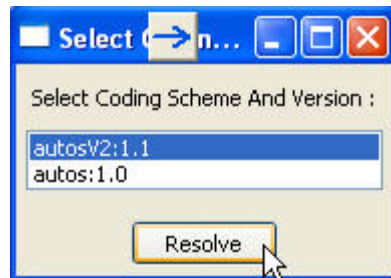
## Resolution

### Value Set Resolution

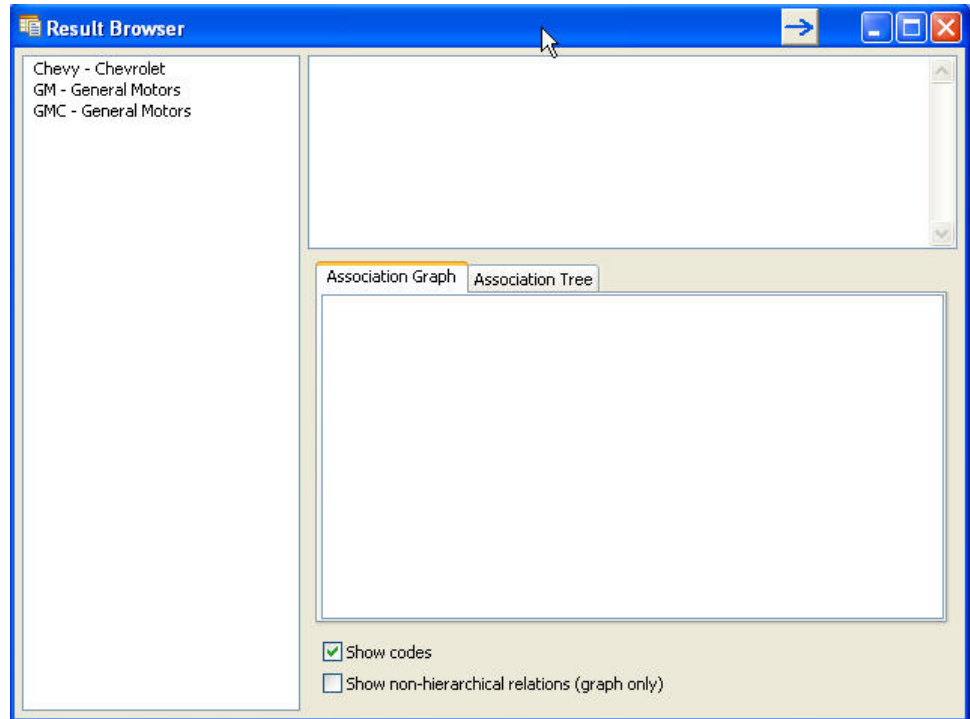
This function allows you to resolve a select Value Set Definition against selected Coding Scheme Version(s). The result of the resolution which is a list of Concepts will be displayed.

Step	Action
1. Select the Value Set Definition under 'Available Value Set Definitions' to be resolved and click 'Resolve' button on the right.	

2. Select the Coding Scheme Version(s) to be used to resolve the Value Set against and click on 'Resolve' button.



3. Resolved list of Concepts will be displayed in a new window. You can click on any concept to get more details.



**Note**

This feature can also be used to compare the Value Set Resolution by resolving Value Set Definition against different versions of Coding Scheme.

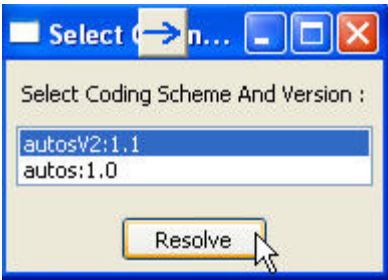
## Pick List Resolution

This function allows you to resolve a select Pick List Definition against selected Coding Scheme Version(s). The result of the resolution which is a list of Concept Terms/Designations will be displayed.

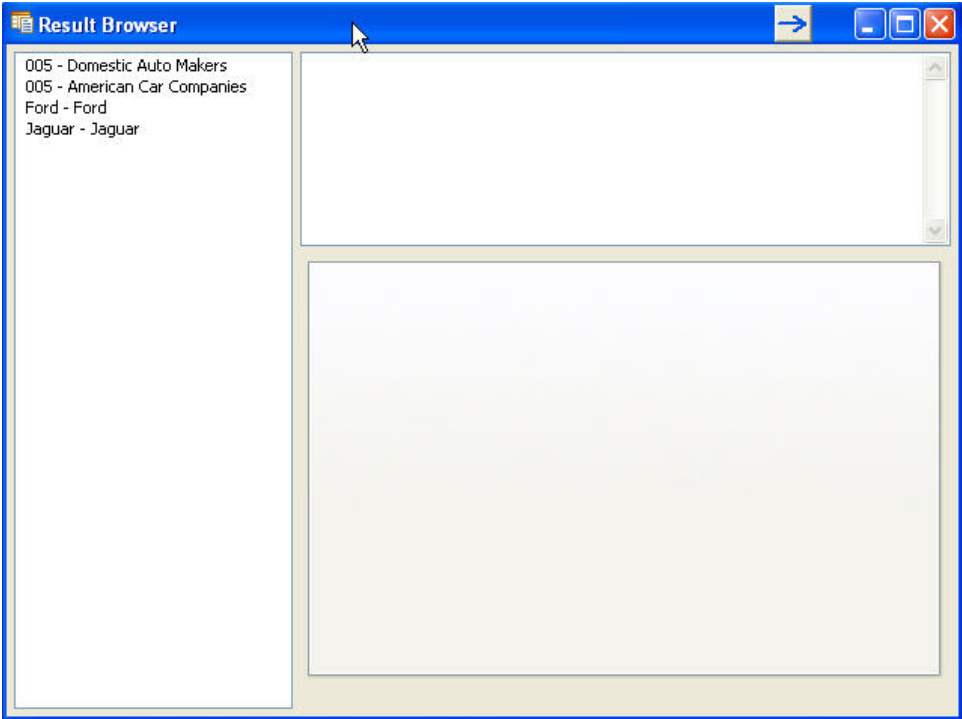
Step	Action																																																							
1. Select the Pick List Definition under 'Available Pick List Definitions' to be resolved and click 'Resolve Pick List Definition' button on the right.	<div><div>Available Pick List Definitions</div><table><thead><tr><th>Pick List Id</th><th>Represents Value Domain</th><th>Default EntityCode Namespace</th><th>Complete ...</th><th>Active</th></tr></thead><tbody><tr><td>SRITEST:AUTO:DomesticBuGMC</td><td>SRITEST:AUTO:DomesticBuGMC</td><td>Automobiles</td><td>true</td><td>true</td></tr><tr><td>SRITEST:AUTO:DomesticLeafOnly</td><td>SRITEST:AUTO:DomesticLeafOnly</td><td>Automobiles</td><td>true</td><td>true</td></tr><tr><td>SRITEST:AUTO:DomesticLeafOnlyPlusGM</td><td>SRITEST:AUTO:DomesticLeafOnly</td><td>Automobiles</td><td>true</td><td>true</td></tr><tr><td>SRITEST:AUTO:DomesticAutoMakers</td><td>SRITEST:AUTO:DomesticAutoMakers</td><td>Automobiles</td><td>false</td><td>true</td></tr><tr><td>SRITEST:AUTO:RefToDummyYSD</td><td>SRITEST:AUTO:DUMMY</td><td>Automobiles</td><td>true</td><td>true</td></tr><tr><td>SRITEST:FA:hyphaLeafOnly</td><td>SRITEST:FA:hyphaLeafOnly</td><td>Fungal_anatomy</td><td>true</td><td>true</td></tr><tr><td>SRITEST:FA:MicrobialStructureOntology</td><td>SRITEST:FA:MicrobialStructureOntology</td><td>Fungal_anatomy</td><td>false</td><td>true</td></tr><tr><td>SRITEST:FA:MicrobialStructureOntologyMinusMCell</td><td>SRITEST:FA:MicrobialStructureOntology</td><td>Fungal_anatomy</td><td>false</td><td>true</td></tr><tr><td>SRITEST:FA:MSOntologyAndHyphalInMycelium</td><td>SRITEST:FA:MicrobialStructureOntologyAndHyphalInMycelium</td><td>Fungal_anatomy</td><td>true</td><td>true</td></tr><tr><td>SRITEST:FA:MSOntologyLeafOnly</td><td>SRITEST:FA:MicrobialStructureOntologyLeafOnly</td><td>Fungal_anatomy</td><td>true</td><td>true</td></tr></tbody></table><div><div>Resolve Pick List Definition</div><div>Refresh</div><div>Remove</div></div></div>	Pick List Id	Represents Value Domain	Default EntityCode Namespace	Complete ...	Active	SRITEST:AUTO:DomesticBuGMC	SRITEST:AUTO:DomesticBuGMC	Automobiles	true	true	SRITEST:AUTO:DomesticLeafOnly	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true	SRITEST:AUTO:DomesticLeafOnlyPlusGM	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true	SRITEST:AUTO:DomesticAutoMakers	SRITEST:AUTO:DomesticAutoMakers	Automobiles	false	true	SRITEST:AUTO:RefToDummyYSD	SRITEST:AUTO:DUMMY	Automobiles	true	true	SRITEST:FA:hyphaLeafOnly	SRITEST:FA:hyphaLeafOnly	Fungal_anatomy	true	true	SRITEST:FA:MicrobialStructureOntology	SRITEST:FA:MicrobialStructureOntology	Fungal_anatomy	false	true	SRITEST:FA:MicrobialStructureOntologyMinusMCell	SRITEST:FA:MicrobialStructureOntology	Fungal_anatomy	false	true	SRITEST:FA:MSOntologyAndHyphalInMycelium	SRITEST:FA:MicrobialStructureOntologyAndHyphalInMycelium	Fungal_anatomy	true	true	SRITEST:FA:MSOntologyLeafOnly	SRITEST:FA:MicrobialStructureOntologyLeafOnly	Fungal_anatomy	true	true
Pick List Id	Represents Value Domain	Default EntityCode Namespace	Complete ...	Active																																																				
SRITEST:AUTO:DomesticBuGMC	SRITEST:AUTO:DomesticBuGMC	Automobiles	true	true																																																				
SRITEST:AUTO:DomesticLeafOnly	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true																																																				
SRITEST:AUTO:DomesticLeafOnlyPlusGM	SRITEST:AUTO:DomesticLeafOnly	Automobiles	true	true																																																				
SRITEST:AUTO:DomesticAutoMakers	SRITEST:AUTO:DomesticAutoMakers	Automobiles	false	true																																																				
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SRITEST:FA:MicrobialStructureOntology	SRITEST:FA:MicrobialStructureOntology	Fungal_anatomy	false	true																																																				
SRITEST:FA:MicrobialStructureOntologyMinusMCell	SRITEST:FA:MicrobialStructureOntology	Fungal_anatomy	false	true																																																				
SRITEST:FA:MSOntologyAndHyphalInMycelium	SRITEST:FA:MicrobialStructureOntologyAndHyphalInMycelium	Fungal_anatomy	true	true																																																				
SRITEST:FA:MSOntologyLeafOnly	SRITEST:FA:MicrobialStructureOntologyLeafOnly	Fungal_anatomy	true	true																																																				



2. Select the Coding Scheme Version(s) to be used to resolve the Pick List against and click on 'Resolve' button.



3. Resolved list of Concept Terms /Designations will be displayed in a new window.



**Note**

This feature can also be used to compare the Pick List Resolution by resolving Pick List Definition against different versions of Coding Scheme.

Query Functions

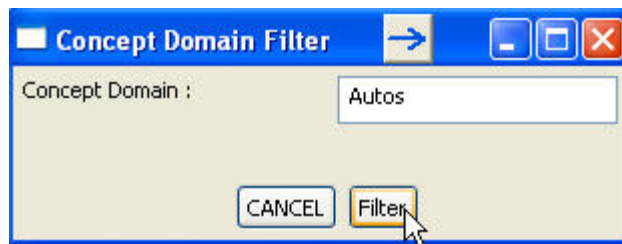
Described below are the major querying/filtering functions available in this tool.

Value Set Definition by Concept Domain

This allows you to filter the Value Set Definitions by Concept Domain.

Step	Action
1. Click on 'Value Set Definition by Concept Domain' in 'Query' menu at the top.	

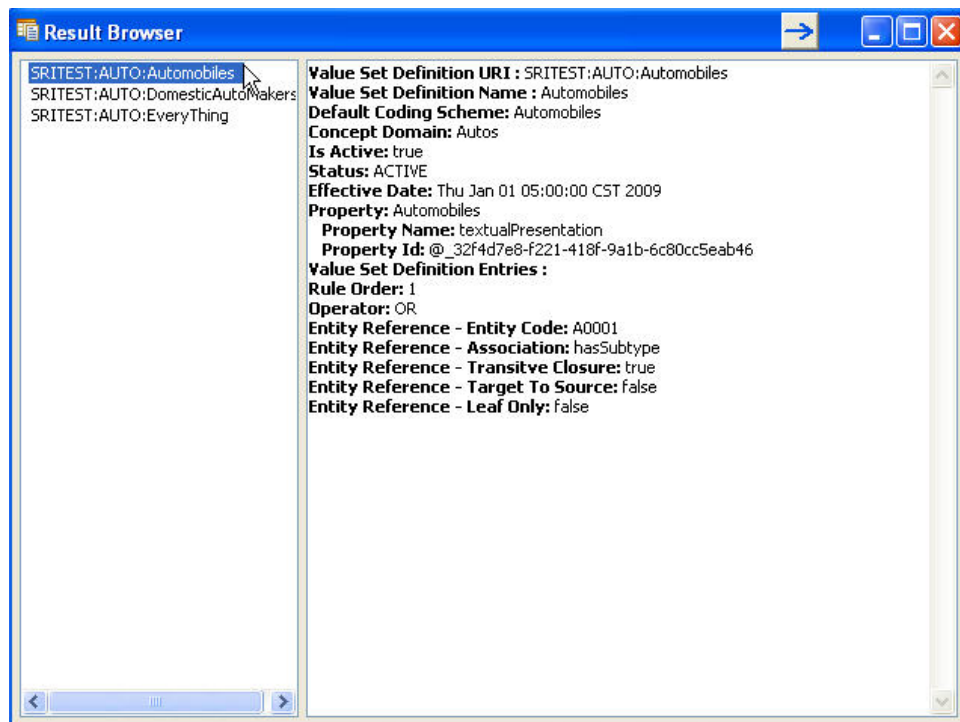
2. Enter the Concept Domain value and click on 'Filter' button.



**Concept Domain Filter**

Concept Domain :

3. List of Value Set Definition URIs that has the matching Concept Domain will be displayed in a separate window. You can click on any of the Value Set Definition URIs to get more details.



**Result Browser**

Value Set Definition URI : SRITEST:AUTO:Automobiles  
 Value Set Definition Name : Automobiles  
 Default Coding Scheme: Automobiles  
 Concept Domain: Autos  
 Is Active: true  
 Status: ACTIVE  
 Effective Date: Thu Jan 01 05:00:00 CST 2009  
 Property: Automobiles  
 Property Name: textualPresentation  
 Property Id: @\_32f4d7e8-f221-418f-9a1b-6c80cc5eab46  
 Value Set Definition Entries :  
 Rule Order: 1  
 Operator: OR  
 Entity Reference - Entity Code: A0001  
 Entity Reference - Association: hasSubtype  
 Entity Reference - Transitive Closure: true  
 Entity Reference - Target To Source: false  
 Entity Reference - Leaf Only: false

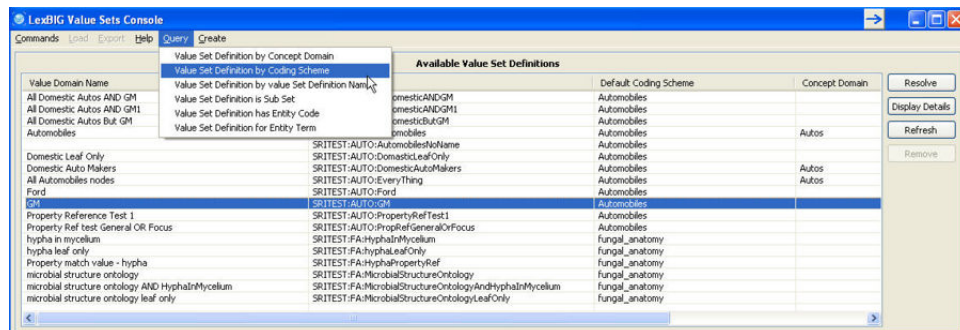
## Value Set Definition by Coding Scheme

This allows you to filter the Value Set Definitions by Coding Scheme.

### Step

### Action

1. Click on 'Value Set Definition by Coding Scheme' in 'Query' menu at the top.



**LexiG Value Sets Console**

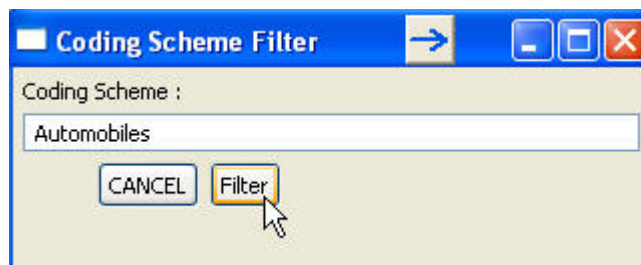
Commands Load Export Help Query Create

Value Set Definition by Concept Domain  
 Value Set Definition by Coding Scheme  
 Value Set Definition by value Set Definition Name  
 Value Set Definition is Sub Set  
 Value Set Definition has Entity Code  
 Value Set Definition for Entity Term

Value Domain Name	Value Set Definition URI	Default Coding Scheme	Concept Domain
All Domestic Autos AND GM	SRITEST:AUTO:DomesticAutoMakers	Automobiles	Automobiles
All Domestic Autos AND GM1	SRITEST:AUTO:DomesticAutoMakers	Automobiles	Automobiles
All Domestic Autos But GM	SRITEST:AUTO:DomesticAutoMakers	Automobiles	Automobiles
Automobiles	SRITEST:AUTO:EveryThing	Automobiles	Autos
Domestic Leaf Only	SRITEST:AUTO:Ford	Automobiles	Autos
Domestic Auto Makers	SRITEST:AUTO:Ford	Automobiles	Autos
All Automobiles nodes	SRITEST:AUTO:Ford	Automobiles	Autos
Ford	SRITEST:AUTO:Ford	Automobiles	Autos
Property Reference Test 1	SRITEST:AUTO:PropertyRefTest1	Automobiles	
Property Ref test General OR Focus	SRITEST:AUTO:PropertyRefGeneralOrFocus	Automobiles	
hypha in mycelium	SRITEST:FA:HyphaInMycelium	Fungal_anatomy	
hypha leaf only	SRITEST:FA:HyphaLeafOnly	Fungal_anatomy	
Property match value - hypha	SRITEST:FA:HyphaPropertyRef	Fungal_anatomy	
microbial structure ontology	SRITEST:FA:MicrobialStructureOntology	Fungal_anatomy	
microbial structure ontology AND HyphaInMycelium	SRITEST:FA:MicrobialStructureOntologyAndHyphaInMycelium	Fungal_anatomy	
microbial structure ontology leaf only	SRITEST:FA:MicrobialStructureOntologyLeafOnly	Fungal_anatomy	

Resolve  
Display Details  
Refresh  
Remove

2. Enter the Coding Scheme value and click on 'Filter' button.

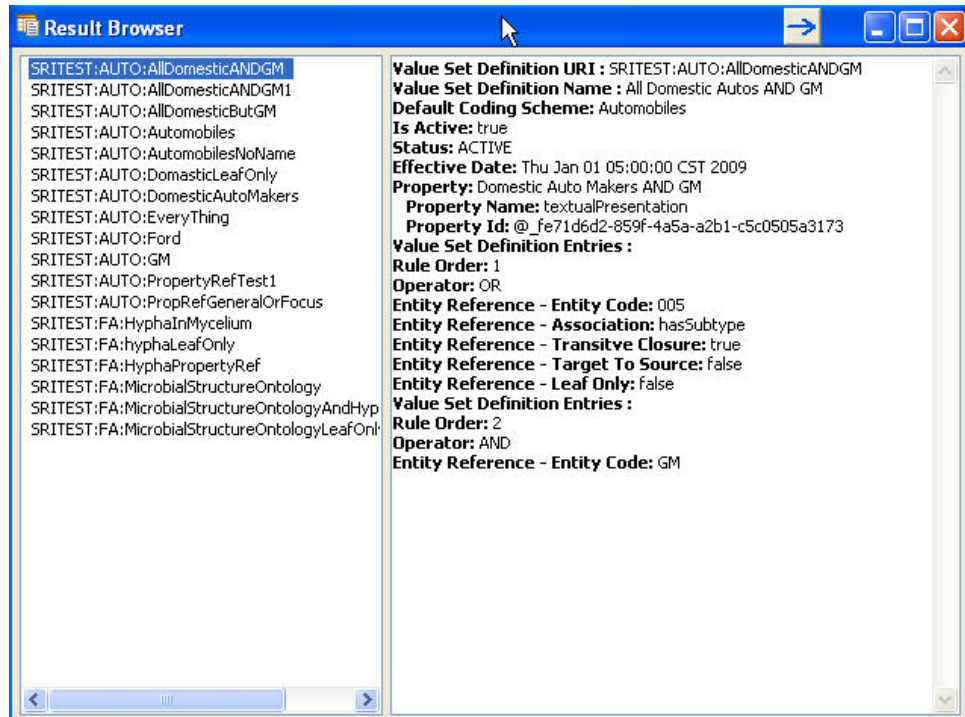


**Coding Scheme Filter**

Coding Scheme :



3. List of Value Set Definition URIs that references the entered Coding Scheme will be displayed in a separate window. You can click on any of the Value Set Definition URIs to get more details.



## Value Set Definition by Value Set Definition Name

This allows you to filter the Value Set Definitions by the name of the Value Set Definition.

Step	Action																																																			
1. Click on 'Value Set Definition by Value Set Definition Name' in 'Query' menu at the top.	<p>The 'LexBIG Value Sets Console' window shows the 'Query' menu with 'Value Set Definition by Value Set Definition Name' selected. The 'Available Value Set Definitions' table is visible below the menu.</p> <table border="1"> <thead> <tr> <th>Value Domain Name</th> <th>Default Coding Scheme</th> <th>Concept Domain</th> </tr> </thead> <tbody> <tr> <td>All Domestic Autos AND GM</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>All Domestic Autos AND GM1</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>All Domestic Autos But GM</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>Automobiles</td> <td>Automobiles</td> <td>Autos</td> </tr> <tr> <td>Domestic Leaf Only</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>Domestic Auto Makers</td> <td>Automobiles</td> <td>Autos</td> </tr> <tr> <td>All Automobiles nodes</td> <td>Automobiles</td> <td>Autos</td> </tr> <tr> <td>Ford</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>Property Reference Test 1</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>Property Ref test General OR Focus</td> <td>Automobiles</td> <td></td> </tr> <tr> <td>hypha in mycelium</td> <td>fungus_anatomy</td> <td></td> </tr> <tr> <td>hypha leaf only</td> <td>fungus_anatomy</td> <td></td> </tr> <tr> <td>Property match value - hypha</td> <td>fungus_anatomy</td> <td></td> </tr> <tr> <td>microbial structure ontology</td> <td>fungus_anatomy</td> <td></td> </tr> <tr> <td>microbial structure ontology AND HyphaInMycelium</td> <td>fungus_anatomy</td> <td></td> </tr> <tr> <td>microbial structure ontology leaf only</td> <td>fungus_anatomy</td> <td></td> </tr> </tbody> </table>	Value Domain Name	Default Coding Scheme	Concept Domain	All Domestic Autos AND GM	Automobiles		All Domestic Autos AND GM1	Automobiles		All Domestic Autos But GM	Automobiles		Automobiles	Automobiles	Autos	Domestic Leaf Only	Automobiles		Domestic Auto Makers	Automobiles	Autos	All Automobiles nodes	Automobiles	Autos	Ford	Automobiles		Property Reference Test 1	Automobiles		Property Ref test General OR Focus	Automobiles		hypha in mycelium	fungus_anatomy		hypha leaf only	fungus_anatomy		Property match value - hypha	fungus_anatomy		microbial structure ontology	fungus_anatomy		microbial structure ontology AND HyphaInMycelium	fungus_anatomy		microbial structure ontology leaf only	fungus_anatomy	
Value Domain Name	Default Coding Scheme	Concept Domain																																																		
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Property Reference Test 1	Automobiles																																																			
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hypha in mycelium	fungus_anatomy																																																			
hypha leaf only	fungus_anatomy																																																			
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microbial structure ontology AND HyphaInMycelium	fungus_anatomy																																																			
microbial structure ontology leaf only	fungus_anatomy																																																			
2. Enter the full name of the Value Set Definition and click on 'Filter' button. You can leave it blank to get all the Value Set Definitions with no name.	<p>The 'Value Set Definition Name Filter' dialog box shows a text input field with 'GM' entered. The 'Filter' button is highlighted with a mouse cursor.</p>																																																			

3. List of Value Set Definition URIs that matches the entered name will be displayed in a separate window. You can click on any of the Value Set Definition URIs to get more details.

**Result Browser**

Value Set Definition URI : SRITEST:AUTO:GM  
 Value Set Definition Name : GM  
 Default Coding Scheme: Automobiles  
 Is Active: true  
 Status: ACTIVE  
 Effective Date: Thu Jan 01 05:00:00 CST 2009  
 Property: GM  
 Property Name: textualPresentation  
 Property Id: @\_a5d55f51-3285-4e0d-8905-0aac6d3b0b76  
 Value Set Definition Entries :  
 Rule Order: 1  
 Operator: OR  
 Entity Reference - Entity Code: GM  
 Entity Reference - Association: hasSubtype  
 Entity Reference - Transitive Closure: true  
 Entity Reference - Target To Source: false  
 Entity Reference - Leaf Only: false

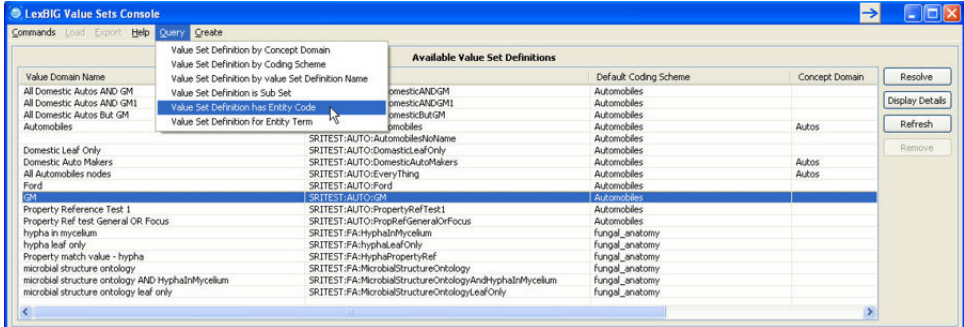
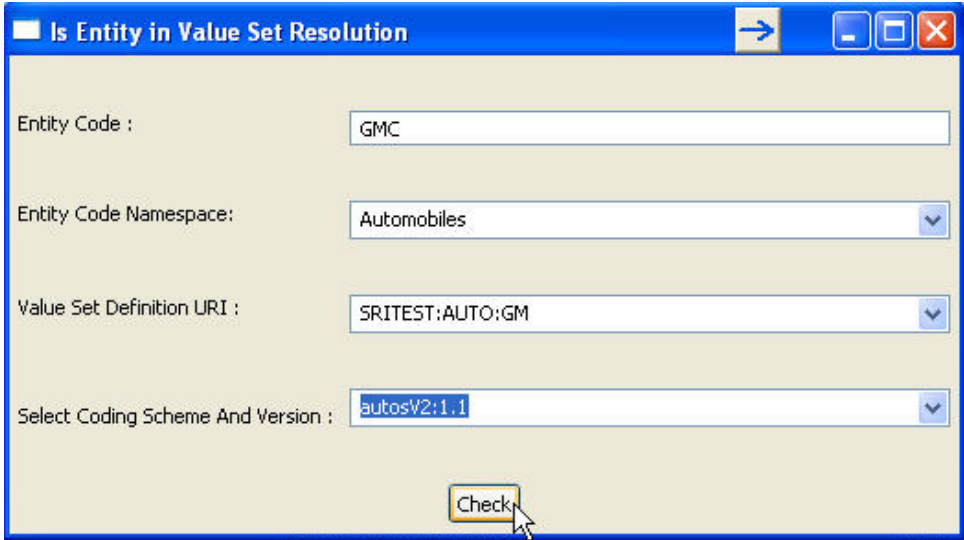

## Value Set Definition is Sub Set

This allows you to check if one Value Set is a Sub Set of the other.

Step	Action																																																			
1. Click on 'Value Set Definition is Sub Set' in 'Query' menu at the top.	<p>LexBIG Value Sets Console</p> <p>Commands Load Export Help Query Create</p> <p>Value Set Definition by Concept Domain        Value Set Definition by Coding Scheme        Value Set Definition by Value Set Definition Name  <b>Value Set Definition is Sub Set</b>        Value Set Definition has Entity Code        Value Set Definition for Entity Term</p> <p>Available Value Set Definitions</p> <table border="1"> <thead> <tr> <th>Value Set Definition Name</th> <th>Default Coding Scheme</th> <th>Concept Domain</th> </tr> </thead> <tbody> <tr><td>Domestic AND GM</td><td>Automobiles</td><td></td></tr> <tr><td>All Domestic Autos AND GM1</td><td>Automobiles</td><td></td></tr> <tr><td>All Domestic Autos But GM1</td><td>Automobiles</td><td></td></tr> <tr><td>Automobiles</td><td>Automobiles</td><td>Autos</td></tr> <tr><td>Domestic Leaf Only</td><td>Automobiles</td><td></td></tr> <tr><td>Domestic Auto Makers</td><td>Automobiles</td><td>Autos</td></tr> <tr><td>All Automobiles nodes</td><td>Automobiles</td><td>Autos</td></tr> <tr><td>Ford</td><td>Automobiles</td><td></td></tr> <tr><td>Property Reference Test 1</td><td>Automobiles</td><td></td></tr> <tr><td>Property Ref test General OR Focus</td><td>Automobiles</td><td></td></tr> <tr><td>hypha in mycelium</td><td>fungus_anatomy</td><td></td></tr> <tr><td>hypha leaf only</td><td>fungus_anatomy</td><td></td></tr> <tr><td>Property match value - hypha</td><td>fungus_anatomy</td><td></td></tr> <tr><td>microbial structure ontology</td><td>fungus_anatomy</td><td></td></tr> <tr><td>microbial structure ontology AND HyphalInMycelium</td><td>fungus_anatomy</td><td></td></tr> <tr><td>microbial structure ontology leaf only</td><td>fungus_anatomy</td><td></td></tr> </tbody> </table>	Value Set Definition Name	Default Coding Scheme	Concept Domain	Domestic AND GM	Automobiles		All Domestic Autos AND GM1	Automobiles		All Domestic Autos But GM1	Automobiles		Automobiles	Automobiles	Autos	Domestic Leaf Only	Automobiles		Domestic Auto Makers	Automobiles	Autos	All Automobiles nodes	Automobiles	Autos	Ford	Automobiles		Property Reference Test 1	Automobiles		Property Ref test General OR Focus	Automobiles		hypha in mycelium	fungus_anatomy		hypha leaf only	fungus_anatomy		Property match value - hypha	fungus_anatomy		microbial structure ontology	fungus_anatomy		microbial structure ontology AND HyphalInMycelium	fungus_anatomy		microbial structure ontology leaf only	fungus_anatomy	
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microbial structure ontology leaf only	fungus_anatomy																																																			
2. Select the Child and Parent Value Set Definitions from the drop down list, select Coding Scheme Version(s) to use for resolving both Child and Parent Value Set Definitions and click on 'Check' button.	<p>Is SubSet</p> <p>Child ValueSetDefinition URI : SRITEST:AUTO:GM Parent ValueSetDefinition URI : SRITEST:AUTO:AllDomesticANDGM1</p> <p>Select Coding Scheme And Version : autosV2:1.1</p> <p>Check</p>																																																			
3. A separate window telling if Child Value Set Definition selected is a Sub Set of selected Parent Value Set Definition will be displayed.	<p>Is SubSet</p> <p>Value Set Definition URI : SRITEST:AUTO:GM is SubSet of Value Set Definition URI : SRITEST:AUTO:AllDomesticANDGM1</p> <p>OK</p>																																																			

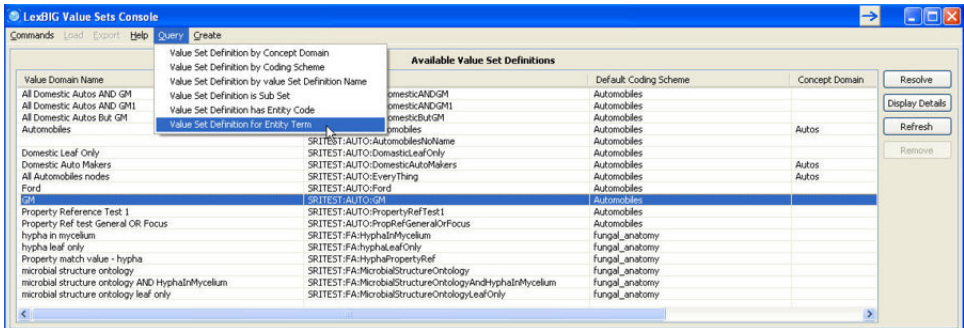
## Value Set Definition has Entity Code

This allows you to check if an expanded Value Set (Value Set Resolution) contains supplied Entity Code.

Step	Action
1. Click on 'Value Set Definition has Entity Code' in 'Query' menu at the top.	
2. Enter Entity Code to check as well as the Namespace of the Entity Code, Value Set Definition URI and Coding Scheme Version(s) from the drop down lists. And click on 'Check' button. This will check if the Entity Code entered is present in the expanded Value Set when resolved against selected Coding Scheme Version.	
3. A separate window telling if entered Entity Code is part of expanded Value Set will be displayed.	

## Value Set Definition for Entity Term

This function returns only those Entites in an expanded Value Set (Value Set Resolution) that matches supplied Entity Term.

Step	Action
1. Click on 'Value Set Definition for Entity Term' in 'Query' menu at the top.	

2. Enter Entity Term to match, the match algorithm to use, Value Set Definition URI and Coding Scheme Version(s) from the drop down lists. And click on 'Check' button.

Value Set Resolution Filter to Term

Term to filter :

Chevy

Match Algorithm:

LuceneQuery

Value Set Definition URI :

SRITEST:AUTO:GM

Select Coding Scheme And Version :

autosV2:1.1

Check

3. A separate window will be displayed with the list of Concepts that satisfies the term and match algorithm entered.

Result Browser

Chevy - Chevrolet

Coding Scheme: Automobiles - urn:oid:11.11.0.1

Entity Code: Chevy

Entity Code Namespace: Automobiles

Entity Description: Chevrolet

Entity Type: concept

Is Active: true

Presentation: Chevy

Property Name: textualPresentation

Property Id: p1

Language: en

Is Preferred: true

Presentation: Chevrolet

Property Name: textualPresentation

Property Id: p2

Language: en

Association Graph

Association Tree

[Chevy]

Chevrolet

[GM]

General Motors

[R]hasSubtype

☒ Show codes

☐ Show non-hierarchical relations (graph only)

## Authoring

This tool provides the capabilities to Create/Edit/Delete Value Set Definition Meta-Data, Definition Entry, and Properties. Authored data can be persisted to the database. You can use this function to test the definition entry (rule set) without persisting the changes to the database.

### Creating Value Set Definition

For example, we will create a Value Set Definition to contain only Ford and GM cars from 'Automobiles' Coding Scheme. There are different ways to do this, but for testing, we will make use of one of the existing Value Set Definition (SRITEST:AUTO:GM – includes concepts GM and all its children) by creating a Value Set Definition Reference and create a Entity Reference to include concepts Ford and all its children. Make sure that you have loaded the vdTestData.xml file as described under 'Loading Value Set Definition' section of this document.

Step	Action
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1. Click on 'Create Value Set Definition' under 'Create' menu at the top of the tool.

The screenshot shows the 'LexBIG Value Sets Console' interface. At the top, there is a menu bar with 'Commands', 'Load', 'Export', 'Help', 'Query', and 'Create'. The 'Create' menu is open, showing a button labeled 'Value Set Definition'. Below the menu, there is a table with two columns: 'Value Domain Name' and 'Value Domain URI'. The first row contains the text 'All Domestic Autos AND GM' and 'SRITEST:AUTO:AllDomesticANDGM' respectively.

2. Enter Value Set Definition meta data details:

- Value Set Definition URI: Mandatory field. A unique identifier for the Value Set Definition.
- Value Set Name: Optional. Name of the Value Set Definition.
- Default Coding Scheme: Optional. Local name of the primary Coding Scheme from which the Value Set is drawn. You can either choose from the drop down list or enter a value if the Coding Scheme is not yet loaded in the system.
- Concept Domain: Optional. Local name of the concept domain. When present, the contents of the Value Set defined are considered to be binded to the specific concept domain.
- Is Active: Optional. Lets you specify if this Value Set is active or not.
- Status: Optional. Status of the Value Set Definition. Ex. Active, pending, retired, etc.
- Owner: Optional. Owner of this Value Set Definition.
- Effective Date: Optional. Format – MM/dd/YYYY. The date this Value Set Definition is considered to be active. To be considered Active, Is Active must be true.
- Expiration Date: Optional. Format – MM/dd/YYYY. The date this Value Set Definition is considered to be inactive.
- Source: Optional. List of local identifiers of a person, organization that played a role in the creation or maintenance of this Value Set Definition. To add multiple source, enter the value and click on 'Add' button.
- Real or Context: Optional. The local identifier of a realm, context or situation that pertains to a lexical or semantic assertion about this Value Set Definition. To add multiple realm or context, enter the value and click on 'Add' button. Click the 'Save' button. This will persist the Value Set Definition meta data into the database. A separate windows will be displayed confirming the persistence.

The screenshot shows the 'Value Set Definition Details Console' window. It is divided into two main sections: 'Value Set Definition meta data' and 'Source and Context'. The 'Value Set Definition meta data' section contains fields for 'Value Set Definition URI' (http://bmi.mayo.edu/vedtest/FordAndGM), 'Value Set Definition Name' (VS Contains Ford and GM cards), 'Default Coding Scheme' (Automobiles), 'Concept Domain' (Autos), 'Is Active' (true), 'Status' (Active), 'Owner' (BMT), 'Effective Date (MM/dd/YYYY)' (09/01/2010), and 'Expiration Date (MM/dd/YYYY)' (08/31/2020). The 'Source and Context' section has two sub-sections: 'Sources' and 'Realm or Context'. The 'Sources' section has a text input field with 'BMT Mayo' and an 'Add' button. The 'Realm or Context' section has a text input field with 'Automobiles' and an 'Add' button. On the right side, there are buttons for 'Edit', 'Resolve', 'Remove', 'Save', and 'Close'.



3. Click on 'Definition Entries' tab to add definition entries for this Value Set Definition.

4. For this example, lets add Value Set Definition Reference first, click on 'Add' button with in 'Value Set Definition References' group.

5. A separate window will open to enter Value Set Definition Reference data. Set the Rule Order to 0, Operator to OR and select 'SRITEST:AUTO:GM' Value Set Definition URI from the drop down list and click on 'ADD' button.

6. The Value Set Definition Reference data entered in previous step should now be visible in 'Value Set Definition Reference' group.

7. Next, lets create Entity Reference for this Value Set Definition. Click on 'Add' button in 'Entity References' group.



8. In a separate window that opens to enter Entity Reference data, set following values: Rule Order = 1Operator = OREntity Code = FordEntity Code Namespace = AutomobilesReference Association = hasSubtypeTransitive Closure = trueTarget To Source = falseLeaf Only = falseAnd click on 'Add' button.

Entity Reference

Rule Order :

1

Operator :

OR

Entity Code :

Ford

Entity Code Namespace :

Automobiles

Reference Association :

hasSubtype

Transitive Closure :

true

Target To Source :

false

Leaf Only :

false

CANCEL

ADD

9. The Entity Reference data entered in the previous step should now be visible in 'Entity References' group.

Rule Order	Operator	Entity Code	Entity Code Namespace	Reference Association	Transitive Closure	Target To Source	Leaf Only	
1	OR	Ford	Automobiles	hasSubtype	true	false	false	<div>Add</div> <div>Remove</div>

10. You can resolve the definition now to check what concepts will be returned by the service for this definition.



#### Note

The definition entries (rule set) added in previous steps are not yet saved in the database. Still, the tool lets you to resolve this unsaved Value Set Definition. Click on 'Resolve' button next to 'Value Set Definition meta data' group.

Value Set Definition Details Console

Value Set Definition meta data

Value Set Definition URI :

http://bmi.mayo.edu/vsdtest/FordAndGM

Value Set Definition Name :

VS Contains Ford and GM cards

Default Coding Scheme :

Automobiles

Concept Domain :

Autos

Is Active :

true

Status :

Active

Owner :

BMI

Effective Date (MM/dd/YYYY):

09/01/2010

Expiration Date (MM/dd/YYYY):

08/31/2020

Source and Context

Source:

BMI Mayo

remove

Realms or Context:

Automobiles

GM

Ford

Edit

Resolve

Remove

Save

Close

Definition Entries

Coding Scheme References

Rule Order	Operator	Coding Scheme	
			<div>Add</div> <div>Remove</div>

Value Set Definition References

Rule Order	Operator	Value Set Definition URI	
0	OR	SRITEST:AUTO:GM	<div>Add</div> <div>Remove</div>

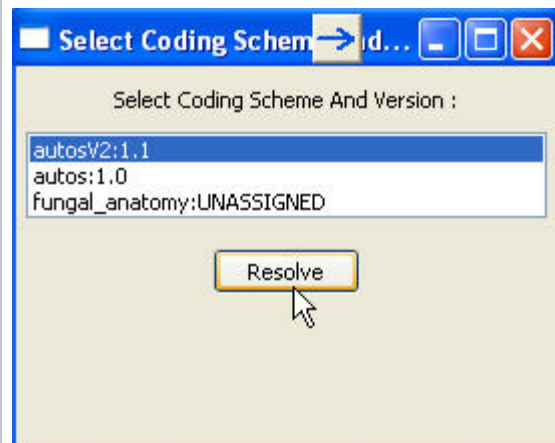
Entity References

Rule Order	Operator	Entity Code	Entity Code Namespace	Reference Association	Transitive Closure	Target To Source	Leaf Only	
1	OR	Ford	Automobiles	hasSubtype	true	false	false	<div>Add</div> <div>Remove</div>

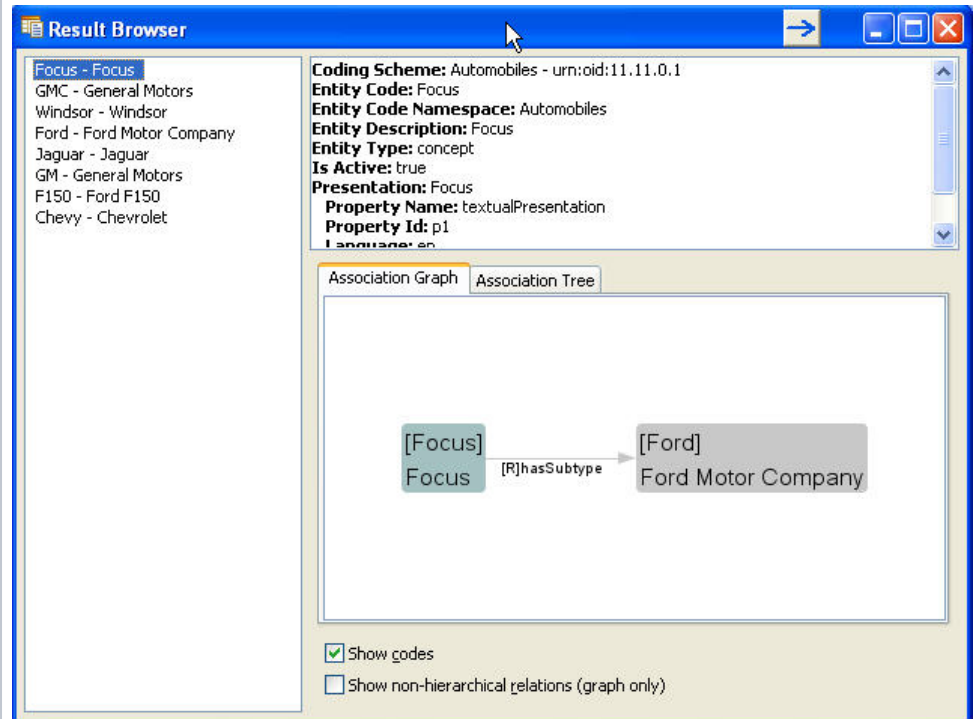
Property References

Rule Order	Operator	Coding Scheme	Property Name	Property Match Value	Property Match Algorithm	
						<div>Add</div> <div>Remove</div>

11. Select Coding Scheme Version(s) to use against to resolve the Value Set Definition and click on 'Resolve' button.



12. Resolved concepts of the Value Set Definition will be displayed in a separate window. Only concepts related to GM and Ford will be returned. You can click on the concept to get more details.



13. Optionally, you can save the changed Value Set Definition to the database. TO do this, click on 'Save' button.

14. The new Value Set Definition created will now be available at the main console.

## Editing Value Set Definition

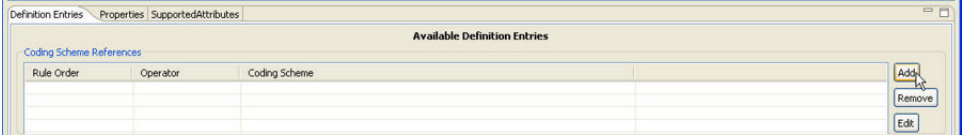
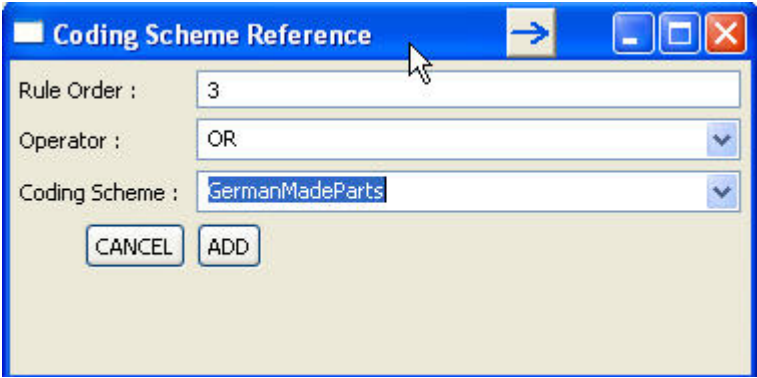
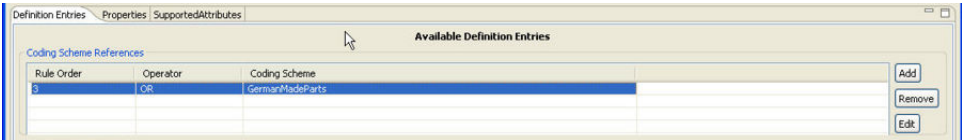
This function allows you to edit Value Set Definition. Using the tool you can perform: Modify – Meta data Add/Modify/Remove – Definition Entries (rule sets) Add/Modify/Remove – Properties

Step	Action
1. Select the Value Set Definition to be edited and click on 'Display Details'	
2. Click on 'Edit' button on the Value Set Definition Details Console window. This will enable the fields to be edited. Make your changes to anything except the URI field (this is not allowed to change). Click the 'Save' button to save any changes.	

## Adding Definition Entry

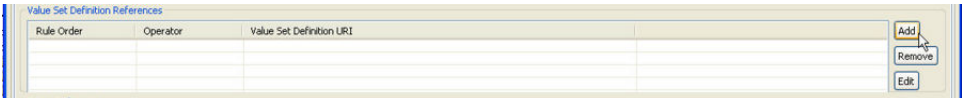
### Adding Coding Scheme Reference

This function allows you to add a new Coding Scheme Reference to existing Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab.

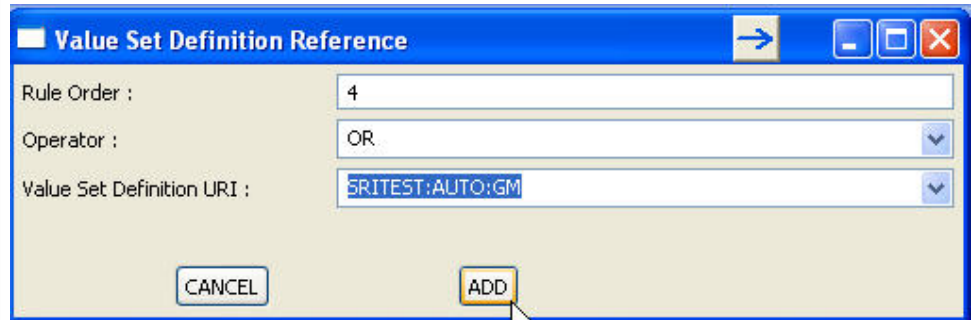
Step	Action
1. Click on 'Add' button within 'Coding Scheme References' group.	
2. Enter the Coding Scheme Reference data in a separate window that opens. Make sure that you enter unique number for Rule Order. Rule Order: Mandatory field. The unique identifier of the definition entry within the definition as well as the relative order in which this entry should be applied. Operator: Mandatory field. How this entry is to be applied to the value set. Select appropriate value from the drop down list. Coding Scheme: Mandatory field. The local identifier of the coding scheme that the entity codes are drawn from. All available coding scheme local identifier will be available in the drop down list, you can choose from this list or enter different value if the coding scheme you want to reference is not yet loaded in the system.  Click the 'ADD' button.	
3. Coding Scheme Reference added in previous step should now be visible within 'Coding Scheme References' group. Click 'Save' button to save the changes.	

### Adding Value Set Definition Reference

This function allows you to add a new Value Set Definition Reference to existing Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab.

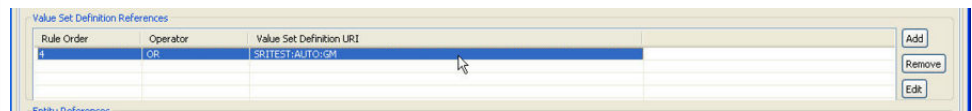
Step	Action
1. Click on 'Add' button within 'Value Set Definition References' group.	

2. Enter the Value Set Definition Reference data in a separate window that opens. Make sure that you enter unique number for Rule Order. Rule Order: Mandatory field. The unique identifier of the definition entry within the definition as well as the relative order in which this entry should be applied. Operator: Mandatory field. How this entry is to be applied to the value set. Select appropriate value from the drop down list. Value Set Definition URI: Mandatory field. The URI of the value set definition to apply the operator to. This value set definition may be contained within the local service or may need to be resolved externally. All available Value Set Definition URI will be available in the drop down list, you can choose from this list or enter different value if the Value Set Definition you want to reference is not yet loaded in the system. Click the 'ADD' button.



The dialog box titled "Value Set Definition Reference" has a blue header bar with a right arrow icon and standard window controls. It contains three input fields: "Rule Order" with the value "4", "Operator" with the value "OR", and "Value Set Definition URI" with the value "SRITEST:AUTO:GM". At the bottom, there are "CANCEL" and "ADD" buttons. A mouse cursor is pointing at the "ADD" button.

3. Value Set Definition Reference added in previous step should now be visible within 'Value Set Definition References' group. Click 'Save' button to save the changes.



The table titled "Value Set Definition References" shows the entry added in the previous step. It has columns for Rule Order, Operator, and Value Set Definition URI. The first row contains the values 4, OR, and SRITEST:AUTO:GM. To the right of the table are "Add", "Remove", and "Edit" buttons. A mouse cursor is hovering over the first row.

Rule Order	Operator	Value Set Definition URI
4	OR	SRITEST:AUTO:GM

## Adding Entity Reference

This function allows you to add a new Entity Reference to existing Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab.

Step	Action																		
1. Click on 'Add' button within 'Entity References' group.	<div><div>Entity References</div><table><thead><tr><th>Rule Order</th><th>Operator</th><th>Entity Code</th><th>Entity Code Namespace</th><th>Reference Association</th><th>Transitive Closure</th><th>Target To Source</th><th>Leaf Only</th><th></th></tr></thead><tbody><tr><td>1</td><td>OR</td><td>Ford</td><td></td><td>hasSubtype</td><td>true</td><td>false</td><td>false</td><td><div><div>Add</div><div>Remove</div></div></td></tr></tbody></table></div>	Rule Order	Operator	Entity Code	Entity Code Namespace	Reference Association	Transitive Closure	Target To Source	Leaf Only		1	OR	Ford		hasSubtype	true	false	false	<div><div>Add</div><div>Remove</div></div>
Rule Order	Operator	Entity Code	Entity Code Namespace	Reference Association	Transitive Closure	Target To Source	Leaf Only												
1	OR	Ford		hasSubtype	true	false	false	<div><div>Add</div><div>Remove</div></div>											



2. Enter the Entity Reference data in a separate window that opens. Make sure that you enter unique number for Rule Order. Rule Order: Mandatory field. The unique identifier of the definition entry within the definition as well as the relative order in which this entry should be applied. Operator: Mandatory field. How this entry is to be applied to the value set. Select appropriate value from the drop down list. Entity Code: Mandatory field. The entity code being reference. Entity Code Namespace: Optional. Local identifier of the namespace of the entityCode. If omitted, the URI of the defaultCodingScheme will be used as the URI of the entity code. Reference Association: Optional. The local identifier of an association that appears in the native relations collection in the default coding scheme. This association is used to describe a set of entity codes. If absent, only the entityCode itself is included in this definition. Transitive Closure: If true and referenceAssociation is supplied and referenceAssociation is defined as transitive, include all entity codes that belong to transitive closure of referenceAssociation as applied to entity code. If true and no referenceAssociation is provided, only the entityCode specified will be included in the definition. If false and referenceAssociation is defined, entityCode specified and immediate nodes associated to the entityCodes will be included in the definition. Default: false Target To Source: If true and referenceAssociation is supplied, navigate from entityCode as the association target to the corresponding sources. If transitiveClosure is true and the referenceAssociation is transitive, include all the ancestors in the list rather than just the direct "parents" (sources). Leaf Only: If true and referenceAssociation is supplied and referenceAssociation is defined as transitive, include all entity codes that are "leaves" in transitive closure of referenceAssociation as applied to entity code. Default: false Click on 'ADD' button.



The dialog box titled 'Entity Reference' contains the following fields and controls:

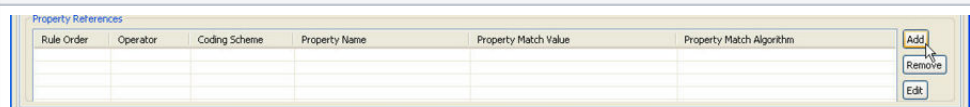
- Rule Order: 2
- Operator: SUBTRACT (dropdown)
- Entity Code: Focus
- Entity Code Namespace: Automobiles
- Reference Association: (empty text box)
- Transitive Closure: false (dropdown)
- Target To Source: false (dropdown)
- Leaf Only: false (dropdown)
- CANCEL button
- ADD button (highlighted with a mouse cursor)

3. Entity Reference added in previous step should now be visible within 'Entity References' group. Click 'Save' button to save the changes.

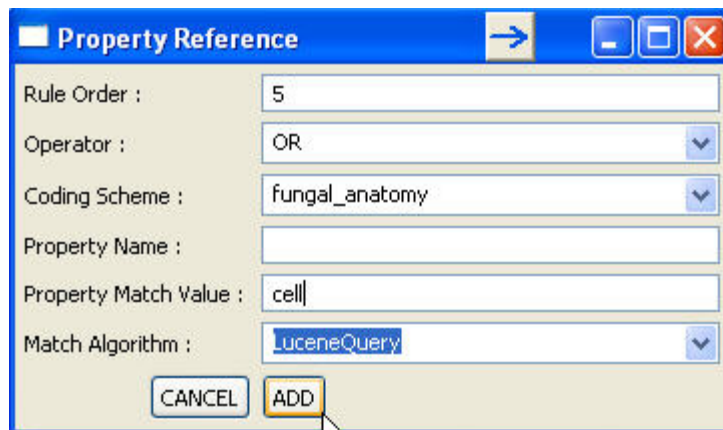
Entity References								
Rule Order	Operator	Entity Code	Entity Code Namespace	Reference Association	Transitive Closure	Target To Source	Leaf Only	
1	OR	Ford		hasSubtype	true	false	false	Add
2	SUBTRACT	Focus	Automobiles		false	false	false	Remove

## Adding Property Reference

This function allows you to add a new Property Reference to existing Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab.

Step	Action
1. Click on 'Add' button within 'Property References' group.	 <p>The dialog box titled 'Property References' contains the following fields and controls:</p> <ul style="list-style-type: none"> <li>Rule Order: (empty text box)</li> <li>Operator: (empty text box)</li> <li>Coding Scheme: (empty text box)</li> <li>Property Name: (empty text box)</li> <li>Property Match Value: (empty text box)</li> <li>Property Match Algorithm: (empty text box)</li> <li>Add button (highlighted with a mouse cursor)</li> <li>Remove button</li> <li>Edit button</li> </ul>

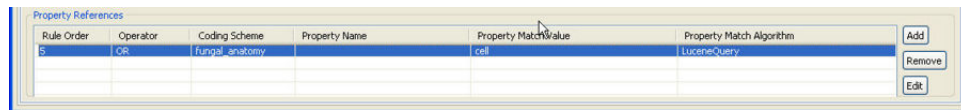
2. Enter the Property Reference data in a separate window that opens. Make sure that you enter unique number for Rule Order. Rule Order: Mandatory field. The unique identifier of the definition entry within the definition as well as the relative order in which this entry should be applied. Operator: Mandatory field. How this entry is to be applied to the value set. Select appropriate value from the drop down list. Coding Scheme: Mandatory field. The local identifier of the codingScheme that this propertyreference will be resolved against. All available coding scheme local identifier will be available in the drop down list, you can choose from this list or enter different value if the coding scheme you want to reference is not yet loaded in the system. Property Name: Optional. The local identifier to be used to restrict the entities to have property with this name. Property Match Value: Optional. Value to be used to restrict entity property. matchAlgorithm can be used in conjunction to get matching entity properties. Property Match Algorithm: Default- Lucene. Algorithm to be used in conjunction with propertyValue. Select from the drop down list. Click on 'ADD' button.



The 'Property Reference' dialog box contains the following fields and controls:

- Rule Order :** Text input field with value '5'.
- Operator :** Dropdown menu with 'OR' selected.
- Coding Scheme :** Dropdown menu with 'fungal\_anatomy' selected.
- Property Name :** Empty text input field.
- Property Match Value :** Text input field with 'cell'.
- Match Algorithm :** Dropdown menu with 'LuceneQuery' selected.
- Buttons:** 'CANCEL' and 'ADD' buttons at the bottom.

3. Property Reference added in previous step should now be visible within 'Property References' group. Click 'Save' button to save the changes.



Rule Order	Operator	Coding Scheme	Property Name	Property Match Value	Property Match Algorithm	
5	OR	fungal_anatomy		cell	LuceneQuery	<input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Edit"/>

## Editing Definition Entries

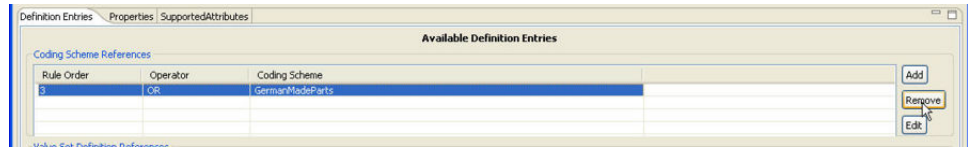

This function allows you to edit an existing Definition Entry. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab.

Depending on what reference you want to modify, select the definition entry and click on 'Edit' button within that reference group and follow the rules as described above for [Adding Definition Entries](#).

## Removing Definition Entries

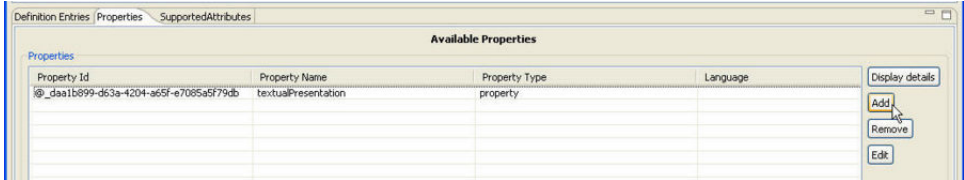
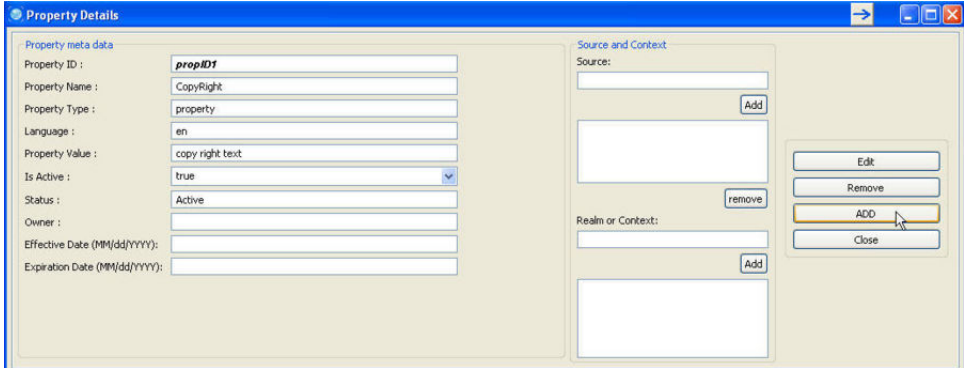
This function allows you to remove an existing Definition Entry from the Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Definition Entries' tab. This function is very straight forward as well. Depending on which reference you want to remove, select the definition entry and click on 'Remove' button with in that reference group.

For example, if you want to remove a Coding Scheme Reference :



Step	Action								
1. With in 'Coding Scheme References' group, select the Coding Scheme Reference entry you want to remove and click on 'Remove' button.	 <p>The 'Available Definition Entries' table shows the following data:</p> <table border="1"> <thead> <tr> <th>Rule Order</th> <th>Operator</th> <th>Coding Scheme</th> <th></th> </tr> </thead> <tbody> <tr> <td>5</td> <td>OR</td> <td>GermanMadeFarts</td> <td> <input type="button" value="Add"/>  <input type="button" value="Remove"/>  <input type="button" value="Edit"/> </td> </tr> </tbody> </table>	Rule Order	Operator	Coding Scheme		5	OR	GermanMadeFarts	<input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Edit"/>
Rule Order	Operator	Coding Scheme							
5	OR	GermanMadeFarts	<input type="button" value="Add"/> <input type="button" value="Remove"/> <input type="button" value="Edit"/>						
2. Click 'Yes' to confirm deletion.	 <p>The 'Remove definition entry?' dialog box contains the following text and controls:</p> <p><b>Remove definition entry?</b></p> <p>Do you really want to remove the selected definition entry?</p> <p><input type="button" value="Yes"/> <input type="button" value="No"/></p>								

## Adding Properties

This function allows you to add new property for a Value Set Definition. Properties could be any additional information that you want to tag to a Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Properties' tab.

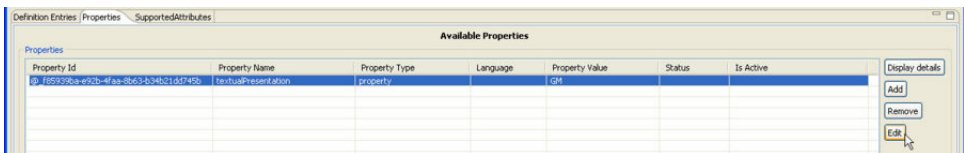
Step	Action
1. Click on 'Add' button in 'Properties' tab.	
2. Enter property information in a separate window (Property Details) that opens. And click on 'ADD' button to add this property to the Value Set Definition. Click 'OK' on the confirm window.	

### Adding Property Qualifier

Step	Action
3. After the property has been added, now you can also add a qualifier for the property just created. Property Qualifier is additional information that you can tag to a property. To do this, click on 'Add' button within 'Available Property Qualifiers' group.	
4. In the Property Qualifier window, enter qualifier data and click on 'Add' button.	

### Editing Property

This function allows you to edit an existing property of a Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Properties' tab.

Step	Action
1. Select a property that needs to be modified and click on 'Edit' button in 'Properties' tab.	

2. Click on 'Edit' button in a separate window (Property Details) that opens.

3. Modify the data and click on 'Add' button to save the changes. Click 'OK' on the confirm window.

Editing Property Qualifier

Step	Action
4. Once you are in 'Property Details' window, you can also edit Property Qualifier. To do this, select the property qualifier to edit and click on 'Edit' button within 'Available Property Qualifiers' group.	
5. In the Property Qualifier window, modify the qualifier data and click on 'Add' button.	

Removing Property Qualifier

Step	Action
6. Once you are in 'Property Details' window, you can also remove Property Qualifier. To do this, select the property qualifier to remove and click on 'Remove' button within 'Available Property Qualifiers' group.	
7. Click 'Yes' to confirm deletion.	—

Removing Property

This function allows you to remove an existing property of a Value Set Definition. You will need to be in 'Value Set Definition Details Console' and in 'Properties' tab.

Step	Action
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1. Select a property that needs to be removed and click on 'Remove' button in 'Properties' tab.  
Click 'Yes' to confirm deletion.

Definition Entries | Properties | SupportedDistributions

Available Properties

Property Id	Property Name	Property Type	Language	Property Value	Status
40149ed0-6200-410a-977a-f5701e302799	TechnicalPresentation	property		all Automobiles nodes	

Add Primary Edit