LexEVS 6.x OWL Export Guide

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LexEVS 6.x provides two methods to export loaded ontologies to an OWL/RDF format. One is to use the LexEVS administration GUI; and the other is to use an export script on the command line.

Preliminary Considerations

- The OWL/RDF exporter is based on Jena 2.6.3. While it exports an OWL file, it also builds up a triple store. The triple store tables stored in the same same database that LexEVS uses.
- The LexEVS 6.0 retrieval API has the limitation of retrieving the association that is from an entity to a data/value. Thus, the OWL/RDF exporter, based on LexEVS retrieval API, has the limitation of handling the owl:hasValue, owl:maxCardinality, owl:minCardinality, owl:cardinality constraints as well.
- The OWL/RDF exporter now can convert OWL, RDF, OBO, and UML formats to OWL/RDF. If the terminology format is not on this list, the exported OWL ontology may be incorrect.



Running an OWL/RDF Export with the Administration GUI

If you chose to install the LexEVS GUI when you installed LexEVS, you will have a 'gui' folder inside of your LexEVS home directory. Assuming you installed the GUI for all operating systems, you will have the following programs under the 'gui' folder:

- Linux_64-lbGUI.sh
- Linux-lbGUI.sh
- OSX-lbGUI.command
- Windows-lbGUI.bat

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Running an OWL/RDF Export Script from the Command Line

After installing LexEVS, you will have an 'admin' folder inside of your LexEVS base installation. The OWL/RDF exporter shell script is in the following folder (for Linux or Windows):

ExportOwlRdf.[sh|bat]

This command will export OWL/RDF without a GUI. For detailed information please refer to the command line parameters for this command in the Administ ration Guide.

Examples:

```
ExportOwlRdf -out "file:///path/to/dir" -f
ExportOwlRdf -out "file:///path/to/dir" -u "sample" -v "1.0" -f
```

Administration GUI export walk-through example

This walk through will show you how to load a terminology and then export it in OWL/RDF format.

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	OBOLoader - This loader loads version 1.2 OBO files into the LexGrid format.							
	ICD-9-CM ClaMLLoader - This loader loads ClaML files into the LexGrid database.							
	SemNetLoader - This loader loads UMLS SemNet Content, into a LexGrid database.							
	MrMap Loader - This loader loads MRMAP.RRF and MRSAT.RRF files into the LexGrid database as a mapping coding scheme. MetaDatal oader - This loader loads metadata yml files into the system							
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	TextLoader - This loader loads LexGrid Text files into the LexGrid database.							
	OWLLoader - This loader loads 'OWL Full' files into the LexGrid format.							
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Refresh Load Manifest Change Tag Activate Deactivate

7. Provide a path in the 'URI' text box. The exported file name is automatically generated by the system, so we don't need to specify the file name. Click on the 'Export' button.	OwlRdfExporter Export Options URI: C:\scratch Browse Async Load Fail on all errors force Export Output
8. A set of status messages will show up in the Output text box. When the 'End State: completed' statement pops up, the exporting process is complete.	OwlRdfExporter Export Options URI: C:\scratch Browse Async Load Fail on all errors force Export Output Output Output 20 - info - Mon Feb 07 15:22:22 CST 2011 - processed 700 associations 22 - info - Mon Feb 07 15:22:45 CST 2011 - processed 700 associations 22 - info - Mon Feb 07 15:22:45 CST 2011 - processed 800 associations 22 - info - Mon Feb 07 15:22:45 CST 2011 - processed 800 associations 23 - info - Mon Feb 07 15:22:45 CST 2011 - processed 800 associations 23 - info - Mon Feb 07 15:22:45 CST 2011 - processed 800 associations 24 - info - Mon Feb 07 15:22:45 CST 2011 - Converting triple store to ontology 24 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without error 25 - info - Mon Feb 07 15:23:36 CST 2011 - Export process completed without e



Command Line Script Exporting Example

We still use the cell.obo as our example ontology and assume that it has been loaded already. It is straightforward to run a command like this instead of using the GUI:

```
ExportOwlRdf -out "file:///home/MyHome" -u "cell" -v "1.0" -f
```

A set of statements will show up, like the following, if it runs successfully:

Output from command line execution...

A file named "cell_UNASSIGNED.owl" will be generated and saved under the specified path. The content of this file is the same as the file generated by the administration GUI.