

CTS2 REST API to LexEVS API Service Mappings

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Implemented CTS2 Interfaces

CodeSystemVersionQuery

CTS2 Interface: edu.mayo.cts2.framework.service.profile.codesystemversion.CodeSystemVersionQueryService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.codesystemversion.LexEvsCodeSystemVersionQueryService

Service Method Mappings Table

CTS2 CodeSystemVersionQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(CodeSystemVersionQuery query)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	CodingSchemeRenderingList getSupportedCodingSchemes()
boolean exists(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable

DirectoryResult<CodeSystemVersionCatalogEntry> getResourceList (CodeSystemVersionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	CodingSchemeRenderingList getSupportedCodingSchemes()
DirectoryResult<CodeSystemVersionCatalogEntrySummary> getResourceSummaries(CodeSystemVersionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	CodingSchemeRenderingList getSupportedCodingSchemes()
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Transformation Table: CTS2 CodeSystemVersionCatalogEntrySummary LexEVS CodingSchemeRendering

CTS2 CodeSystemVersionCatalogEntrySummary	LexEVS CodingSchemeRendering
about	codingSchemeURI (Refer to Note 1 below table)
codeSystemVersionName	localName + '-' + representsVersion (Refer to Note 2 below table)
documentURI	codeSystemVersionURI (Refer to Note 3 below table)
formalName	formalName
resourceSynopsis	content value of codingSchemeSummary's codingSchemeDescription

Note 1: The LexEVS codingSchemeURI value is determined through a special LexEVS URI handler that is responsible for constructing URIs from LexEVS resources.

Note 2: The CTS2 'codeSystemVersionName' is the only non 1-1 mapping. In CTS2, a version name is meant to be unique (even across versions) - so the LexEVS LocalName is concatenated with the LexEVS Version to get a unique name.

Note 3: The codeSystemVersionUri value is determined through a special LexEVS URI handler that is responsible for constructing URIs that represent versions from LexEVS resources.

CodeSystemVersionRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.codesystemversion.CodeSystemVersionReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.codesystemversion.LexEvsCodeSystemVersionReadService

Service Method Mappings Table

CTS2 CodeSystemVersionReadService methods	LexEVS Service Implementation	LexEVS Service methods used
boolean exists(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
boolean existsByTag(NameOrURI parentIdentifier, VersionTagReference tag, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
boolean existsVersionId(NameOrURI codeSystem, String officialResourceVersionId)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)

CodeSystemVersionCatalogEntry getCodeSystemByVersionId(NameOrURI codeSystem, String officialResourceVersionId, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
List<VersionTagReference> getSupportedTags()	Refer to Note 2 below table	Not Applicable
CodeSystemVersionCatalogEntry read(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
CodeSystemVersionCatalogEntry readByTag(NameOrURI codeSystem, VersionTagReference tag, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)

Note 1: Not supported at this time and returns an empty List.

Note 2: Only the default of current tag is supported at this time.

Transformation Table: CTS2 CodeSystemVersionCatalogEntry LexEVS CodingScheme

CTS2 CodeSystemVersionCatalogEntry	LexEVS CodingScheme
about	codingSchemeURI (Refer to Note 1 below table)
codeSystemVersionName	codingSchemeName + '.' + representsVersion (Refer to Note 2 below table)
formalName	formalName
keywordList	values from the collection set of localName
properties	properties
resourceSynopsis	codingScheme.entityDescription.content.value
sourceAndNotation.description	string value "LexEVS"
versionOf.content	codingSchemeName
versionOf.uri	codingSchemeURI (Refer to Note 1 below table)

Note 1: The LexEVS codingSchemeURI value is determined through a special LexEVS URI handler that is responsible for constructing URIs from LexEVS resources.

Note 2: The CTS2 'codeSystemVersionName' is the only non 1-1 mapping. In CTS2, a version name is meant to be unique (even across versions) - so the LexEVS CodingSchemeName is concatenated with the LexEVS Version to get a unique name.

EntityDescriptionQuery

CTS2 Interface: edu.mayo.cts2.framework.service.profile.entitydescription.EntityDescriptionQueryService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.entitydescription.LexEvsEntityQueryService

Service Method Mappings Table

CTS2 EntityDescriptionQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(EntityDescriptionQuery query)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes)

List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
DirectoryResult<EntityDescription> getResourceList (EntityDescriptionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes)
DirectoryResult<EntityDirectoryEntry> getResourceSummaries (EntityDescriptionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes)
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable
Set<? extends PropertyReference> getSupportedTags()	Refer to Note 2 below table	Not Applicable
EntityNameOrURIList intersectEntityList(Set<EntityNameOrURI> entities, EntityDescriptionQuery restrictions, ResolvedReadContext readContext)	Refer to Note 5 below table	Not Applicable
boolean isEntityInSet(EntityNameOrURI nameOrUri, EntityDescriptionQuery query, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes)
EntityReferenceList resolveAsEntityReferenceList (EntityDescriptionQuery arg0, ResolvedReadContext arg1)	Refer to Note 5 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Note 5: Not supported at this time and throws an UnsupportedOperationException.

Transformation Table: CTS2 EntityDirectoryEntry LexEVS ResolvedConceptReference

CTS2 EntityDirectoryEntry	LexEVS ResolvedConceptReference
about	entityUri (Refer to Note 1 below table)
knownEntityDescription.describingCodeSystemVersion.codeSystem	codingSchemeName
knownEntityDescription.describingCodeSystemVersion.content	codingSchemeName + '-' + codingSchemeVersion
knownEntityDescription.designation	entityDescription.content
knownEntityDescription.	

Note 1: The LexEVS entityUri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource.

EntityDescriptionRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.entitydescription.EntityDescriptionReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.entity.LexEvsEntityReadService

Service Method Mappings Table

CTS2 EntityDescriptionReadService methods	LexEVS Service Implementation	LexEVS Service methods used
EntityReference availableDescriptions(EntityNameOrURI entityId, ResolvedReadContext readContext)	Refer to Note 1 below table	Not Applicable
boolean exists(EntityDescriptionReadId identifier, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes)
List<CodeSystemReference> getKnownCodeSystems()	Refer to Note 2 below table	Not Applicable
List<CodeSystemVersionReference> getKnownCodeSystemVersions()	Refer to Note 2 below table	Not Applicable
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 2 below table	Not Applicable
List<VersionTagReference> getSupportedVersionTags()	Refer to Note 2 below table	Not Applicable
EntityDescription read(EntityDescriptionReadId identifier, ResolvedReadContext readContext)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityTypes) - LexBIGServiceConvenienceMethods getGenericExtension("LexBIGServiceConvenienceMethods")
List<EntityListEntry> readEntityDescriptions(EntityNameOrURI entityId, ResolvedReadContext readContext)	Refer to Note 1 below table	Not Applicable
DirectoryResult<EntityListEntry> readEntityDescriptions(EntityNameOrURI entityId, SortCriteria sortCriteria, ResolvedReadContext readContext, Page page)	Refer to Note 1 below table	Not Applicable

Note 1: Not supported at this time and throws an UnsupportedOperationException.

Note 2: Not supported at this time and returns an empty List.

Transformation Table: CTS2 EntityDescription LexEVS ResolvedConceptReference

CTS2 EntityDescription	LexEVS ResolvedConceptReference
namedEntityDescription.about	entityUri (Refer to Note 1 below table)
namedEntityDescription.designation.designationRole	getEntity().getPresentation().isIsPreferred() (Refer to Note 2 below table)
namedEntityDescription.designation.value	getEntity().getPresentation().getValue().getContent()
namedEntityDescription.describingCodeSystemVersion - CodeSystemVersionReference.codeSystem	codingSchemeName
namedEntityDescription.describingCodeSystemVersion - CodeSystemVersionReference.nameAndMeaningReference.content	codingSchemeName + '-' + codingSchemeVersion
namedEntityDescription.entityID.name	getEntity().getEntityCode()
namedEntityDescription.entityID.nameSpace	getEntity().getEntityCodeNamespace()
namedEntityDescription.parent - URIAndEntityName.name	per Association, the Association's AssociatedConcept.code

namedEntityDescription.parent - URIAndEntityName.nameSpace	per Association, the Association's AssociatedConcept.codeNameSpace
namedEntityDescription.parent - URIAndEntityName.uri	entityUri (Refer to Note 3 below table)

Note 1: The LexEVS entityUri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource.

Note 2: The CTS2 designationRole value is determined on the LexEVS Presentation object(s) of the LexEVS Entity associated with the LexEVS ResolvedConceptReference. If the given LexEVS Presentation object is preferred then the corresponding CTS2 designationRole is set to the CTS2 DesignationRole.PREFERRED value, else it is set to the CTS2 DesignationRole.ALTERNATIVE value.

Note 3: The LexEVS entityUri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource. In this case the LexEVS resource is the ResolvedConceptReference (AssociatedConcept) for a particular resolved LexEVS Association.

MapQuery

CTS2 Interface: edu.mayo.cts2.framework.service.profile.map.MapQueryService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.map.LexEvsMapQueryService

Service Method Mappings Table

CTS2 MapQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(MapQuery query)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag) - resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
DirectoryResult<MapCatalogEntry> getResourceList (MapQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag) - resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
DirectoryResult<MapCatalogEntrySummary> getResourceSummaries(MapQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag) - resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSortReferences()	Refer to Note 2 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Transformation Table: CTS2 MapCatalogEntrySummary LexEVS CodingScheme

CTS2 MapCatalogEntrySummary	LexEVS CodingScheme
about	codingSchemeURI (Refer to Note 1 below table)
formalName	formalName
fromCodeSystem	codingScheme.getRelations(0).getSourceCodingScheme()
mapName	codingSchemeName
resourceSynopsis	content value of codingSchemeSummary's codingSchemeDescription
toCodeSystem	codingScheme.getRelations(0).getTargetCodingScheme()

Note 1: The LexEVS codingSchemeURI value is determined through a special LexEVS URI handler that is responsible for constructing URIs from LexEVS resources.

MapRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.map.MapReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.map.LexEvsMapReadService

Service Method Mappings Table

CTS2 MapReadService methods	LexEVS Service Implementation	LexEVS Service methods used
boolean exists(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG.Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
MapVersion read(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG.Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)

Note 1: Not supported at this time and returns an empty List.

Transformation Table: CTS2 MapCatalogEntry LexEVS CodingScheme

CTS2 MapCatalogEntry	LexEVS CodingScheme
about	codingSchemeURI (Refer to Note 1 below table)
formalName	formalName
fromCodeSystem	codingScheme.getRelations(0).getSourceCodingScheme()
keywordList	values from the collection set of localName
mapName	codingSchemeName
properties	properties
resourceSynopsis	codingScheme.entityDescription.content.value

toCodeSystem	codingScheme.getRelations(0).getTargetCodingScheme()
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Note 1: The LexEVS codingSchemeURI value is determined through a special LexEVS URI handler that is responsible for constructing URIs from LexEVS resources.

MapEntryQuery

CTS2 Interface: edu.mayo.cts2.framework.service.profile.mapentry.MapEntryQueryService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.mapentry.LexEvsMapEntryQueryService

Service Method Mappings Table

CTS2 MapEntryQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(MapEntryQuery query)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
DirectoryResult<MapEntry> getResourceList (MapEntryQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
DirectoryResult<MapEntryDirectoryEntry> getResourceSummaries(MapEntryQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSortReferences()	Refer to Note 2 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Transformation Table: CTS2 MapEntryDirectoryEntry LexEVS ResolvedConceptReference

CTS2 MapEntryDirectoryEntry	LexEVS ResolvedConceptReference
href	Refer to Note 1 below table
mapFrom	Refer to Note 2 below table
resourceName	Refer to Note 3 below table

Note 1: the href attribute represents a MapEntry URL value as a String in the format: **mapName**/version/**mapVersionName**/entry/**mapEntryName** where **mapName** is the LexEVS ResolvedConceptReference.getCodingSchemeName() value, **mapVersionName** represents the String value concatenation of 'ResolvedConceptReference.getCodingSchemeName() + "-" + ResolvedConceptReference.getCodingSchemeVersion()', and **mapEntryName** is the encoded value of CTS2 MapEntryDirectoryEntry.mapFrom attribute.

Note 2: the MapEntryDirectoryEntry.mapFrom attribute represents a CTS2 UriAndEntityName object where the UriAndEntityName.name value is the LexEVS ResolvedConceptReference.getCode() value, the UriAndEntityName.nameSpace value is the LexEVS ResolvedConceptReference.getCodeNameSpace() value, and the the UriAndEntityName.uri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource.

Note 3: the resourceName value is the encoded value of the CTS2 MapEntryDirectoryEntry.mapFrom attribute.

MapEntryRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.mapentry.MapEntryReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.mapentry.LexEvsMapEntryReadService

Service Method Mappings Table

CTS2 MapEntryReadService methods	LexEVS Service Implementation	LexEVS Service methods used
boolean exists(MapEntryReadId identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- MappingExtension getGenericExtension("MappingExtension") - Mapping MappingExtension.getMapping(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag, String relationsContainerName) - Mapping restrictToCodes(ConceptReferenceList codeList, SearchContext searchContext)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
MapEntry read(MapEntryReadId, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl. LexBIGServiceImpl	- MappingExtension getGenericExtension("MappingExtension") - Mapping MappingExtension.getMapping(String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag, String relationsContainerName) - Mapping restrictToCodes(ConceptReferenceList codeList, SearchContext searchContext)

Note 1: Not supported at this time and returns an empty List.

Transformation Table: CTS2 MapEntry LexEVS ResolvedConceptReference

CTS2 MapEntry	LexEVS ResolvedConceptReference
assertedBy	codingSchemeName, codingSchemeVersion, codingSchemeURI (Refer to Note 1 below table)
mapFrom	Refer to Note 1 below table
mapSet	Refer to Note 2 below table
mapSet.entryOrder	is always set to value 1
mapSet.mapTarget.entryOrder	set according to the number of CTS2 MapTarget objects added to the CTS2 MapSet object
mapSet.mapTarget.mapTo	Refer to Note 3 below table

mapSet.processingRule	is always set to the CTS2 value MapProcessingRule.ALL_MATCHES
processingRule	is always set to the CTS2 value MapProcessingRule.ALL_MATCHES

Note 1: the MapEntry.mapFrom attribute represents a CTS2 UriAndEntityName object where the UriAndEntityName.name value is the LexEVS ResolvedConceptReference.getCode() value, the UriAndEntityName.nameSpace value is the LexEVS ResolvedConceptReference.getCodeNameSpace() value, and the the UriAndEntityName.uri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource.

Note 2: the CTS2 MapEntry is always set to have only one CTS2 MapSet object.

Note 3: the CTS2 MapTarget.mapTo attribute represents a CTS2 UriAndEntityName object where the UriAndEntityName.name value is the LexEVS AssociatedConcept.getCode() value, the UriAndEntityName.nameSpace value is the LexEVS AssociatedConcept.getCodeNameSpace() value, and the the UriAndEntityName.uri value is determined through a special LexEVS URI handler that is responsible for constructing URIs from the LexEVS resource.

MapVersionQuery

CTS2 Interface: edu.mayo.cts2.framework.service.profile.mapversion.MapVersionQueryService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.mapversion.LexEvsMapVersionQueryService

Service Method Mappings Table

CTS2 MapVersionQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(MapVersionQuery query)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme (String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
DirectoryResult<MapVersion> getResourceList(MapVersionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme (String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
DirectoryResult<MapVersionDirectoryEntry> getResourceSummaries (MapVersionQuery query, SortCriteria sortCriteria, Page page)	org.LexGrid. LexBIG.Impl. LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - getGenericExtension("MappingExtension") - MappingExtension.isMappingCodingScheme (String codingScheme, CodingSchemeVersionOrTag codingSchemeVersionOrTag)
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSortReferences()	Refer to Note 2 below table	Not Applicable

DirectoryResult<EntityDirectoryEntry> mapVersionEntities(NameOrURI mapVersion, MapRole mapRole, MapStatus mapStatus, EntityDescriptionQuery query, SortCriteria sortCriteria, Page page)	Refer to Note 5 below table	Not Applicable
DirectoryResult<EntityDescription> mapVersionEntityList(NameOrURI mapVersion, MapRole mapRole, MapStatus mapStatus, EntityDescriptionQuery query, SortCriteria sortCriteria, Page page)	Refer to Note 5 below table	Not Applicable
EntityReferenceList mapVersionEntityReferences(NameOrURI mapVersion, MapRole mapRole, MapStatus mapStatus, EntityDescriptionQuery query, SortCriteria sortCriteria, Page page)	Refer to Note 5 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Note 5: Not supported at this time and throws an UnsupportedOperationException.

Transformation Table: CTS2 MapVersionDirectoryEntry LexEVS CodingSchemeRendering

CTS2 MapVersionDirectoryEntry	LexEVS CodingSchemeRendering
about	codingSchemeURI
mapVersionName	localName + '-' + representsVersion (Refer to Note 1 below table)
documentURI	codingSchemeURI
formalName	formalName
resourceSynopsis	content value of codingSchemeSummary's codingSchemeDescription

Note 1: The CTS2 'mapVersionName' is the only non 1-1 mapping. In CTS2, a version name is meant to be unique (even across versions) - so the LexEVS LocalName is concatenated with the LexEVS Version to get a unique name.

MapVersionRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.mapversion.MapVersionReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.mapversion.LexEvsMapVersionReadService

Service Method Mappings Table

CTS2 MapVersionReadService methods	LexEVS Service Implementation	LexEVS Service methods used
boolean exists(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
boolean existsByTag(NameOrURI parentIdentifier, VersionTagReference tag, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
List<VersionTagReference> getSupportedTags()	Refer to Note 2 below table	Not Applicable
MapVersion read(NameOrURI identifier, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)

MapVersion readByTag(NameOrURI codeSystem, VersionTagReference tag, ResolvedReadContext readContext)	org.LexGrid.LexBIG. Impl.LexBIGServiceImpl	CodingScheme resolveCodingScheme(String codingScheme, CodingSchemeVersionOrTag versionOrTag)
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Note 1: Not supported at this time and returns an empty List.

Note 2: Only the default of current tag is supported at this time.

Transformation Table: CTS2 MapVersion LexEVS CodingScheme

CTS2 MapVersion	LexEVS CodingScheme
about	codingSchemeURI
formalName	formalName
keywordList	values from the collection set of localName
mapVersionName	codingSchemeName + '-' + representsVersion (Refer to Note 1 below table)
properties	properties
resourceSynopsis	codingScheme.entityDescription.content.value
sourceAndNotation.description	string value "LexEVS"
versionOf.content	codingSchemeName
versionOf.uri	codingSchemeURI

Note 1: The CTS2 'mapVersionName' is the only non 1-1 mapping. In CTS2, a version name is meant to be unique (even across versions) - so the LexEVS CodingSchemeName is concatenated with the LexEVS Version to get a unique name.

ValueSetDefinitionRead

CTS2 Interface: edu.mayo.cts2.framework.service.profile.valuesetdefinition.ValueSetDefinitionReadService

Implementation: edu.mayo.cts2.framework.plugin.service.lexevs.service.mapversion.LexEvsValueSetDefinitionReadService

Service Method Mappings Table

CTS2 MapVersionReadService methods	LexEVS Service Implementation	LexEVS Service methods used
boolean exists(ValueSetDefinitionReadId identifier, ResolvedReadContext readContext)	org.lexgrid.valuesets. LexEVSVValueSetDefinitionServices	ValueSetDefinition getValueSetDefinition(String uri, String revision)
boolean existsByTag(NameOrURI parentIdentifier, VersionTagReference tag, ResolvedReadContext readContext)	Not Applicable	Not Applicable
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
List<VersionTagReference> getSupportedTags()	Refer to Note 2 below table	Not Applicable
ValueSetDefinition read(ValueSetDefinitionReadId identifier, ResolvedReadContext readContext)	org.lexgrid.valuesets. LexEVSVValueSetDefinitionServices	ValueSetDefinition getValueSetDefinition(String uri, String revision)
ValueSetDefinition readByTag(ValueSetDefinitionReadId valueSet, VersionTagReference tag, ResolvedReadContext readContext)	Not Applicable	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Only the default of current tag is supported at this time.

Transformation Table: CTS2 ValueSetDefinition LexEVS ValueSetDefinition

CTS2 ValueSetDefinition	LexEVS ValueSetDefinition
about	valueSetDefinitionURI
documentURI	valueSetDefinitionURI
formalName	valueSetDefinitionURI
CompleteCodeSystemReference	CodingSchemeReference
AssociatedEntitiesReference OR SpecificEntityList	EntityReference
PropertyQueryReference	PropertyReference
CompleteValueSetReference	ValueSetDefinitionReference

ResolvedValueSetQueryService

CTS2 Interface: edu.mayo.cts2.framework.service.profile.resolvedvalueset.ResolvedValueSetQueryService

Implementation:

edu.mayo.cts2.framework.plugin.service.lexevs.service.resolvedvalueset.LexEvsResolvedValueSetQueryService

Service Method Mappings Table

org.lexgrid.resolvedvalueset

CTS2 ResolvedValueSetQueryService methods	LexEVS Service Implementation	LexEVS Service methods used
int count(EntityDescriptionQuery query)	org.lexgrid.resolvedvalueset.LexEVSResolvedValueSetService	listAllResolvedValueSets()
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 1 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
DirectoryResult<ResolvedValueSetDirectoryEntry> getResourceSummaries(ResolvedValueSetQuery query, SortCriteria sort, Page page)	org.LexGrid.LexBIG.Impl.LexBIGServiceImpl	- CodingSchemeRenderingList getSupportedCodingSchemes() - CodedNodeSet getNodeSet(String codingScheme, CodingSchemeVersionOrTag versionOrTag, LocalNameList entityType)
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable

Note 1: Not supported at this time and returns an empty List.

Note 2: Not supported at this time and returns an empty Set.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".

Note 5: Not supported at this time and throws an UnsupportedOperationException.

Transformation Table: CTS2 ResolvedValueSetDirectoryEntry LexEVS CodingScheme

CTS2 ResolvedValueSetDirectoryEntry	LexEVS CodingScheme
setResolvedValueSetURI	codingSchemeURI (Refer to Note 1 below table)
setResourceName	codingSchemeName + '-' + representsVersion (Refer to Note 2 below table)
ResolvedValueSetHeader	property= codingScheme.propertyName[LexEVSValueSetDefinitionServices.RESOLVED_AGAINST_CODING_SCHEME_VERSION) ResolvedValueSetHeaderURI= property.getValue().getContent(); ResolvedValueSetHeaderVersion=property.getPropertyQualifier().getValue().getContent();
resourceSynopsis	codingScheme.entityDescription.content.value

Note 1: The LexEVS codingSchemeURI value is determined through a special LexEVS URI handler that is responsible for constructing URIs from LexEVS resources.

Note 2: The CTS2 'codeSystemVersionName' is the only non 1-1 mapping. In CTS2, a version name is meant to be unique (even across versions) - so the LexEVS CodingSchemeName is concatenated with the LexEVS Version to get a unique name.

ResolvedValueSetResolutionService

CTS2 Interface: edu.mayo.cts2.framework.plugin.service.lexevs.service.resolvedvalueset.ResolvedValueSetResolutionService

Implementation: edu.mayo.cts2.framework.service.profile.resolvedvalueset.ResolvedValueSetResolutionService

Service Method Mappings Table

CTS2 ResolvedValueSetResolutionService methods	LexEVS Service Implementation	LexEVS Service methods used
Set<? extends MatchAlgorithmReference> getSupportedMatchAlgorithms()	Refer to Note 3 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSearchReferences()	Refer to Note 4 below table	Not Applicable
Set<? extends PropertyReference> getSupportedSortReferences()	Refer to Note 2 below table	Not Applicable
Set<PredicateReference> getKnownProperties()	Refer to Note 2 below table	Not Applicable
List<DocumentedNamespaceReference> getKnownNamespaceList()	Refer to Note 2 below table	Not Applicable
ResolvedValueSetResult<EntitySynopsis> getResolution(ResolvedValueSetReadId identifier, Set<ResolvedFilter> filterComponent, Page page)	Uses CTS2's LexEvsEntityQueryService	Not Applicable
ResolvedValueSet getResolution(ResolvedValueSetReadId identifier)	Refer to Note 1 below table	Not Applicable
ResolvedValueSetResult<EntityDirectoryEntry> getEntities(ResolvedValueSetReadId identifier, ResolvedValueSetResolutionEntityQuery query, SortCriteria sortCriteria, Page page)	Uses CTS2's LexEvsEntityQueryService	Not Applicable
DirectoryResult<EntityDescription> getEntityList(ResolvedValueSetReadId identifier, ResolvedValueSetResolutionEntityQuery query, SortCriteria sortCriteria, Page page)	Uses CTS2's LexEvsEntityQueryService	Not Applicable

Note 1: Not supported at this time and throws an UnsupportedOperationException.

Note 2: Not supported at this time and returns null.

Note 3: Returned Set contains 3 MatchAlgorithmReference objects supporting "exactMatch", "contains" and "startsWith".

Note 4: Returned Set contains 3 PropertyReference objects supporting attributes "about", "resourceName" and "resourceSynopsis".