1.   Feature catalogue

Feature catalogue metadata

Application Schema	Open Land Use Core
Version number	2.0.0

Note that further application schemas may be developed from the Open Land Use Core application schema in the future.

Types defined in the feature catalogue

Type	Package	Stereotypes
OLUObject	OpenLandUseCore	**<<featureType>>**
OLUAttributeSet	OpenLandUseCore	
CLCValue	OpenLandUseCore	**<<codelist>>**
HILUCSValue	OpenLandUseCore	**<<codelist>>**
OriginDataset	OpenLandUseCore	
OriginMetadata	OpenLandUseCore	
OLUTheme	OpenLandUseCore	
AdministrativeUnit	OpenLandUseCore	**<<featureType>>**

1.1.   OLUObject

OLUObject	
Name: Definition: Stereotypes:	OLUObject A representation of a real-world phenomenon in terms of land use theme with explicit localization. <<featureType>>
Attribute: fid	

Name:	uniqueIdentifier
Value type:	Integer
Definition:	Internal object identifier.
Description:	Internal object identifier assigned during the first import of an object and persistent until an object ceased to exist.
Multiplicity:	1

Attribute: zValue

Name:	zValue
Value type:	Integer
Definition:	Order of a particular OLUObject.
Description:	The z-value defines the order of a particular OLUObject in the set of datasets.
Multiplicity:	1

Attribute: validFrom

Name:	validFrom
Value type:	TM_Object
Definition:	Beginning of the OLUObject lifespan
Description:	Beginning of the OLUObject lifespan
Multiplicity:	0..1

Attribute: validTo

Name:	validTo
Value type:	TM_Object
Definition:	End of the OLUObject lifespan
Description:	End of the OLUObject lifespan
Multiplicity:	0..1

Attribute: geometry

Name:	geometry
Value type:	GM_MultiPolygon
Definition:	Geometry associated with the OLUObject.
Description:	Geometry associated with the OLUObject as defined in an imported dataset
Multiplicity:	1

Association role: originatedFrom

Name:	originatedFrom
Value type:	OriginDataset
Definition:	OriginDataset from which OLUObject is originated
Description:	OriginDataset from which OLUObject is originated when original dataset was imported in the model
Multiplicity:	1
Stereotypes:	

Association role: relatedTo

Name: Value type: Definition: Description: Multiplicity: Stereotypes:	relatedTo OLUAttributeSet AttributeSet to which OLUObject is related AttributeSet to which OLUObject is related by spatial relation or by definition as described in the imported dataset 1..*

Association role: relatedTo

Name: Value type: Definition: Description: Multiplicity: Stereotypes:	relatedTo AdministrativeUnit AdministrativeUnit to which OLUObject is related AdministrativeUnit to which OLUObject is related by spatial relation 1..*

1.2.   OLUAttributeSet

OLUAttributeSet	
Name: Definition: Stereotypes:	AttributeSet The object for storing non-geometric attributes of OLUObject.

Attribute: fid	
Name: Value type: Definition: Description: Multiplicity:	uniqueIdentifier Integer Internal object identifier. Internal object identifier assigned during the first import of an object and persistent until an object ceased to exist. 1

Attribute: clcValue	
Name: Value type: Definition: Description: Multiplicity:	clcValue Integer Identifier of the CLC category Identifier representing the category form the Corine Land Cover (CLC) classification. 1

Attribute: hilucsValue	
Name: Value type: Definition: Description: Multiplicity:	hilucsValue Integer Identifier of the HILUCS category Identifier representing the category of the HILUCS classification 1

Attribute: otherAttributes	

Name:	otherAttributes
Value type:	CharacterString
Definition:	Set of other attributes of the OLUObject
Description:	Text containing additional attributes of the OLUObject as defined in an imported dataset, formatted in a set of key-value pairs
Multiplicity:	1

Attribute: attributeOrigin	
Name:	attributeOrigin
Value type:	AttributeOriginType
Definition:	Category of origin of the AttributeSet
Description:	The category of origin of the AttributeSet defines whether the set of attributes was imported together with OLUObject from the original dataset or related by model.
Multiplicity:	1

Association role: relatedTo	
Name:	relatedTo
Value type:	OLUObject
Definition:	OLUObject to which AttributeSet is related
Description:	OLUObject to which AttributeSet is related by spatial relations or by definition as described in the original dataset
Multiplicity:	1..*
Stereotypes:	

Association role: originatedFrom	
Name:	originatedFrom
Value type:	OriginDataset
Definition:	OriginDataset from which AttributeSet is originated
Description:	OriginDataset from which AttributeSet is originated when original dataset was imported in the model
Multiplicity:	1
Stereotypes:	

1.3.   OriginDataset

OriginDataset	
Name:	OriginDataset
Definition:	Representation of the original dataset imported to the data model containing representations of a real-world phenomena by geometric and non-geometric features.
Stereotypes:	

Attribute: identifier	

Name:	identifier
Value type:	Integer
Definition:	Internal identifier of an imported dataset.
Description:	Internal identifier of an imported dataset providing geometric and/or non-geometric features for OLUObject.
Multiplicity:	1

Attribute: URI

Name:	URI
Value type:	URI
Definition:	Link to the data set
Description:	Link to the imported data set according to the identifier indicated in the attribute identifier.
Multiplicity:	1

Attribute: datasetType

Name:	datasetType
Value type:	DatasetTypeValue
Definition:	The type of origin dataset.
Description:	The type of the origin dataset used for describing the type of the dataset imported to the model - reference, thematic etc.
Multiplicity:	1

Association role: relatedTo

Name:	relatedTo
Value type:	OriginMetadata
Definition:	OriginMetadata to which OriginDataset is related
Description:	OriginMetadata to which OriginDataset is related as it contains fully
Multiplicity:	metadata description of the OriginDataset
Stereotypes:	1

1.4.   OriginMetadata

OriginMetadata	
Name:	Metadata
Definition:	Means information describing spatial data sets and spatial data services and making it possible to discover, inventory and use them.
Stereotypes:	

Attribute: identifier

Name:	identifier
Value type:	Integer
Definition:	Internal identifier of a set of metadata of a dataset
Description:	Internal identifier of a set of metadata of a dataset providing geometric and/or non-geometric features for OLUObject.
Multiplicity:	1

Attribute: originName

Name: Value type: Definition: Description: Multiplicity:	originName CharacterString Full name of the origin dataset Textual full name of the origin dataset 1

Attribute: validFrom

Name: Value type: Definition: Description: Multiplicity:	validFrom TM_Object Beginning of the dataset lifespan Beginning of the dataset lifespan 0..1

Attribute: validTo

Name: Value type: Definition: Description: Multiplicity:	validTo TM_Object End of the dataset lifespan End of the dataset lifespan 0..1

Attribute: metadata

Name: Value type: Definition: Description: Multiplicity:	metadata CharacterString Metadata record from the metadata catalogue Metadata record from the metadata catalogue (produced by Micka dataset catalogue, in Micka-lite profile) NOTE 1: Metadata are stored in the form of XML document thus the data type should accept XML format. 1

Attribute: geometryType

Name: Value type: Definition: Description: Multiplicity:	geometryType GeometryTypeValue Type of geometry of the original dataset Type of geometry of the original dataset 1

Attribute: columnNames

Name: Value type: Definition: Description: Multiplicity:	columnName CharacterString List of column names of the original dataset List of column names of the original dataset 1

Attribute: zValue

Name:	zValue
Value type:	Integer
Definition:	Order of a particular OriginDataset.
Description:	The z-value defines the order of a particular OriginDataset in the set of datasets.
Multiplicity:	1

Attribute: isReference	

Name:	isReference
Value type:	Boolean
Definition:	Defines if the OriginDataset contains reference geometries.
Description:	Defines whether the OriginDataset contains reference geometries or it contains thematic data imported to the model.
Multiplicity:	1

Association role: relatedTo	

Name:	relatedTo
Value type:	Theme
Definition:	Theme to which OriginDataset is related
Description:	Theme to which OriginDataset is related.
Multiplicity:	1..*
Stereotypes:	

1.5.   Theme

Theme	
Name:	Theme
Definition:	Catalogue of themes characterizing content of imported datasets
Stereotypes:	

Attribute: identifier	

Name:	identifier
Value type:	Integer
Definition:	Internal identifier of a theme
Description:	Internal identifier of a theme
Multiplicity:	1

Attribute: themeName	

Name:	themeName
Value type:	CharacterString
Definition:	Plain text denotation of the Theme
Description:	Plain text denotation of the Theme
Multiplicity:	1

Attribute: origin	

Name:	origin
Value type:	CharacterString
Definition:	Plain text description of origin of the Theme
Description:	Plain text description of origin of the Theme
Multiplicity:	1

Attribute: URI	

Name:	URI
Value type:	URI
Definition:	Link to the theme
Description:	Link to the theme
Multiplicity:	1

1.6.   AdministrativeUnit

AdministrativeUnit	
Name: Definition:	Administrative unit Units of administration, dividing areas where countries have and/or exercise jurisdictional rights, for local, regional and national governance, separated by administrative boundaries.
Stereotypes:	<<featureType>>

Attribute: identifier	

Name:	identifier
Value type:	CharacterString
Definition:	External identifier of the administrative unit
Description:	External identifier of the administrative unit defined by the origin of the administrative unit
Multiplicity:	1

Attribute: unitName	

Name:	unitName
Value type:	CharacterString
Definition:	Plain text denotation of the Administrative unit
Description:	Plain text denotation of the Administrative unit as it is defined in the origin of the administrative unit
Multiplicity:	1

Attribute: origin	

Name:	origin
Value type:	URI
Definition:	Link to the origin of the Administrative Unit
Description:	Link to the origin of the Administrative Unit
Multiplicity:	1

Attribute: levelCode	

Name:	levelCode
Value type:	integer
Definition:	Level of the administrative unit in the hierarchy
Description:	Level of the administrative unit in the hierarchy of administrative division, harmonized with ISO 3166
Multiplicity:	1

Attribute: countryCode	

Name:	countryCode
Value type:	CharacterString
Definition:	ISO 3166 Alpha-2 code of the country
Description:	ISO 3166 Alpha-2 code of the country
Multiplicity:	1

Attribute: geometry	

Name:	geometry
Value type:	GM_MultiPolygon
Definition:	Geometry associated with the Administrative Unit
Description:	Geometry associated with the Administrative Unit as defined in the origin of the Administrative Unit
Multiplicity:	1

Association role: parent	

Name:	parent
Value type:	AdministrativeUnit
Definition:	Parent administrative unit in the hierarchy
Description:	Parent administrative unit in the hierarchy of administrative division of the country
Multiplicity:	0..1