

My INSPIRE Data Scope

1. Selected Objects

1.1. E Road

Definition: A collection of road link sequences and or individual road links that represents a route that is part of the international E-road network, characterized by its European route number.

Description: EXAMPLE E40.

INSPIRE Data Theme: Transport Networks - <https://inspire.ec.europa.eu/theme/tn>

INSPIRE Application schema: Road Transport Network -

<https://inspire.ec.europa.eu/applicationschema/tn-ro>

Subtype of: Transport Link Set

1.1.1. Attributes of E Road

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
european Route Number	1	voidable	Character String	Code, identifying the route in the international E-road network. The code always starts with a letter 'E', followed by a one-, two- or three-digit number.	ERoad
valid From	1	voidable	Date Time	The time when the transport link set started to exist in the real world.	TransportLinkSet
valid To	0...1	voidable	Date Time	The time from which the transport link set no longer exists in the real world.	TransportLinkSet

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
geographical Name	0...1	voidable	Geographical Name	A geographical name that is used to identify the transport network object in the real world. It provides a 'key' for implicitly associating different representations of the object.	TransportObject
begin Lifespan Version	1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.	NetworkElement
inspire Id	0...1		Identifier	External object identifier of the spatial object.	NetworkElement
end Lifespan Version	0...1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.	NetworkElement

1.1.2. Associations of E Road

1.2. Transport Link Set

Definition: A collection of transport link sequences and or individual transport links that has a specific function or significance in a transport network.

Description: NOTEThis spatial object type supports the aggregation of links to form objects with branches, loops, parallel sequences of links, gaps, etc.EXAMPLEA dual carriageway road, as a collection of the two link sequences that represent each carriageway.

INSPIRE Data Theme: Transport Networks - <https://inspire.ec.europa.eu/theme/tn>

INSPIRE Application schema: Common Transport Elements -

<https://inspire.ec.europa.eu/applicationschema/tn>

Subtype of: Transport Object, Link Set

Supertype of: Cableway Link Set, Air Route, Railway Line, Waterway, E Road, Road

1.2.1. Attributes of Transport Link Set

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
valid From	1	voidable	Date Time	The time when the transport link set started to exist in the real world.	TransportLinkSet
valid To	0..1	voidable	Date Time	The time from which the transport link set no longer exists in the real world.	TransportLinkSet
geographical Name	0..1	voidable	Geographical Name	A geographical name that is used to identify the transport network object in the real world. It provides a 'key' for implicitly associating different representations of the object.	TransportObject
begin Lifespan Version	1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.	NetworkElement
inspire Id	0..1		Identifier	External object identifier of the spatial object.	NetworkElement

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
end Lifespan Version	0...1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.	NetworkElement

1.2.2. Constraints of Transport Link Set

Name	Note
All components belong to same transport network	/* A transport link set must be composed of transport links and or transport link sequences that all belong to the same transport network. */inv: link->forall(l l.inNetwork = self.inNetwork)
All objects have inspireId	/* All transport link sets have an external object identifier. */inv:inspireId->notEmpty()

1.2.3. Associations of Transport Link Set

Association name	Definition	Description	Object Association	Multiplicity	Stereotype
link - from Link Set	Abstract base type representing a linear network element that may be used as a target in linear referencing.		Generalised Link (See Association)	1..*	

1.3. Transport Object

Definition: An identity base for transport network objects in the real world.

Description: NOTE Derived "views" of real-world transport objects are represented through specialisations in other application schemas; all representations of the same real-world object share a common geographic name.

INSPIRE Data Theme: Transport Networks - <https://inspire.ec.europa.eu/theme/tn>

INSPIRE Application schema: Common Transport Elements -

<https://inspire.ec.europa.eu/applicationschema/tn>

Supertype of: Transport Area, Transport Link, Transport Link Sequence, Transport Link Set, Transport Node, Transport Point

1.3.1. Attributes of Transport Object

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
geographical Name	0...1	voidable	Geographical Name	A geographical name that is used to identify the transport network object in the real world. It provides a 'key' for implicitly associating different representations of the object.	TransportObject

1.3.2. Associations of Transport Object

1.4. Link Set

Definition: A collection of link sequences and/or individual links that has a specific function or significance in a network.

Description: NOTE This spatial object type supports the aggregation of links to form objects with branches, loops, parallel sequences of links, gaps, etc. EXAMPLE A dual carriageway road, as a collection of the two link sequences that represent each carriageway.

INSPIRE Application schema: Network - <https://inspire.ec.europa.eu/applicationschema/net>

Subtype of: Network Element

Supertype of: Transport Link Set, Utility Link Set

1.4.1. Attributes of Link Set

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
begin Lifespan Version	1	lifeCycleInfo	Date Time	Date and time at which this version of	NetworkElement

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
				the spatial object was inserted or changed in the spatial data set.	
inspire Id	0..1		Identifier	External object identifier of the spatial object.	NetworkElement
end Lifespan Version	0..1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.	NetworkElement

1.4.2. Associations of Link Set

Association name	Definition	Description	Object Association	Multiplicity	Stereotype
link - from Link Set	Abstract base type representing a linear network element that may be used as a target in linear referencing.		Generalised Link (See Association)	1..*	

2. Associations

2.1. Mandatory Associated objects

2.1.1. Generalised Link

Definition: Abstract base type representing a linear network element that may be used as a target in linear referencing.

INSPIRE Application schema: Network - <https://inspire.ec.europa.eu/applicationschema/net>

Subtype of: Network Element

Supertype of: Link , Link Sequence

Attributes of Generalised Link

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
begin Lifespan Version	1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was inserted or changed in the spatial data set.	NetworkElement
inspire Id	0...1		Identifier	External object identifier of the spatial object.	NetworkElement
end Lifespan Version	0...1	lifeCycleInfo	Date Time	Date and time at which this version of the spatial object was superseded or retired in the spatial data set.	NetworkElement

3. Complex Types

3.1. Identifier

Definition: External unique object identifier published by the responsible body, which may be used by external applications to reference the spatial object.

Description: NOTE1 External object identifiers are distinct from thematic object identifiers. NOTE 2 The voidable version identifier attribute is not part of the unique identifier of a spatial object and may be used to distinguish two versions of the same spatial object. NOTE 3 The unique identifier will not change during the life-time of a spatial object.

INSPIRE Application schema: Base Types - <https://inspire.ec.europa.eu/applicationschema/base>

Attributes of Identifier

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
local Id	1		Character String	A local identifier, assigned by the data provider. The local identifier is unique within the namespace, that is no other spatial object carries the same unique identifier.	Identifier
namespace	1		Character String	Namespace uniquely identifying the data source of the spatial object.	Identifier

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
version Id	0..1	lifeCycleInfo	Character String	The identifier of the particular version of the spatial object, with a maximum length of 25 characters. If the specification of a spatial object type with an external object identifier includes life-cycle information, the version identifier is used to distinguish between the different versions of a spatial object. Within the set of all versions of a spatial object, the version identifier is unique.	Identifier

3.2. Character String

Package: Text

Subtype of: Sequence< Character>

Supertype of: O C L, Language Specific Character String, Code, Coordinates, URI

Attributes of Character String

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
character Set	1		Character Set Code		CharacterString
elements	size		Character		CharacterString

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
max Length	1		Integer		CharacterString
size	1		Integer		CharacterString

3.3. Geographical Name

Definition: Proper noun applied to a real world entity.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Attributes of Geographical Name

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
language	1	voidable	Character String	Language of the name, given as a three letters code, in accordance with either ISO 639-3 or ISO 639-5.	GeographicalName
nativeness	1	voidable	Nativeness Value	Information enabling to acknowledge if the name is the one that is/was used in the area where the spatial object is situated at the instant when the name is/was in use.	GeographicalName

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
name Status	1	voidable	Name Status Value	Qualitative information enabling to discern which credit should be given to the name with respect to its standardisation and/or its topicality.	GeographicalName
source Of Name	1	voidable	Character String	Original data source from which the geographical name is taken from and integrated in the data set providing/publishing it. For some named spatial objects it might refer again to the publishing data set if no other information is available.	GeographicalName
pronunciation	1	voidable	Pronunciation Of Name	Proper, correct or standard (standard within the linguistic community concerned) pronunciation of the geographical name.	GeographicalName
spelling	1...*		Spelling Of Name	A proper way of writing the geographical name.	GeographicalName

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
grammatical Gender	0...1	voidable	Grammatical Gender Value	Class of nouns reflected in the behaviour of associated words.	GeographicalName
grammatical Number	0...1	voidable	Grammatical Number Value	Grammatical category of nouns that expresses count distinctions.	GeographicalName

3.4. Date Time

Package: Dateand Time

Subtype of: Date, Clock Time

Attributes of Date Time

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
century	1		Character String		Date
year	0...1		Character String		Date
month	0...1		Character String		Date
day	0...1		Character String		Date
hour	1		Character String		ClockTime
minute	0...1		Character String		ClockTime
second	0...1		Character String		ClockTime
time Zone	0...1		Character String		ClockTime

3.5. Character

Package: Text

3.6. Integer

Definition: An exact integer value, with no fractional part.

Package: Numerics

Subtype of: Number

Supertype of: Positive Integer

3.7. Spelling Of Name

Definition: Proper way of writing a name.

Description: SOURCE Adapted from [UNGEGN Manual 2006].NOTE Proper spelling means the writing of a name with the correct capitalisation and the correct letters and diacritics present in an accepted standard order.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Attributes of Spelling Of Name

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
text	1		Character String	Way the name is written.	SpellingOfName
script	1	voidable	Character String	Set of graphic symbols (for example an alphabet) employed in writing the name, expressed using the four letters codes defined in ISO 15924, where applicable.	SpellingOfName
transliteration Scheme	0...1	voidable	Character String	Method used for the names conversion between different scripts.	SpellingOfName

3.8. Pronunciation Of Name

Definition: Proper, correct or standard (standard within the linguistic community concerned) pronunciation of a name.

Description: SOURCE Adapted from [UNGEGN Manual 2006].

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

3.8.1. Attributes of Pronunciation Of Name

Attribute name	Multiplicity	Stereotype	Valuetype	Definition	Inherited from
pronunciationSoundLink	0..1	voidable	URI	Proper, correct or standard (standard within the linguistic community concerned) pronunciation of a name, expressed by a link to any sound file.	PronunciationOfName
pronunciationIPA	0..1	voidable	Character String	Proper, correct or standard (standard within the linguistic community concerned) pronunciation of a name, expressed in International Phonetic Alphabet (IPA).	PronunciationOfName

3.8.2. Constraints of Pronunciation Of Name

Name	Note
pronunciationSoundLink or pronunciationIPA not empty	/* At least one of the two attributes pronunciationSoundLink and pronunciationIPA shall not be void. */inv: self.pronunciationIPA -> notEmpty() or self.pronunciationSoundLink -> notEmpty()

4. Code List / Enumeration

4.1. Character Set Code

Package: Text

Code list Values of Character Set Code

Label	Definition
I S O10646-2	
I S O8859	
I S O10646-1	

4.2. Nativeness Value

Definition: The nativeness of a geographical name.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Code list Values of Nativeness Value

Label	Definition
endonym	Name for a geographical feature in an official or well-established language occurring in that area where the feature is situated.
exonym	Name used in a specific language for a geographical feature situated outside the area where that language is widely spoken, and differing in form from the respective endonym(s) in the area where the geographical feature is situated.

4.3. Name Status Value

Definition: The status of a geographical name, that is the information enabling to discern which credit should be given to the name with respect to its standardisation and/or its topicality.

Description: NOTE The precise definition of the values "Official", "Standardised", "Historical" and "Other" can only be decided by Member States according to their legislation and practice.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Code list Values of Name Status Value

Label	Definition
historical	Historical name not in current use.
official	Name in current use and officially approved or established by legislation.
other	Current, but not official, nor approved name.
standardised	Name in current use and accepted or recommended by a body assigned advisory function and/or power of decision in matters of toponymy.

4.4. Grammatical Gender Value

Definition: The grammatical gender of a geographical name.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Code list Values of Grammatical Gender Value

Label	Definition
common	'Common' grammatical gender (the merging of 'masculine' and 'feminine').
feminine	Feminine grammatical gender.
masculine	Masculine grammatical gender.
neuter	Neuter grammatical gender.

4.5. Grammatical Number Value

Definition: The grammatical number of a geographical name.

INSPIRE Data Theme: Geographical Names - <https://inspire.ec.europa.eu/theme/gn>

INSPIRE Application schema: Geographical Names - <https://inspire.ec.europa.eu/applicationschema/gn>

Code list Values of Grammatical Number Value

Label	Definition
dual	Dual grammatical number.
plural	Plural grammatical number.
singular	Singular grammatical number.