Road data

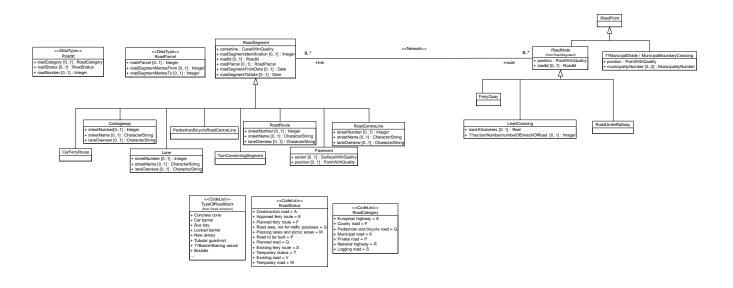


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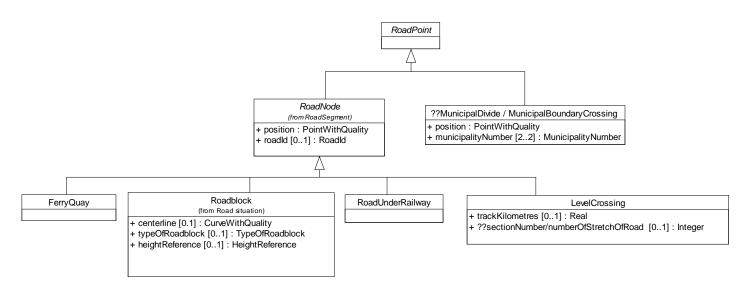
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1.1 Application schema

Main



Node features

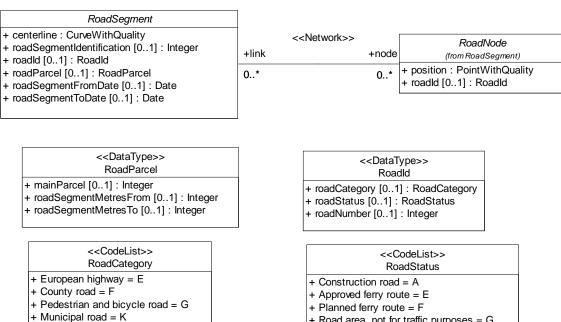


+ Private road = P

+ Logging road = S

+ National highway = R

RoadSegments and RoadNodes



RoadStatus

+ Construction road = A

+ Approved ferry route = E

+ Planned ferry route = F

+ Road area, not for traffic purposes = G

+ Passing lanes and picnic areas = M

+ Road to be built = P

+ Planned road = Q

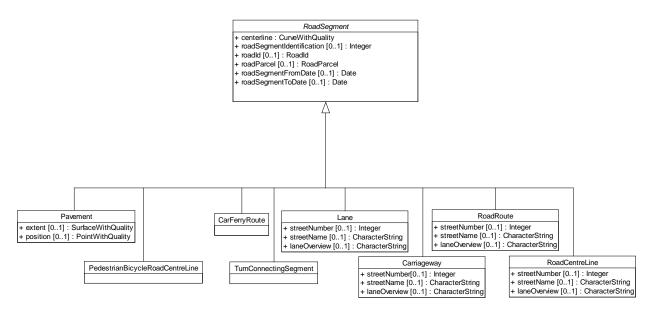
+ Existing ferry route = S

+ Temporary status = T

+ Existing road = V

+ Temporary road = W

Segments of featuretypes



Datatypes

< <datatype>> RoadParcel</datatype>	
+ mainParcel [01] : Integer + roadSegmentMetresFrom [01] : Integer + roadSegmentMetresTo [01] : Integer	

< <datatype>> RoadId</datatype>
1 10 1111
+ roadCategory [01] : RoadCategory + roadStatus [01] : RoadStatus + roadNumber [01] : Integer
+ roadStatus [01] : RoadStatus
+ roadNumber [01]: Integer

Codelists

<CodeList>> RoadCategory + European highway = E + County road = F + Pedestrian and bicycle road = G + Municipal road = K + Private road = P

+ National highway = R

+ Logging road = S

<cCodeList>> RoadStatus + Construction road = A + Approved ferry route = E + Planned ferry route = F + Road area, not for traffic purposes = G + Passing lanes and picnic areas = M + Road to be built = P + Planned road = Q + Existing ferry route = S + Temporary status = T + Existing road = V + Temporary road = W

1.2 Description

1.2.1 CarFerryRoute

No	Name/	Description	Obligation/		Туре	Constraint
	Role name		Condition	Occurrenc		
				е		
1	Class	route serviced by car				Subtype of
	CarFerryRoute	ferries as part of the road				RoadSegm
		network				ent

1.2.2 FerryQuay

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc	Туре	Constraint
				е		
2	Class FerryQuay	ferry ramp on quay				Subtype of RoadNode

1.2.3 RoadCentreLine

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
3	Class RoadCentreLine	line mid-way between edges of road				Subtype of RoadSegm ent
3.1	streetNumber	numbering of all roads, which along with municipality number forms a street ID which is a unique identification of streets	0	1	Integer	
3.2	streetName	street name at address point	0	1	CharacterStrin g	
3.3	laneOverview	lane number indicates location at right angles with respect to the direction of the road	0	1	CharacterStrin g	

1.2.4 RoadUnderRailway

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
4	Class RoadUnderRailw ay	the point at which the road passes under a railway				Subtype of RoadNode

1.2.5 <<DataType>> RoadId

No	Name/	Description	Obligation/	Maximum	Type	Constraint
	Role name		Condition	Occurrenc		
				е		
5	Datatype	compound identifier for a				
	Roadld	road route				

5.1	roadCategory	indicates which type of	0	1	RoadCategory
		road the road segment describes			
		describes			
5.2	roadStatus	indicates the status of the	0	1	RoadStatus
		road segment			
5.3	roadNumber	indicates the number of a	0	1	Integer
		road route			

1.2.6 <<DataType>> RoadParcel

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
6	Datatype RoadParcel	description of a parcel of a road route				
6.1	mainParcel	division of road routes into shorter parcels of relatively uniform standard and function	0	1	Integer	
6.2	roadSegmentMet resFrom	the length value in metres at the start of the road segment	0	1	Integer	
6.3	roadSegmentMet resTo	the length value in metres at the end of the road segment	0	1	Integer	

1.2.7 RoadSegment

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
7	Class RoadSegment	segment of the road network				Abstract
7.1	centerline	course followed by the central part of the object	1	1	CurveWithQual ity	
7.2	roadSegmentIde ntification	unique and persistent ID which belongs to the road segment	0	1	Integer	
7.3	roadld	compound identifier for a road route	0	1	RoadId	
7.4	roadParcel	description of a parcel of a road route	0	1	RoadParcel	
7.5	roadSegmentFro mDate	initial (from) date of validity for road reference (starting date)	0	1	Date	
7.6	roadSegmentTo Date	final (to) date of validity for road reference (ending date)	0	1	Date	
7.7	Role node		0	N	RoadNode	

1.2.8 LevelCrossing

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc	Туре	Constraint
				е		
8	Class	the point at which the road				Subtype of

	LevelCrossing	and track cross each other				RoadNode
		at the same level				
8.1	trackKilometres	railway position specified	0	1	Real	
		in relation to a defined				
		zero-point				
8.2	??sectionNumbe	identifier for the	0	1	Integer	
	r/numberOfStretc	??section/stretch of road				
	hOfRoad	where the object is located				

1.2.9 RoadPoint

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
9	Class RoadPoint	point in the road network				Abstract

1.2.10 RoadRoute

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
10	Class RoadRoute	represents a fictitious centre-line which the physical road does not follow (e.g. in the case of dual carriageway roads)				Subtype of RoadSegm ent
10.	streetNumber	numbering of all roads, which along with municipality number forms a street ID which is a unique identification of streets	0	1	Integer	
10. 2	streetName	street name at address point	0	1	CharacterStrin g	
10. 3	laneOverview	lane number indicates location at right angles with respect to the direction of the road	0	1	CharacterStrin g	

1.2.11 Carriageway

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
11	Class Carriageway	part of road which consists of one or more lanes which lie adjacent to each other and at the same level				Subtype of RoadSegm ent
11.	streetNumber	numbering of all roads, which along with municipality number forms a street ID which is a unique identification of streets	0	1	Integer	
11.	streetName	street name at address	0	1	CharacterStrin	

2		point			g	
11. 3	laneOverview	lane number indicates location at right angles with respect to the	0	1	CharacterStrin g	
		direction of the road				

1.2.12 Lane

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
12	Class Lane	part of road which is intended for a series of vehicles [a single lane of traffic]				Subtype of RoadSegm ent
12.	streetNumber	numbering of all roads, which along with municipality number forms a street ID which is a unique identification of streets	0	1	Integer	
12. 2	streetName	street name at address point	0	1	CharacterStrin g	
12. 3	laneOverview	lane number indicates location at right angles with respect to the direction of the road	0	1	CharacterStrin g	

1.2.13 PedestrianBicycleRoadCentreLine

No	Name/	Description	Obligation/	Maximum	Туре	Constraint
	Role name		Condition	Occurrenc		
				е		
13	Class	line mid-way between				Subtype of
	PedestrianBicycl	edges of				RoadSegm
	eRoadCentreLin	pedestrian/bicycle road				ent
	е					

1.2.14 TurnConnectingSegment

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
14	Class TurnConnectingS egment					Subtype of RoadSegm ent

1.2.15 Pavement

No	Name/	Description	Obligation/	Maximum	Туре	Constraint
	Role name		Condition	Occurrenc		
				е		
15	Class	part of road reserved for				Subtype of
	Pavement	pedestrians Note: lies				RoadSegm
		higher than the				ent
		carriageway and is				
		separated from this by a				
		curb				

15.	extent	area over which an object	0	1	SurfaceWithQu	
1		extends			ality	
15.	position		0	1	PointWithQuali	
2					ty	
15.	Role		0	N	Curb	Aggregrati
3	boundaryCurb					on
15.	Role		0	N	CurbOuter	Aggregrati
4	boundaryCurbOu					on
	ter					

1.2.16 ?MunicipalDivide / MunicipalBoundaryCrossing

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
16	Class ??MunicipalDivid e / MunicipalBounda ryCrossing	point at which road centre- line, middle of track and other routes cross the municipal boundary				Subtype of RoadPoint
16. 1	position	location where the object exists	1	1	PointWithQuali ty	
16. 2	municipalityNum ber	defines the municipality where the point is Note: Statistics Norway has an official list of municipality numbers, in which the two the first digits indicate the county number and the two last municipality	2	2	MunicipalityNu mber	

1.2.17 Association <<Network>> RoadSegment-RoadNode

No	Name/ Role name	Description	Obligation/ Condition	Maximum Occurrenc e	Туре	Constraint
17	Association RoadSegment- RoadNode					
17. 1	Role node		0	N	RoadNode	
17.	Role		0	N	RoadSegment	
2	link					

1.2.17.1 <<CodeList>> RoadStatus

Nr	Code name	Definition/Description	Code
1	CodeList	indicates the status of the road segment	
	RoadStatus		
1.1	Construction road		Α
1.2	Approved ferry route		E
1.3	Planned ferry route		F
1.4	Road area, not for traffic purposes		G
1.5	Passing lanes and picnic areas		M
1.6	Road to be built		Р
1.7	Planned road		Q
1.8	Existing ferry route		S
1.9	Temporary status		Т
1.10	Existing road		V
1.11	Temporary road		W

1.2.17.2 <<CodeList>> RoadCategory

Nr	Code name	Definition/Description	Code
2	CodeList	indicates which type of road the road segment describes	
	RoadCategory		
2.1	European highway		E
2.2	County road		F
2.3	Pedestrian and bicycle road		G
2.4	Municipal road		K
2.5	Private road		Р
2.6	National highway		R
2.7	Logging road		S