

## PRODUCT DESCRIPTION

---

# Topography View service, vector tiles

DOCUMENT VERSION: 2.3

CONCERNING THE INTERFACE VERSION OF THE SERVICE: 1.0

*Figure 1. Section from Topography View service, vector tiles.*



## Innehållsförteckning

<b>1</b>	<b>GENERAL DESCRIPTION</b>	<b>4</b>
1.1	CONTENTS	4
1.2	GEOGRAPHIC COVERAGE	4
1.3	COORDINATE SYSTEM	4
<b>2</b>	<b>QUALITY DESCRIPTION</b>	<b>4</b>
2.1	PURPOSE AND UTILITY	4
2.2	DATA CAPTURE	4
2.2.1	<i>Lineage</i>	4
2.3	MAINTENANCE	5
2.3.1	<i>Maintenance frequency</i>	5
2.4	DATA QUALITY	5
2.4.1	<i>Completeness</i>	5
2.4.2	<i>Logical Consistency</i>	6
2.4.3	<i>Thematic accuracy</i>	6
2.4.4	<i>Positional uncertainty</i>	6
<b>3</b>	<b>LAYOUT AND PLOTTING OF DATA</b>	<b>6</b>
3.1	PLOTTING IN DIFFERENT SCALES	6
3.2	DESCRIPTION OF PRESENTATION STYLES	7
<b>4</b>	<b>LAYER DESCRIPTION AND CODE LIST</b>	<b>8</b>
4.1	ADMINISTRATIVE UNIT	8
4.1.1	<i>Administrativ unit, polygon</i>	8
4.1.2	<i>Administrative boundary, line</i>	9
4.2	FACILITY AREA	11
4.2.1	<i>Facility area, polygon</i>	11
4.2.2	<i>Facility area, line</i>	17
4.2.3	<i>Facility area, point</i>	17
4.3	LAND COVER	21
4.3.1	<i>Land cover, polygon</i>	21
4.3.2	<i>Wetlands</i>	23
4.3.3	<i>Land cover, line</i>	24
4.4	HYDROGRAPHY	26
4.4.1	<i>Hydrography, line</i>	26
4.4.2	<i>Hydrography, point</i>	29
4.5	STRUCTURES	32
4.5.1	<i>Building, polygon</i>	32
4.5.2	<i>Building, line</i>	33
4.5.3	<i>Building, point</i>	34
4.6	HEIGHT	38
4.6.1	<i>Height, line</i>	38
4.6.2	<i>Height, point</i>	39
4.7	COMMUNICATION	41
4.7.1	<i>Communication, line</i>	41
4.7.2	<i>Communication, point</i>	51
4.8	TRANSMISSIONS	56
4.8.1	<i>Transmissions, polygon</i>	56
4.8.2	<i>Transmissions, line</i>	57
4.8.3	<i>Transmissions, point</i>	58
4.9	NATURE CONSERVATION	59
4.9.1	<i>Nature conservation, polygon</i>	59
4.9.2	<i>Nature conservation line</i>	62
4.9.3	<i>Nature conservation, point</i>	62
4.10	MILITARY AREA	64

4.10.1	<i>Military area, polygon</i>	64
4.11	NORTHERN ARTIC CIRCLE	65
4.11.1	<i>Northern artic circle, line</i>	65
4.12	TEXT	66
4.12.1	<i>Text, point</i>	66
<b>5</b>	<b>LIST OF CHANGE</b>	<b>70</b>

## **I General description**

### **1.1 Contents**

Building View service, vector tiles is a view service consisting of Lantmäteriet's topographic data. It includes, among other things, buildings, land cover, roads, watercourses, nature conversations, and place names.

When calling Topography View service, vector tiles transmit data in the form of vector data divided into a grid of tiles.

Topography View service, vector tiles contain datasets produced for use at different scales. The most detailed content is the same as in the product Topography 10 Download, vector. As zooming out in the map is done, the datasets are then replaced with corresponding data as in the products Topography 50/100/250/1M Download, vector.

When calling Topography View service, vector tiles transmit data in the form of vector data divided into a grid of tiles.

### **1.2 Geographic coverage**

Nationwide.

### **1.3 Coordinate system**

Plane: SWEREF 99 TM and Web Mercator.

## **2 Quality description**

### **2.1 Purpose and utility**

The product is primarily intended for users developing various types of applications and solutions for the web. With view services like vector tiles, there is the opportunity to access information about objects, attributes, and to style data according to personal preferences or by using Lantmäteriet's proposed appearance.

For buildings, attributes are included that allow integration possibilities for those who have agreements for products with information from the Real Property Register, such as Lantmäteriet's direct access services for property information.

### **2.2 Data capture**

#### **2.2.1 LINEAGE**

The collection in-house is conducted through interpretation in stereo aerial photographs and orthophotos. A large part of the information is collected in collaboration with other government agencies, municipalities, and organizations. Roads and railways are obtained from the Swedish Transport Administration.

The database for Topographic base data is at a scale of 1:10,000. Automatic generalization occurs in scales 1:50,000 – 1:100,000 based on base data. Event-driven manual updates occur in scales 1:250,000 – 1:1,000,000.

Contour lines have been generated from the National Elevation Database.

## 2.3 Maintenance

The update of topographical objects is conducted partly in-house and partly in collaboration with the authorities or organisations responsible for each type of information.

Nationwide collaboration takes place for buildings, roads, electricity transmission lines, NSL objects (national shoreline), nature conservation areas and military areas. To achieve completeness, data is updated by aerial image interpretation.

### 2.3.1 MAINTENANCE FREQUENCY

The following update intervals apply to different scales:

- **Topography 10:** Information is updated at varying intervals depending on the type of object. Periodic updating takes place in-house at Lantmäteriet and more continuously in collaboration with other government agencies, municipalities, and organisations. The collection in-house is done by interpretation of aerial stereo photographs and orthophotos. Therefore, the timeliness in different areas depends on the [image provision program](#), and the agreements with the collaboration partners. The dataset is updated daily.
- **Topography 50 and Topography 100:** Information is updated once a week for index squares affected by changes. Text and Contour lines are updated regularly, at least once a year. Administrative units are updated annually. Cultural-historical remains are not updated.
- **Topography 250:** Changes from base data are updated monthly.
- **Topography 1M:** Changes from base data are updated monthly.

## 2.4 Data quality

### 2.4.1 COMPLETENESS

Completeness is related to the selection for each object type. To learn more about the selection criteria for each object type, refer to the sections describing individual layers in the product descriptions on the [Lantmäteriet's web site](#) for the following products:

- [Topography 10 Download, vector](#)
- [Topography 50 Download, vector](#)
- [Topography 100 Download, vector](#)
- [Topography 250 Download, vector](#)
- [Topography 1M Download, vector](#)

There are also certain generalization rules for the information, which means that not all objects are represented on the map.

#### **2.4.2 LOGICAL CONSISTENCY**

The structure of point objects, line objects, and area objects has such requirements for geometric positions that it should be possible to easily create topology.

When storing objects in the database at Lantmäteriet, it is checked that the objects follow the geometric and topological rules that are in place, and that the information corresponds to OGC's (Open Geospatial Consortium) requirements for geometries. Value ranges and object types are also checked for validity before being stored in the database.

#### **2.4.3 THEMATIC ACCURACY**

The process for thematic classification of topographic data is reviewed during field studies. This involves discussing classification based on the interpreter's aerial images compared to reality.

#### **2.4.4 POSITIONAL UNCERTAINTY**

Positional uncertainty describes how well a given position corresponds to the actual position in the terrain for the object that has been positioned in relation to the principal coordinate system.

Geometrical requirements for positional uncertainty depend on the objects' distinctness within a geographically limited area. Concrete objects have higher requirements than objects with diffuse boundaries in aerial image interpretation.

At smaller scales with more generalization, positional uncertainty increases. This means that the lowest positional uncertainty is at a scale of 1:10,000.

### **3 Layout and plotting of data**

#### **3.1 Plotting in different scales**

Topography View service, vector tiles include information at scale levels from 1:10,000 to 1:1,000,000. The following list shows approximate scales for viewing each information layer:

- 1:10,000: From scale 1:500 up to 1:15,000.
- 1:50,000: From scale 1:15,000 up to 1:30,000.
- 1:100,000: From scale 1:30,000 up to 1:80,000.
- 1:250,000: From scale 1:80,000 up to 1:180,000.
- 1:1M: From scale 1:180,000 up to 1:1,000,000.

The layers with administrative divisions are ideally used for an overview display.

## 3.2 Description of presentation styles

The view services have a styling mechanism applied at the client, which means that a user can change the appearance of the map, for example, switching between a day and night mode or highlighting different thematic conditions in the visualized data.

Lantmäteriet has developed a styling that closely resembles the one used for other view services to the greatest extent possible. The styling is adapted to Web Mercator (works for OpenLayers and Mapbox) and SWEREF 99 TM (works for OpenLayers), see Technical Description. As a user, it is your choice to use this style or create your own. Connecting the data received through the service with the styling in the style file is done in the client using the product. Since this can be done in many different ways, it is not a support service that Lantmäteriet can provide.

## 4 Layer description and code list

### 4.1 Administrative unit

#### 4.1.1 ADMINISTRATIV UNIT, POLYGON

##### 4.1.1.1 COUNTY

Table 1. Layer description and code list for county, polygon.

Object type	Object type number	Definition	Level of detail
County	5112	geographically defined area that constitutes an administrative unit directly subordinate to the state	Topography 10 Topography 250 Topography 1M

##### 4.1.1.2 SET OF ATTRIBUTES COUNTY

Table 2. Set of attributes for county, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 250 Topography 1M
objekttyp	Text	indicating the type of administrative boundary	Topography 10 Topography 250 Topography 1M
lankod	Text	two-digit code for counties	Topography 10 Topography 250 Topography 1M
lannamn	Integer	county name	Topography 10 Topography 250 Topography 1M



## 4.1.1.3 MUNICIPALITY

Table 3. Layer description and code list for municipality, polygons.

Object type	Object type number	Definition	Level of detail
Municipality	5113	a geographically defined area constituting an administrative unit with its own governance and taxation rights	Topography 10 Topography 250 Topography 1M

## 4.1.1.4 SET OF ATTRIBUTES MUNICIPALITY

Table 4. Layer description and code list for municipality, polygons.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 250 Topography 1M
objekttyp	Text	indicating the type of administrative boundary	Topography 10 Topography 250 Topography 1M
kommunkod	Text	four-digit code for municipality	Topography 10 Topography 250 Topography 1M
kommunnamn	Integer	municipality name	Topography 10 Topography 250 Topography 1M

## 4.1.2 ADMINISTRATIVE BOUNDARY, LINE

## 4.1.2.1 ADMINISTRATIVE BOUNDARY

Table 5. Layer description and code list for administrative boundary.

Object type	Object type number	Definition	Level of detail
Territorial waters boundary	1561	Sweden's territorial waters boundary towards the free ocean or other nation's sea territory	Topography 50 Topography 100 Topography 250 Topography 1M
National boundary	1562	boundary between two nations	Topography 50 Topography 100

Object type	Object type number	Definition	Level of detail
			Topography 250 Topography 1M
County boundary	1563	boundary for a geographically delimited area that constitutes an administrative unit directly under the state	Topography 50 Topography 100 Topography 250 Topography 1M
Municipality boundary	1564	boundary for geographically delimited area constituting an administrative unit with its own board and taxation right	Topography 50 Topography 100 Topography 250 Topography 1M
Cultivation boundary	1565	administrative boundary of importance for the practice of reindeer husbandry rights	Topography 50 Topography 100 Topography 250 Topography 1M
Province boundary	1560	historical regional border based on an older political division and founded on cultural and geographical characteristics	Topography 250

#### 4.1.2.2 SET OF ATTRIBUTES ADMINISTRATIVE BOUNDARY

Table 6. Layer description and code list for administrative boundary.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates that the type is administrative boundary	Topography 50 Topography 100 Topography 250 Topography 1M

## 4.2 Facility area

### 4.2.1 FACILITY AREA, POLYGON

#### 4.2.1.1 FACILITY AREA (POLYGON)

Table 7. Layer description and code list for facility area, polygon.

Object type	Object type number	Definition	Level of detail
Industrial area	2831	a facility area primarily used for industrial activities.	Topography 10 Topography 50 Topography 100
Community function	2832	facility area used for socially beneficial activities	Topography 10 Topography 50 Topography 100
Recreation	2833	facility area primarily used for activities related to sport, leisure, or culture	Topography 10 Topography 50 Topography 100
Civil firing range	2834	a restricted area where civilian dangerous, such as firing with live ammunition, detonations, or rocket launching are regularly conducted	Topography 10 Topography 50 Topography 100 Topography 250
Sports field	2835	a defined and prepared field or court on which sport activities are performed.	Topography 10

#### 4.2.1.2 SET OF ATTRIBUTES FOR FACILITY AREA

Table 8. Set of attributes for facility area, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250

Attribute	Type	Definition	Level of detail
andamal	Text	states type of facility area.	Topography 10 Topography 50 Topography 100
skjutfaltstyp	Text	States activity	Topography 10 Topography 50 Topography 100
skjutfaltstext	Text	type of firing range	Topography 10 Topography 50 Topography 100 Topography 250

#### 4.2.1.3 VALUE RANGE INDUSTRIAL AREA PURPOSE

Table 9. Value range for Industrial area purpose.

Value	Definition
Energiproduktion (Energy production)	transformation of energy source to electricity or heating
Gruvområde (Mining area)	area where mining activities take place
Rengärde (Reindeer enclosure)	enclosure intended to be used during separation and slaughter or calf marking of reindeers
Testbana (Test track)	testing facility for motor vehicles
Täkt (Quarry)	facility area where stone, gravel, or peat is extracted
Ospecificerad (Unspecified)	unspecified industrial activity

#### 4.2.1.4 VALUE RANGE COMMUNITY FUNCTION AREA PURPOSE

Table 10. Value range for Community function area purpose.

Value	Value
Avfallsanläggning (Waste facility)	Avfallsanläggning (Waste facility)
Begravningsplats	Begravningsplats

Value	Value
<i>(Cemetery)</i>	<i>(Cemetery)</i>
Civilt övningsfält <i>(Civil practice field)</i>	Civilt övningsfält <i>(Civil practice field)</i>
Kriminalvårdsanstalt <i>(Prison)</i>	Kriminalvårdsanstalt <i>(Prison)</i>
Sjukhusområde <i>(Hospital area)</i>	Sjukhusområde <i>(Hospital area)</i>
Skolområde <i>(School area)</i>	Skolområde <i>(School area)</i>
Trafikövningsplats <i>(Traffic training area)</i>	Trafikövningsplats <i>(Traffic training area)</i>
Ospecificerad <i>(Unspecified)</i>	Ospecificerad <i>(Unspecified)</i>

#### 4.2.1.5 VALUE RANGE RECREATION PURPOSE

*Table 11. Value range for Recreation purpose*

Value	Definition
Aktivitetspark <i>(Activity Park)</i>	prepared outside area with several types of activities for training, playing and sports
Badanläggning <i>(Swimming facility)</i>	fenced in swimming pool or nature swimming with prepared services
Besökspark <i>(Visitor Park)</i>	usually fenced in park with entry fees visited for leisure and experiences
Campingplats <i>(Camp site)</i>	prepared area for overnight stays in a cabin, camper van, motor home or tent with attached services
Friidrottsanläggning <i>(Track and field facility)</i>	prepared area where the main activity is track and field
Golfbana <i>(Golf course)</i>	prepared area for golf

Value	Definition
Hundsportanläggning ( <i>Dog sport facility</i> )	area where dog sport is practiced
Hästsportanläggning ( <i>Equestrian facility</i> )	area where equestrian sports are practiced
Idrottsanläggning ( <i>Sports facility</i> )	larger sports and athletics facility (sports field)
Koloniområde ( <i>Allotment area</i> )	area for gardening and cultivation activities in the form of allotment garden and/or cultivation plots.
Kulturanläggning ( <i>Culture facility</i> )	area to show various cultural interpretations
Motorsportanläggning ( <i>Motorsport facility</i> )	prepared area for motor sports
Parkområde ( <i>Park area</i> )	larger garden area where grass, flowers, bushes, and tree plantations are crossed with a system of walking paths
Skjutbaneområde ( <i>Shooting range area</i> )	prepared area for training or competition in shooting
Vintersportanläggning ( <i>Winter sports facility</i> )	prepared area for winter sports
Ospecificerad ( <i>Unspecified</i> )	unspecified recreation purpose

#### 4.2.1.6 VALUE RANGE FIRING RANGE TYPE

Table 12. Value range for Firing range type.

Value	Definition
Skjutfält (Firing range)	Firing range on land
Skjutområde (Firing area)	Firing range on water

## 4.2.1.7 VALUE RANGE SPORTS FIELD PURPOSE

Table 13. Value range for Sports field purpose.

Value	Definition
Bollplan (Ball field)	field for ball games
Fotbollsplan (Football field)	field prepared for football
Galoppbana (Gallop racecourse)	racecourse prepared for gallop competitions.
Isbana (Ice rink)	field with ice prepared for sports
Löparbana (Running track)	track and field course for running.
Motorsportbana (Motorsport course)	course prepared for motorsport
Tennisbana (Tennis court)	court prepared for tennis
Travbana (Trotting racecourse)	racecourse prepared for trotting competitions
Ospecificerad (Unspecified)	unspecified purpose for sports field

## 4.2.1.8 AIRPORT AREA

Table 14. Layer description and code list for airport area, polygon.

Object type	Object type number	Definition	Level of detail
Airport area	2854	facility area for departure and arrival by aviation	Topography 10 Topography 50

## 4.2.1.9 SET OF ATTRIBUTES FOR AIRPORT AREA

Table 15. Set of attributes for airport area.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50
objekttyp	Text	states that the type is airport area	Topography 10 Topography 50
iata	Text	three-digit identification code for airports	Topography 10 Topography 50

## 4.2.1.10 RUNWAY

Table 16. Layer description and code list for runway, polygon.

Object type	Object type number	Definition	Level of detail
Runway	2853	prepared surface for take-off and landing of airplanes	Topography 10 Topography 50 Topography 100

## 4.2.1.11 SET OF ATTRIBUTES FOR RUNWAY

Table 17. Set of attributes for runway, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100
objekttyp	Text	states that the type is runway	Topography 10 Topography 50 Topography 100
flygplatsstatus	Text	states if the airport is operational or closed	Topography 10 Topography 50 Topography 100



## 4.2.2 FACILITY AREA, LINE

### 4.2.2.1 RUNWAY, LINE

Table 18. Layer description and code list for runway, line.

Object type	Object type number	Definition	Level of detail
Runway, line	2857	prepared surface for take-off and landing of airplanes, presented as a line	Topography 250

### 4.2.2.2 SET OF ATTRIBUTES FOR RUNWAY

Table 19. Set of attributes for runway, line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 250
objektypnr	Integer	unique integer for the object type	Topography 250
objekttyp	Text	states that the type is runway	Topography 250

### 4.2.2.3 VALUE RANGE AIRPORT STATUS

Table 20. Value range for Airport status.

Value	Definition
I drift (Operational)	the airport is operational
Nedlagd (Closed)	the airport is closed

## 4.2.3 FACILITY AREA, POINT

### 4.2.3.1 FACILITY AREA POINT

Table 21. Layer description and code list for facility area, point

Object type	Object type number	Definition	Level of detail
Industrial area, point	2841	a facility area represented by a point primarily used for industrial activities	Topography 10 Topography 50 Topography 100 Topography 250

Object type	Object type number	Definition	Level of detail
Community function, point	2842	facility area, represented by a point, used for public contexts	Topography 10 Topography 50 Topography 100
Recreation, point	2843	facility area represented by a point, primarily used for activities related to sport, leisure, or culture	Topography 10 Topography 50 Topography 100
Sports field, point	2844	delimited and prepared field or course, represented with a point, where sports or athletic activities take place	Topography 10 Topography 50 Topography 100

#### 4.2.3.2 SET OF ATTRIBUTES FOR FACILITY AREA, POINT

Table 22. Set of attributes for facility area, point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	states type of facility point	Topography 10 Topography 50 Topography 100 Topography 250
andamal	Text	states activity	Topography 10 Topography 50 Topography 100 Topography 250
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250

## 4.2.3.3 VALUE RANGE INDUSTRIAL PURPOSE

Table 23. Value range for Industrial purpose.

Value	Definition
Hamn (Harbour)	area, where ships can anchor and moor, meant for protection, loading, unloading and storage

## 4.2.3.4 VALUE RANGE COMMUNITY FUNCTION PURPOSE

Table 24. Value range for Community function purpose

Value	Definition
Sjöräddningsstation (Sea rescue station)	rescue station with a stationed sea rescue unit

## 4.2.3.5 VALUE RANGE RECREATION PURPOSE

Table 25. Value range for Recreation purpose

Value	Definition
Badplats (Swimming area)	swimming pool or nature swimming with prepared services
Gästhamn (Guest harbour)	harbour (marina) prepared with boat berths, available for temporary visiting recreational boats for a fee
Småbåtshamn (Small boat harbour)	harbour (marina) prepared for mooring of leisure boats
Ställplats (Motorhome pitch)	a parking space designated for temporary parking and overnight stay of motorhomes

## 4.2.3.6 VALUE RANGE SPORTS FIELD PURPOSE

Table 26. Value range for Sports field purpose

Value	Definition
Skjutbana (Shooting range)	prepared range for training or competition in shooting
Skjutbana, mindre (Shooting range, smaller)	smaller prepared range for training or competition in shooting

## 4.2.3.7 AIRPORT POINT

Table 27. Layer description and code list for airport point.

Object type	Object type number	Definition	Level of detail
Helicopter pad	2852	designated spot from which air traffic or helicopter traffic originates	Topography 10 Topography 50 Topography 100 Topography 250
Airport symbol	2851	An established location from which air traffic departs	Topography 250 Topography 1M

## 4.2.3.8 SET OF ATTRIBUTES FOR AIRPORT POINT

Table 28. Set of attributes for airport point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	states that the type is airport are	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
iata	Text	three-digit identification code for airports	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.3 Land cover

### 4.3.1 LAND COVER, POLYGON

#### 4.3.1.1 LAND COVER

Table 29. Layer description and code list for land cover, polygon.

Object type	Object type number	Definition	Level of detail
Closed built-up area	2636	land consisting of closed coherent neighbourhood blocks with multiple floors	Topography 10 Topography 50
Built-up area, high	2637	land consisting of detached buildings with apartments that have three or more floors	Topography 10 Topography 50
Built-up area, low	2638	land consisting of buildings with planned neighbourhood blocks with detached two-family houses, terraced houses, semi-detached houses, or apartment buildings with, maximum two floors	Topography 10 Topography 50
Industrial and retail area	2639	land primarily used for industry and commercial activities	Topography 10 Topography 50
Arable land	2642	land that has been ploughed for cultivation of grain, forage crops, oilseeds, root vegetables and vegetables	Topography 10 Topography 50
Fruit orchard	2643	land used for cultivation of fruit and berry trees	Topography 10 Topography 50
Open land	2640	land below the treeline, mainly including natural open land, unmanaged and extensively managed meadow	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Alpine tundra	2644	all land above the tree line, except for water surfaces and glaciers	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Town square	2641	open, usually paved area in an urban area intended for temporary retail, public events and as a meeting place	Topography 10
Coniferous and mixed forest	2645	land with coniferous trees or mixed coniferous and deciduous trees, including forested park land and clear-cut areas	Topography 10 Topography 50

Object type	Object type number	Definition	Level of detail
Deciduous forest	2646	forested land below the upper boundary of the coniferous forest, where the canopy is mainly consisting of deciduous forest	Topography 10 Topography 50
Subalpine birch forest	2647	birch forest above upper limit of the coniferous forest, which extends up to the border of the alpine tundra	Topography 10 Topography 50 Topography 100
Unmapped area	2648	an area that has not been mapped	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Sea	2631	waterbody that receives water from waterbodies located on land and that are coherent with other seas	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Lake	2632	permanent, widespread regulated or unregulated surface water body on land without significant flow velocity	Topography 10 Topography 50 Topography 100 Topography 250
Watercourse surface	2633	surface waterbody with significant flow velocity connecting to lakes or seas	Topography 10 Topography 50 Topography 100 Topography 250
Artificial water	2634	surface waterbody for swimming, treatment, or storage of water without inflow or outflow	Topography 10 Topography 50 Topography 100
Glacier	2635	permanent mass of snow and ice in high mountains that slowly slide down the mountain slope	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.3.1.2 SET OF ATTRIBUTES FOR LAND COVER

Table 30. Set of attributes for land cover, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100

Attribute	Type	Definition	Level of detail
			Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of land cover	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
vattenytaid	Text	identity to keep together all water surfaces that belong to the same object	Topography 10 Topography 50 Topography 100
hojd_over_havet	Text	indicates the water surface elevation in meters above sea level	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
reglerat_vatten	Text	indicates whether the water level is regulated	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.3.2 WETLANDS

Table 31. Layer description and code list for wetlands, polygon.

Object type	Object type number	Definition	Level of detail
Wetland, soaked	2652	wetland that is often or constantly filled with water	Topography 10 Topography 50 Topography 100
Wetland, firm	2651	peat-forming wetlands on comparably firm peat	Topography 10 Topography 50 Topography 100
Wetland	2653	land that is saturated with water for a large part of the year and usually has the water table near the ground surface or above it	Topography 250 Topography 1M

## 4.3.2.1 SET OF ATTRIBUTES FOR WETLANDS

Table 32. Set of attributes for wetlands, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of wetland	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.3.3 LAND COVER, LINE

## 4.3.3.1 LAND COVER BOUNDARY LINE

Table 33. Layer description and code list for land cover boundary line.

Object type	Object type number	Definition	Level of detail
Boundary line, unmapped area	2611	land cover boundary line for unmapped area	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Shoreline, sea	2612	land cover boundary line between sea and land	Topography 10 Topography 50 Topography 100 Topography 250
Shoreline, lake	2613	land cover boundary line between lake and land	Topography 10 Topography 50 Topography 100 Topography 250
Shoreline, water-course surface	2614	land cover boundary line between water course surface and land	Topography 10 Topography 50 Topography 100 Topography 250



Object type	Object type number	Definition	Level of detail
Shoreline, artificial water	2615	land cover boundary line between artificial water and land	Topography 10 Topography 50 Topography 100
Closure against the sea	2616	land cover boundary line between sea and lake or watercourse surface	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Closure	2617	land cover boundary line between lake or watercourse surface	Topography 10 Topography 50 Topography 100 Topography 250
Glacier boundary	2618	land cover boundary line for glacier	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Built-up area boundary	2619	land cover boundary line for grouped built-up areas	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Industry and retail area boundary	2620	land cover boundary line for industry and retail areas	Topography 10 Topography 50
Arable land boundary	2621	land cover boundary line for arable land or orchard	Topography 10 Topography 50
Open land boundary	2622	land cover boundary line for open land, town squares or alpine tundra	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Forest land boundary	2623	land cover boundary line that distinguishes between coniferous and mixed forest, deciduous forest, and subalpine birch forest	Topography 10 Topography 50 Topography 100 Topography 250

## 4.3.3.2 SET OF ATTRIBUTES LAND COVER BOUNDARY LINE

Table 34. Set of attributes for land cover boundary line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of land cover boundary line	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
diffus	Integer	unclear or variable shoreline	Topography 10

## 4.4 Hydrography

## 4.4.1 HYDROGRAPHY, LINE

## 4.4.1.1 HYDRO FACILITY LINE

Table 35. Layer description and code list for hydro facility line.

Object type	Object type number	Definition	Level of detail
Dam construction	1903	permanent barrier over a water course that dams or controls its flow	Topography 10 Topography 50 Topography 100 Topography 250
Jetty	1902	construction that extends into the water, intended for mooring of smaller ships	Topography 10 Topography 50
Pier	1907	long, anchored structure used to protect harbours and anchorages from waves	Topography 10 Topography 50
Quay	1905	construction connected to the shoreline, with a vertical side facing deep water, where ships can moor, unload, and load.	Topography 10

Object type	Object type number	Definition	Level of detail
Quay fenders	1901	protective and shock absorbing structure for ships at a quay	Topography 10
Pile fenders	1906	protective and shock absorbing structure	Topography 10
Dolphin	1904	Seabed-anchored device consisting of a group of piles attached to a foundation for mooring or redirect ships.	Topography 10
Flume line	1910	construction for transporting water or timber using gravity	Topography 10 Topography 50
Aqueduct	1911	structure for transporting water courses over an obstacle	Topography 10 Topography 50 Topography 100

#### 4.4.1.2 SET OF ATTRIBUTES HYDRO FACILITY LINE

Table 36. Set of attributes for hydro facility line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	specifies the type of hydro facility line	Topography 10 Topography 50 Topography 100 Topography 250
matlage	Text	specifies which part of the object is measured	Topography 10

#### 4.4.1.3 VALUE RANGE MEASUREMENT MODE

Table 37. Value range Measurement mode.

Value	Description
Mitt (Center)	Object measured by centre line.

Value	Description
Kant (Edge)	Object measured by edge line.
Ingen information (No information)	No information about how the object has been measured.

#### 4.4.1.4 HYDROGRAPHICALLY INTERESTING PLACE

Table 38. Layer description and code list for in Hydrographically interesting place, line.

Object type	Object type number	Definition	Level of detail
Rapids	1583	fast flowing watercourse or series of smaller waterfalls in several steps	Topography 10 Topography 50
Waterfall	1584	part of a watercourse where the water falls from a higher level to a lower level, more or less vertically	Topography 10 Topography 50

#### 4.4.1.5 SET OF ATTRIBUTES HYDROGRAPHICALLY INTERESTING PLACE

Table 39. Set of attributes for Hydrographically interesting place, line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50
objekttyp	Text	indicates type of hydrographically interesting place	Topography 10 Topography 50

#### 4.4.1.6 HYDRO LINE

Table 40. Layer description and code list for hydro line.

Object type	Object type number	Definition	Level of detail
Watercourse	1581	natural or man-made flowing water that is part of a drainage system	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.4.1.7 SET OF ATTRIBUTES FOR HYDRO LINE

Table 41. Set of attributes for hydro line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	specifies the type of hydro line	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
vattendragsid	Text	common identity for all included parts of water courses from source to mouth	Topography 10 Topography 50 Topography 100 Topography 250
storleksklass	Text	specifies the water courses size	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
kanal	Text	man-made water course for ships	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.4.2 HYDROGRAPHY, POINT

## 4.4.2.1 HYDRO FACILITY POINT

Table 42. Layer description and code list for Hydro facility point.

Object type	Object type number	Definition	Level of detail
Lock gate	1922	construction for raising and lowering the water level in a waterway to enable boat traffic	Topography 10 Topography 50 Topography 100 Topography 250

Object type	Object type number	Definition	Level of detail
Dolphin, smaller	1921	a smaller, seabed-anchored device consisting of a group of piles attached to a foundation for mooring or redirect ships	Topography 10
Dam construction, point	1923	permanent barrier over a water course that dams or controls flow	Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.4.2.2 SET OF ATTRIBUTES FOR HYDRO FACILITY POINT

Table 43. Set of attributes for hydro facility point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of hydrographic facility point.	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.4.2.3 HYDRO POINT

Table 44. Layer description and code list for hydro point.

Object type	Object type number	Definition	Level of detail
Rock awash	1591	a solid landmass that is located between 2 decimetres above and 5	Topography 10

Object type	Object type number	Definition	Level of detail
		decimetres below the current reference level	
Above water rock	1595	a solid landmass that is located more than 2 decimetres above the current reference level	Topography 10 Topography 50
Flow direction arrow, small	1596	symbol for flow direction on narrower watercourses	Topography 10 Topography 50 Topography 100
Flow direction arrow, large	1597	symbol for flow direction in watercourses or along narrower watercourses	Topography 10

#### 4.4.2.4 SET OF ATTRIBUTES FOR HYDRO POINT

Table 45. Set of attributes for hydro point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100
objekttyp	Text	indicates the type of hydrographic facility point	Topography 10 Topography 50 Topography 100
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100

## 4.5 Structures

### 4.5.1 BUILDING, POLYGON

#### 4.5.1.1 BUILDING (POLYGON)

Table 46. Layer description and code list for building, polygon.

Object type	Object type number	Definition	Level of detail
Residential	2061	building primarily used for leisure or permanent accommodation	Topography 10 Topography 50 Topography 100
Industrial	2062	building primarily used for manufacturing products and processing of raw materials	Topography 10 Topography 50 Topography 100
Public	2063	building primarily used for citizens' activities in community life	Topography 10 Topography 50 Topography 100
Commercial	2064	building primarily used for commercial purposes	Topography 10 Topography 50
Agricultural	2065	building primarily used for agricultural, forestry, or comparable industry	Topography 10 Topography 50
Accessory building	2066	building that belongs to a detached house	Topography 10 Topography 50
Other building	2067	building whose purpose is <u>not</u> Residential, Industrial, Public, Commercial, Agricultural or Accessory building	Topography 10 Topography 50
Other large building	2068	<i>Building</i> whose purpose is not Residential, Industrial or Public	Topography 100

#### 4.5.1.2 SET OF ATTRIBUTES FOR BUILDING

Table 47. Set of attributes for (Building (polygon))

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objektypnr	Text	unique integer for the object type	Topography 10 Topography 50 Topography 100



Attribute	Type	Definition	Level of detail
objekttyp	Integer	indicates the type of building	Topography 10 Topography 50 Topography 100
byggnadsnamn	Text	name of building	Topography 10
huvudbyggnad	Text	refers to a building, in a larger complex of buildings, on a property as the main building	Topography 10
andamal	Text	main purpose	Topography 10

#### 4.5.2 BUILDING, LINE

##### 4.5.2.1 BUILDING FACILITY LINE

Table 48. Layer description and code list for Building facility line

Object type	Object type number	Definition	Level of detail
Reindeer fence	1980	fence intended to lead reindeer between different pastures and to collection points	Topography 10 Topography 50 Topography 100
Cable traffic	1978	wire-borne transportation system with carriages, baskets, loops, sticks or harness that run above ground level	Topography 10 Topography 50 Topography 100 Topography 250

##### 4.5.2.2 SET OF ATTRIBUTES FOR BUILDING FACILITY LINE

Table 49. Set of attributes for Building facility line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of building facility line	Topography 10 Topography 50 Topography 100 Topography 250

### 4.5.3 BUILDING, POINT

#### 4.5.3.1 BUILDING FACILITY POINT

Table 50. Layer description and code list for building facility point.

Object type	Object type number	Definition	Level of detail
Chimney	2022	vertical pipe-shaped construction to divert smoke.	Topography 10 Topography 50 Topography 100 Topography 250
Mast	2019	tall and vertical construction erected on a small area, often anchored with cables	Topography 10 Topography 50 Topography 100 Topography 250

#### 4.5.3.2 SET OF ATTRIBUTES FOR BUILDING FACILITY POINT

Table 51. Set of attributes for building facility point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of building facility point	Topography 10 Topography 50 Topography 100 Topography 250
hojd	Floating point	height above ground	Topography 10
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250

## 4.5.3.3 BUILDING POINT

Table 52. Layer description and code list for building point.

Object type	Object type number	Definition	Level of detail
Building, size class 1	2045	building or small group of buildings where the largest building corresponds to a certain size	Topography 10 Topography 50
Building, size class 2	2046	building or small group of buildings where the largest building corresponds to a certain size and shape and is larger than size class 1	Topography 10 Topography 50
Building, size class 3	2047	building or small group of buildings where the largest building corresponds to a certain size and shape and is larger than size class 2	Topography 10 Topography 50
Solitary cabin in the mountains	2032	remotely located cabin, within the coverage area for Lantmäteriet's mountain range information., which is usually locked and not intended for tourists	Topography 10 Topography 50
One or more buildings	2052	One or more buildings represented by a point.	Topography 250
Mountain lodge	2033	tourist facility with buildings for services, activities, and accommodation	Topography 50 Topography 100 Topography 250 Topography 1M
Research station	2048	building where research is conducted	Topography 50 Topography 100
Lighthouse	1051	device for sea traffic that, through light or other signals, provides positional controls or warnings	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Local heritage farmstead	2049	older farm or collection of buildings preserved to highlight and support the local cultural heritage	Topography 50
Manor	2034	larger farm property with elegant buildings	Topography 50 Topography 100
University	2044	post-secondary school classified as a university in the university regulation	Topography 100 Topography 250

Object type	Object type number	Definition	Level of detail
Bell tower	2016	tower-like, free standing construction built for church bells often adjacent to a church	Topography 10 Topography 50 Topography 100
Church	1042	building permanently used for religious worship within the Church of Sweden	Topography 10 Topography 50 Topography 100 Topography 250
Sami cot	1044	basic conical or dome shaped building in mountain regions intended for stays.	Topography 10 Topography 50 Topography 100 Topography 250
Nuclear power plant	2035	facility that generates electricity from nuclear power	Topography 50 Topography 100 Topography 250 Topography 1M
Small locality	2053	small locality or small village	Topography 1M
Rest cabin	1050	cabin that can be used for protection or for rest and is always unlocked	Topography 10 Topography 50 Topography 100
Religious building	2037	a building permanently used for religious worship outside the Church of Sweden	Topography 50 Topography 100
Hospital	2042	facility for closed care and specialized outpatient care	Topography 100 Topography 250
Blast shelter	1052	space under ground for protection during rocket launches or other types of shooting	Topography 10 Topography 50 Topography 100
Castle	2038	monumental historical building that is or has been owned by a royal or noble person	Topography 50 Topography 100 Topography 250 Topography 1M
Tower	1045	tall and vertical structure built on a relatively small area or on another building	Topography 10 Topography 50 Topography 100 Topography 250
Tourist cabin/overnight cabin	2041	cabin located in connection to the state mountain trail system and intended for overnight stays	Topography 50 Topography 100

Object type	Object type number	Definition	Level of detail
University	2043	post-secondary school classified as a university in the university regulation	Topography 100 Topography 250
Wind turbine	2025	tower or mast with a device that converts wind energy to electricity	Topography 10 Topography 50 Topography 100 Topography 250
Lean-to	1046	basic building for outdoor activities with the purpose to provide hikers protection from wind and rain	Topography 10 Topography 50 Topography 100
Windmill	1047	building erected to mill grains using wind power	Topography 10 Topography 50 Topography 100
Urban area 200–1999 inhabitants	2055	urban area with 200 - 1999 inhabitants	Topography 1M
Urban area 2,000–9,999 inhabitants	2054	urban area with 2,000 - 9,999 inhabitants	Topography 1M

#### 4.5.3.4 SET OF ATTRIBUTES FOR BUILDING POINT

Table 53. Set of attributes for building point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objektypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of Building point	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
hojd	Floating point	height above ground	Topography 10

Attribute	Type	Definition	Level of detail
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.6 Height

### 4.6.1 HEIGHT, LINE

#### 4.6.1.1 CONTOUR LINE

*Table 54. Layer description and code list for contour line.*

Object type	Object type number	Definition	Level of detail
Contour line 5	2401	contour line representing a certain elevation in the terrain	Topography 10 Topography 50
Contour line 10	2404	contour line for height that represents the equidistance 10 m	Topography 50 Topography 100
Contour line 25	2408	contour line for height that represents the equidistance 25 m	Topography 250
Depression contour 5	2402	contour line for a depression that represents the equidistance 5 m	Topography 10 Topography 50
Depression contour 10	2405	contour line for a depression that represents the equidistance 10 m	Topography 50 Topography 100

#### 4.6.1.2 SET OF ATTRIBUTES CONTOUR LINE

*Table 55. Set of attributes for contour line.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of contour line	Topography 10 Topography 50

Attribute	Type	Definition	Level of detail
			Topography 100 Topography 250
hojdvarde	Text	height above the sea in metres	Topography 10 Topography 50 Topography 100 Topography 250
stodkurva	Text	contour lines that represent a certain elevation in the terrain	Topography 10 Topography 50 Topography 100 Topography 250
i_glaciar	Text	indicates if the contour line is on a glacier	Topography 10 Topography 50 Topography 100 Topography 250

#### 4.6.2 HEIGHT, POINT

##### 4.6.2.1 ELEVATION POINT

*Table 56. Layer description and code list for elevation point.*

Object type	Object type number	Definition	Level of detail
Height fixed point	2413	geodetic elevation point that is part of the national height network	Topography 10 Topography 50
Spot elevation	2411	unmarked elevation point	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Triangulation station	2412	geodetic elevation point that is part of the in national triangulation network	Topography 10 Topography 50 Topography 100

##### 4.6.2.2 SET OF ATTRIBUTES ELEVATION POINT

*Table 57. Set of attributes for elevation point.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

Attribute	Type	Definition	Level of detail
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of elevation point	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
hojdvarde	Integer	height above the sea in metres	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.6.2.3 CONTOUR LINE VALUE

*Table 58. Layer description and code list for contour line value.*

Object type	Object type number	Definition	Level of detail
Contour line value	2403	elevation value for a contour line	Topografi 10 Topografi 50 Topografi 100 Topografi 250

#### 4.6.2.4 SET OF ATTRIBUTES CONTOUR LINE VALUE

*Table 59. Set of attributes for contour line value.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
textkategori	Text	grouping is used to control the printing of text	Topography 10 Topography 50 Topography 100 Topography 250
karttext	Text	cartographic text	Topography 10 Topography 50 Topography 100 Topography 250



Attribute	Type	Definition	Level of detail
textriktning	Floating point	rotation for text	Topography 10 Topography 50 Topography 100 Topography 250
storleksklass	Text	specifies which font size to use depending on the scale	Topography 10 Topography 50 Topography 100 Topography 250

## 4.7 Communication

### 4.7.1 COMMUNICATION, LINE

#### 4.7.1.1 ROAD LINE

*Table 60. Layer description and code list for road line.*

Object type	Object type number	Definition	Level of detail
Motorway	1801	road that corresponds to traffic regulations for motorways	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Two-lane expressway	1802	road that corresponds to the regulations for a two-lane expressway	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Divided road	1803	road where oncoming traffic is separated by a median barrier	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Country road	1804	main road with one lane in each direction separated by a centre line	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Country road, small	1805	state road with road number >499	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

Object type	Object type number	Definition	Level of detail
Small road	1806	private road, suitable for cars	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Small road, basic standard	1807	private road, less suitable for cars	Topography 10 Topography 50 Topography 100
Arterial road	1808	road that is a part in the main network for car traffic.	Topography 10 Topography 50 Topography 100
Main street	1809	road within a built-up area that is part of the main network for car traffic	Topography 10 Topography 50 Topography 100
Local street, large	1810	road that is part of the local car traffic network.	Topography 10 Topography 50 Topography 100
Local street, small	1811	smaller road that is part of the local car traffic network	Topography 10 Topography 50 Topography 100
Neighbourhood road	1812	alley or neighbourhood road i.e., road outside of the street network	Topography 10
Parking area road	1813	road outside of the street network or through an area with parking spaces.	Topography 10
Entrance and exit road	1814	road section on neighbourhood ground leading to a parking area or neighbourhood road	Topography 10
Delivery road	1815	road to industry buildings or goods intake	Topography 10

#### 4.7.1.2 SET OF ATTRIBUTES ROAD LINE

*Table 61. Set of attributes for road line.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100

Attribute	Type	Definition	Level of detail
			Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of road line	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
avfartsvag_paf- artsvag	Text	indicates if the road section is included in a slip road	Topography 10 Topography 50 Topography 100
cirkulationsplats	Text	indicates if the road section has a traffic regulation for a roundabout	Topography 10 Topography 50 Topography 100
bro_och_tunnel	Text	indicates if the road section includes any form of bridge or tunnel. (Refer to Table 62 Value range for level.)	Topography 10 Topography 50 Topography 100 Topography 250
gagata	Text	indicates if the road section has a traffic regulation for a pedestrian road	Topography 10 Topography 50
gangfartsomrade	Text	indicates if the road section has a traffic regulation for a pedestrian zone	Topography 10
gatunamn	Text	name of street	Topography 10
värdvägnummer	Text	complete road number for the main road	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
alternativt manér	Text	states that organization objects should be managed separately during cartographic presentation	Topography 50 Topography 100

## 4.7.1.3 VALUE RANGE LEVEL

Table 62. Value range for level.

Value	Definition
överfart ( <i>overpass</i> )	road or rail traffic that passes over another object
underfart ( <i>underpass</i> )	road or rail traffic that passing under another object
tunnel ( <i>tunnel</i> )	underground road or rail traffic
överfart och underfart ( <i>overpass and underpass</i> )	road or rail traffic that passes over or under another object
Ingen information	no information.

## 4.7.1.4 FERRY ROUTE

Table 63 Layer description and code list for ferry route.

Object type	Object type number	Definition	Level of detail
Ferry route	1891	route for ferry traffic	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.7.1.5 SET OF ATTRIBUTES FOR FERRY ROUTE

Table 64 Set of attributes for ferry route.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

Attribute	Type	Definition	Level of detail
objekttyp	Text	indicates the type of Ferry route.	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
destination	Text	destination for the Ferry route	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

#### 4.7.1.6 OTHER ROADS

Table 65. Layer description and code list for other roads.

Object type	Object type number	Definition	Level of detail
Cycle path	1623	road where only bicycles and class II mopeds are allowed	Topography 10 Topography 50
Illuminated track	1625	illuminated tracks with prepared and maintained trail or track	Topography 10 Topography 50 Topography 100
Footpath	1624	well-trodden path	Topography 10 Topography 50 Topography 100
Park road	1842	pedestrian road within a landscaped park	Topography 10 Topography 50
Tractor path	1628	road that normally lacks a road body but has a prepared roadway of a permanent nature intended for tractors	Topography 10 Topography 50
Hiking trail	1846	marked trail along a path or road intended for hiking	Topography 10 Topography 50 Topography 100
Hiking and winter trail	1847	marked trail along a path or road intended for hiking, skiing, or snowmobiles.	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Winter trail	1848	marked trail intended for skiing or snowmobiles	Topography 50 Topography 100

## 4.7.1.7 SET OF ATTRIBUTES OTHER ROADS

Table 66 Set of attributes for other roads.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	specifies the type of other roads	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
vagutforande	Text	specifies the road's relationship to other roads or terrain	Topography 10 Topography 50 Topography 100
skoterkörning_tillåten	Text	specifies if snowmobiles are allowed	Topography 10 Topography 50 Topography 100
ruskmarkering	Text	specifies if the trail has a landmark of stone or not	Topography 50 Topography 100
skoterkörning tillåten	Text	specifies if snowmobiles are allowed	Topography 50 Topography 100 Topography 250 Topography 1M
alternativt manér	Text	states that the organization object should be separately treated during cartographic presentation	Topography 50 Topography 100 Topography 250 Topography 1M

## 4.7.1.8 VALUE RANGE ROAD CONSTRUCTION

Table 67 Value range for road construction.

Value	Definition
Bro (Bridge)	construction meant to carry traffic over an obstacle

Value	Definition
Normal (Normal)	road on the ground
Sommarbro (Summer bridge)	bridge that is removed during the winter season to avoid damage caused by snow melt
Tunnel (Tunnel)	underground road
Underfart (Underpass)	road or trail that goes underneath another object
Ingen information (No information)	

#### 4.7.1.9 VALUE RANGE SNOWMOBILE DRIVING

Table 68 Value range Snowmobile driving.

Value	Definition
Ja (Yes)	snowmobiles are allowed on the trail
Nej (No)	snowmobiles are not allowed on the trail
Påbjuden (Mandatory)	snowmobiles are mandatory on the trail within a restricted area
Ingen information (No information)	.

#### 4.7.1.10 MOUNTAIN TRANSPORT TRAIL

Table 69 Layer description and code list for mountain transport trail

Object type	Object type number	Definition	Level of detail
Boat portage	1827	permanent facility to move boats between lakes	Topography 10 Topography 50 Topography 100

Object type	Object type number	Definition	Level of detail
Capture line across trail	1824	marking across a trail's direction of travel to facilitate orientation in bad weather	Topography 10 Topography 50 Topography 100
Suitable travel route	1822	recommended route that is not marked in the terrain	Topography 50 Topography 100
Reindeer herding trail	1823	trail for the reindeer husbandry	Topography 10 Topography 50 Topography 100
Rowing trail	1825	trail with accessible boats	Topography 10 Topography 50 Topography 100
Ski trail	1821	Marked trail in terrain, along a road or path intended for skiing	Topography 50 Topography 100
Trail, poorly marked	1826	indistinct walking trail	Topography 50 Topography 100
Traffic boat route	1828	route for boat traffic that connects trails	Topography 10 Topography 50 Topography 100

## 4.7.1.11 SET OF ATTRIBUTES MOUNTAIN TRANSPORT TRAIL

Table 70 Set of attributes mountain transport trail.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100
objekttyp	Text	indicates the type of transport trail in the mountains	Topography 10 Topography 50 Topography 100
rennaringsledstyp	Text	indicates the type of reindeer husbandry route	Topography 10 Topography 50 Topography 100



## 4.7.1.12 RAIL TRAFFIC

Railway data is obtained from the Swedish Transport Administration. Museum railways, tramways, and subways are collected by Lantmäteriet.

*Table 71 Layer description and code list for rail traffic.*

Object type	Object type number	Definition	Level of detail
Railway	1861	rail traffic that is part of the national railway network as well as industrial tracks	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Heritage railway	1862	rail traffic with museum activities	Topography 10 Topography 50 Topography 100 Topography 250
Tramway	1863	rail traffic with trams for public transport in an urban environment	Topography 10
Subway	1864	mainly underground rail traffic system that is level-separated from other traffic	Topography 10

## 4.7.1.13 SET OF ATTRIBUTES RAIL TRAFFIC

*Table 72 Set of attributes for rail traffic.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of rail traffic	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
status	Text	status of the track	Topography 10

Attribute	Type	Definition	Level of detail
sparvidd	Text	distance between the rails	Topography 10
bro_och_tunnel	Text	indicates the stretch through a tunnel or the level for roads or railways in relation to another road or railway (refer to Table 75 Value range for level)	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
straknamn	Text	name of railway route	Topography 10
under_byggnad	Text	indicates if the rail traffic goes under a building or not	Topography 10 Topography 50 Topography 100
elektrifiering	Text	indicates if the railway is electrified or not	Topography 10

#### 4.7.1.14 VALUE RANGE TRACK WIDTH

Table 73 Value range for Rail traffic status.

Value	Definition
Normalspår (Normal track)	standard gauge railway tracks with the track gauge of 1435 millimetres
Bredspår (Wide track)	broad gauge railway tracks with a track width gauge greater than 1435 millimetres
Smalspår (Narrow track)	narrow gauge railway track with a track gauge less than 1435 mm
Ingen information (No information)	

#### 4.7.1.15 VALUE RANGE RAIL TRAFFIC STATUS

Table 74 Value range for Rail traffic status.

Value	Definition
Avstängd (Closed)	temporarily closed for at least a year
Ej underhållen (Not maintained)	

Value	Definition
Nedlagd (Decommissioned)	discontinued
Planerad (Planned)	
Rivet (Torn)	
Öppen (Open)	open for traffic
Ingen information (No information)	

#### 4.7.1.16 VALUE RANGE LEVEL

Table 75 Value range for level.

Value	Definition
Överfart (Overpass)	road or rail traffic that passes over another object
Underfart (Underpass)	road or rail traffic that passing under another object
Tunnel (Tunnel)	underground road or rail traffic
Överfart och underfart (Overpass and underpass)	road or rail traffic that passing over or under another object
Ingen information (No information)	

#### 4.7.2 COMMUNICATION, POINT

##### 4.7.2.1 ROAD POINT

Interchanges and roundabouts have been obtained from the Swedish Transport Administration's data product *Korsning* (Junction). Processing has been done by Lantmäteriet to derive a centre coordinate that represents the position for the interchange and roundabout.

Locked gates or barriers have been obtained from the Swedish Transport Administration's data product *Väghinder* (Roadblock). The rotation has been calculated by Lantmäteriet in relation to the road on which it is located.

Rest areas have been collected from the Swedish Transport Administration's data product *Rastplats* (Rest area).

Turnarounds have been collected from the Swedish Transport Administration's data product *Vändmöjlighet* (Turnaround).

Table 76 Layer description and code list for road point.

Object type	Object type number	Definition	Level of detail
Locked gate or boom gate	2203	permanent physical obstacle in the form of a locked gate or barrier with the purpose of prevent unauthorised traffic	Topography 10 Topography 50 Topography 100
Turnaround	2205	road area at the end or along a road that is designed to provide longer vehicles the opportunity to turn around	Topography 10 Topography 50 Topography 100
Rest area	2207	facility alongside a road for travellers need to rest, use toilets, recreate or similar.	Topography 10 Topography 50 Topography 100
Interchange	2209	plane separated junction where entrance and exit can be accessed	Topography 10 Topography 50 Topography 100 Topography 250
Roundabout	2210	circular road junction in one level where entrance and exit can be accessed	Topography 10

#### 4.7.2.2 SET OF ATTRIBUTES ROAD POINT

Note that some attributes are obtained from the Swedish Transport Administration's product *Korsning*, *Rastplats*, *Vändmöjlighet* or *Väghinder*. Other attributes come from Lantmäteriet's data storage.

Table 77 Layer description and code list for road point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250

Attribute	Type	Definition	Level of detail
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of road point	Topography 10 Topography 50 Topography 100 Topography 250
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250
vandmjlighetstyp	Text	type of turning possibility	Topography 10 Topography 50

#### 4.7.2.3 MOUNTAIN POINT OF INTEREST

*Table 78 Layer description and code list for mountain point of interest.*

Object type	Object type number	Definition	Level of detail
Flashing beacon	1837	device that, facilitates navigation to the location with regularly occurring flashing signals	Topography 10 Topography 50 Topography 100
Pedestrian bridge, point	1838	Building structure designed to facilitate hikers over an obstacle	Topography 50 Topography 100
Emergency phone	1833	landline telephone available for emergency calls and short messages, which is always accessible	Topography 10 Topography 50 Topography 100
Parking	1834	artificial area in mountain regions intended for car parking	Topography 10 Topography 50 Topography 100
Mandatory route for snowmobiling	1836	symbol indicating where snowmobile driving is allowed within prohibited areas	Topography 50 Topography 100
Ski trail symbol	1831	symbol for ski trail	Topography 50 Topography 100
Storm bell	1835	device that, with a bell, facilitates navigation to the location.	Topography 10 Topography 50 Topography 100

Object type	Object type number	Definition	Level of detail
Ford	1832	suitable crossing for hikers over larger water courses lacking bridges	Topography 50 Topography 100

#### 4.7.2.4 SET OF ATTRIBUTES MOUNTAIN POINT OF INTEREST

Table 79 Set of attributes for mountain point of interest.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100
objekttyp	Text	indicates the type of trail point of interest in the mountains	Topography 10 Topography 50 Topography 100
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100
vagutforande	Text	specifies the road's relationship to other roads or terrain	Topography 50 Topography 100

#### 4.7.2.5 VALUE RANGE ROAD CONSTRUCTION

Table 80 Value range for road construction

Value	Definition
Bro ( <i>Bridge</i> )	construction meant to carry traffic over an obstacle
Sommarbro ( <i>Summer bridge</i> )	bridge that is removed during the winter season to avoid damage caused by snow melt

## 4.7.2.6 RAIL TRAFFIC STATION

Table 81 Layer description and code list for rail traffic station.

Object type	Object type number	Definition	Level of detail
Railway station	1871	location along a railway line intended for trains to make a stop	Topography 10 Topography 50 Topography 100 Topography 250
Subway station	1872	location along a subway line intended for subway trains to make a stop	Topography 10
Tram stop	1873	location along a tramway intended for trams to make a stop	Topography 10

## 4.7.2.7 SET OF ATTRIBUTES RAIL TRAFFIC STATION

Table 82 Set of attributes for rail traffic station.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of rail traffic station	Topography 10 Topography 50 Topography 100 Topography 250
rotation	Floating point	status of the station	Topography 10 Topography 50 Topography 100 Topography 250
status	Text	indicates if the station is located underground	Topography 10 Topography 50 Topography 100

## 4.7.2.8 VALUE RANGE RAIL TRAFFIC STATUS

Table 83 Value range for rail traffic status.

Value	Definition
Avstängd (Closed)	temporarily closed for at least a year
Ej underhållen (Not maintained)	
Nedlagd (Decommissioned)	discontinued
Planerad (Planned)	
Rivet (Torn)	
Öppen (Open)	open for traffic
Ingen information (No information)	

## 4.8 Transmissions

## 4.8.1 TRANSMISSIONS, POLYGON

## 4.8.1.1 ELECTRICAL SUBSTATION AREA

Table 84 Layer description and code list for electrical substation area.

Object type	Object type number	Definition	Level of detail
Electrical substation area	1741	area on the ground on which facilities for switching or transforming electricity are located	Topography 10 Topography 50



## 4.8.1.2 SET OF ATTRIBUTES ELECTRICAL SUBSTATION AREA

Table 85 Set of attributes for electrical substation area.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50
objekttyp	Text	indicates that the type is electrical substation area	Topography 10 Topography 50

## 4.8.2 TRANSMISSIONS, LINE

## 4.8.2.1 TRANSMISSION LINE

Table 86 Layer description and code list for transmission line.

Object type	Object type number	Definition	Level of detail
Electricity transmission line, national	1702	transmission line for electricity distribution, usually with a voltage higher than 200 kV	Topography 10 Topography 50 Topography 100 Topography 250
Electricity transmission line, region	1703	transmission line for electricity distribution, usually with a voltage between 25 and 200 kV.	Topography 10 Topography 50 Topography 100 Topography 250
Electricity transmission line, distribution	1704	transmission line for electricity distribution, usually with a voltage between 6 and 24 kV	Topography 10 Topography 50 Topography 100
Pipeline	1706	a long and narrow, usually cylindrical, pipe structure used for transporting liquid or gas	Topography 10
Telephone line	1707	transmission line meant for telephone traffic	Topography 10 Topography 50 Topography 100

## 4.8.2.2 SET OF ATTRIBUTES TRANSMISSION LINE

Table 87 Set of attributes for transmission line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of transmission line	Topography 10 Topography 50 Topography 100 Topography 250

## 4.8.3 TRANSMISSIONS, POINT

## 4.8.3.1 ELECTRICAL SUBSTATION AREA, POINT

Table 88 Layer description and code list for electrical substation area, point.

Object type	Object type number	Definition	Level of detail
Substation area point	1742	area on the ground on which facilities for switching or transforming electricity are located	Topography 50

## 4.8.3.2 SET OF ATTRIBUTES ELECTRICAL SUBSTATION AREA, POINT

Table 89 Set of attributes for electrical substation area, point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 50
objekttypnr	Integer	unique integer for the object type	Topography 50
objekttyp	Text	indicates that the type is electrical substation area point	Topography 50
rotation	Floating point	indicates orientation for a symbol	Topography 10

## 4.9 Nature conversation

### 4.9.1 NATURE CONVERSATION, POLYGON

#### 4.9.1.1 PROTECTED NATURE

Table 90 Layer description and code list for protected nature.

Object type	Object type number	Definition	Level of detail
National Park	5603	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch 2 § or corresponding older law.	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
Nature reserve	5604	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 4-6 §§ or corresponding older law	Topography 10 Topography 50 Topography 100 Topography 250
Nature conservation area	5608	protected nature according to the <i>nature conservation law</i>	Topography 10 Topography 50 Topography 100 Topography 250
Nature monument area	5605	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 10 § or corresponding older law	Topography 10 Topography 50
Animal protection area	5606	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 12 § or corresponding older law	Topography 10 Topography 50 Topography 100 Topography 250
Culture reserve	5607	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 9 §	Topography 10 Topography 50 Topography 100 Topography 250

#### 4.9.1.2 SET OF ATTRIBUTES PROTECTED NATURE

Table 91 Set of attributes for protected nature.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

Attribute	Type	Definition	Level of detail
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	indicates the type of protected nature	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
nvr-beskrivning	Text	the Swedish Environmental Protection Agency's name or description of the area	Topography 10
djurskyddstyp	Text	type of animal protection area	Topography 10 Topography 50 Topography 100 Topography 250

#### 4.9.1.3 VALUE RANGE ANIMAL PROTECTION TYPE

Table 92 Value range Animal protection type.

Value	Definition
Säl- och fågelskyddsområde	animal protection area for seals and birds
Djurskyddsområde	animal protection area for animals other than seals and birds
Fågelskyddsområde	animal protection area for birds
Sälskyddsområde	animal protection area for seals
Ingen information	no information

#### 4.9.1.4 RESTRICTION AREA

Table 93 Layer description and code list for restriction area.

Object type	Object type number	Definition	Level of detail
Fire ban	5610	area with a ban on open fires	Topography 10 Topography 50 Topography 100

Object type	Object type number	Definition	Level of detail
Tent and fire ban	5609	area with a ban on camping and open fires	Topography 10 Topography 50 Topography 100
Prohibited area with off-road vehicles	5602	area where off-road vehicles is prohibited according to the Off-road Traffic Ordinance (SFS 1978:594)	Topography 10 Topography 50 Topography 100
Prohibited area for terrain vehicles, time-limited	5611	area with a time-limited ban on off-road vehicle traffic according to the Off-road Traffic Ordinance (SFS 1978:594)	Topography 10 Topography 50 Topography 100

#### 4.9.1.5 SET OF ATTRIBUTES RESTRICTION AREA

*Table 94 Set of attributes restriction area.*

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100
objekttyp	Text	indicates the type of restriction area	Topography 10 Topography 50 Topography 100
informativ_text	Text	description of exceptions from, or information about, restricted area	Topography 10 Topography 50 Topography 100
tidsbegransning	Text	date when the prohibition applies	Topography 10 Topography 50 Topography 100

## 4.9.2 NATURE CONSERVATION LINE

### 4.9.2.1 NATURE CONSERVATION LINE

Table 95 Layer description and code list for Nature conservation line

Object type	Object type number	Definition	Level of detail
Nature reserve, line	5641	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 chapter 4-6 § or corresponding older law	Topography 50 Topography 100

### 4.9.2.2 SET OF ATTRIBUTES NATURE CONSERVATION LINE

Table 96 Set of attributes for Nature conservation line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 50 Topography 100
objektypnr	Integer	unique integer for the object type	Topography 50 Topography 100
objektyp	Text	indicates type of nature conservation line	Topography 50 Topography 100

## 4.9.3 NATURE CONSERVATION, POINT

### 4.9.3.1 NATURE CONSERVATION POINT

Table 97 Layer description and code list for nature conservation point.

Object type	Object type number	Definition	Level of detail
Nature monument	5804	nature object protected according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 10 § or corresponding older law	Topography 10 Topography 50 Topography 100
Other nature object	5803	distinctive nature object, not protected by law, but of general interest	Topography 10 Topography 50
Nature conservation, point	5805	protected nature according to <i>Miljöbalken</i> (SFS 1998:808) 7 Ch. 4-6 §§ or corresponding older law	Topography 250

## 4.9.3.2 SET OF ATTRIBUTES NATURE CONVERSATION POINT

Table 98 Set of attributes for nature conversation point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of Nature conservation point	Topography 10 Topography 50 Topography 100 Topography 250
rotation	Floating point	indicates orientation for a symbol	Topography 10 Topography 50 Topography 100 Topography 250
ovrigt_naturobjektstyp	Text	distinctive nature object	Topography 10 Topography 50

## 4.9.3.3 VALUE RANGE TYPE OF OTHER NATURE OBJECT

Table 99 Value range Type of other nature object.

Object type	Definition
Grotta <i>Cave</i>	natural cavity large enough for a human to enter
Källa <i>Spring</i>	groundwater collection flowing out of the ground, which due to constant inflow and outflow is not stagnant
Raukområde <i>Rauk area</i>	area with several closely spaced standing stones
Ingen information <i>No information</i>	

## 4.10 Military area

### 4.10.1 MILITARY AREA, POLYGON

#### 4.10.1.1 MILITARY AREA

Table 100 Layer description and code list for military area, polygon.

Object type	Object type number	Definition	Level of detail
Military training area	5501	military area primarily used for grouping, firing practice, and other types of exercises that do not do not involve live ammunition	Topography 10 Topography 50 Topography 100 Topography 250
Military firing range	5503	military area where dangerous activities such as firing with live ammunition and detonations are regularly conducted	Topography 10 Topography 50 Topography 100 Topography 250
Barracks area	5504	military area, usually fenced, with barracks, chancellery, mess halls, storage facilities, etc.	Topography 10 Topography 50 Topography 100

#### 4.10.1.2 SET OF ATTRIBUTES MILITARY AREA

Table 101 Set of attributes military area, polygon.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250
objekttyp	Text	indicates the type of military area	Topography 10 Topography 50 Topography 100 Topography 250
mo_id	Text	identifier for military area	Topography 10 Topography 50 Topography 100
skjutfaltstyp	Text	type of firing range	Topography 10 Topography 50 Topography 100



## 4.10.1.3 VALUE RANGE FIRING RANGE TYPE

Table 102 Value range for Firing range type.

Value	Definition
Skjutfält (Firing range)	Firing range on land.
Skjutområde (Firing area)	Firing range on water.

## 4.11 Northern arctic circle

## 4.11.1 NORTHERN ARTIC CIRCLE, LINE

## 4.11.1.1 NORTHERN ARTIC CIRCLE

Table 103 Layer description and code list for Northern Arctic Circle, line.

Object type	Object type number	Definition	Level of detail
Northern Arctic circle	1881	southern boundary north of the equator for the area where the sun, at some point, is above the horizon for more than 24 hours in a row	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.11.1.2 SET OF ATTRIBUTES NORTHERN ARTIC CIRCLE

Table 104 Set of attributes for northern arctic circle, line.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttypnr	Integer	unique integer for the object type	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M
objekttyp	Text	Only indicates the object type Northern Arctic circle.	Topography 10 Topography 50 Topography 100 Topography 250 Topography 1M

## 4.12 Text

### 4.12.1 TEXT, POINT

#### 4.12.1.1 TEXT LAYER WITH PLACE NAMES AND INFORMATIVE TEXT FOR FÖR LARGE SCALE TEXT

Includes cartographically placed text. Arial is recommended as the font.

*Table 105 Layer description for text, point (large scale text).*

Detail type	Name	Description	Level of detail
ANLTX	Facility name	Name of facility or facility area. A facility can be a building, a collection of buildings, or another type of constructed area meant for production, service, or recreation.	Topography 10
ANLUTX	Information text, facility	information text for facility and buildings	Topography 10
BEBTX	Building name	Names of buildings, or a collection of buildings meant primarily intended for residential or office purposes. Examples are name of villages, farmyards, crofts as well as individual buildings.  NOTE! Names of built-up areas can also be included in this detail type.	Topography 10
BEBTÄTTX	Place name of urban areas	Names of localities.	Topography 10
KYRKATX	Name of church	Name of a larger church building, parish church, former parish churches and civil parish churches belonging to the Church of Sweden. Church also includes chapels (not burial chapels) and abandoned churches.	Topography 10
GLACIÄRTX	Name of glacier	Name of glacier.	Topography 10
SANKTX	Name of wetland	Name of wetland.	Topography 10
VATTDELTX	Name of a part of water (lakes and larger	Name of a part of water. For example, part of a sea, lake, sound, or bay.	Topography 10

Detail type	Name	Description	Level of detail
	watercourses)		
VATTDRTX	Watercourse, name	Name of a water course, rapids, or waterfall.	Topography 10
VATTTX	Name of lake	Name of sea and lake.	Topography 10
KULTURTX	Name of ancient remains and other cultural-historical remains	Name of ancient remains or other cultural-historical remains	Topography 10
KULTURUTX	Informative text, other cultural-historical remains	Informative text for ancient remains or other cultural-historical remains	Topography 10
MILUTX	Informative text, military area	Informative text for military area.	Topography 10
NATTX	Name of area protected by NVL	Name of nature and culture reserve as well as nature conservation areas that are legally protected.	Topography 10
NATUTX	Informative text, nature conservation	Informative text for nature and culture reserves as well as nature conservation areas that are legally protected.	Topography 10
TERRTX	Terrain name	Name of nature and terrain features.	Topography 10
TERRUTX	Informative text, nature, and terrain features	Informative text for nature and terrain feature.	Topography 10

## 4.12.1.2 TEXT POINT FOR SMALL SCALE TEXT

Includes cartographically placed text. Arial is recommended as the font.

*Table 106 Layer description text, point (small scale text).*

<b>Text category</b>	<b>Definition</b>	<b>Level of detail</b>
Administrative unit	name of the division of the kingdom of Sweden into counties and municipalities	Topography 50 Topography 100 Topography250 Topography 1M
Facility area/Building facility	name of a building facility or facility area	Topography 50 Topography 100 Topography250 Topography 1M
Settlements	name of smaller settlements or single farms	Topography 50 Topography 100 Topography250 Topography 1M
Mountain information text	name of objects in the mountain area	Topography 50 Topography 100 Topography250 Topography 1M
Hydrography	name of hydrographic object	Topography 50 Topography 100 Topography250 Topography 1M
Cultural-historical remains	name of cultural-historical remains	Topography 50 Topography 100 Topography250 Topography 1M
Church	name of church	Topography 50 Topography 100 Topography250
Protected nature	name of an area with long-term legal protection	Topography 50 Topography 100 Topography250 Topography 1M
Terrain name	name of nature and terrain objects	Topography 50 Topography 100 Topography250 Topography 1M
Urban area	name of densely built-up area	Topography 50 Topography 100

Text category	Definition	Level of detail
		Topography250 Topography 1M
Informative text	name that is not a place name text	Topography 50 Topography 100 Topography250 Topography 1M

#### 4.12.1.3 SET OF ATTRIBUTES

Table 107 Set of attributes för text, point.

Attribute	Type	Definition	Level of detail
objektidentitet	Text	a globally unique identity for exchange objects	Topography 50 Topography 100 Topography250 Topography 1M
textkategori	Text	grouping is used to control the printing of text	Topography 50 Topography 100 Topography250 Topography 1M
textstrang	Text	specifies the entire text without hyphenations	Topography 50 Topography 100 Topography250 Topography 1M
textlage	Integer	insertion points for text.	Topography 50 Topography 100 Topography250 Topography 1M
textriktning	Floating point	rotation for text	Topography 50 Topography 100 Topography250 Topography 1M
storleksklass	Text	specifies which font size to use depending on the scale	Topography 50 Topography 100 Topography250 Topography 1M

## 5 List of change

*Table 108 List of change.*

<b>Version</b>	<b>Date</b>	<b>Reason and change from previous version</b>
<b>2.3</b>	2024-02-28	Chapter 4.5.3.3 Definition changed for Church and Religious building.
<b>2.2</b>	2024-01-17	First established English version.