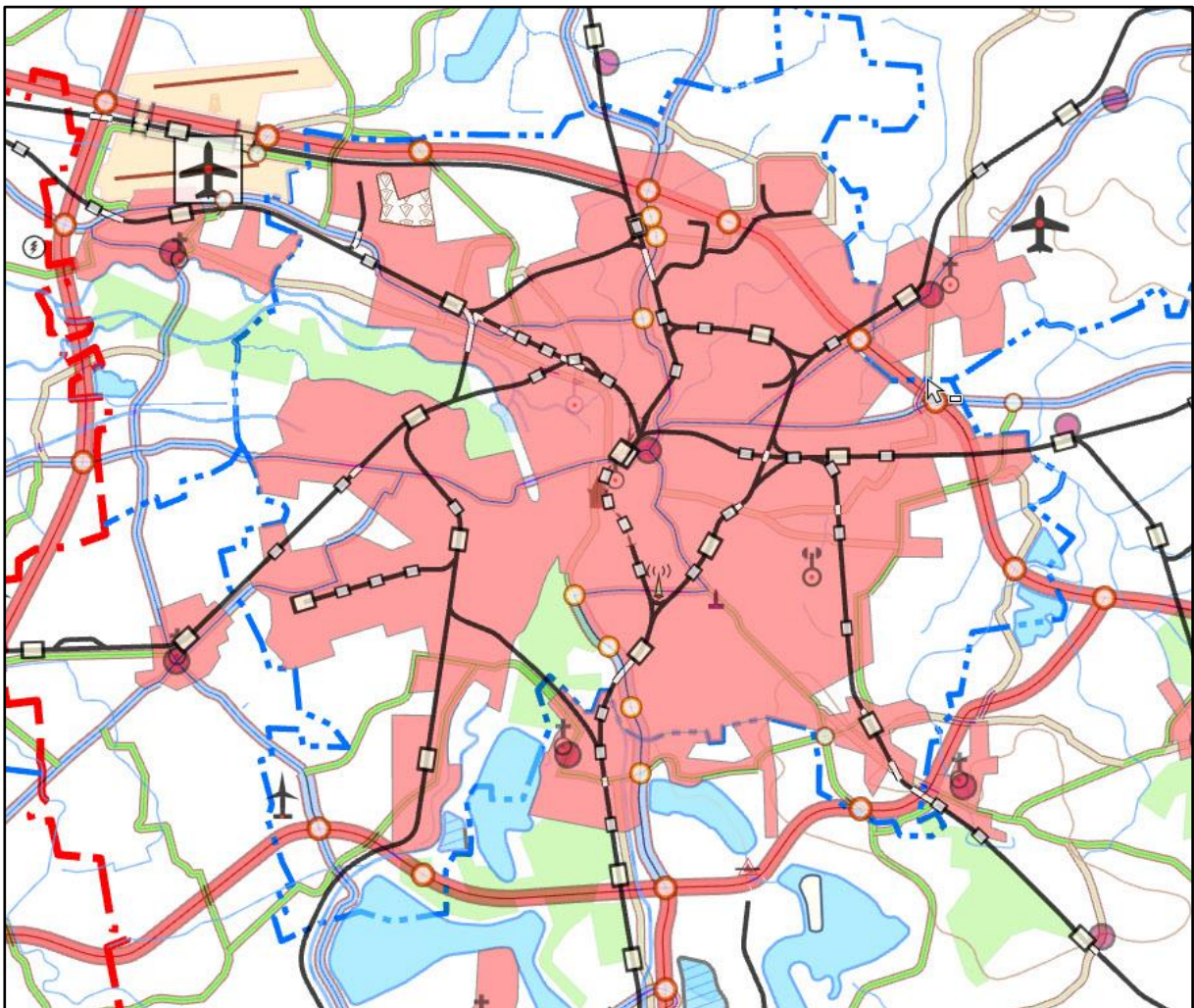




Documentation

Digital Landscape Model 1:1 000 000

DLM1000



Product as of December 2024

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1 Overview of the dataset

Product:	Digital Landscape Model 1:1 000 000 (DLM1000)
Content:	Description of the topographic landscape objects in vector format on the basis of the AFIS-ALKIS-ATKIS data model
Area:	Federal Republic of Germany
Spatial reference:	<ul style="list-style-type: none">▪ UTM projection in zone 32, Ellipsoid GRS80, Datum ETRS89▪ Gauß-Krüger projection in the 3rd meridian strip, Bessel Ellipsoid, Potsdam Datum (central point Rauenberg)
Position accuracy:	± 250m (see also section 2)
Topicality and completeness:	see section 5
Data formats:	<ul style="list-style-type: none">▪ NAS (for compact)▪ SHAPE (for levels)
Provision*:	<ul style="list-style-type: none">▪ Record via Download▪ Web Feature Service
Historical data:	Available since 2007
Data volume:	<ul style="list-style-type: none">▪ NAS 320 MB▪ SHAPE 240 MB
Data creator:	Bundesamt für Kartographie und Geodäsie

* Please note that not all forms of delivery can be provided with all georeferencing and data formats. If you have any questions, feel free to contact the service center.

2 Description of dataset and online services

2.1 Contents and format

The Digital Landscape Model 1:1 000 000 (DLM1000) is part of the 'Amtliche Topographisch-Kartographische InformationsSystem' (official topographic-cartographic informationsystem) ATKIS® and is based on the joint data-model for AFIS®, ALKIS® and ATKIS®.

The Documentation on the modelling of the geodata of Official Surveying and Mapping (in short: GeoInfoDok) describes the AFIS®, ALKIS® and ATKIS® projects with their characteristics defined on a Länder-crossing basis in a continuous form. In the basic scheme, fundamental characteristics of geo objects have been illustrated. In the AAA-application scheme the application objects with their attributes are described. Of particular interest to the user is the division of the ATKIS feature type catalogues into object themes, feature type groups and feature types. A data exchange format based on open standards is specified in the present documentation on Norm-based Exchange Interface (NAS).

All documents of the GeoInfoDok have been published on the internet pages of the Arbeitsgemeinschaft der Vermessungsverwaltungen der Länder der Bundesrepublik Deutschland ([Adv](#)). Within the scope of this product documentation reference is made to these documents for the purpose of further representations and explanations.

The DLM1000 describes the topographical objects of the landscape in vector format. The objects are assigned to a certain feature type and defined on the basis of their spatial position, their geometrical type, their descriptive attributes and their relations to other objects (relations). The spatial position is indicated for the DLM1000 independently of scale and projection. The data have been generalized cartographically according to the symbolization catalogue 1:500 000 of the Digital Topographic Map 1:500 000 (DTK500). Each object possesses an object identifier (OID) which is unique throughout Germany and constant for the whole lifetime of the object.

The DLM1000's scope of information is described with detailed information on the individual feature types, attributes along with the attribute values and the modelling modes "[ATKIS®-Objektartenkatalog DLM1000](#)" and in this documentation.

In contrast to the Basis-DLM the DLM1000 does not contain the complete information on the real ground surface use. The contents concern selected feature types with certain attributes in connection with recording criteria. For example the feature class "vegetation" contains few feature types with a recording criterion concerning the areal size of the objects in question.

In the DLM1000 the positional accuracy for all objects is $\pm 250\text{m}$. Dependent on resolution the generalization may lead to a higher value.

For the data release two types of product-processing are designed:

Compact

The DLM1000 (Compact) represents the DLM1000 precisely as described in the respective reference version of the GeoInfoDok. Its exchange format is the Norm-Based Exchange Interface (NAS).

Levels

The DLM1000 (Levels) contains the whole extent of contents, but is organized with a simpler thematic data structure, which should be useful for many applications. It is based on ESRI Shapefiles.

2.2 Modification against last dataset

The feature type 61008 AX_Höhenlinie has been given new contour lines (equidistances).

The feature type 62030 AX_Strukturlinie3D is part of the REL02 level.

The SYMBOLNR field has been removed.

3 DLM1000 Specification (Compact)

3.1 Description of the dataset

The dataset follows the specifications defined in the GeoInfoDok AFIS-ALKIS-ATKIS-schema Version 7.1.2. The following documents supply comprehensive data on general AAA-model fundamentals, contents and modelling rules of the DLM1000:

- [Main document](#)
(General Documentation on the AAA-reference model, base scheme, NAS, etc.)
- [ATKIS® feature type catalogue DLM1000](#)
(feature types with definition, attributes, relations etc.)

In addition:

- [Modelling examples on the ATKIS® Basis-DLM](#)
- [List of the topicality ATKIS® Basis-DLM](#)

3.2 Description of the data exchange format

The exchange of data in the AAA-data model is made via the Norm-Based Exchange Interface (NAS). The following documents provide comprehensive information on this interface:

- [Main document](#)
(General Documentation on the AAA-reference model, base scheme, NAS, etc.)
- [External model data exchange](#)
(all XML scheme files)

The data are distributed according to the following procedure:

- **Extract of inventory data**
Data contents corresponds to a spatial and/or semantic selection from the entire dataset without possibility of a differential update.
- **User-related updating of inventory data (NBA)** (presently only available as initial equipment)
For the keeping of secondary data sets by means of initial data equipment and subsequent differential updates (related to reporting date). The data content corresponds to a once fixed spatial and/or semantic selection from the entire dataset.

4 Specification DLM1000 (Levels)

4.1 Description of the dataset

Beside the NAS the product constitutes an alternative data format for ATKIS data of the model type DLM1000. In this case the focus is particularly on the immediate, uncomplicated usability of a simple level-orientated data structure in systems visualizing or further processing geodata.

Main characteristics from the user's point of view:

- Bundling of semantically associated feature types through definition of thematic levels.
- Direct connection of attributive data to the respective object geometries.
- Connection of non-spatial data to the relevant objects with spatial reference as far as possible.

Determinations on product definition:

- The data content is based on the shown scope of objects in the GeoInfoDok (feature type catalogue).
- The data model supports porting of all geometry-related feature types listed in the feature type catalogue.
- All ported data contents are provided as Shape files. Given that the Shape format can only receive objects of the same geometry type, levels normally consist of several partial levels for each relevant geometric object characteristic.
- The feature types without spatial reference (ZUSO, NREO, catalogues) contained in the DLM1000 are dissolved and the technical data are directly annexed to the relevant objects with spatial reference. Thus, e.g. explicit porting of the relation *istTeilVon* is omitted.

Naming conventions:

- The name of a level is composed of an abbreviation for the subject with regard to contents, a consecutive numbering of the respective levels within a specific subject and an identifier for the geometry type of the objects contained.
Example:
Level „gew01_f“ belongs to the level „01“ in the subject “water bodies“ and contains areal objects.
- Because of the Shape specific restriction to 10 characters the naming of the attributes cannot be done in long form as stated in the AAA-feature type catalogue. Instead, the additionally indicated attribute identifiers consisting of three characters are used (e.g. ADF for *administrativeFunktion*). It must be taken into account that some attribute identifiers can be relevant for different feature types.
- For object attributes without an indication of a short attribute identifier in the OK (e.g. AX_Lebenszeitintervall.beginnt, AA_Modellart.advStandardModell etc.) a designation with a maximum of 10 characters is used which can possibly deviate from the data model.

Attribute definitions:

- For the designation of the property attributes the short forms which are listed in the object catalogue are used. In the case of general object attributes without defined short forms self-defined short forms are used.
- Every object has an attribute which marks whether the object has an underpass relation *hatDirektUnten* or not (attribute name HDU_X). The opposite overpass relation is not marked.
- All *hatDirektUnten* relations are combined in a separate level and are not attached to the respective objects. This level has no geometry. Thereby the evaluation of over- and underpasses in the data set is facilitated.
- If attributes have several value assignments (multiple attributes, e.g. cardinality 1..*) the single values are combined as a string. The hash (#) acts as separator.
- The combination of different, thematically related feature types in one level leads to not all attributes of this level applying to every object. In this case text attributes remain empty. Numerical attributes have the value "-9999,0".
- If a numerical attribute is empty it has the value "-9998,0".

Changes of GeoInfoDok

In section 4.3 modifications (additions or deletions) are compared with the GeoInfoDok AFIS-ALKIS-ATKIS-schema 7.1.2 for a future GeoInfoDok AFIS-ALKIS-ATKIS-schema and made visible by footnotes:

¹ Supplement in contrast to AFIS-ALKIS-ATKIS-schema version 7.1.2

² Cancellation in contrast to AFIS-ALKIS-ATKIS-schema version 7.1.2

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

The footnote details are summarized at the end of each theme.

4.2 Overview of the attribution of the feature types to different levels

Level	Content	Feature type
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Object theme: Settlement		
SIE01	site, named location	52001 AX_Ortslage
SIE02	areas dominated by buildings	41005 AX_TagebauGrubeSteinbruch
SIE03	buildings and other facilities	51002 AX_BauwerkOderAnlageFuerIndustrieUndGewerbe 51009 AX_SonstigesBauwerkOderSonstigeEinrichtung
SIE04	special facilities at settlement areas	52003 AX_Schleuse 52005 AX_Testgelaende
SIE05	buildings	31001 AX_Gebaeude 51001 AX_Turm

Object theme: Traffic		
VER01	road traffic	42003 AX_Strassenachse ZUSO: 42002 AX_Strasse
VER03	railway traffic	42014 AX_Bahnstrecke 53005 AX_SeilbahnSchwebbahn
VER04	air traffic	42015 AX_Flugverkehr
VER05	shipping traffic	57002 AX_SchifffahrtslinieFaehrverkehr
VER06	transport buildings and facilities	53001 AX_BauwerkImVerkehrsbereich 53002 AX_Strassenverkehrsanlage 53004 AX_Bahnverkehrsanlage 53007 AX_Flugverkehrsanlage 53009 AX_BauwerkImGewaesserbereich

Object theme: Vegetation		
VEG01	agricultural area	43001 AX_Landwirtschaft
VEG02	forestry use	43002 AX_Wald
VEG03	vegetation areas	43004 AX_Heide 43005 AX_Moor 43006 AX_Sumpf 43007 AX_UnlandVegetationsloseFlaeche
VEG04	characteristic of vegetation	54001 AX_Vegetationsmerkmal

Object theme: Water bodies		
GEW01	water bodies	44001 AX_Fliessgewaesser 44004 AX_Gewaesserachse 44006 AX_StehendesGewaesser 44007 AX_Meer ZUSO: 44002 AX_Wasserlauf 44003 AX_Kanal
GEW02	special characteristics of water bodies	55001 AX_Gewaessermerkmal
GEW03	axis of water line	57003 AX_Gewaesserstationierungsachse

Object theme: Areas		
GEB01	administrative areas	75004 AX_Gebiet_Nationalstaat 75005 AX_Gebiet_Bundesland 75006 AX_Gebiet_Regierungsbezirk 75007 AX_Gebiet_Kreis 75009 AX_Gebietsgrenze Incl. Attribute aus 73001 AX_Nationalstaat 73002 AX_Bundesland 73003 AX_Regierungsbezirk 73004 AX_KreisRegion 73015 AX_Katalogeintrag
GEB02	geographical areas	74001 AX_Landschaft 74004 AX_Insel
GEB03	protected areas	71006 AX_NaturUmweltOderBodenschutzrecht 71011 AX_SonstigesRecht 71012 AX_Schutzzone ZUSO: 71007 AX_SchutzgebietNachNaturUmweltOderBodenschutzrecht

Object theme: Relief		
REL01	relief forms	61003 AX_DammWallDeich 61008 AX_Hoehenlinie
REL02	measurement data 3D	62020 AX_Punkt3D 62030 AX_Strukturlinie3D ZUSO: 61001 AX_BoeschungKliff

Object theme: Verical Relation		
H DU01	relation	Referenzen HatDirektUnten

4.3 Description of the levels

Theme *Settlement*

SIE01_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	52001 AX_Ortslage
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NAM	Text(180)	name	52001
RGS	Text(100)	regionalsprache	52001
SCH ³	Text(12)	schluessel	52001
BEMERKUNG ³	Text(200)	bemerkung	52001

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
52001	SCH			new attribute

Theme Settlement

SIE01_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	52001 AX_Ortslage
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NAM	Text(180)	name	52001
RGS	Text(100)	regionalsprache	52001
SCH ³	Text(12)	schluessel	52001
BEMERKUNG ³	Text(200)	bemerkung	52001

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
52001	SCH			new attribute

Theme Settlement

SIE02_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	41005 AX_TagebauGrubeSteinbruch
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
AGT	Text(4)	abbaugut	41005
NAM	Text(100)	name	41005
ZUS	Text(4)	zustand	41005
BEMERKUNG ³	Text(200)	bemerkung	41005

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Settlement

SIE03_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	51002 AX_BauwerkOderAnlage- FuerIndustrieUndGewerbe 51009 AX_SonstigesBauwerk- OderSonstigeEinrichtung
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDX_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
BWF	Text(4)	bauwerksfunktion	51002, 51009
NAM	Text(100)	name	51002, 51009
ZUS	Text(4)	zustand	51002
BEMERKUNG ³	Text(200)	bemerkung	51002, 51009

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Thema Settlement

SIE04_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	52005 AX_Testgelaende
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NAM	Text(100)	name	52005 ¹
BEMERKUNG ³	Text(200)	bemerkung	52005

¹ Supplement in contrast to AFIS-ALKIS-ATKIS-schema version 7.1.2

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Name</i>	<i>Note</i>
52005	NAM			new attribute

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Settlement

SIE04_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	52003 AX_Schleuse
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
KON	Text(4)	konstruktionsmerkmalBauart	52003
NAM	Text(100)	name	52003
ZUS	Text(4)	zustand	52003
BEMERKUNG ³	Text(200)	bemerkung	52003

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Settlement

SIE04_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	52003 AX_Schleuse
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
KON	Text(4)	konstruktionsmerkmalBauart	52003
NAM	Text(100)	name	52003
ZUS	Text(4)	zustand	52003
BEMERKUNG ³	Text(200)	bemerkung	52003

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Settlement

SIE05_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	31001 AX_Gebaeude 51001 AX_Turm
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
BWF	Text(20)	bauwerksfunktion	51001
GFK	Text(4)	gebaeudefunktion	31001
HHO	Float(6,1)	objekthoehe	51001
NAM	Text(100)	name	31001, 51001
ZNM	Text(100)	zweitname	31001
ZUS	Text(4)	zustand	31001, 51001
BEMERKUNG ³	Text(200)	bemerkung	31001, 51001

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER01_L

Via the relation *istTeilVon* the objects of REOs *AX_Strassenachse* (42003) refer to the ZUSOs of the feature type *AX_Strasse* (42002). The concrete attribution is defined by the attributes *OBJART_Z* and *OBJID_Z*. The attributes of the ZUSO are attached to all related REOs.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	42003 AX_Strassenachse
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
OBJART_Z	Text(5)	Objektart des ZUSO	42003 (istTeilVon 42002 AX_Strasse)
OBJID_Z	Text(16)	Objekt-ID des ZUSO	42003 (istTeilVon 42002 AX_Strasse)
BEZ	Text(30)	bezeichnung	42003
FSZ	Long Integer(5)	anzahlDerFahrstreifen	42003
FTR	Text(4)	fahrbahntrennung	42003
IBD	Text(4)	internationaleBedeutung	42003
WDM	Text(4)	widmung	42003
ZUS	Text(4)	zustand	42003
BEMERKUNG ³	Text(200)	bemerkung	42003

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER03_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	42014 AX_Bahnstrecke 53005 AX_SeilbahnSchwebebahn
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
BKT	Text(20)	bahnkategorie	42014
ELK	Text(4)	elektrifizierung	42014
GLS	Text(4)	anzahlDerStreckengleise	42014 ³
NAM	Text(100)	name	53005
NRB	Text(60)	nummerDerBahnstrecke	42014
SPW	Text(4)	spurweite	42014
VKD	Text(4)	verkehrsdienst	42014
ZNM	Text(100)	zweitname	42014
ZUS	Text(4)	zustand	42014
BEMERKUNG ³	Text(200)	bemerkung	42014, 53005

³ **Additional field, not part of AFIS-ALKIS-ATKIS-schema**

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
42014	GLS	3000	multitrack	new attribute value

Theme Traffic

VER04_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	42015 AX_Flugverkehr
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(4)	art	42015
BEZ	Text(60)	bezeichnung	42015
NAM	Text(100)	name	42015
NTZ	Text(4)	nutzung	42015
ZNM	Text(100)	zweitname	42015
ZUS	Text(4)	zustand	42015
BEMERKUNG ³	Text(200)	bemerkung	42015

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER05_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	57002 AX_SchiffahrtslinieFaehrverkehr
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(20)	art	57002
NAM	Text(100)	name	57002
BEMERKUNG ³	Text(200)	bemerkung	57002

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER06_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	53009 AX_BauwerkImGewaesserbereich
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
BWF	Text(4)	bauwerksfunktion	53009
NAM	Text(100)	name	53009
RGS	Text(100)	regionalsprache	53009
ZUS	Text(4)	zustand	53009
BEMERKUNG ³	Text(200)	bemerkung	53009

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER06_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	53001 AX_BauwerkImVerkehrsbereich 53007 AX_Flugverkehrsanlage 53009 AX_BauwerkImGewaesserbereich
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(4)	art	53007
BEZ	Text(60)	bezeichnung	53007
BWF	Text(4)	bauwerksfunktion	53001, 53009
NAM	Text(100)	name	53001, 53007, 53009
RGS	Text(100)	regionalsprache	53009
ZNM	Text(100)	zweitname	53007
ZUS	Text(4)	zustand	53001, 53007, 53009
BEMERKUNG ³	Text(200)	bemerkung	53001, 53007, 53009

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Traffic

VER06_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	53002 AX_Strassenverkehrsanlage 53004 AX_Bahnverkehrsanlage 53007 AX_Flugverkehrsanlage 53009 AX_BauwerkImGewaesserbereich
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(4)	art	53002, 53007
BEZ	Text(60)	bezeichnung	53002, 53004, 53007
BFK	Text(4)	bahnhofskategorie	53004
BKT	Text(20)	bahnkategorie	53004
BWF	Text(4)	bauwerksfunktion	53009
NAM	Text(100)	name	53002, 53004, 53007, 53009
RGS	Text(100)	regionalsprache	53009
VKD	Text(4)	verkehrsdienst	53004
ZNM	Text(100)	zweitname	53007
ZUS	Text(4)	zustand	53004, 53007, 53009
BEMERKUNG ³	Text(200)	bemerkung	53002, 53004, 53007, 53009

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Vegetation

VEG01_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	43001 AX_Landwirtschaft
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NAM	Text(100)	name	43001
VEG	Text(4)	vegetationsmerkmal	43001
BEMERKUNG ³	Text(200)	bemerkung	43001

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Vegetation

VEG02_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	43002 AX_Wald
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NTZ ²	Text(4)	name	43002 ²
BEMERKUNG ³	Text(200)	bemerkung	43002

² Cancellation in contrast to AFIS-ALKIS-ATKIS-schema version 7.1.2

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
43002	NTZ			deleted attribute

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Vegetation

VEG03_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	43004 AX_Heide 43005 AX_Moor 43006 AX_Sumpf 43007 AX_UnlandVegetationsloseFlaeche
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
FKT	Text(4)	funktion	43007
NAM	Text(100)	name	43004 ¹ , 43005, 43006
OFM	Text(4)	oberflaechenmaterial	43007
BEMERKUNG ³	Text(200)	bemerkung	43004, 43005, 43006, 43007

¹ Supplement in contrast to AFIS-ALKIS-ATKIS-schema version 7.1.2

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
43004	NAM			new attribut

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Vegetation

VEG04_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	54001 AX_Vegetationsmerkmal
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
NAM	Text(100)	name	54001
ZUS	Text(4)	zustand	54001
BEMERKUNG ³	Text(200)	bemerkung	54001

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme *Water bodies*

GEW01_F

Via the relation *istTeilVon* the objects of REOs *AX_Fliessgewaesser* (44001) refer to the ZUSOs of the feature type *AX_Wasserlauf* (44002) or *AX_Kanal* (44003). The concrete attribution is defined by the attributes *OBJART_Z* and *OBJID_Z*. The attributes of the ZUSO are attached to all related REOs.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	44001 AX_Fliessgewaesser 44006 AX_StehendesGewaesser 44007 AX_Meer
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
OBJART_Z	Text(5)	Objektart des ZUSO	44001 (istTeilVon 44002 / 44003)
OBJID_Z	Text(16)	Objekt-ID des ZUSO	44001 (istTeilVon 44002 / 44003)
FKT	Text(4)	funktion	44001
GWK	Text(20)	gewaesserkennzahl	44001
HYD	Text(4)	hydrologischesMerkmal	44001, 44006
NAM	Text(100)	name	44001, 44006, 44007
RGS	Text(100)	regionalsprache	44001, 44006, 44007
SFK	Text(4)	schifffahrtskategorie	44001, 44006
SKZ	Text(20)	seekennzahl	44006
TID ³	Text(4)	tidemerkmal	44001
WDM	Text(4)	widmung	44001, 44006
WSG	Float(6,1)	wasserspiegelhoeheInStehendemGewaesser	44006
ZNM	Text(100)	zweitname	44001, 44006, 44007

ZUS	Text(4)	zustand	44001
BEMERKUNG ³	Text(200)	bemerkung	44001, 44006, 44007

³ **Additional field, not part of AFIS-ALKIS-ATKIS-schema**

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
44001	TID	1000	with tidal influence	new attribute with new attribute value

Theme *Water bodies*

GEW01_L

Via the relation *istTeilVon* the objects of REOs *AX_Gewaesserachse* (44004) refer to the ZUSOs of the feature type *AX_Wasserlauf* (44002) or *AX_Kanal* (44003). The concrete attribution is defined by the attributes *OBJART_Z* and *OBJID_Z*. The attributes of the ZUSO are attached to all related REOs.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	44004 AX_Gewaesserachse
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
OBJART_Z	Text(5)	Objektart des ZUSO	44004 (istTeilVon 44002 / 44003)
OBJID_Z	Text(16)	Objekt-ID des ZUSO	44004 (istTeilVon 44002 / 44003)
BRG	Short integer(2)	breiteDesGewaessers	44004
FKT	Text(4)	funktion	44004
FLR	Short integer(1)	fliessrichtung	44004
GWK	Text(20)	gewaesserkennzahl	44004
HYD	Text(4)	hydrologischesMerkmal	44004
NAM	Text(100)	name	44004
RGS	Text(100)	regionalsprache	44004
SFK	Text(4)	schiffahrtskategorie	44004
TID ³	Text(4)	tidemerkmal	44004
WDM	Text(4)	widmung	44004
ZNM	Text(100)	zweitname	44004

ZUS	Text(4)	zustand	44004
BEMERKUNG ³	Text(200)	bemerkung	44004

³ **Additional field, not part of AFIS-ALKIS-ATKIS-schema**

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
44004	TID	1000	with tidal influence	new attribute with new attribute value

Theme *Water bodies*

GEW02_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	55001 AX_Gewaessermmerkmal
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(4)	art	55001
NAM	Text(100)	name	55001
RGS	Text(100)	regionalsprache	55001
BEMERKUNG ³	Text(200)	bemerkung	55001

³ **Additional field, not part of AFIS-ALKIS-ATKIS-schema**

Theme *Water bodies*

GEW03_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	57003 AX_Gewaesserstationierungsachse
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
AGA	Text(4)	artDerGewaesserachse	57003
FLR	Short Integer(1)	fliesrichtung	57003
GWK	Text(30)	gewaesserkennzahl	57003
NAM	Text(100)	name	57003
RGS	Text(100)	regionalsprache	57003
SFK	Text(4)	schiffahrtskategorie	57003
TID ³	Text(4)	tidemerkmal	57003
ZNM	Text(100)	zweitname	57003
BEMERKUNG ³	Text(200)	bemerkung	57003

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>	<i>Note</i>
57003	TID	1000	with tidal influence	new attribute with new attribute value

Theme Areas

GEB01_F

The attributes *name*, *key* and *administrative function* from the object group *catalogues* are added to the objects of the administrative areal units.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	75004 AX_Gebiet_Nationalstaat 75005 AX_Gebiet_Bundesland 75006 AX_Gebiet_Regierungsbezirk 75007 AX_Gebiet_Kreis
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ADF	Text(20)	administrativeFunktion	75004, 75005, 75006, 75007
BEZ_NAT	Text(60)	bezeichnungNationalstaat	75004, 75005, 75006, 75007
BEZ_LAN	Text(60)	bezeichnungLand	75005, 75006, 75007
BEZ_RBZ	Text(60)	bezeichnungRegierungsbezirk	75006, 75007
BEZ_KRS	Text(60)	bezeichnungKreis	75007, 75011
RGS	Text(100)	regionalsprache	75004, 75005, 75006, 75007
SCH	Text(20)	schluesselGesamt	75004, 75005, 75006, 75007
BEMERKUNG ³	Text(200)	bemerkung	75004, 75005, 75006, 75007

Theme Areas

GEB01_L

<i>Feature type</i>	<i>Label</i>	<i>Value</i>	<i>Identifier</i>
LAND	Text(3)	landeskennung	75009 AX_Gebietsgrenze
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
AGZ	Text(30)	artDerGebietsgrenze	75009
ZUS	Text(4)	zustand	75009
BEMERKUNG ³	Text(200)	bemerkung	75009

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Areas

GEB02_F

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	74001 AX_Landschaft 74004 AX_Insel
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
LTP	Text(4)	landschaftstyp	74001
NAM	Text(100)	name	74001, 74004
RGS	Text(100)	regionalsprache	74001, 74004
BEMERKUNG ³	Text(200)	bemerkung	74001, 74004

³ **Additional field, not part of AFIS-ALKIS-ATKIS-schema**

Theme Areas

GEB03_F

Via the relation *istTeilVon* the objects of REOs *AX_Schutzzone* (71012) refer to the ZUSOs of the feature type *AX_SchutzgebietNachNaturUmweltOderBodenschutzrecht* (71007). The concrete attribution is defined by the attributes *OBJART_Z* and *OBJID_Z*. The attributes of the ZUSO are attached to all related REOs.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	71006 AX_NaturUmweltOderBodenschutzrecht 71011 AX_SonstigesRecht 71012 AX_Schutzzone
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
OBJART_Z	Text(5)	Objektart des ZUSO	71012 (istTeilVon 71007)
OBJID_Z	Text(16)	Objekt-ID des ZUSO	71012 (istTeilVon 71007)
ADF	Text(4)	artDerFestlegung	71006, 71011, 71012
BEZ	Text(60)	bezeichnung	71006
NAM	Text(180)	name	71006, 71011, 71012
SGN	Text(20)	nummerDesSchutzgebietes	71012
BEMERKUNG ³	Text(200)	bemerkung	71006, 71011, 71012

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Relief

REL01_L

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	61003 AX_DammWallDeich 61008 AX_Hoehenlinie
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
FKT	Text(4)	funktion	61003
HHL	Float(8,2)	hoeheVonHoehenlinie	61008
HHO	Float(6,1)	objekthoehe	62030
NAM	Text(100)	name	61003
BEMERKUNG ³	Text(200)	bemerkung	61003, 61008

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Relief

REL02_P

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	62020 AX_Punkt3D
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
ART	Text(4)	artDesPunkt3D	62020
HOEHE ³	Float(6,1)	hoehe	62020
BEMERKUNG ³	Text(200)	bemerkung	62020

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Theme Relief

REL02_L

Via the relation *istTeilVon* the objects of REOs *AX_Strukturlinie3D* (62030) refer to the ZUSOs of the feature type *AX_BoeschungKliff* (61001). The concrete attribution is defined by the attributes *OBJART_Z* and *OBJID_Z*. The attributes of the ZUSO are attached to all related REOs.

Field	Data type	Name	Applies to feature types
LAND	Text(3)	landeskennung	62030 AX_Strukturlinie3D
MODELLART	Text(30)	modellartenkennung	
OBJART	Text(5)	objektart	
OBJART_TXT	Text(50)	objektartText	
OBJID	Text(16)	eindeutigerObjektidentifikator	
HDU_X	Short Integer(4)	hatDirektUntenExistiert	
BEGINN	Text(20)	lebenszeitintervallBeginnt	
ENDE	Text(20)	lebenszeitintervallEndet	
OBJART_Z	Text(5)	Objektart des ZUSO	62030 (istTeilVon 61001)
OBJID_Z	Text(16)	Objekt-ID des ZUSO	62030 (istTeilVon 61001)
ART	Text(4)	art	62030
HHO	Float(6,1)	objekthoehe	62030 (istTeilVon 61001)
BEMERKUNG ³	Text(200)	bemerkung	62030

³ Additional field, not part of AFIS-ALKIS-ATKIS-schema

Thema Vertical Relation

HDU01

This theme has just one layer without geometry. Here all vertical relations between features (relation *HatDirektUnten*) are recorded in tabular form.

This level is automatically part of any data delivery.

<i>Field</i>	<i>Data type</i>	<i>Name</i>	<i>Applies to feature types</i>
LAND	Text(3)	landeskennung	
OBJART_1	Text(5)	objektart	upper feature
OBJID_1	Text(16)	eindeutigerObjektidentifikator	
EBENE_1	Text(7)	Name der Ebene	
OBJART_2	Text(5)	objektart	lower feature
OBJID_2	Text(16)	eindeutigerObjektidentifikator	
EBENE_2	Text(7)	Name der Ebene	

5 Topicality and completeness

The topicality fulfills at least the range of the “List of the topicality ATKIS® Basis-DLM”, regarding the feature types and attributes referred to in the “ATKIS®-Objektartenkatalog DLM250”.

The completeness is ensured by the current data of the Basis-DLM of the AdV considering the defined recording criteria of the [“ATKIS®-Objektartenkatalog DLM1000”](#).

The following feature types have been completely updated in 2023:

Theme	Level	Feature type	Updates
Settlement	SIE01	52001 AX_Ortslage	31.12.2024
	SIE03	51002 AX_BauwerkOderAnlageFuerIndustrieUndGewerbe	
	SIE04	52003 AX_Schleuse	
	SIE05	31001 AX_Gebaeude	
		51001 AX_Turm	
Traffic	VER01	42002 AX_Strasse	31.12.2024
		42003 AX_Strassenachse	
	VER03	42014 AX_Bahnstrecke	
	VER04	42015 AX_Flugverkehr	
	VER06	53001 AX_BauwerkImVerkehrsbereich	
		53002 AX_Strassenverkehrsanlage	
Areas	GEB01	75004 AX_Gebiet_Nationalstaat	31.12.2024
		75005 AX_Gebiet_Bundesland	
		75006 AX_Gebiet_Regierungsbezirk	
		75007 AX_Gebiet_Kreis	
		75009 AX_Gebietsgrenze	
	GEB02	74001 AX_Landschaft	
	GEB03	71006 AX_NaturUmweltOderBodenschutzrecht	
		71007 AX_SchutzgebietNachUmweltOderBodenschutzrecht	
		71011 AX_SonstigesRecht	
		71012 AX_Schutzzone	
Relief	REL02	62020 AX_Punkt3D	31.12.2024
		62030 AX_Strukturlinie3D	
Vegetation	VEG_03	43004 AX_Heide	31.12.2024

From 2021 to 2023 the other feature types have been completely updated.

6 Recording criteria and notes

In the following list detailed recording criteria surpassing the GeolInfoDok AFIS-ALKIS-ATKIS-schema Version 7.1.2 and additional or modified explanatory notes to the individual feature types and attribute values of the DLM1000 are given.

Theme Settlement	
52001 AX_Ortslage	<p>With the key-attribute SCH it is possible to derive more details about the objects by means of links with the products "Verwaltungsgebiete VG250" and "Verwaltungsgebiete VG1000" (available exempt from charges at BKG).</p> <p>Settlement areas < 2km² are recorded punctiform, settlement areas >= 2km² are recorded areal.</p> <p>An object is also modelled punctiform if it is an independent local authority without a site of its own (association of local authorities).</p>
31001 AX_Gebaeude	<p>Objects with GFK=3031 'Schloss' (castle, mansion), GFK=3038 'Burg, Festung' (castle, fortress) or GFK=3041 'Kirche' (church) are completely reported if UNESCO-world heritage sites, others in selection.</p> <p>Objects with GFK=3048 'monastery': significant buildings, recognizable as such.</p>
51002 AX_BauwerkOderAnlageFuerIndustrie UndGewerbe	<p>A punctiform object with the attribute BWF=1220 'wind turbine' represents 10 wind turbines.</p> <p>Objects with BWF=1260 'Funkmast' are recorded beyond object height >= 100 m.</p> <p>Objects with the attribute BWF=2530 'powerstation': thermal-fossil-fuel powerstations beyond 300 MW, all nuclear power-stations and solar parks beyond 0,25 km² are recorded.</p>

Theme Traffic	
42002 AX_Strasse 42003 AX_Strassenachse	Streets with WDM=1301, 1303 and 1305 are reported completely.
42014 AX_Bahnstrecke	<p>Within the generalization several railway lines may run on one linear geometry in an operating sense. The attribute 'NRB' contains the operational line number(s) for the lines of "DB-AG" and of some private railway companies. The line numbers were collected from documents on the DB network. In case of multiple line numbers all of them are listed.</p> <p>The attribute 'ELK' 'electrification' has the value '1000' 'electrified' if at least one line on the represented linear geometry has an electrified state.</p> <p>The attribute 'GLS' 'number of tracks' has the value '2000' 'double track' if at least one double track is situated on the represented linear geometry and GLS=3000 'multiple track' if , many tracks have been summarized due to generalization.</p>
53001 AX_BauwerkImVerkehrsbereich	<p>Due to generalization a number of buildings with equal feature value may be summarized. Besides the actual length, the length of an object with ART=1800 'bridge' also depends on the mapping base and for an overpass corresponds to at least the width of the symbol for the overpassed object.</p> <p>Objects with ART=1800 'bridge' over linear modelled water bodies are only recorded exceptionally.</p>
53004 AX_Bahnverkehrsanlage	Objects with FKT=1000 'passenger traffic' are recorded completely, with FKT=2000 'freight traffic' only shunting yards.
57002 AX_SchifffahrtslinieFaehrverkehr	Objects with ART=1730 'passenger ferry traffic' are only recorded in the sea.

Theme Water bodies	
44002 AX_Wasserlauf 44003 AX_Kanal	Objects receive a water bodies key number in the attribute 'GWK', if the objects have a water bodies catchment area >10km². These objects have to be reported for the "EU Water Framework Directive"

Theme Areas	
75004 AX_Gebiet_Nationalstaat 75005 AX_Gebiet_Bundesland 75006 AX_Gebiet_Regierungsbezirk 75007 AX_Gebiet_Kreis	If objects of the administrative areas are situated on sea areas, Lake Constance or – at some big estuaries – on areal modelled watercourses, they are recorded as independent objects.
74001 AX_Landschaft	<p>Complete recording of the objects which are composed by the permanent committee on geographical names and shown in the webservice 'Landschaften Deutschlands' of the Bundesamtes für Kartographie und Geodäsie.</p> <p>The objects modelled as areas may – due to the topographical location in nature – partially overlap or overlay. The objects don't have a topological connection.</p>

Theme Relief	
61008 AX_Höhenlinie	In contour line intervals depending on the actual altitude: - 75 meters in the 'lowlands' (up to 150 m) - 150 meters in the 'low mountain range' (over 150 m to 900 m) - 300 meters in the 'high mountain range' (over 900 m)
62030 AX_Strukturlinie3D	The objects have a direction. The slope is left-hand – when looking from the beginning-vertex towards the end-vertex.
62020 AX_Punkt3D	The 3D-point is recorded accurately respecting the desired model precision.

General	
Area Coverage	The extension of the DLM1000 is limited on the German federal territory. This also applies to the seaward boundary of the German territory.

7 Further Information

Further information concerning the product are available at gdz.bkg.bund.de. In case of any questions, you are welcome to contact our service centre at dlz@bkg.bund.de.

General information regarding the Federal Agency for Cartography and Geodesy can be found on our homepage www.bkg.bund.de.