Data Product Specification of *Obstacle* Data Set
AREA 1

Version:	0.3
Latest version	https://www.ans.lt/en/information-publications/digital-datasets-1
Published	2026-11-12
Language	English
Extent of the data product	Republic of Lihtuania
Topic category	Transportation
Keywords	Obstacles

Overview of the data product
Data set contains the digital obstacle data of Area 1 of Republic of Lihtuania. The digital obstacle data meets the numerical requirements defined in ICAO 15 and ICAO PANS-AIM (Doc 10066), Appendix 1, Table A1-6 for Area 1.

Contact Information	
Organisation	Aeronautical Information Service
Address	Balio Karvelio St. 25, LT-02184 Vilnius, Lithuania
Phone	+370 706 94 613
Email	ais@ans.lt
Web site	http://www.ans.lt

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1. About the data product specification	
Title	Data Product Specification of Obstacle Data Set of Area 1
This version	http://www.ans.lt
Latest version	NIL
Published	2026-11-12
Updated	In accordance with AIRAC cycle
Language	English
Contact	Aeronautical Information Service Balio Karvelio St. 25, LT-02184 Vilnius, Lithuania +370 706 94 613 ais@ans.lt
Web location	http://www.ans.lt
Format	PDF
Maintenance	The data product specification is updated regularly and reviewed at least once every year.
Handling restrictions	Unrestricted
Terms and definitions	See ICAO Annex 15 and PANS-AIM (Doc 10066).
Abbreviations	See ICAO Annex 15 and PANS-AIM (Doc 10066).

2. Identification and purpose of the data product	
Official title	Obstacle Data Set for Area 1 - Lithuania
ID	EY_EYVL_OBS_DS_FULL_%*AIRAC_date*%._AIRAC.xml
Abstract	The digital obstacle data set covers Area 1. The digital obstacle data meets the numerical requirements defined in ICAO 15 and ICAO PANS-AIM (Doc 10066), Appendix 1, Table A1-6 for Area 1.
Purpose	The purpose of the data product is to provide obstacle data for air navigation applications. ICAO PANS-AIM, Chapter 5.3.3.2 provides possible uses of the data. It is the responsibility of the users to determine if the data product meets their needs.
Topic category	Transportation
Keywords	Obstacles
Spatial representation	Vector
Spatial resolution	*Not applicable*
Supplemental information	*NIL*
Restrictions	Use limitations: For aviation use only Access restrictions: For http://www.ans.lt registered users only
Extent	Territory of Lithuania

3. Scopes	
General scope	
Scope id	General scope
Level	Series
Level name	General scope
Level description	The general scope level defines the specifications which are applicable to all aeronautical data of Republic of Lithuania.
Extent	Republic of Lihtuania
Coverage	Not applicable
Area 1	
Scope id	Area 1
Level	Dataset
Level name	Area 1
Level description	The Area 1 scope defines the specifications which are for obstacles in Area 1 and deviate from the general scope.
Extent	Republic of Lihtuania

4. Data content and structure	
General scope	
Narrative description	The data model for obstacle data follows the model defined in AIXM 5.1
Application schema	AIXM 5.1 (http://aixm.aero)
Feature catalogue	All mappings are provided http://aixm.aero

5. Reference system	
General scope	
Spatial reference system	Horizontal reference system: WGS-84 Vertical reference system: EGM- 96 or LAS-07 (local)
Temporal reference system	Gregorian Calendar, UTC.

6. Data quality requirements	
General scope	
Requirement 1	Data quality element: Assurance (Integrity) The procedures for processing of the data have been setup to meet the integrity requirements.
Requirement 2	Data quality element: Traceability Data quality measure: All actions applied to the data are traced and saved in metadata.

Requirement 3	Data quality element: Timeliness Data quality measure: Timeliness is assured by providing the start and end time position of all obstacles according to the temporality concept of AIXM.
Requirement 4	Data quality element: Completeness Data quality measure: All features and attributes are expressed according to the AIXM model. The content of the data set was checked by visual inspection.
Area 1	
Requirement 1	Data quality element: Horizontal accuracy Data quality measure: The horizontal accuracy is 50 m at 90% confidence level.
Requirement 2	Data quality element: Vertical accuracy Data quality measure: The vertical accuracy is 30 m at 90% confidence level.
Requirement 3	Data quality element: Horizontal resolution Data quality measure: The horizontal resolution is 1 sec.
Requirement 4	Data quality element: Vertical resolution Data quality measure: The vertical resolution is 1 m.

7. Data capture and production	
General scope	
Description	Obstacle data capture rules are based on Ordinance of the Lithuanian transport safety administration No. 2BE-297 *Description of the procedure for the provision of air navigation information services.*
Guide	NIL
Inclusion criteria	Obstacles must have a minimal height of 100 m above ground level to be included in an Area 1 obstacle dataset.
Data acquisition and processing	1) Data was collected from data originators 2) Coordinate system was changed from LKS-94 to WGS-84 3) Obstacle height was calculated from metres to feet 4) Obstacle type was determined

8. Maintenance of the data	
General scope	
Description	The data set will be updated according to AIRAC cycle when necessary. New obstacles or changes between AIRAC dates will be announced by NOTAM.
Frequency	Continual
User defined	*Not applicable*

9. Portrayal rules	
General scope	
Portrayal rules	*Not applicable*

10. Data delivery methods	
.xml	
Format name	AIXM (.xml)
Format version	5.1
Format specification	AIXM 5.1 Specification (source http://aixm.aero)
File structure	http://www.aixm.aero/schema/5.1/message/AIXM_BasicMessage.xsd
Language	English
Character set	UTF-8
Units of delivery	Dataset
Transfer size	Various
Medium name	Digital file transfer
Other delivery	*Not applicable*
Service property	https://www.ans.lt/en/information-publications/digital-datasets-1

11. Metadata	
General scope	
Specification	Title: ISO 19115, Geographic information – Metadata
Encoding	Title: ISO 19139, Geographic information – Metadata– XML schema implementation
Metadata elements	The metadata is included in the data set as described in ICAO PANS-AIM (Doc 10066) Chapter 5.3.2. The following metadata is provided: • Title of data set • Organisation providing the data set • Abstract • Creation date • Effective date • Validity • Constraint of use

12. Additional information	
General scope	
Additional information	*Not applicable*