Data Product Specification of PANSA AIXM 4.5 AIM Database

Version:	1.2
This version	https://www.ais.pansa.pl/en/publications/aim-database/
Latest version	https://www.ais.pansa.pl/en/publications/aim-database/
Published	2024-06-13
Language	English
Extent of the data product	FIR EPWW
Topic category	Transportation
Keywords	AIP

Overview of the data product

This data set is a full data set and it contains the following aeronautical data features:

- Aerodrome data
- Airspace data
- ATS and other routes data
- Navaid data
- Other information data as well as shared characteristics of data such as:
- Schedule
- Geometry

History of changes to the DPS

Version	Date	Reason for change	Changed sections
1.0	2022-01-27	Creation of document	All
1.1	2022-05-19	Content changes	Logo on the cover page
1.2	2024-06-13	Content changes	Reference system

Content

1. Specification scope	
Title	PANSA AIXM 4.5 AIM Database
This version	https://www.ais.pansa.pl/en/publications/aim-database/
Latest version	NIL
Published	2022-01-27
Updated	In accordance with AIRAC cycle
Language	English
Contact	Aeronautical Information Service 02-147 Warszawa, ul. Wieżowa 8 AIS HQ: +48-22-574-5625, fax: +48-22-574-5619 AFS: EPWWYOYX, e-mail: ais.poland@pansa.pl NOTAM Office: +48-22-574-7174, fax: +48-22-574-7179 AFS: EPWWYNYX, e-mail: nof@pansa.pl http://www.ais.pansa.pl
Web location	https://ais.pansa.pl
Format	AIXM 4.5
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, 16th Edition and PANS-AIM (Doc 10066), 1st Edition.
Abbreviations	See ICAO Annex 15, 16th Edition and PANS-AIM (Doc 10066), 1st Edition.
2. Data product Identification	
Official title	PANSA AIXM 4.5 AIM Database
Alternative title	Not applicable
ID	AIM_Database_%AIRAC_Date%_PANSA_AIXM_4.5.xml
Abstract	This data set contains the following aeronautical data features like: • Aerodrome data: AirportHeliport, Runway, RunwayDirection, RunwayCentrelinePoint, Taxiway • Airspace data: Airspace • ATS and other Routes data: Route, RouteSegment, DesignatedPoint • Navaid data: Navaid, DME, Glidepath, Localizer, NDB, TACAN, VOR, • Other information data: OrganisationAuthority, Unit, Service, Service in Airspace, Significant point in Airspace • Schedule data: SpecialDate • Geometry data: GeoBorder
Purpose	The purpose of the data product is given in ICAO PANS-AIM, Chapter 5.3.3.1 which provides the use of the data. It is the responsibility of the users to determine if the data product meets their needs.

Topic category	Transportation
Keywords	AIP, Airport, Airspace, Routes, Navaid, AIXM 4.5
Spatial representation	Vector
Spatial resolution	Not applicable
Supplemental information	NIL
Restrictions	Use limitations: For aviation use only Access restrictions: Unrestricted Usage restrictions: Unrestricted Security restrictions: Unclassified
Extent	FIR EPWW
3. Data content and structure	
General scope	
Narrative description	The data model for aeronautical data follows the model defined in AIXM 4.5
Application schema	https://aixm.aero/
Available Feature catalogue	See Appendix 1
4. Reference system	
General scope	
Spatial reference system	Horizontal reference system: WGS-84 (EPSG: 4326) Vertical reference system: Kronstadt-86 (OTHER:PLKRON86NH) or Amsterdam (OTHER:PLEVRF2007NH)
Temporal reference system	Gregorian Calendar, UTC.
5. Data quality requirements	
Requirement 1	Data quality element: Accuracy Data quality measure: The accuracy requirements are specified in Annex B and are based on a 95% confidence level.
Requirement 2	Data quality element: Resolution Data quality measure: The resolution requirements are specified in Annex B.
Requirement 3	Data quality element: Assurance (Integrity) Data quality measure: The integrity requirements are specified in Appendix B. The procedures for processing aeronautical data have been setup to meet the integrity requirements.
Requirement 4	Data quality element: Traceability Data quality measure: All actions applied to the aeronautical data have been recorded. The traceability records are available on request.
Requirement 5	Data quality element: Timeliness Data quality measure: Timeliness is assured by providing the start and end time of all aeronautical data according to the temporality concept of AIXM.
Requirement 6	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.
6. Data capture	
Description	Data has been captured according capture rules Eurocontrol Specification for the Origination of Aeronautical Data.
Guide	NIL
Inclusion criteria	NIL
Data acquisition and processing	Not applicable
7. Data maintenance	
General scope	
Description	The data set will be updated every AIRAC cycle.
Frequency	Continually
User defined	Not applicable
8. Data portrayal	
General scope	
Portrayal rules	Not applicable
9. Data product delivery	
General scope	
Format name	xml files with snapshot of data
Format version	AIXM 4.5
Format specification	AIXM 4.5 Specification (source http://aixm.aero)
File structure	https://aixm.aero/page/aixm-45
Language	English
Character set	UTF-8
Units of delivery	Dataset
Transfer size	Not applicable
Medium name	Not applicable
Other delivery	Not applicable
10. Metadata	
General scope	
Specification	In AIXM 4.5 no Metadata is available except version="4.5" created="%date%" effective="%date%"
11. Additional information	
General scope	
Additional information	Not applicable

Appendix 1. PANSA AIXM 4.5 AIM Database available features and attributes

AIXM Feature Name	AIXM Complex Type	Available Attributes
Aha	AerodromeHeliportAddressType	AhpUid, codeType, noSeq, txtAddress, txtRmk
Ana	AerodromeHeliportNavaidType	AhpUid, TcnUid, VorUid, NdbUid, DmeUid
Aho	AerodromeHeliportObstacleType	ObsUid, AhpUid
Sah	AerodromeHeliportServiceType	AhpUid, SerUid
Ahp	AerodromeHeliportType	codeId, OrgUid, txtName, codeIcao, codeIata, txtDescrRefPt, geoLat, geoLong, codeDatum, valElev, valGeoidUndulation, uomDistVer, txtNameCitySer, txtDescrSite, valMagVar, dateMagVar, valMagVarChg, valRefT, uomRefT, txtNameAdmin, txtDescrAcl, txtDescrSryPwr, txtDescrWdi, valTransitionAlt, uomTransitionAlt, txtRmk
Ahu	AerodromeHeliportUsageType	AhpUid, UsageLimitation, codeUsageLimitation, UsageCondition, FlightClass, codeRule, codeMil, codeOrigin, codePurpose, txtRmk
Abd	AirspaceBorderType	AseUid
--	AirspaceBorderVertexType	codeType, geoLat, geoLong, codeDatum, GbrUid
--	AirspaceCircularVertexType	geoLatCen, geoLongCen, codeDatum, valRadius, uomRadius
--	AirspaceCentrelineVertexType	codeType, geoLat, geoLong, codeDatum, geoLatArc, geoLongArc, valRadiusArc, uomRadiusArc
Adg	AirspaceDerivedGeometryType	AseUid, AseUidBase, codeOpr, AseUidComponent
Sae	AirspaceServiceType	SerUid, UniUid, AseUid
Ase	AirspaceType	codeType, codeId, txtLocalType, txtName, codeClass, codeLocInd, codeActivity, codeMil, codeDistVerUpper, valDistVerUpper, uomDistVerUpper, codeDistVerLower, valDistVerLower, uomDistVerLower, txtRmk
Apn	ApronType	AhpUid, txtName, codeComposition, valPcnClass, codePcnPavementType, codePcnPavementSubgrade, codePcnMaxTirePressure, codePcnEvalMethod, txtRmk
--	CallsignType	FqyUni, SerUid, UniUid, txtCallSign, codeLang, txtRmk
Plb	CruisingLevelsTableType	codeId, txtDescr, codeDistVer, uomDistVer
Plc	CruisingLevelsColumnType	PlbUid, valDistVer
Dpn	DesignatedPointType	codeId, geoLat, geoLong, codeDatum, AhpUid, codeType, txtName, txtRmk
Dme	DmeType	codeId, geoLat, geoLong, OrgUid, VorUid, txtName, codeChannel, valGhostFreq, uomGhostFreq, codeDatum, valElev, valGeoidUndulation, uomDistVer, txtRmk
Dli	DmeUsageLimitationType	DmeUid, codeType, txtRmk
Rte	EnrouteRouteType	txtDesig, txtLocDesig
Rsg	RouteSegmentType	RteUid, codeType, codeLvl, valDistVerUpper, uomDistVerUpper, codeDistVerUpper, valDistVerLower, uomDistVerLower, codeDistVerLower, valWid, uomWid,

		codeRepAtcStart, codeRepAtcEnd, valTrueTrack, valMagTrack, valReversTrueTrack, valReversMagTrack, valLen, uomDist, txtRmk
Rsu	RouteSegmentUsageType	RsgUid, RteUid, codeRteAvbl, noSeq, codeDir, txtRmk,
--	RouteSegmentUsageLevelType	RsuUid, RsgUid, RteUid, PlcUid,PlbUid, valDistVerLower, uomDistVerLower, codeDistVerLower, valDistVerUpper, uomDistVerUpper, codeDistVerUpper
Fqy	FrequencyType	SerUid,UniUid, valFreqTrans, uomFreq, codeType, txtRmk
Ful	FuelType	AhpUid, codeCat, txtDescr
Gbr	GeographicalBorderType	txtName, codeType
--	GeographicalBorderVertexType	GbrUid, codeType, geoLat, geoLong, codeDatum
Ahs	GroundServiceType	AhpUid, codeType, codeCat, codeCatReference, txtDescrFac, txtRmk
Ils	IlsType	RdnUid, RwyUid, AhpUid, DmeUid, codeCat
--	IlsGlidePathType	IlsUid, valFreq, uomFreq, valSlope, valRdh, uomRdh, geoLat, geoLong, codeDatum, valElev, valGeoidUndulation, uomDistVer, txtRmk
--	IlsLocalizerType	IlsUid, valFreq, uomFreq, valMagVar, dateMagVar, geoLat, geoLong, codeDatum, valElev, valGeoidUndulation, uomDistVer, txtRmk
Ain	NavaidAngularReferenceType	DpnUidSpn, DpnUid, VorUid, valAngleBrg
Din	NavaidDistanceIndicationtType	DpnUidSpn, codeId, DpnUid, DmeUid, valDist, uomDist
--	NavaidLimitationType	DmeUid, Vor,Uid, valAngleFm, valAngleTo, valDistOuter, valDistInner, uomDistHorz, valDistVerUpper, uomDistVerUpper, codeDistVerUpper, valDistVerLower, uomDistVerLower, codeDistVerLower,
Ndb	NdbType	codeId, geoLat, geoLong, OrgUid, txtName, valFreq, uomFreq, codeClass, valMagVar, dateMagVar, codeDatum, txtRmk
Obs	ObstacleType	geoLat, geoLong, txtName, txtDescrType, codeGroup, codeLgt, txtDescrLgt, txtDescrMarking, codeDatum, valElev, valHgt, uomDistVer
Org	OrganisationAuthorityType	txtName, codeId, codeType, txtRmk
Pfy	PassengerFacilityType	AhpUid, codeType, noSeq, txtDescr, txtRmk
--	ProcedureLegType	SiaUid, AhpUid, DpnUid, Vor, Uid, txtDesig, codePhase, codeType
Srs	RouteSegmentServiceType	SerUid, UniUid, RsgUid, RteUid
Rcp	RunwayCentreLinePositionType	RwyUid, AhpUid, geoLat, geoLong, codeDatum, valElev, valGeoidUndulation, uomDistVer
Rda	RunwayDirectionApproachLightingSystemType	RdnUid, RwyUid, AhpUid, codeType, valLen, uomLen, codeIntst, codeSequencedFlash, txtDescrFlash, txtRmk
Rdd	RunwayDirectionDeclared DistanceType	RdnUid, RwyUid, AhpUid, codeType, codeDayPeriod, valDist, uomDist
Rls	RunwayDirectionLighting SystemType	RdnUid, RwyUid, AhpUid, codePsn, txtDescr, codeIntst, codeColour, txtRmk
Rdo	RunwayDirectionObstacleType	ObsUid, RdnUid, RwyUid, AhpUid, codeTypeOps, uomDistHorz
Rdn	RunwayDirectionType	RwyUid, AhpUid, geoLat, geoLong, valTrueBrg, valMagBrg, valElevTdz, uomElevTdz, codeTypeVasis, codePsnVasis, valSlopeAngleGpVasis, valMeht, uomMeht, txtRmk

Rpa	RunwayProtectionAreaType	RdnUid, RwyUid, AhpUid, codeType, valWid, valLen, uomDim, txtRmk
Rwy	RunwayType	AhpUid, txtDesig, valLen, valWid, uomDimRwy, codeComposition, valPcnClass, codePcnPavementType, codePcnPavementSubgrade, codePcnMaxTirePressure, codePcnEvalMethod, txtPcnNote, valAuwWeight, uomAuwWeight, valLenStrip, valWidStrip, uomDimStrip, txtRmk
Ser	ServiceType	UniUid, codeType, noSeq, codeSource, geoLat, geoLong, codeDatum, txtRmk
Sid	SidType	AhpUid, txtDesig, codeCatAcft, codeTransId, codeTypeRte, txtRmk
Sia	StarType	AhpUid, txtDesig, codeCatAcft, codeTransId, codeTypeRte, txtRmk
Spa	SignificantPointAirspaceType	DpnUidSpn, AseUid, codeType, txtRmk
Spd	SpecialDateType	OrgUid, codeType, dateDay, dateYear, txtName
Swy	StopwayType	RdnUid, RwyUid, AhpUid, valLen, valWid, uomDim, codeComposition, valPcnClass, codePcnPavementType, codePcnPavementSubgrade, codePcnMaxTirePressure, codePcnEvalMethod, txtPcnNote
Tcn	TacanType	codeId, geoLat, geoLong, OrgUid, txtName, codeChannel, valMagVar, dateMagVar, codeDatum, valElev, uomDistVer, txtRmk
Tly	TaxiwayLightingSystemType	TwyUid, AhpUid, codePsn, txtDescr, codeIntst, codeColour, txtRmk
Twy	TaxiwayType	AhpUid, txtDesig, codeType, valWid, uomWid, codeComposition, valPcnClass, codePcnPavementType, codePcnPavementSubgrade, codePcnMaxTirePressure, codePcnEvalMethod, txtRmk
--	TimetableType	AhpUid, codeWorkHr, txtRmkWorkHr
--	TimetableNavaidType	DmeUid, NdbUid, IlsUid, TcnUid, VorUid, codeWorkHr, txtRmkWorkHr
--	TimesheetType	AhpUid, AhsUid, AseUid, FqyUid, RsuUid, SerUid, codeTimeRef, dateValidWef, dateValidTil, codeDay, codeDayTil, timeWef, codeEventWef, timeRelEventWef, codeCombWef, timeTil, codeEventTil, timeRelEventTil, codeCombTil
Uni	UnitType	OrgUid, txtName, AhpUid, codeType, codeClass, txtRmk
Vor	VorType	codeId, geoLat, geoLong, OrgUid, txtName, codeType, valFreq, uomFreq, codeTypeNorth, valMagVar, dateMagVar, codeDatum, valElev, uomDistVer
Vli	VorUsageLimitationType	VorUid, codeId, geoLat, geoLong, codeType, txtRmk, UsageLimit, valAngleFm, valAngleTo, valDistOuter, uomDistHorz, valDistVerUpper, uomDistVerUpper, codeDistVerUpper