Data Catalogue

Rudolf Schneeberger / Andreea Perca Interregional EUR/MID Workshop on PANS AIM Paris, 10 – 12 July 2018





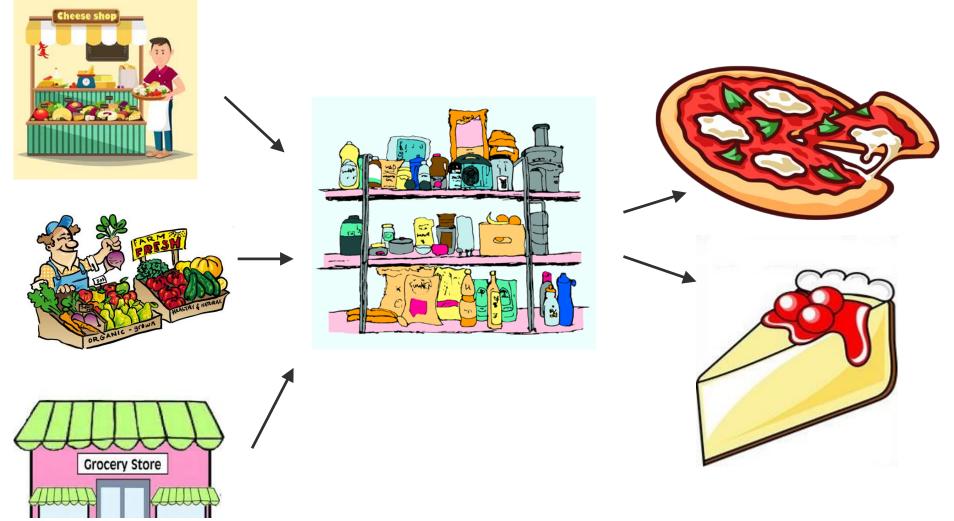


- □ What is the Data Catalogue?
- Putting together the Data Catalogue
- Elements of the Data Catalogue
- Use of the Data Catalogue
 - Data Originator Index
 - Formal Arrangements
 - Content of Products
 - National Extensions

Summary



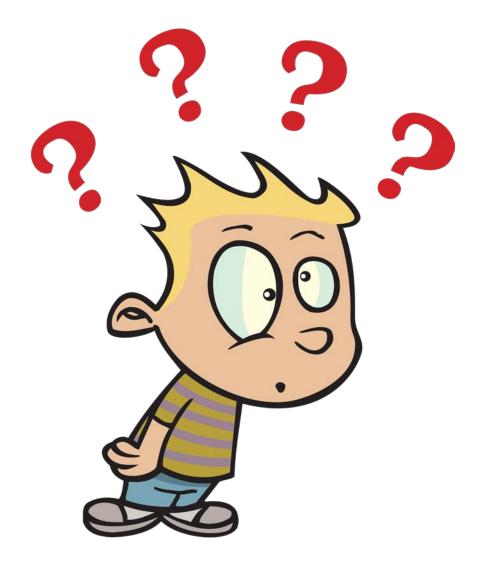
Do you want to go for a Pizza tonight?





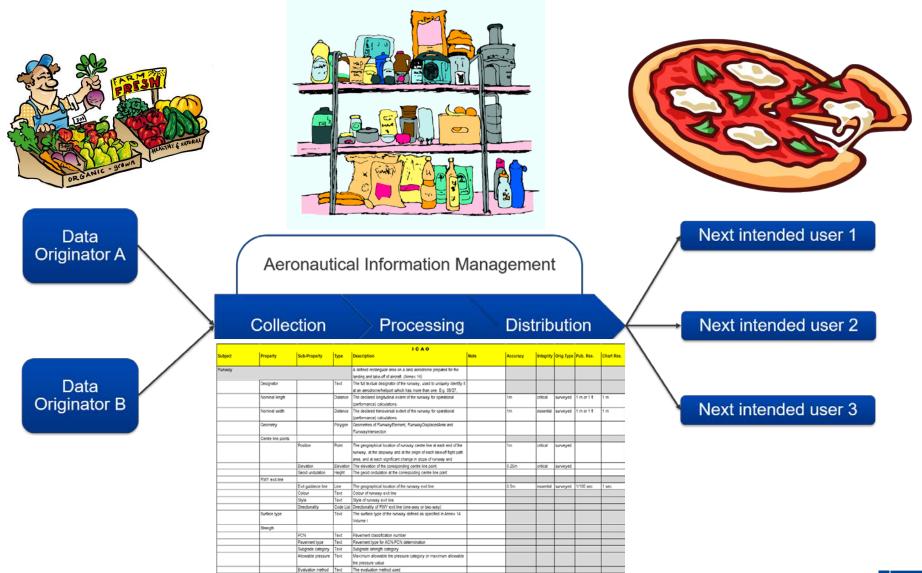
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What does Pizza have to do with AIM?





A whole lot !





Data Catalogue – The Description of the AIM Data "pantry"

				ICAO						
Subject	Property	Sub-Property	Туре	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res.
Runway				A defined rectangular area on a land aerodrome prepared for the						
			_	landing and take-off of aircraft. (Annex 14)						
	Designator		Text	The full textual designator of the runway, used to uniquely identify it						
				at an aerodrome/heliport which has more than one. E.g. 09/27,						
	Nominal length		Distance	The declared longitudinal extent of the runway for operational		1m	critical	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Nominal width		Distance	The declared transversal extent of the runway for operational		1m	essential	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and						
				RunwayIntersection						
	Centre line points									
		Position	Point	The geographical location of runway centre line at each end of the		1m	critical	surveyed		
				runway, at the stopway and at the origin of each take-off flight path						
				area, and at each significant change in slope of runway and						
		Elevation	Elevation	The elevation of the coresponding centre line point.		0.25m	critical	surveyed		
		Geoid undulation	Height	The geoid ondulation at the correspoding centre line point						
	RWY exit line									
		Exit guidance line	Line	The geographical location of the runway exit line		0.5m	essential	surveyed	1/100 sec	1 sec
		Colour	Text	Colour of runway exit line						
		Style	Text	Style of runway exit line						
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)						
	Surface type		Text	The surface type of the runway defined as specified in Annex 14						
				Volume I						
	Strength									
		PCN	Text	Pavement classification number						
		Pavement type	Text	Pavement type for ACN-PCN determination						
		Subgrade category	Text	Subgrade strength category						
		Allowable pressure	Text	Maximum allowable fire pressure category or maximum allowable						
		-		tire pressure value						
		Evaluation method	Text	The evaluation method used						



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The Aeronautical Data Catalogue presents the scope of data and information that can be collected and maintained by an AIS organization.

- □ The Aeronautical Data Catalogue
 - symbolizes the shift from product-centric to data centric environments,
 - is considered the point of reference for all provisions related to aeronautical data origination and publication and
 - represents the common language for data originators and AIS organizations.



PANS - AIM



This first edition of Dec 10066 was approved by the Eresident of the Council on behall of the Council on April 2015 and become applicable on 10 November 2016

INTERNATIONAL CIVIL AVIATION ORGANIZATION.

Appendix 1

×ÌÌ	PANS-AIM Appendix 1 Table A1.1 Aerodrome.xlsx
×	PANS-AIM Appendix 1 Table A1.2 Airspace.xlsx
×	PANS-AIM Appendix 1 Table A1.3 ATS_Routes.xlsx
×	PANS-AIM Appendix 1 Table A1.4 IFP.xlsx
×	PANS-AIM Appendix 1 Table A1.5 Navaid.xlsx
×Ì	PANS-AIM Appendix 1 Table A1.6 Obstacles.xlsx
×	PANS-AIM Appendix 1 Table A1.7 GeographicInformation.xlsx
×	PANS-AIM Appendix 1 Table A1.8 Terrain.xlsx
×	PANS-AIM Appendix 1 Table A1.9 Data type.xlsx

PANS-AIM -- Appendix 1 -- Table A1.10 Other information.xlsx



Content

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Putting together the Data Catalogue

Interregional EUR/MID Workshop on PANS AIM Paris, France, 10 - 12 July 2018

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July 3, 2018





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Organise and document the pantry

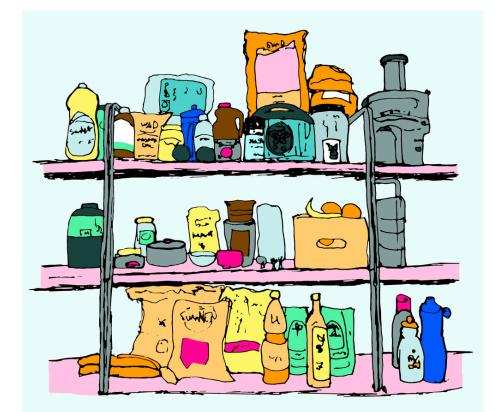


What supply is on each shelf?
 What type of cheese is in stock?

What quality of fruit is available?



Food supply in your pantry



- **Flour**
- □ Rice
- Sugar
- Tomato
- □ Cheese
 - Mozarella
 - Parmesan
 - Emmentaler
 - Appenzeller
- Oil
- □ Spices
 - Basil
 - Majoram



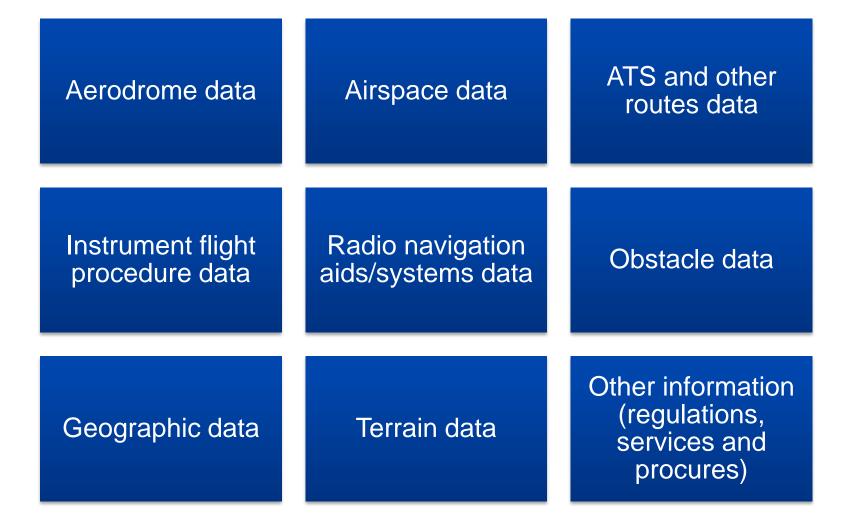
Data collected by AIS

		ICAO									
Subject	Property	Sub-Property	Туре	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Re:	
Runway				A defined rectangular area on a land aerodrome prepared for the							
				landing and take-off of aircraft. (Annex 14)							
	Designator		Text	The full textual designator of the runway, used to uniquely identify it							
				at an aerodrome/heliport which has more than one. E.g. 09/27,							
	Nominal length		Distance	The declared longitudinal extent of the runway for operational		1m	critical	surveyed	1 m or 1 ft	1 m	
				(performance) calculations.							
	Nominal width		Distance	The declared transversal extent of the runway for operational		1m	essential	surveyed	1 m or 1 ft	1 m	
				(performance) calculations.							
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and							
				RunwayIntersection							
	Centre line points										
		Position	Point	The geographical location of runway centre line at each end of the		1m	critical	surveyed			
				runway, at the stopway and at the origin of each take-off fight path							
				area, and at each significant change in slope of runway and							
		Elevation	Elevation	The elevation of the coresponding centre line point.		0.25m	critical	surveyed			
		Geoid undulation	Height	The geoid ondulation at the correspoding centre line point							
	RWY exit line										
		Exit guidance line	Line	The geographical location of the runway exit line		0.5m	essential	surveyed	1/100 sec	1 sec	
		Colour	Text	Colour of runway exit line							
		Style	Text	Style of runway exit line							
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)							
	Surface type		Text	The surface type of the runway defined as specified in Annex 14							
				Volume I							
	Strength										
		PCN	Text	Pavement classification number							
		Pavement type	Text	Pavement type for ACN-PCN determination							
		Subgrade category	Text	Subgrade strength category							
		Allowable pressure	Text	Maximum allowable tire pressure category or maximum allowable							
				tire pressure value							
		Evaluation method	Text	The evaluation method used							

□ Aerodrome / Heliport

- Name
- Designator
- Served City
- Runway
 - Designator
 - Nominal length
 - Nominal width
 - Strength
- Runway direction
 - Designator
 - True bearing
 - Threshold







Subject	Property	Sub-Property	The classification of an
Runway			element as Subject, Property
	Designator		or Sub-Property does not
	Nominal length		impose a certain data model
	Nominal width		Tabs provide easy access to
	Geometry		
	Centre line points		the different subjects
		Position	
		Elevation	⊥ ↓
		Geoid undulation	
Airport-H	eliport Runway	TLOF-FATO A	pron-Taxiway Communication Facilities



0

Subject	Property	Sub-Property	Туре			
Runway			.		Table A1-9. Data types	
, turnay				Туре	Description	Data elements
	Designator		Text	A pair of coordinates (latitude at		Latitude
	Nominal length		Distance		A pair of coordinates (latitude and longitude) referenced to the mathematical reference ellipsoid which define the	Longitude
	Nominal width		Distance	Point		Horizontal reference
	Geometry		Polygon		position of the point on the surface of the	system
	Centre line points				Earth.	Horizontal accuracy achieved
		Position	Point	Line	Sequence of Points defining a linear object	Sequence of Points
				Polygon	Sequence of Points forming the boundary of the polygon. The first and last Point are identical.	Closed sequence of Points
		Elevation	Elevation			
		Geoid undulation	Height			



Property	Sub-Property	Туре	Description
			A defined rectangular area on a land aerodrome prepared for the landing and take-off of aircraft. (Annex 14)
Designator		Text	The full textual designator of the runway, used to uniquely identify it at an aerodrome/heliport. E.g. 09/27, 02R/20L, RWY 1.
Nominal length		Distance	The declared longitudinal extent of the runway for operational (performance) calculations.
Nominal width		Distance	The declared transversal extent of the runway for operational
Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and
Centre line points			
	Position	Point	The geographical location of runway centre line at each end of the runway, at the stopway and at the origin of each take-off flight path area, and at each significant change in slope of runway and stopway
	Elevation	Elevation	The elevation of the corresponding centre line point.
	Geoid undulation	Height	The geoid undulation at the correspoding centre line point
1			



Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res.
1 m	critical	surveyed	1 m or 1 ft	1 m
1 m	essential	surveyed	1 m or 1 ft	1 m
1 m	critical	surveyed		
0.25 m	critical	surveyed		

 All DQR moved from Annexes 4, 11 14 and 15 to the Data Catalogue
 "Type" is now called "Origination Type"

- □ Shaded fields:
 - Text
 - Code lists



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Where do we shop our food supplies?

Bakery:

- Bread
- Cookies

Butcher:

- Ham
- Sausage

Grocery store around the corner:

- Flour
- Sugar
- Oil



Table 4	A1-10 Information about national and local regulation, services and procedures	Organisation responsible for Origination
1	National regulations and requirements	
1.3.	Customs regulation and requirements	Ministry of Einspaa
1.3.1.	Name, contact information and description of the customs authorities.	Ministry of Finance
1.3.2	Customs regulations and requirements concerning entry, transit and departure passengers and crew.	
1.3.3	Customs regulations and requirements concerning entry, transit and departure of cargo and other articles.	
1.4.	Immigration regulation and requirements	Ministry of Justice
1.4.1.	Name, contact information and description of the immigration authorities.	Winnstry of Justice
1.4.2	Immigration regulations and requirements concerning entry, transit and	
1.4.2	departure passengers and crew.	
1.5.	Health regulation and requirements	Ministry of the Interior,
1.5.1.	Name, contact information and description of the health authorities.	Public Health Department
1.5.2	Regulations and requirements concerning public health measures applied to	Tublic meanin Department
1.5.2	aircraft on entry, transit and departure on international flights.	
1.5.3	Public health regulations and requirements concerning entry, transit and	
1.5.5	departure passengers and crew.	
1.6.	Agricultural quarantine regulation and requirements	Ministry of Agriculture
1.6.1.	Name, contact information and description of the authorities concerned	
1.0.1.	with agricultural quarantine.	
1.6.2	Agricultural quarantine regulations and requirements concerning entry, transit and departure of cargo.	



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Supplies to be bought from the grocery store:







Data to be originated by the airport is defined in Formal Arrangements:

				ICAO						
Subject	Property	Sub-Property	Туре	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res.
Runway	I			A defined rectangular area on a land aerodrome prepared for the						
				landing and take-off of aircraft. (Annex 14)						
	Designator		Text	The full textual designator of the runway, used to uniquely identify it						
				at an aerodrome/heliport which has more than one. E.g. 09/27,						
	Nominal length		Distance	The declared longitudinal extent of the runway for operational		1m	critical	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Nominal width		Distance	The declared transversal extent of the runway for operational		1m	essential	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and						
				RunwayIntersection						
	Centre line points									
		Position	Point	The geographical location of runway centre line at each end of the		1m	critical	surveyed		
				runway, at the stopway and at the origin of each take-off flight path						
				area, and at each significant change in slope of runway and						
		Elevation	Elevation	The elevation of the coresponding centre line point.		0.25m	critical	surveyed		
		Geoid undulation	Height	The geoid ondulation at the correspoding centre line point						
	RWY exit line									
		Exit guidance line	Line	The geographical location of the runway exit line		0.5m	essential	surveyed	1/100 sec	1 sec
		Colour	Text	Colour of runway exit line						
		Style	Text	Style of runway exit line						
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)						
	Surface type		Text	The surface type of the runway defined as specified in Annex 14 Volume I	\checkmark					
	Strength									
		PCN	Text	Pavement classification number						
		Pavement type	Text	Pavement type for ACN-PCN determination						
		Subgrade category	Text	Subgrade strength category						
		Allowable pressure	Text	Maximum allowable fire pressure category or maximum allowable						
				tire pressure value						
		Evaluation method	Text	The evaluation method used						



Interregional EUR/MID Workshop on PANS AIM

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Expand Code Lists

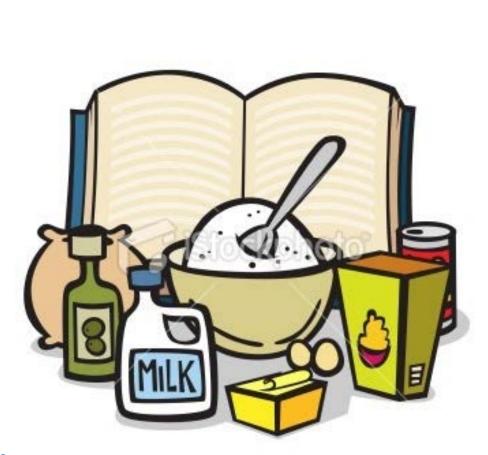
PANS-AIM: Valid codes for the code lists should be defined in the formal arrangements.

Subject	Property	Sub-Property	Туре	
Aerodrome / Helip	ort			
			-	("INTL","NTL","INTL-NTL
	Designator			
		ICAO location indicato	r Text	
		Designator IATA	Text	
		Other	Text	("IFR","VFR","IFR-VFR",
	Name		Text	"NIL")
	Served city		Text	
	Type of traffic permit			
		International_national	Code list	("S","NS","S-NS")
		IFR_VFR	Code list 🥒	
		Sched_nonsched	Code list 🥌	
		Civil_military	Code list	("CIV","MIL","GA",
		Restricted_use	Text	"CIVIL-MIL","CIV-GA",
		 	-	"MIL-GA","CIV-MIL-GA")

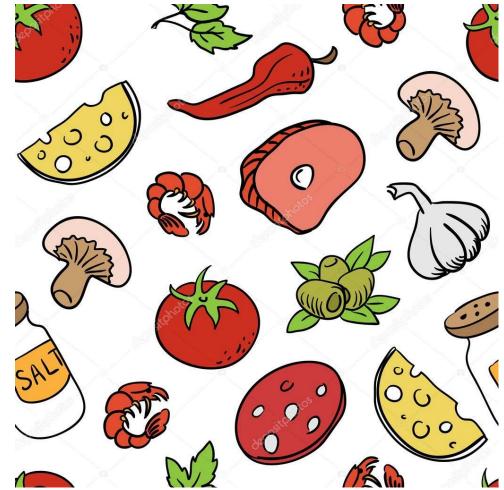


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Pizza Recipe



The ingredients for a Pizza are:





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AIP Data Set "Recipe"

The AIP data set shall include data about the following subjects, with the properties ...

				ICAO						
Subject	Property	Sub-Property	Туре	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res.
Runway				A defined rectangular area on a land aerodrome prepared for the						
				landing and take-off of aircraft. (Annex 14)						
	Designator		Text	The full textual designator of the runway, used to uniquely identify it						
	-			at an aerodrome/heliport which has more than one. E.g. 09/27,						
	Nominal length		Distance	The declared longitudinal extent of the runway for operational		1m	critical	surveyed	1 m or 1 ft	1 m
	-			(performance) calculations.						
	Nominal width		Distance	The declared transversal extent of the runway for operational		1m	essential	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and						
				RunwayIntersection						
	Centre line points									
		Position	Point	The geographical location of runway centre line at each end of the		1m	critical	surveyed		
				runway, at the stopway and at the origin of each take-off flight path						
				area, and at each significant change in slope of runway and						
		Elevation	Elevation	The elevation of the coresponding centre line point.		0.25m	critical	surveyed		
		Geoid undulation	Height	The geoid ondulation at the correspoding centre line point						
	RWY exit line									
		Exit guidance line	Line	The geographical location of the runway exit line		0.5m	essential	surveyed	1/100 sec	1 sec
		Colour	Text	Colour of runway exit line						
		Style	Text	Style of runway exit line						
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)						
	Surface type		Text	The surface type of the runway defined as specified in Annex 14 Volume I						
	Strength									
		PCN	Text	Pavement classification number						
		Pavement type	Text	Pavement type for ACN-PCN determination						
		Subgrade category	Text	Subgrade strength category						
		Allowable pressure	Text	Maximum allowable tire pressure category or maximum allowable						
				tire pressure value						
		Evaluation method	Text	The evaluation method used						

Aerodrome/Heliport

- ICAO location indicator,
- name,

f)

- designator IATA,
- served city,
- certified ICAO,
- certification date,
- certification expiration date,
- control type,
- field elevation,
- reference temperature
- magnetic variation,
- reference point;



Example: Additional properties added for obstacles

				1			
Marking		625	Text	Type of marking of obstacle	Annex 15 App 8 Table A8-4 Annex 14 2.5.5		
Material		626	Text	Predominant surface material of the obstacle	AMDB		
Operator / Owner		995	Text	Name and Contact information of obstacle operator or owner	AIS-AIM SG 12		
Designation	Registration number	1061		Registration number of obstacle in Swiss Obstacle Database	AIP, VFRM and WEGOM		
	NOTAM Nr	1062	Text	Nr of NOTAM the obstacle has first been published with	AIP, VFRM and WEGOM		
	Reference	1063	Text	Reference to aerodrome	AIP, VFRM and WEGOM		
	Runway / Area	1064	Text	Runway or AOC affected by obstacle	AIP, VFRM and WEGOM		
Coord Swissgrid		1060		Horizontal position of obstacle in Swiss Grid coordniate system (CH1903/LV03, EPSG 21781)	VFRM		
Position Description		1087		Description of the position of the obstacle relative to a map point or ARP	VFRM		



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National Data Quality Requirements for IFR and VFR

Property	Sub-Property	ID	Туре	Description	Note	Reference	Accuracy	Integrity	Origin type	Pub. Resolution	Chart Resolution	ADQ HL-	IFR Accuracy	IFR Integrity	YFR Accuracy	YFR Integrity	National Reference
Frequency			Value	Frequency of the station providing the service		AMDB								1			
Boundary			Polygon	Area boundary of the frequency area		AMDB											
Identifier		47	Text	The indentifier of the hot spot		AMDB											
Annotation		48	Text	Additional information about the hot spot		Annex 4 13.6 h)											
Geometry		43	Polygon	The geographical area of the hot spot		Annex 4 13.6 h) AMDB							5 m	routine	5 m	routine	VFR AD INFO chart
Designator		67	Text	The full textual designator of the runway, used to uniquely identify it at an aerodrome/heliport. E.g. 09/27, 02R/20L, RWY 1.		Annex 15 App 1 AD 2.12 1) Annex 14 I 2.5.1 a)											VFR AD INFO
Nominal length		68	Distance	The declared longitudinal extent of the runway for operational (performance) calculations.		Annex 15 App 1 AD 2.12 3) Annex 14 I 2.5.1 a)	1 m	critical	surveyed	1 m or 1 ft	1m	LD005	1 m	critical	1m	routine	VFR AD INFO
Nominal width		69	Distance	The declared transversal extent of the runway for operational (performance) calculations.		Annex 15 App 1 AD 2.12 3) Annex 14 I 2.5.1 a)	1 m	essential	surveyed	1 m or 1 ft	1m	LD007	1 m	essential	1m	routine	VFR AD INFO
Geometry		70	Polygon	Geometries of RunwayElement, RunwayDisplacedArea and RunwayIntersection		AMDB											
Centre line points	Position	108	Point	The geographical location of runway centre line at each end of the runway, at the stopway and at the origin of each take-off flight path area, and at each significant change in slope of runway and stopway	Definition from Annex 4 3.8.4.2	Annex 14 App 5 A5-1 Annex 4 Ch 3 and 4, 5 AMDB	1 m	critical	surveyed			LL020	1 m	critical			
	Elevation	109	Elevation	The elevation of the corresponding centre line point. (See Annex 14 12.3.2: for non-precision approaches any significant high and low intermediate points along the runway shall be measured to the accuracy of one-half metre or foot)		Annex 412.3.2 Annex 141 App 5 A5-2 Annex 4 Ch 3 and 4, 5 AMDB	0.25 m	critical	surveyed			EH013	0.25 m	critical			
	Geoid undulation	110	Height	The geoid undulation at the correspoding centre line point		AMDB											
BWY exit line	Exit guidance line	111	Line	The geographical location of the runway exit line		Annex 14 AMDB	0.5 m	essential	surveyed	1/100 sec	1 sec	LL025	0.5 m	essential			
	Colour		Text	Colour of runway exit line		AMDB											
	Style		Text	Style of runway exit line		AMDB											
	Directionality	114		Directionality of RWY exit line (one-way or two-way)		AMDB											
Surface type		73	Text	The surface type of the runway defined as specified in Annex 14 Volume I		Annex 15 App 1 AD 2.12 4) Annex 14 I 2.5.1 a)											VFR AD INFO
Strength	PCN	115	Text	Pavement classification number		Annex 14 2.6.2.a)											VFR AD
	Pavement type	116	Text	Pavement type for aircraft classification number — pavement classification number (ACN-PCN) determination		Annex 14 2.6.2 b)											VFR AD INFO
	Subgrade category		Text	Subgrade strength category		Annex 14 2.6.2 c)											VFR AD
	Allowable pressure	118	Text	Maximum allowable tire pressure category or maximum allowable tire pressure value		Annex 14 2.6.2 c)											VFR AD INFO
	Evaluation method		Text	The evaluation method used		Annex 14 2.6.2 c)											VFR AD
	MPW		Value	Runway strength in MPW (maximum permissible weight) for asphalt and concrete runways		VFRM											VFR AD INFO
	MPA		Value	Runway strength in MPA (Max. tire pressure) for grass runways		VERM											VFR AD INFO
Strip	Length		Distance	The longitudinal extent of the runway strip.		Annex 15 App 1 AD 2.12 10) Annex 14 I 2.5.1 b)							1 m	routine			
	Width	404	Distance	The transversal extent of the runway strip		Anney 15 April AD							1	routine			



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The Aeronautical Data Catalogue in PANS-AIM:

- \checkmark provides a description of aeronautical data
- \checkmark defines the data quality requirements,
- consolidates the aeronautical data to be collected and maintained by an AIS,
- ✓ facilitates formal arrangements,
- ✓ enables national and regional extensions,
- ➢ is not just an ICAO SARP, but a tool to ease your job.



Thank you for your attention!

Questions & Comments



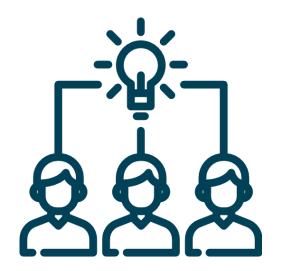
Putting together the Data Catalogue

Interregional EUR/MID Workshop on PANS AIM Paris, France, 10 - 12 July 2018

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Content



The intent 2 The process 3 The challenges 4 The team 5 The result

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The intent

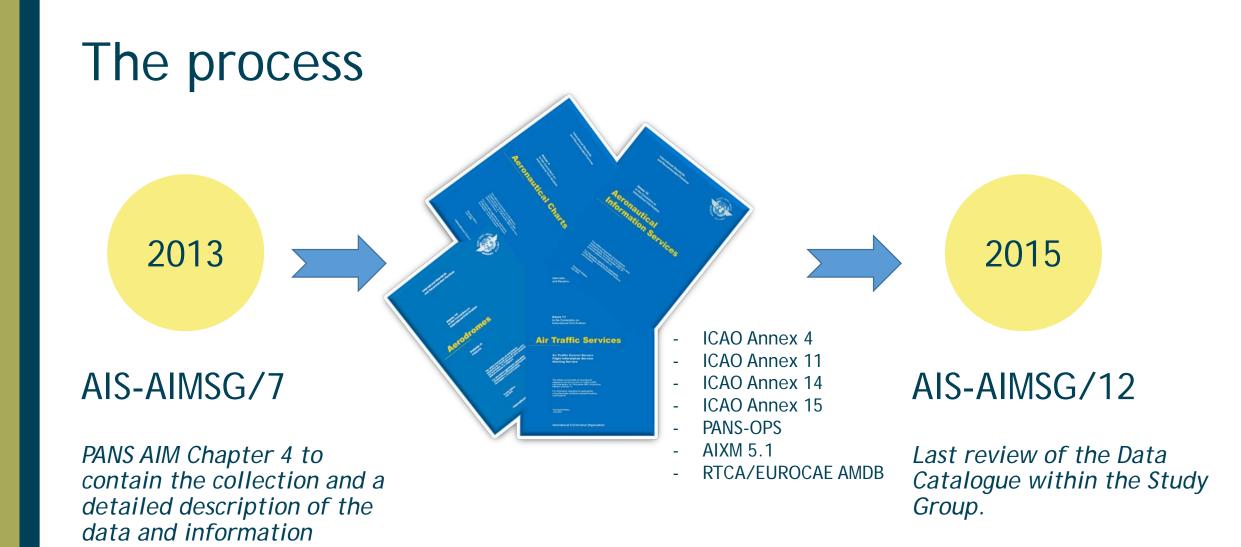
Aeronautical Information Services to Aeronautical Information Management Study Group

AIS-AIMSG

Data Centricity



Product Centricity



ASBU for FUTURE requirements.

The challenges

- Time was short
- Multiple sources of data had to be managed
- Data elements to be managed were numerous
- Knowledge from multiple domains was needed



Source: https://www.tatacapital.com



The team

- AIS-AIMSG
- Support through organizations / companies of AIS-AIMSG Members
- IFPP/IWG
 Instrument
 Flight Procedure Panel /
 Integration Working Group



http://www.tax-hell.co.uk/help-me-to-help-you/



The result

				ICAO						
Subject	Property	Sub-Property	Туре	Description	Note	Accuracy	Integrity	Orig Type	Pub. Res.	Chart Res
Runway A				A defined rectangular area on a land aerodrome prepared for the						
				landing and take-off of aircraft. (Annex 14)						
	Designator		Text	The full textual designator of the runway, used to uniquely identify it						
				at an aerodrome/heliport which has more than one. E.g. 09/27,						
	Nominal length		Distance	The declared longitudinal extent of the runway for operational		1m	critical	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Nominal width		Distance	The declared transversal extent of the runway for operational		1m	essential	surveyed	1 m or 1 ft	1 m
				(performance) calculations.						
	Geometry		Polygon	Geometries of RunwayElement, RunwayDisplacedArea and						
				RunwayIntersection						
	Centre line points									
		Position	Point	The geographical location of runway centre line at each end of the		1m	critical	surveyed		
				runway, at the stopway and at the origin of each take-off flight path						
				area, and at each significant change in slope of runway and						
		Elevation	Elevation	The elevation of the coresponding centre line point.		0.25m	critical	surveyed		
		Geoid undulation	Height	The geoid ondulation at the correspoding centre line point						
	RWY exit line									
		Exit guidance line	Line	The geographical location of the runway exit line		0.5m	essential	surveyed	1/100 sec	1 sec
		Colour	Text	Colour of runway exit line						
		Style	Text	Style of runway exit line						
		Directionality	Code List	Directionality of RWY exit line (one-way or two-way)						
	Surface type		Text	The surface type of the runway defined as specified in Annex 14						
				Volume I						
	Strength									
		PCN	Text	Pavement classification number						
		Pavement type	Text	Pavement type for ACN-PCN determination						
		Subgrade category	Text	Subgrade strength category						
		Allowable pressure	Text	Maximum allowable fire pressure category or maximum allowable						
				tire pressure value						
		Evaluation method	Text	The evaluation method used						

PANS-AIM Extract:

The Data Catalogue symbolizes the shift from product-centric to data centric environments, is considered the point of reference for all provisions related to aeronautical data origination and publication and represents the common language for data originators and AIS organizations.





In other words:

The Data Catalogue is not just an ICAO SARPs, but a <u>tool</u> to ease your job.



10.11.2014 DC first time shown in ANC

