# Datasheet: smartAIP Comprehensive AIP document management

The Frequentis Aeronautical Information Publisher (smartAIP) is an application for the creation and editing of aeronautical publications such as AIPs, eAIPs, supplements, amendments and circulars. The automated publication generation process was developed in conjunction with AIM operators and international aviation authorities to ensure that the requirements of these organisations are addressed. The data-centric approach utilises information from the AIXM 5.1 data repository to automatically populate publications with the latest aeronautical information.

In order to further facilitate the management of this information, the smartWebClient is a browser-based application to manage documents, publications and aeronautical information. Workflows are an integrated part of the functionality to allow tracing every step of these processes.

# Key features

#### smartAIP

- Supports creation of bilingual AIPs
- Automated Version Control
- WYSIWYG text editor
- Automated highlighting of document changes in accordance to ICAO Annex 15

#### smartWebClient

- Workflows for updating text and charts including verification and publication steps
- Manages text and charts from a single application
- Automatically generated tables in data-driven chart layouts
- Handling of multiple AIP publication types ICAO Annex 15 or custom
- Temporality including version control
- Continuous data consistency check and alerts for users if updates are needed
- Simple UI for updating AIP releases in published AIP management systems (PAMS)



### smartAIP and smartWebClient at a glance

- ICAO Doc 8126 and the EUROCONTROL eAIP specifications
- Powerful table generation tools allow direct access to AIXM 5.1 database
- Single source of layout templates ensure unified appearance in the entire publication



AIP ENR 4.4.1 CZECH REPUBLIC 26 MAY 17								(←) → C' ŵ	× + ⑦ 1031.6187/imartAlM								
		ENR 4.4 KÓI	DOVÉ NÁZVY O	ZNAČENÍ VÝ	ZNAČNÝCH	BODÚ											9
ENR 4.4 NAME-CODE DESIGNATORS FOR SIGNIFICANT POINTS							Er Logout         admin@SQLSimple: MIGRATION@10.31.6.177/mssql2014         Change Password           Aeronautical Data         Requests         Documents						Distributions Data Supervisors				
oznámka:	Souřadnice bo	dů psaných kurzív	ou a označených	Note: Coor	dinates of poir	ts written in italic:	s and marked by		Data Superv	lsors	s Summary						
ED, *EP, *LO a *LZ jsou do ÀIP ČR převzaty z European ÅIS Atabase (EAD). Body jsou publikovány tak, jak jsou v EAD loženy. V EAD jsou udržovány tômito státy: ED - Německo EP - Polsko				'ED, 'EP, 'LO and 'L'2 are for AIP GR taken from European AIS Database (EAD). The points are published as they are stored in the EAD. In the EAD the points are maintained by the following states: 'ED - Germany 'EP - Poland 'LO - Austria 'L2 - Slovakia				INITIAL 1/16 - Closed	State		Name		Progress	Critical Messages	Optional Messages	Start Time	End
								Tree Time Slice : 2016/09/15 CREfresh Data Supervisors	✓ Valid	8	Required Attributes	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
								Required Attributes     Non-validated Objects     Non-validated Element	🖌 Valid	*	Non-validated Objects	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
LO - Rakousko LZ - Slovensko									✓ Valid	*	Unpublished Entries	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
Kódové		ATS trať nebo jiná	Zoměřoní	Kódové		ATS trať nebo jiná	Zaměření	Embedded Objects	🗸 Valid	8	Non-validated Element	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
označeni lame-code	Souřadnice Coordinates	traf ATS route or other	Definition	označení Name-code	Souřadnice Coordinates	trať ATS route or other	Definition	Non-validated Element  Changed Layouts	Critical messages	1	Embedded Objects	٠	Successfully finished	150	4	2018/01/11 10:49 AM	201 AN
lesignator	2	route 3	4	designator	2	route 3	4	Changed Layers	🗸 Valid	10	Nested Structures	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AM
	2	3	ERROR: Angle		6	v	ERROR: Angle	Non-valdated Element Hand Amendment Objects without Chart	🖌 Valid	1	Non-validated Element	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
ABRAX	49.69770278 15.89488333	M748, T135	type must be RDL, MAG or TRUE-88 VLM	ANEXO	49.86265 15.06662778	-	type must be RDL, MAG or TRUE-357 VLM	Objects without Geometry	Critical messages		Changed Layouts	Þ	Successfully finished	1	0	2018/01/11 10:49 AM	201 AM
			32.26 DME VLM				9.5 DME VLM ERROR: Angle		✓ Valid		Changed Layers	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
	48.99652739	Z205, Z37	ERROR: Angle type must be RDL, MAG or TRUE-269 OKF 51.62 DME OKF	ARMOV	50.18076667 13.2807		type must be RDL, MAG or		🗸 Valid		Changed Labels	٠	Successfully finished	0	0	2018/01/11 10:49 AM	201 AN
	14.24008878						TRUE-75 OKG		O Unknown		Non-validated Element	۲	Never Executed	0	0		
			ERROR: Angle				ERROR: Angle		✓ Valid		Hand Amendment	۲	Successfully finished	0	0	2018/01/11 10:49 AM	201 AM
ADADO	50.20948056 17.74793056	M992	type must be RDL, MAG or	ARNUM	50.20958611 17.10994444	M992	type must be RDL, MAG or		✓ Valid		Objects without Chart	٠	Successfully finished	0	0	2018/01/11 10:50 AM	201 AM
	17.74793056	1	TRUE-29 BNO	1	17.10354444	1	TRUE-11 BNO		1	-	Objects without		Successfully			2018/01/11 10:50	20

## **Benefits**

smartAIP and its database interface smartWebClient are sophisticated tools for AIP document management. This is accomplished by using the AIXM 5.1 repository to source the required information to create chapters and charts. By utilising a single source, the potential for data errors is eliminated. The smartWebClient provides an easy way to manage the entire publication structure including version control. The smartAIP can be complemented by smartCharting to modernise and largely automate the whole AIP production process including aeronautical charts.

# **Technical specifications**

Industry compliance	AIXM 5.1, ICAO Annex 15, ICAO Doc 8126, EUROCONTROL eAIP specifications, ADQ
Published formats	AIPs and eAIPs in PDF and HTML
Data document types	ICAO Annex 15 compliant AIPs, AIP amendments, AIP supplements and circulars

FREQUENTIS AG

Innovationsstraße 1 1100 Vienna, Austria Tel: +43-1-811 50-0 www.frequentis.com The information contained in this publication is for general information purposes only. The technical specifications and requirements are correct at the time of publication. Frequentis accepts no liability for any error or omission. Typing and printing errors reserved. The information in this publication may not be used without the express written permission of the copyright holder.