

ICAO AIM Implementation Strategy Industry Perspective on AIRAC Cairo, February 2018

BOEING

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Industry Challenge – Volume & Timeliness of State Source Changes

Statement of Issue

 State publication of major and normal changes – either late or in a heavy volume – can overload industry capability to process and provide users with current procedures and aeronautical information

Stakeholders

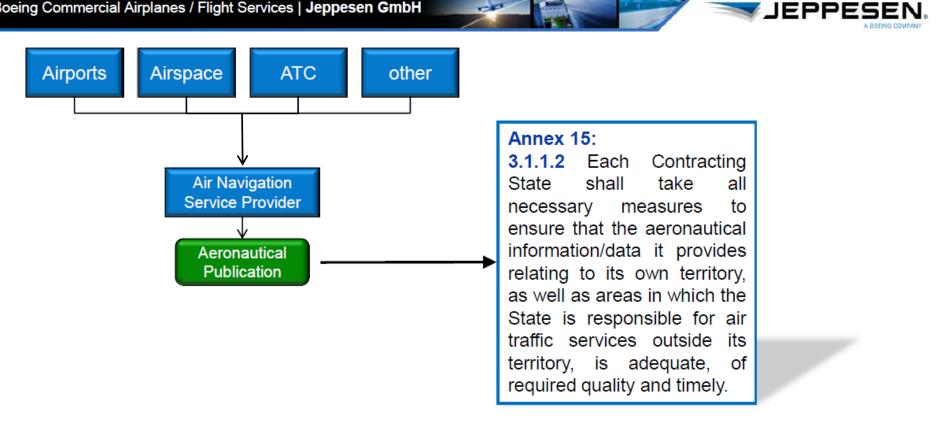
- State AIM and ATM, Industry, Civil/Military Users

Potential Solutions

 AIRAC adherence and good communication and coordination

Standardizing Aeronautical Information

Boeing Commercial Airplanes / Flight Services | Jeppesen GmbH



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Standardizing Aeronautical Information Boeing Commercial Airplanes / Flight Services | Jeppesen GmbH t JEPPESEN. A BOFING COMPAN AIP A.R.E دارسان جرم ع AD 2 HECA -47 ATC Airports other Airspace APP 119.05 119.97 TWR 118.1 PRE-FUGHT 120.1 D-ATIS 122.6 GND 120.4 EMERG 121.5 5 120.7 12 125.875 127.6 INSTRUMENT AERODROME ELEV 467FT CAIRO /CAIRO APPROACH HEIGHTS RELATED TO ILS THR RWY 23L 467FT 121.9 126.375 CHART-ICAO RWY23L 31 20 HE/P16 31° 40' ALL UNL BEARINGS ARE MAGNETIC ALTITUDES, ELEVATIONS AND HEIGHTS IN FEET 10 NM MSA 2000 25NM MSA 2000 25NM Air Navigation DNE ITTL CH 243 Service Provider 30° 10 GP 330.5 CAIRO DVOR/DNE CVO 115.2 30 07 04 031 26 558 DISACUO 30 05 32N 031 23 18E CAT C&D Aeronautical \odot 1050 Publication Almaga 4 LLZ 108.7 ITTL · - - -30 05 42 1155 31 24 59E 951 836 * MSA 30 3500 25NM MSA 2500 25NM SCALE 5 NM 10KM 5 1 31 30' 1 31 40 TRANS LEVEL FL 60 TRANS ALT 4500 IAF 4500 DVORIDM CAT C&D - 070 CAT A&B - 060 MISSED APCH (4033) Turn left immediately on TR 200° to reach 2000FT AMSL then turn left CMB reach (CVO) at 3500FT AMSL and hold or as directed by ATC 2100 ITTL (1633) RDH50 AP 1409 (942)

THR ELEV 467 NH D THR RWY 23L 10 13.4 NM CV OCA (OCH) GP INOF B C D Straight In CAT I 709(242) 717(250) 728(261) 697(230) 970(503) 593(126) Straight In CAT II 567(100) 567(100) 579(112) 08 DEC 2016 Ministry of Civil Aviation - Cairo.

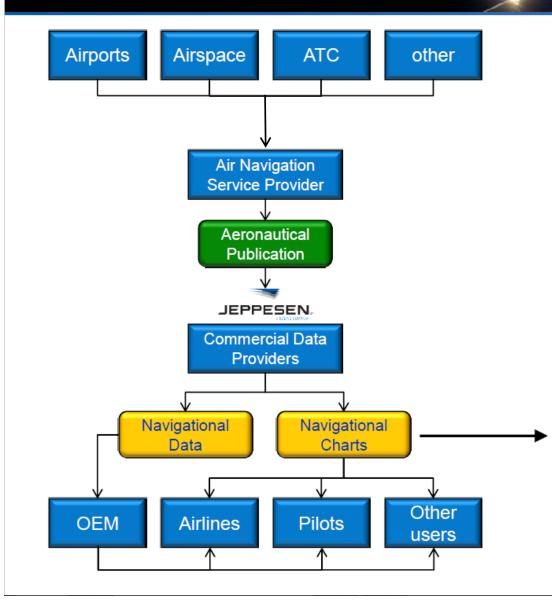
وزارة الطيران المنسى - القساهرة

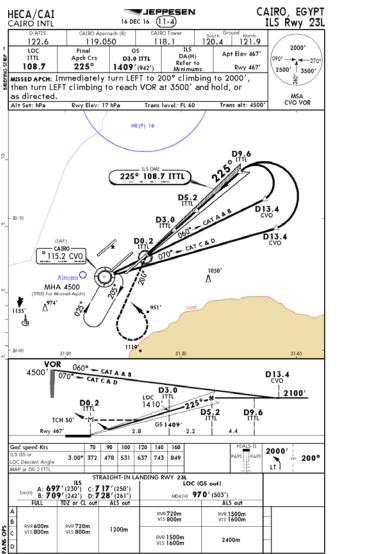
08 DEC 2016 AIRAC 4/16

Standardizing Aeronautical Information

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C JEPPESEN, 2010, 2016, ALL REGHTS RESERVED

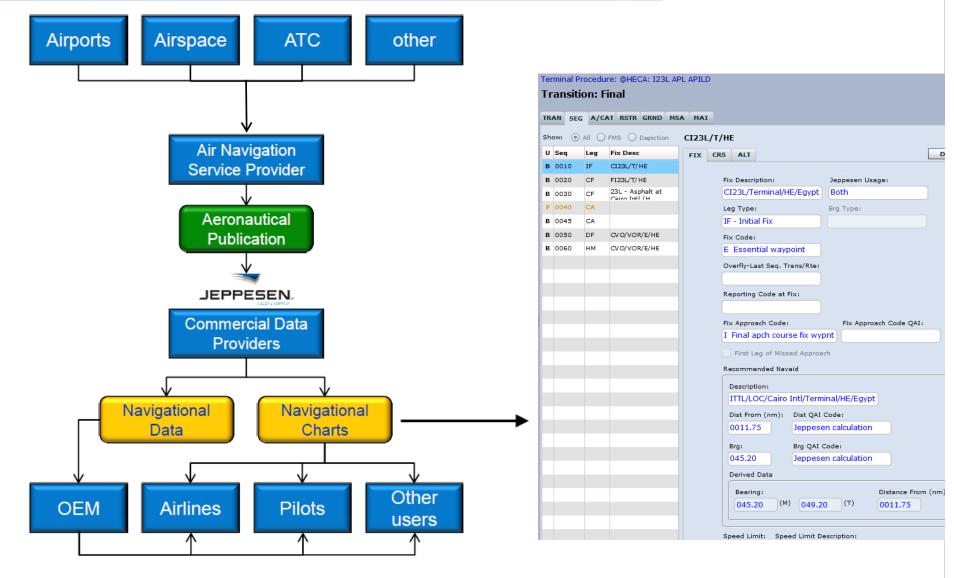
CHANGES: Minimums

Jeppesen NavData

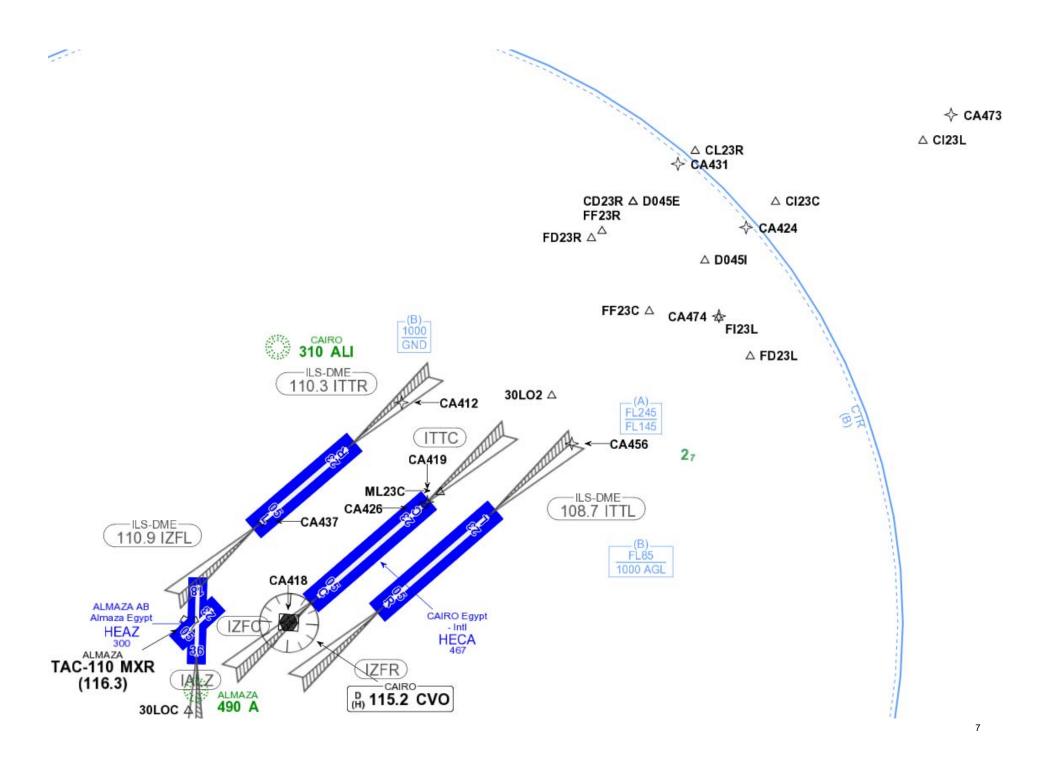
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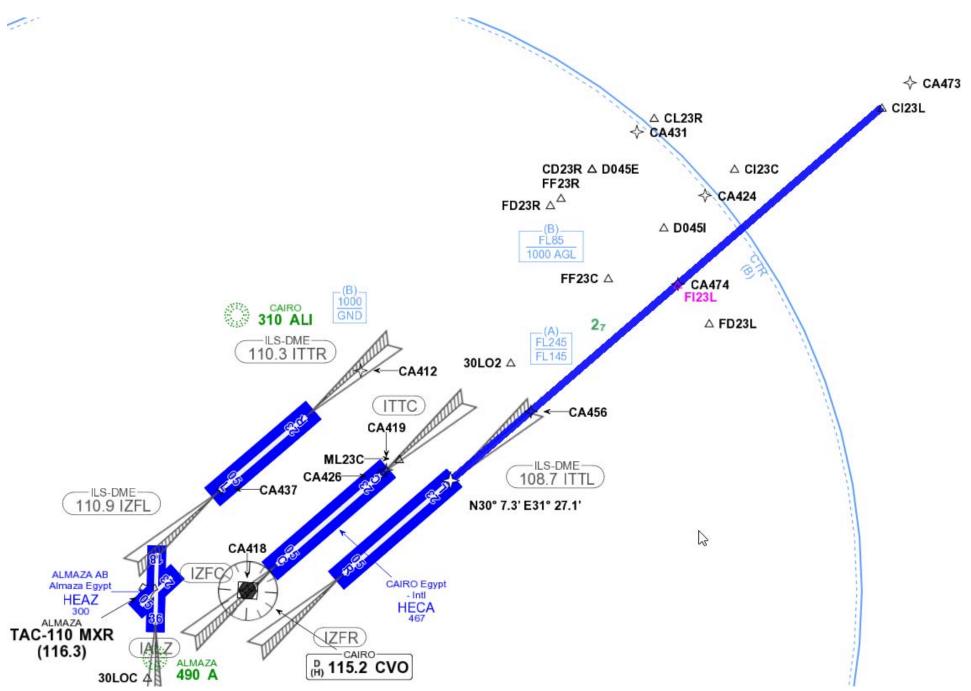






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Worldwide Data Challenge

- Very large and growing
- Increasing difficulty in managing with required quality

14,600 Airports
89,200 Airport Details
10,600 Airport Comms
28,600 Navaids
4,600 ILS Approaches
6,300 VOR Approaches
3,600 NDB Approaches
7,100 RNAV Approaches
17,500 Departures
13,200 Arrivals
72,000 Terminal Waypoints
3,400 High Airways
3,000 Low Airways
2,800 High/Low Airways
22,600 Enroute Waypoints

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Typical Aeronautical Data Problems

- Late publication of information per AIRAC
- Late postponement of information per AIRAC
- Publications not received (nrs missing in sequence)

A Result of Late State Source



!! URGENT !!

Date: 8 September 2017

Subject:

Multiple Procedures

AIP SUP 37/17 (effective 14 SEP 17)

Charts not updated

AIP SUP 37/17 (effective 14 Sep 17) was received after the date specified by ICAO for aeronautical information distribution. As a result, changes could not be processed for the 14 Sep 17 effective date. The charts will be updated as shown below:

SID charts 10-3/10-3A/10-3B/10-3C	Revision 15 Sep 17
Approach & Airport charts update	Revision 22 Sep 17

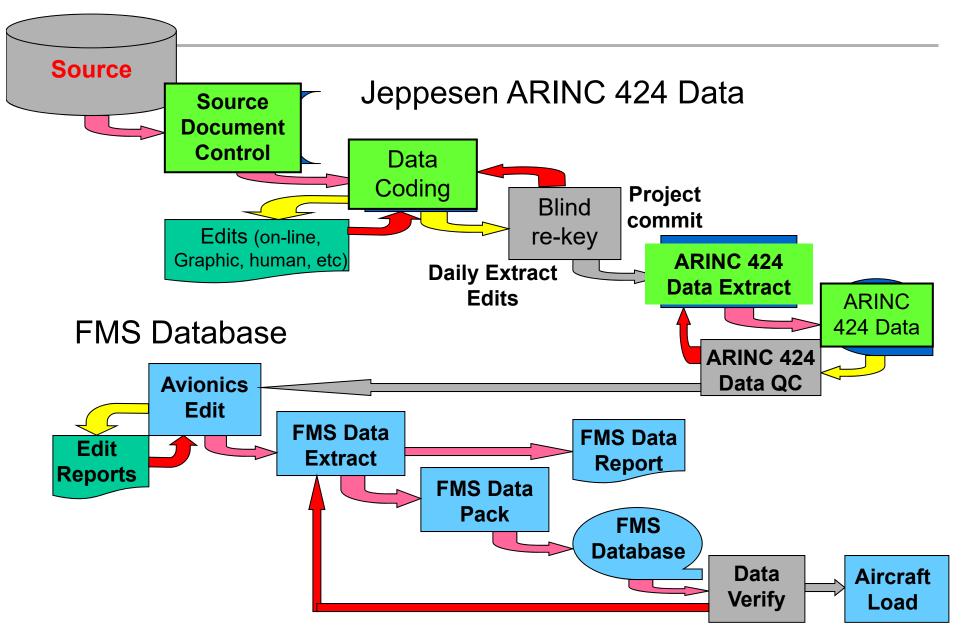
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This Chart Alert is also posted on the Jeppesen Web site: Notices and Alerts.

AIRAC Cycle and Industry Processing Timelines

	ICAO A	nnex 15/PA	NS AIM	Jeppesen		Avionics	ICAO
	States Publish						
AIRAC Cycle Number	Major Changes (56 days in advance)	Normal Changes (42 days in advance)	Normal Changes to Reach Recipients (28 days in advance)	Processing of Nav Data Extract Begins	ARINC 424 Data Set Deliveries to OEMs Begin	OEM Database Deliveries to FMS Begin	AIRAC Effective Date
1801	9 Nov 17	23 Nov 17	7 Dec 17	15 Dec 17	18 Dec 17	21 Dec 17	4 Jan 18
1802	7 Dec 17	21 Dec 17	4 Jan 18	12 Jan 18	15 Jan 18	18 Jan 18	1 Feb 18
1803	4 Jan 18	18 Jan 18	1 Feb 18	9 Feb 18	12 Feb 18	15 Feb 18	1 Mar 18
1804	1 Feb 18	15 Feb 18	1 Mar 18	9 Mar 18	12 Mar 18	15 Mar 18	29 Mar 18
1805	1 Mar 18	15 Mar 18	29 Mar 18	6 Apr 18	9 Apr 18	12 Apr 18	26 Apr 18
	56 days						
		42 days	_				
			28 days				
				20 days			
					17 days		
						14 days	

Downstream Data Process



AIRAC Adherence in New Annex 15

6.2.3 Information provided under the AIRAC system in paper copy form-shall be distributed made available by the AIS unit at least 42 days in advance of the effective date with the objective of reaching so as to reach recipients at least 28 days in advance of the effective date.

Note.— AIRAC information provided under the AIRAC system in paper copy form shall be is distributed by the AIS unit at least 42 days in advance of the AIRAC effective dates with the objective of reaching recipients at least 28 days in advance of the effective date.

6.2.7 **Recommendation.**— Whenever major changes are planned and where advance notice is desirable and practicable, information provided in paper copy form-should be distributed made available by the AIS so as to reach recipients unit at least 56 days in advance of the effective date. This should be applied to the establishment of, and premeditated major changes in, the circumstances listed in Appendix 4, Part 3, below, and other major changes if deemed necessary.

THANK YOU/

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