

**INTERNATIONAL CIVIL AVIATION ORGANIZATION**

**FIRST MEETING OF THE AFI REGION AIM IMPLEMENTATION TASK FORCE**

**(Dakar, Senegal, 20 – 22nd July 2011)**

**Agenda Item 6 :**      **Review of the AIS Parts of the AFI Basic ANP and FASID in order to introduce /develop planning material related to the transition from AIS to AIM.**

**PROPOSED AMENDMENT TO AFI ANP/FASID DOC 7474 VOL. I AND II , ON  
NEW AIM TABLES**

(Presented by the Secretariat)

**SUMMARY**

This WP proposes amendments to Doc. 7474 ( Vol. I and II) relating to the requirement for an overview of the Air Navigation Plan and the requirements for FASID tables, along with amendments to text which may be relevant to operations within the AFI/ EUR corridor areas of responsibility.

Reference: Doc 7474 Vol.I and II

**1. INTRODUCTION**

1.1 In accordance with an overview of the Air Navigation Plan and the requirements for FASID tables. the following objectives were set by the by the EUR ANP AIM TF/2 Meeting:

- a) development of guidance material in the FASID related to AIM implementation to complement the material contained in the basic ANP
- b) a decision on the FASID tables needed
- c) development of the agreed FASID tables
- d) fine-tuning of the AIM part of the Basic ANP
- e) definition of the maintenance process.

1.2 The TF reviewed the existing FASID tables and agreed to retain the elements deemed necessary in the new tables.

## **2. GENERAL**

2.1 The meeting reviewed the assigned Tasks to the TF and the progress achieved.

2.1.1 The meeting reviewed and finalized the following 9 FASID Tables:

- i) Table AIM-1 – Responsibility for the provision of AIM Services;
- ii) Table AIM-2 – Provision of AIM products and services based on the Integrated Aeronautical Information Database (IAID);
- iii) Table AIM-3 – Terrain and Obstacles datasets and Airport Mapping Database (AMDB);
- iv) Table AIM-4 – Aeronautical Data Quality;
- v) Table AIM-5 – World Geodetic System-1984 (WGS-84);
- vi) Table AIM-6 – Aeronautical Charts;
- vii) Table AIM-7 – Production responsibility for sheets of the World Aeronautical Chart - ICAO 1:1 000 000;
- viii) Table AIM-8 – Pre-Flight Information Services; and
- ix) Table AIM-9 – AIM Certification.

2.2 The meeting assigned tasks related to the development of the guidance material to be included in the Preface/Introduction of the FASID Part and the fine tuning of the text of the Basic ANP Part related to AIM to its members.

## **3 DISCUSSION :**

3.1 During the brainstorming, the following draft FASID tables and explanatory notes were developed (see Appendix):

- i) Table AIM-1 - Responsibility for the provision of AIM Services;
- ii) Table AIM-2 - Integrated Aeronautical Information Database (IAID);
- iii) Table AIM-3 - Terrain and Obstacles datasets and Airport Mapping Database (AMDB);
- iv) Table AIM-4 - Aeronautical Data Quality;
- v) Table AIM-5 - World Geodetic System-1984 (WGS-84);

vi) Table AIM-6 – Aeronautical Charts;

vii) Table AIM-7 - production responsibility for sheets of the world aeronautical chart - ICAO 1:1 000 000;

viii) Table AIM-8 - Pre-Flight Information Services.

3.2 During the discussion, it was agreed that the following important points would be reflected in the preface to the FASID tables:

- EUR ANP FASID tables would reflect both planning and performance requirements.
- Several tables related to the planning (e.g. tables 2 and 3) would reflect the data-driven approach in AIM.

3.3 A clarification should be included in respect to the requirement of compliance with the recommended practices e.g. “in case of notification of a difference with regard to a specific Recommended Practice, the Full Compliance is subject to the availability of a Safety Case which ensures that safety is not compromised”

3.4 The TF also considered the inclusion of a requirement for the certification of the AIS/AIM that is in line with the EC requirements for the certification of the ANSP.

#### 4. **Action by the meeting**

4.1 The meeting is invited to :

- a) Review the proposed amendments as reflected in **Attachment A** to this paper.
- b) Support or propose consequential amendment to the AFI ANI/FASID Doc. Vol.I and II as presented.
- c) Request APIRG, following reviews by all parties concerned, to undertake the necessary amendment to Doc 7474 Vol.I and II, in order to maintain the currency of the information contained within the document.

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## Table AIM-1

### Responsibility for the provision of AIM Services

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#### EXPLANATION OF THE TABLE

Column:

- 1 Name of the State or territory
- 2 Designated international NOTAM Office (NOF)
- 3 Designated State for AIP production
- 4 Designated State for aeronautical charts (MAP) production
- 5 Designated State for the provision of the authoritative Integrated Aeronautical Information Database (IAID)
- 6 Remarks — additional information, as appropriate.

**FASID TABLE AIM-1**  
**Responsibility for the provision of AIM Services**

| State                  | NOF       | AIP                | MAP                     | IAID   | Remarks  |
|------------------------|-----------|--------------------|-------------------------|--------|--|
| 1                      | 2         | 3                  | 4                       | 5      | 6  |
| Belarus                | Moscow    | Russian Federation | Russian Federation      |        |  |
| Belgium                |           |                    |                         |        |  |
| Bosnia and Herzegovina | Zagreb    |                    |                         |        |  |
| France                 |           |                    |                         | France |  |
| Germany                | Frankfurt | Germany            | Germany                 |        |  |
| Kyrgyzstan             | Moscow    | Russian Federation |                         |        |  |
| Monaco                 |           |                    |                         | France |  |
| Netherlands            | Amsterdam | Netherlands        | Netherlands/<br>Germany |        | VFR Charts are produced by Germany on behalf of Netherlands                                |
| Russian Federation     | Moscow    | Russian Federation | Russian Federation      |        |  |
| Switzerland            | Zurich    | Switzerland        | Switzerland             | PI     | An IAID with only the AIS component is established and designated as an authoritative IAID |
| Tajikistan             | Moscow    | Russian Federation | Russian Federation      |        |  |
|                        |           |                    |                         |        |  |
|                        |           |                    |                         |        |  |
|                        |           |                    |                         |        |  |

## Table AIM-2

### Provision of AIM products and services based on the Integrated Aeronautical Information Database (IAID)

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#### EXPLANATION OF THE TABLE

Column:

7 Name of the State or territory for which the provision of AIM products and services based on the IAID is required.

8 Requirement for the implementation and designation of the authoritative IAID, shown by:

FI – Fully Implemented

PI – Partially Implemented

NI – Not Implemented

*Note 1 — The IAID of a State is a single access point for one or more databases (AIS, Terrain, Obstacles, AMDB, etc). The minimum set of databases which should be integrated is defined in Annex 15.*

*Note 2 — Information providing detail of “PI” should be given in the Remarks column (the implemented components of the IAID).*

*Note 3 — The information related to the designation of the authoritative IAID should be published in the AIP (GEN 3.1)*

9 Requirement for an IAID driven AIP production, shown by:

FC – Fully compliant (eAIP: Text, Tables and Charts)

PC – Partially compliant

NC – Not compliant

*Note 4 — AIP production includes, production of AIP, AIP Amendments and AIP Supplements*

10 Requirement for an IAID driven NOTAM production, shown by:

FC – Fully Compliant

- NC – Not compliant
- 11 Requirement for an IAID driven SNOWTAM production, shown by:  
FC – Fully Compliant  
NC – Not compliant
- 12 Requirement for an IAID driven PIB production, shown by:  
FC – Fully compliant  
NC – Not compliant
- 13 Requirement for Charting systems to be interoperable with the IAID, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 14 Requirement for Procedure design systems to be interoperable with the IAID, shown by:  
FI – Fully Implemented  
PI – Partially Implemented  
NI – Not Implemented

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- 15 Requirement for ATS systems to be interoperable with the IAID, shown by:  
FI – Fully Implemented  
PI – Partially Implemented  
NI – Not Implemented
- 16 Action Plan — short description of the State’s Action Plan with regard to the provision of AIM products and services based on the IAID, including planned date(s) of full compliance, as appropriate.
- 17 Remarks — additional information, including detail of “PC”, “NC”, “PI” and “NI”, as appropriate.

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|                    |  |  |  |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|--|--|--|--|
| Norway             |  |  |  |  |  |  |  |  |  |  |
| Poland             |  |  |  |  |  |  |  |  |  |  |
| Portugal           |  |  |  |  |  |  |  |  |  |  |
| Russian Federation |  |  |  |  |  |  |  |  |  |  |
| Serbia             |  |  |  |  |  |  |  |  |  |  |
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**Table AIM-3**

**Terrain and Obstacles datasets and Airport Mapping Databases (AMDB)**

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## EXPLANATION OF THE TABLE

### Column

- 1 Name of the State or territory for which Terrain and Obstacles datasets and AMDB are required.
- 2 Compliance with requirement for the provision of Terrain datasets, shown by:
  - FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 3 Compliance with requirement for the provision of Obstacle datasets, shown by:
  - FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 4 Implementation of AMDB, shown by:
  - FI – Fully Implemented
  - PI – Partially Implemented
  - NI – Not implemented

- 5 Action plan — short description of the State’s Action Plan with regard to compliance with the requirements for provision of Terrain and Obstacles datasets and implementation of AMDB.
- 6 Remarks— additional information, including detail of “PC” and “NC”, as appropriate.

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**FASID TABLE AIM-3  
Terrain and Obstacle datasets and Airport Mapping Database (AMDB)**

| <b>State</b>   | <b>Terrain Datasets</b> | <b>Obstacle datasets</b> | <b>AMDB</b> | <b>Action Plan</b>   | <b>Remarks</b>  |
|----------------|-------------------------|--------------------------|-------------|--|---|
| <b>1</b>       | <b>2</b>                | <b>3</b>                 | <b>4</b>    | <b>5</b>   | <b>6</b>  |
|                |                         |                          |             |  |   |
|                |                         |                          |             |  |   |
|                |                         |                          |             |  |   |
| <b>Germany</b> | PC                      | PC                       | PI          | -Clmn 2: full implementation by 2014<br>- Clmn 3: full implementation by 2014<br>- Clmn 4: full implementation by 2016 | -Clmn 2: Area 1 and Area 4 implemented<br>- Clmn 3: Area 1 and Area 4 implemented<br>- Clmn 4: 1 out of 16 international airports |
|                |                         |                          |             |  |   |
|                |                         |                          |             |  |   |
|                |                         |                          |             |  |   |

## Table AIM-4

### Aeronautical Data Quality

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#### EXPLANATION OF THE TABLE

Column:

- 18 Name of the State or territory.
- 19 Compliance with the requirement for implementation of QMS for Aeronautical Information Services including safety and security objectives, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 20 Compliance with the requirement for the establishment of formal arrangements with approved data originators concerning aeronautical data quality, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 21 Implementation of digital data exchange with originators, shown by:  
FI – Implemented  
PI – Partially Implemented  
NI – Not implemented
- Note 1 — Information providing detail of “PI” and “NI” should be given in the Remarks column (percentage of implementation).*
- 22 Compliance with the requirement for metadata, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant

- 23 Compliance with the requirements related to aeronautical data quality monitoring (accuracy, resolution, timeliness, completeness), shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 24 Compliance with the requirements related to aeronautical data integrity monitoring, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 25 Compliance with the requirements related to the AIRAC adherence, shown by:  
FC – Fully compliant  
  
PC – Partially compliant  
  
NC – Not compliant
- 26 Action Plan — short description of the State’s Action Plan with regard to aeronautical data quality requirements implementation, including planned date(s) of full compliance, as appropriate.
- 27 Remarks — additional information, including detail of “PC”, “NC”, “PI” and “NI”, as appropriate.



**FASID TABLE AIM-4  
Aeronautical Data Quality**

**Table AIM-5**

**World Geodetic System-1984 (WGS-84)**

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**EXPLANATION OF THE TABLE**

Column:

- 28 Name of the State or territory for which implementation of WGS-84 is required.
- 29 Compliance with the requirements for implementation of WGS-84 for FIR and Enroute points, shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 30 Compliance with the requirements for implementation of WGS-84 for Terminal Areas (arrival, departure and instrument approach procedures), shown by:  
FC – Fully compliant  
PC – Partially compliant  
NC – Not compliant
- 31 Compliance with the requirements for implementation of WGS-84 for Aerodrome, shown by:  
FC – Fully compliant  
PC – Partially compliant

NC – Not compliant

32 Compliance with the requirements for implementation of Geoid Undulation, shown by:

FC – Fully compliant

PC – Partially compliant

NC – Not compliant

33 Action Plan — short description of the State’s Action Plan with regard to WGS-84 implementation, including planned date(s) of full compliance, as appropriate.

34 Remarks — additional information, including detail of “PC” and “NC”, as appropriate.

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**FASID TABLE AIM-5**  
**World Geodetic System-1984 (WGS-84)**

| State      | FIR/ENR | Terminal | AD | GUND | Action Plan | Remarks |
|------------|---------|----------|----|------|-------------|---------|
| 1          | 2       | 3        | 4  | 5    | 6           | 7       |
| Azerbaijan |         |          |    |      |             |         |
| Belgium    |         |          |    |      |             |         |
| Estonia    |         |          |    |      |             |         |
| Finland    |         |          |    |      |             |         |
| France     |         |          |    |      |             |         |
| Germany    |         |          |    |      |             |         |
| Israel     |         |          |    |      |             |         |
| Latvia     |         |          |    |      |             |         |
| Lithuania  |         |          |    |      |             |         |
| Moldova    |         |          |    |      |             |         |
| Norway     |         |          |    |      |             |         |

|                    |    |    |    |    |           |                     |
|--------------------|----|----|----|----|-----------|---------------------|
| Poland             |    |    |    |    |           |                     |
| Portugal           |    |    |    |    |           |                     |
| Russian Federation | FC | PC | PC | NC | timelines | 70% of AD completed |
| Serbia             |    |    |    |    |           |                     |
|                    |    |    |    |    |           |                     |
|                    |    |    |    |    |           |                     |

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## Table AIM-6

### AERONAUTICAL CHARTS

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#### EXPLANATION OF THE TABLE

Column

- 1 Name of the State or territory for which aeronautical charts are required.
- 2 Compliance with the requirements for the Enroute Chart — ICAO (ENRC) and the ATC Surveillance Minimum Altitude Chart — ICAO (ATCSMAC), shown by:
  - FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 3 Compliance with requirements for charts related to terminal areas (IAC, ARC, SID, STAR, VAC) shown by:
  - FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 4 Compliance with the requirement for Aerodrome charts (ADC, ADGMC and APDC), shown by:
  - FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 5 Compliance with the requirements for Obstacle Charts (AOC-A, PATC, AOC-E) shown by:
  - FC – Fully compliant)
  - PC – Partially compliant
  - NC – Not compliant
- 6 Compliance with the requirement for WAC, shown by:
  - FC – Fully compliant

PC – Partially compliant

NC – Not compliant

- 7 Action plan — short description of the State’s Action Plan with regard to aeronautical charts implementation, including planned date(s) of full compliance, as appropriate.
- 8 Remarks— additional information, including detail of “PC” and “NC”, as appropriate.

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## FASID Table AIM-7

### **PRODUCTION RESPONSIBILITY FOR SHEETS OF THE WORLD AERONAUTICAL CHART - ICAO 1:1 000 000**

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#### EXPLANATION OF THE TABLE

Column:

- 35 Name of the State accepting production responsibility.
- 36 World Aeronautical Chart — ICAO 1:1 000 000 sheet number(s) for which production responsibility is accepted.
- 37 Remarks.

*Note 1— When Aeronautical Charts — ICAO 1:500 000 or Aeronautical Navigation Charts — ICAO Small Scale, are made available instead of the 1:1 000 000 chart, this is to be indicated in the Remarks column.*

*Note 2— In those instances where the production responsibility for certain sheets has been accepted by more than one State, these States by mutual agreement should define limits of responsibility for those sheets.*



## Pre-Flight Information Services

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### EXPLANATION OF THE TABL

Column:

- 38 Name of the State or territory.
- 39 Compliance with the requirements for the provision of Pre-Flight Information Bulletins (PIB), shown by:
- FC – Fully compliant, against each type of PIB
  - PC – Partially compliant, against each type of PIB
  - NC – Not compliant, against each type of PIB
- Note 1 — AD: Aerodrome type bulletins*
- Area: Area type bulletins (FIR or group of FIRs or States)*
  - FIR route: FIR route specific bulletin*
  - Narrow route: Narrow path route specific bulletin*
- 40 Compliance with the requirements for the availability of the elements of the Integrated Aeronautical Information Publications (IAIP), maps and charts to the flight operations personnel, shown by:
- FC – Fully compliant
  - PC – Partially compliant
  - NC – Not compliant
- 41 Requirement for a common point of access to aeronautical information and meteorological information briefings, shown by:
- FI – Fully Implemented
  - PI – Partially Implemented
  - NI – Not implemented
- 42 Action Plan — short description of the State’s Action Plan with regard to Pre-Flight Information Services, including planned date(s) of full compliance, as appropriate.
- 43 Remarks — additional information, including detail of “PC”, “NC”, “PI” and “NI”, as appropriate.



## Table AIM-9

### AIM Certification

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#### EXPLANATION OF THE TABLE

Column:

44 Name of the State or territory for which implementation of AIM Certification is required.

45 Availability of AIM Regulations, shown by:

FC – Fully compliant

PC – Partially compliant

NC – Not compliant

*Note.— Please provide in the Remarks column detail of “PC” and “NC”.*

46 Compliance with the requirements for the establishment of a Safety Oversight System for ensuring the effective implementation of safety-related policy and procedures in the area of AIM, shown by:

FC – Fully compliant

PC – Partially compliant

NC – Not compliant

*Note 1.— Please provide in the Remarks column detail of “PC” and “NC”.*

*Note 2.— A Safety Oversight System is based on the eight (8) Critical Elements (CEs) as defined in the ICAO Safety Oversight Manual (Doc 9734, Part A).*

*Note 3.— As part of the Safety Oversight System, States should, in particular:*

*a) establish an entity responsible for the safety oversight of the AIS/AIM service provider(s)(not necessarily limited to the safety oversight of AIM) with clearly defined functions and responsibilities, or delegate this function to a Regional/Sub-Regional Organization;*

*b) ensure the availability of sufficient number of qualified AIM inspectors;*

*c) establish minimum qualifications and experience for the AIM inspectorate staff ;*

*d) establish detailed job descriptions reflecting all the regulatory and safety oversight tasks for the AIM inspectorate staff;*

*e) establish the necessary procedures for the AIM inspectorate staff;*

*f) establish and implement a formal surveillance programme for the continuing supervision of the AIS/AIM service provider(s) and ensure that safety oversight is effectively conducted; and*

*g) establish and implement a mechanism/system for the elimination of deficiencies identified by the AIM inspectorate staff.*

47 Compliance with the requirements for implementation of AIM certification, shown by:

FC – Fully compliant

PC – Partially compliant

NC – Not compliant

*Note 4.— AIM Certification may be performed within the framework of ANS Certification*

48 Action Plan — short description of the State’s Action Plan with regard to the implementation of the different requirements of AIM certification, including planned date(s) of full compliance, as appropriate.

49 Remarks — additional information, including detail of “PC” and “NC”, as appropriate.

**FASID TABLE AIM-9  
AIM Certification**

| <b>State</b>       | <b>AIM Regulations</b> | <b>AIM Safety Oversight</b> | <b>AIM Certification</b> | <b>Action Plan</b> | <b>Remarks</b> |
|--------------------|------------------------|-----------------------------|--------------------------|--------------------|----------------|
| <b>1</b>           | <b>2</b>               | <b>3</b>                    | <b>4</b>                 | <b>5</b>           | <b>6</b>       |
| Azerbaijan         |                        |                             |                          |                    |                |
| Belgium            |                        |                             |                          |                    |                |
| Estonia            |                        |                             |                          |                    |                |
| Finland            |                        |                             |                          |                    |                |
| France             |                        |                             |                          |                    |                |
| Germany            |                        |                             |                          |                    |                |
| Israel             |                        |                             |                          |                    |                |
| Latvia             |                        |                             |                          |                    |                |
| Lithuania          |                        |                             |                          |                    |                |
| Moldova            |                        |                             |                          |                    |                |
| Norway             |                        |                             |                          |                    |                |
| Poland             |                        |                             |                          |                    |                |
| Portugal           |                        |                             |                          |                    |                |
| Russian Federation |                        |                             |                          |                    |                |
| Serbia             |                        |                             |                          |                    |                |