SUMMARY

This study note claims to open a discussion within the AIS-AIMSG about Data Origination Terminology for the Upstream and Downstream. The necessity of such a discussion and follow on document review and amendment for PANS-OPS (Doc 8168) Volume II was identified during the development of the initial Instrument Flight Procedure Data Set (IFPD) in IFPP/IWG Winter Meeting, Phoenix, AZ, USA, 20 – 25 January 2014.

Action by the AIS-AIMSG is at paragraph 4.

1. INTRODUCTION

1.1 During the joint meeting of IFPP/IWG and AIS-AIMSG/Sub-Group on IFPP/IWG - AIS-AIMSG Cooperation, Phoenix, AZ, USA, 20 – 25 January 2014, it was identified that Annex 15 and PANS-AIM becoming the “data requirements for publication” document for Instrument Flight Procedure Data (IFPD) Sets. Currently this is covered mainly in PANS-OPS (Doc 8168), Volume II, for data, Annex 4, and the Aeronautical Chart Manual (Doc 8697) for chart depiction.

1.2 The current wording in Doc 8168 is – in a lot of cases – ambiguous, i.e. does not always state a “requirement”. Reviewing for words like “promulgate” and “publish” shows a number of those appearing. Also words like “publication, annotate, provide, state, include, indicate, specify, contain, mention, identify, add, append, and others” relate to data requirements.

1.3 The IWG created the IP/2 for IFPP 12-3, which is attached to this Study Note, discussing this terminology issue in detail as far as Doc 8126, Volume II, is affected. This IP was
discussed in the IWG meeting before IFPP 12-3, Dubai, UAE, 24 – 27 March 2014. The intend of the IWG is to review PANS-OPS (Doc 8168), Volume II, to refer the term “promulgation” to the role and responsibility of the procedure designer, and the term “publication” to the AIS organisation. The promulgation of an instrument flight procedure from a procedure design organisation to the AIS-AIM organisation is in form of an IFPD Set.

1.4 The IWG intends to draft a Job Card for the review and to update PANS-OPS (Doc 8168), Volume II. The Job Card shall be reviewed in the IWG Summer Meeting, Paris, France, 7 – 11 July 2014.

2. DISCUSSION

2.1 The above discussion in the IFPP/IWG triggered an activity to review the data origination terminology used in ICAO Annexes and PANS.

2.2 All Annexes (1 to 19) where searched for the words “AIP, Chart, publish, promulgate, Annex 4, and Annex 15, to identify an indication whether any reference exists in the Annexes which might imply an provision for data promulgation to AIS according to Annex 4 or 15. The PANS\(^1\) have not been searched so far except PANS-OPS (Doc 8168), Volume II, which is handled by IFPP/IWG (see Attachment to this Study Note).

2.3 The 19 Annexes consist of 25 volumes. 21 of them\(^2\) dealing in one way or the other with data origination/promulgation requirements to the AIS Organisation.

2.4 Some Annex dealing only very general with origination/promulgation requirements by stating that differences to the ICAO SARPs and PANS shall be published according to Annex 15. Other Annexes, like Annex 14 – Aerodromes – dealing very detailed with origination/promulgation requirements.

2.5 Figure 1 of AIS-AIMSG/7-SN/11 provided a sketch about relations between Data Originators, the AIS, and Data Users.

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\(^1\) PANS-OPS (Doc 8168), Volume I, PANS-TRG (Doc 9868), PANS-SUPPS (Doc 7030), PANS-ABC (Doc 8400), PANS-ATM (Doc 4444), Annex 10 Volume II.

\(^2\) Annex, 2, 3, 4, 5, 7, 9, 10v1, 10v2, 10v3, 10v5, 11, 12, 13, 14v1, 14v2, 15, 16v1, 16v2, 17, 18, and 19. In Annex 1, 6, 8, and 10v4 nothing was found so far.
2.6 The sources are initially combined in Data Originator Groups in the current draft of Annx15, Chapter 4 and PANS-AIM, Chapter, as follows:

a) Air Navigation Services Providers (ANSPs),

b) Aerodromes,

c) Surveying (Terrain, Obstacle),

d) Airspace Design,

e) Procedure Design,

f) Others.

2.7 The AIM Process was provided in the AIM Concept Version 0.9 at the Ad-Hoc Meeting on AIM Development/8 in Brussels, 13 – 17.02.2012.

2.8 In the depiction below an enhanced picture is provided to form a basis for further discussion about the Terminology for:

a) Actors in the Data Process,

b) Phases in the Data Process for “classical” publication (AIP),
c) Phases in the Data Process for digital “publication” (Data Sets).

Figure 2: AIM Process

2.9 Data Originator Groups are mentioned in Chapter 4 of both, Annex 15 and PANS-AIM. It shall therefor be discussed by the AIS-AIMSG whether the Annexes and PANS shall be related to Data Originator Groups in Annex 15 or not.

2.10 The RTCA SC-217/EUROCAE WG-44 – WG1 - has currently also discussed terminology for the aeronautical data chain in the frame of the amendment process of Do200/ED76. This discussion shall be taken into account by the AIS-AIMSG to assist the undertaking of harmonisation of terminology in the area of the Aeronautical Data Chain, if possible.

3. CONCLUSION

3.1 This Study Note claims to provide a basis further discussion of the Data Origination and Aeronautical Data Chain Terminology to support the introduction of Data Sets.

4. ACTION BY THE AIS-AIMSG

4.1 The AIS-AIMSG/9 is invited to:

d) Discuss the matters mentioned under chapter 2 above,
e) spread into a separate discussion group during AIS-AIMSG/9, if deemed necessary,

f) Document the outcome of the discussions in the SoD for further actions and subsequent work to be finalised before AIS-AIMSG/10, Montreal, Canada, 10 – 14 November 2014.

Attachment: IFPP 12-3 IP/2

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