International Civil Aviation Organization

MIDANPIRG/17 and RASG-MID/7 Meeting

(Cairo, Egypt, 15-18 April 2019)

Agenda Item 6.2: Air Navigation Planning and Implementation

AIM MATTERS

(Presented by the Secretariat)

SUMMARY

This paper presents the outcome of the AIM SG/5 meeting.

Action by the meeting is at paragraph 3.

REFERENCES

- AIM SG/5 Report
- MSG/6 Report

1. Introduction

- 1.1 The Fifth meeting of the MIDANPIRG AIM Sub-Group (AIM SG/5) was successfully held at the ICAO Middle East Regional Office in Cairo, Egypt, from 22 to 24 January 2019.
- 1.2 The meeting was attended by a total of thirty-four (34) participants from eight (8) States (Bahrain, Egypt, Iran, Kuwait, Lebanon, Saudi Arabia, United Arab Emirates and Yemen) and four (4) International Organizations/Industries (IFAIMA, Jeppesen, NG Aviation and Thales).

2. DISCUSSION

Implementation of Annex 15 (16th Edition) and PANS AIM

- 2.1 The meeting may wish to recall that Amendment 40 to Annex 15 was adopted by the Council at the sixth meeting of its 213th Session on 9 March 2018. The amendment presents a major restructuring of Annex 15 (second part). The changes were aimed at reorganizing the AIM documentation to ensure:
 - a) high-level requirements are embodied in Annex 15;
 - b) technical specifications and operating procedures are incorporated into the new PANS-AIM (Doc 10066) (approved by the ANC on 15 June 2018); and
 - c) guidance material is developed to support implementation (Doc 8126; update in progress).
- 2.2 In order to support the implementation of the new AIS/AIM provisions in the MID Region; and as a follow-up to the Interregional PANS AIM Workshop (Paris, France, 10-12 July 2018), a Workshop on the 16th Edition of Annex 15 and the PANS AIM was conducted during the first day of the AIM SG/5 meeting.

- 2.3 The AIM SG/5 meeting discussed the changes introduced to the AIS/AIM provisions, the implementation challenges and States' experiences. The meeting also reviewed the Compliance Checklists for Annex 15 and PANS AIM, prepared by the ICAO Secretariat, as at **Appendices A** and **B**. The meeting commended the efforts of the Secretariat for the compilation of the Compliance Checklists and considered that the spreadsheets are useful tools for States for a better understanding of the new provisions of Annex 15 and the PANS AIM.
- 2.4 The Meeting may wish to recall that the MSG/6 meeting (Cairo, Egypt, 3-5 December 2018) reviewed the outcome of the Inter-regional EUR/MID Workshop on PANS AIM and agreed to the following MSG Conclusion:

MSG Conclusion 6/8: Implementation of the 16^{th} Edition of Annex 15 and the PANS AIM

That, States be urged to:

- *a)* take necessary actions on the implementation of the 16th Edition of Annex 15 and the PANS AIM, including:
 - updating AIS/AIM National Regulations;
 - identification and notification of differences (EFOD and AIP GEN 1.7), if any;
 - coordination with their AISPs to develop necessary operational procedures/practices in order to implement the provisions of Annex 15 and the PANS AIM;
- b) provide feedback to the ICAO MID Office on the implementation of the 16th Edition of Annex 15 and the PANS AIM (Implementation Plan, difficulties/challenges, need for assistance, etc).

Interregional Workshop/Seminar on AIM/SWIM

2.5 The meeting may wish to note that as a follow-up to the AN-Conf/13 Recommendation 3.1/1, the AIM SG/5 meeting agreed that an Inter-regional Workshop/Seminar on AIM/SWIM should be organized in 2020-2021. Accordingly, the following Draft Conclusion is proposed:

Why	To provide States with the latest developments in AIM and SWIM
What	Organize an Interregional Workshop/Seminar on AIM/SWIM
Who	ICAO
When	2020-2021

DRAFT MIDANPIRG/17 CONCLUSION/XX: INTERREGIONAL WORKSHOP/SEMINAR ON AIM/SWIM

That, an Interregional Workshop/Seminar on AIM/SWIM be organized in 2020-2021.

ICAO Roadmap for the transition from AIS to AIM

- 2.6 The meeting may wish to note that the ICAO Roadmap for the transition from AIS to AIM was developed by the AIS-AIM Study Group in 2009 and is no longer keeping pace with the developments. Furthermore, with the introduction of the ASBUs and the new provisions of Annex 15 and the PANS AIM, there is a need for a complete reshuffling of the Document.
- 2.7 Based on the above, the AIM SG/5 meeting proposed the following Draft Conclusion:

Why	To keep pace with the latest developments in the AIM field
What	To consider the review/reshuffling of the ICAO Roadmap for the transition from AIS to AIM
Who	ICAO
When	ASAP

DRAFT MIDANPIRG/17 CONCLUSION/XX: ICAO ROADMAP FOR THE TRANSITION FROM AIS TO AIM

That, ICAO consider the review/reshuffling of the Roadmap for the transition from AIS to AIM to keep pace with the developments.

MID Region AIM Implementation Roadmap

- 2.8 The meeting may wish to recall that the MSG/6 meeting tasked the AIM SG to update the MID Region AIM Implementation Roadmap, in order to include the provisions of the 16th Edition of Annex 15 and the PANS AIM, in particular the implementation of digital datasets.
- 2.9 The AIM SG/5 meeting reviewed and updated the MID Region AIM Implementation Roadmap, as at **Appendix C**. It was agreed that the Roadmap needs further review/update. Accordingly, the following Draft Conclusion is proposed:

Why	For a harmonized AIM implementation in the MID Region						
What	Updated version of the MID Region AIM Implementation coadmap						
Who	MIDANPIRG/17						
When	April 2019						

DRAFT MIDANPIRG/17 CONCLUSION/XX: MID REGION AIM IMPLEMENTATION ROADMAP

That, the MID Region AIM Implementation Roadmap at **Appendix C** is endorsed.

Guidance for AIM Planning and Implementation in the MID Region (MID Doc 008)

2.10 The meeting may wish to recall that the Guidance for AIM implementation (MID Doc 008) was developed by the AIM Sub-Group. Taking into consideration the recent changes to the Global AIM Provisions, the MID Doc 008 needs critical review/update.

2.11 Based on the above, the AIM SG/5 meeting proposed the establishment of an Ad-hoc Working Group to address the challenges associated with the implementation of digital datasets, develop a Regional Implementation Plan and review/update the MID Doc 008, accordingly. The following Draft Decision is proposed:

Why To address the challenges associated with the imple of digital datasets, develop a Regional Implementation review/update the MID Doc 008, accordingly						
What	Establish the Digital Datasets Ad-hoc Working Group					
Who	MIDANPIRG/17					
When	April 2019					

DRAFT MIDANPIRG/17 DECISION/XX:

ESTABLISHMENT OF THE DIGITAL DATASETS IMPLEMENTATION AD-HOC WORKING GROUP (DDI AD-HOC WG)

That, the Digital Datasets Ad-hoc Working Group be:

- a) established to:
 - address the challenges associated with the implementation of digital datasets;
 - propose Regional Implementation Plan for Digital Datasets; and
 - review/update the MID Doc 008; and
- b) composed of:
 - Abdulla Hasan AlQadhi (Bahrain)
 - Moataz Abdel Aziz Ahmed (Egypt)
 - Rouhalah Salehi (Iran)
 - Mohammad Hussien Al Anezi (Kuwait)
 - Bassem Ali Nasser (Lebanon)
 - Mazen Mohammed Alshihri (Saudi Arabia)
 - Sorin Dan. Onitiu (UAE, Rapporteur)
 - Marek Franko (NG Aviation): and
 - ICAO MID Office

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) urge States to implement the provisions of the MSG Conclusion 6/8, and provide feedback to the ICAO MID Office;
 - b) invite States to use the Compliance Checklists for Annex 15 and the PANS AIM, developed by the Secretariat, at **Appendices A** and **B**; and
 - c) endorse the Draft Conclusions and Decision, as appropriate.

	CHAPTER 1: GENERAL					
16th Edi	ition	15th Edition		Assessment		
Para No.	Text of Standard	Para. No.	Text of Standard			
1.2.1.1	The World Geodetic System — 1984 (WGS-84) shall be used as the horizontal (geodetic) reference system for international air navigation. Consequently, published aeronautical geographical coordinates (indicating latitude and longitude shall be expressed in terms of the WGS-84 geodetic reference datum.	1.2.1.1	World Geodetic System — 1984 (WGS-84) shall be used as the horizontal (geodetic) reference system for international air navigation. Consequently, published aeronautical geographical coordinates (indicating latitude and longitude) shall be expressed in terms of the WGS-84 geodetic reference datum.	No significant change / minor editorial amendment		
1.2.2.1	Mean sea level (MSL) datum shall be used as the vertical reference system for international air navigation.	1.2.2.1	Mean sea level (MSL) datum, which gives the relationship of gravity-related height (elevation) to a surface known as the geoid, shall be used as the vertical reference system for international air navigation.	No significant change / minor editorial amendment		
1.2.2.2	The Earth Gravitational Model — 1996 (EGM-96) shall be used as the global gravity model for international air navigation.		The Earth Gravitational Model — 1996 (EGM-96), containing long wavelength gravity field data to degree and order 360, shall be used by international air navigation as the global gravity model.			
1.2.2.3	At those geographical positions where the accuracy of EGM-96 does not meet the accuracy requirements for elevation and geoid undulation on the basis of EGM-96 data, regional, national or local geoid models containing high resolution (short wavelength) gravity field data shall be developed and used. When a geoid model other than the EGM-96 model is used, a description of the model used, including the parameters required for height transformation between the model and EGM- 96, shall be provided in the Aeronautical Information Publication (AIP).	1.2.2.3	At those geographical positions where the accuracy of EGM-96 does not meet the accuracy requirements for elevation and geoid undulation specified in Annex 14, Volumes I and II, on the basis of EGM-96 data, regional, national or local geoid models containing high resolution (short wavelength) gravity field data shall be developed and used. When a geoid model other than the EGM-96 model is used, a description of the model used, including the parameters required for height transformation between the model and EGM-96, shall be provided in the Aeronautrical Information Publication (AIP).	No significant change / minor editorial amendment		
1.2.3.1	The Gregorian calendar and Coordinated Universal Time (UTC) shall be used as the temporal reference system for international air navigation.	1.2.3.1	The Gregorian calendar and Coordinated Universal Time (UTC) shall be used as the temporal reference system for international air navigation.	No significant change / minor editorial amendment		
1.2.3.2	When a different temporal reference system is used for some applications, the feature catalogue, or the metadata associated with an application schema or a dat set, as appropriate, shall include either a description of that system or a citation fo a document that describes that temporal reference system.		When a different temporal reference system is used for some applications, the feature catalogue, or the metadata associated with an application schema or a data set, as appropriate, shall include either a description of that system or a citation for a document that describes that temporal reference system.	No significant change / minor editorial amendment		
1.3.1	Aeronautical information products intended for international distribution shall include English text for those parts expressed in plain language.	1.3.1	Each element of the Integrated Aeronautical Information Package for international distribution shall include English text for those parts expressed in plain language.	Replacement of IAIP with "Aeronautical Information Products"		
1.3.2	Place names shall be spelt in conformity with local usage, transliterated, when necessary, into the ISO-Basic Latin alphabet.	1.3.2	Place names shall be spelt in conformity with local usage, transliterated, when necessary, into the Latin alphabet.	No significant change / minor editorial amendment		
1.3.4	ICAO abbreviations shall be used in aeronautical information products whenever they are appropriate and their use will facilitate distribution of aeronautical data and aeronautical information.	1.3.4	ICAO abbreviations shall be used in the AIS whenever they are appropriate and their use will facilitate distribution of aeronautical data and aeronautical information.	Replacement of AIS with "Aeronautical Information Products"		

CHAPTER 2: RESPONSIBILITIES AND FUNCTIONS

	CH	APTER 2	: RESPONSIBILITIES AND FUNCTIONS	
16th Edi Para No.	Text of Standard		Text of Standard	Assessment
2.1.1	Each Contracting State shall: a) provide an aeronautical information service (AIS); or b) agree with one or more other Contracting State(s) for the provision of a joint service; or c) delegate the authority for the provision of the service to a non- governmental agency, provided the Standards and Recommended Practices of this Annex are adequately met.		Each Contracting State shall: a) provide an aeronautical information service (AIS); or b) agree with one or more other Contracting State(s) for the provision of a joint service; or c) delegate the authority for the provision of the service to a non- governmental agency, provided the Standards and Recommended Practices of this Annex are adequately met.	
2.1.2	Each Contracting State shall ensure that the provision of aeronautical data and aeronautical information covers its own territory and those areas over the high seas for which it is responsible for the provision of air traffic services (ATS).		Each Contracting State shall ensure that the provision of aeronautical data and aeronautical information covers its own territory and those areas over the high seas for which it is responsible for the provision of air traffic services.	No significant change / minor editorial amendment
2.1.3	The State concerned shall remain responsible for the aeronautical data and aeronautical information provided in accordance with 2.1.2. Aeronautical data and aeronautical information provided for and on behalf of a State shall clearly indicate that they are provided under the authority of that State, irrespective of the format in which they are provided.		The State concerned shall remain responsible for the aeronautical data and aeronautical information provided in accordance with 2.1.2. Aeronautical data and aeronautical information provided for and on behalf of a State shall clearly indicate that they are provided under the authority of that State.	No significant change / minor editorial amendment
2.1.4	Each Contracting State shall ensure that the aeronautical data and aeronautical information provided are of required quality in accordance with 3.2.		Each Contracting State shall ensure that the aeronautical data and aeronautical information provided are complete, timely and of required quality in accordance with 3.3.	No significant change / minor editorial amendment
2.1.5	Each Contracting State shall ensure that formal arrangements are established between originators of aeronautical data and aeronautical information and the AIS in relation to the timely and complete provision of aeronautical data and aeronautical information.	2.1.5	Each Contracting State shall ensure that formal arrangements are established between originators of aeronautical data and aeronautical information and the AIS in relation to the timely and complete provision of aeronautical data and aeronautical information.	No significant change / minor editorial amendment
2.2.1	An AIS shall ensure that aeronautical data and aeronautical information necessary for the safety, regularity and efficiency of air navigation are made available in a form suitable for the operational requirements of the air traffic management (ATM) community, including; a) those involved in flight operations, including flight crews, flight planning and flight simulators; and b) the ATS unit responsible for primation.		An AIS shall ensure that aeronautical data and aeronautical information necessary for the safety, regularity or efficiency of air navigation are made available in a form suitable for the operational requirements of the air traffic management (ATM) community, including: a) those involved in flight operations, including flight crews, flight planning and flight simulators; and b) the air traffic services unit responsible for flight information service and the services responsible for pre-flight information.	No significant change / minor editorial amendment
2.2.2	An AIS shall receive, collate or assemble, edit, format, publish/store and distribute aeronautical data and aeronautical information concerning the entire territory of the State as well as those areas over the high seas for which the State is responsible for the provision of ATS. Aeronautical data and aeronautical information shall be provided as aeronautical information products.		aeronautical data and aeronautical information concerning the entire territory of the State as well as those areas over the high seas in which the State is responsible for the provision of air traffic services. Aeronautical data and aeronautical information shall be provided as an integrated Aeronautical Information Package.	
2.2.3	Where 24-hour service is not provided, service shall be available during the whole period an aircraft is in flight in the area of responsibility of the AIS, plus a period of at least two hours before and after such a period. Service shall also be available at such other time as may be requested by an appropriate ground organization.		Where 24-hour service is not provided, service shall be available during the whole period an aircraft is in flight in the area of responsibility of AlS, plus a period of at least two hours before and after such a period. Service shall also be available at such other time as may be requested by an appropriate ground organization.	
2.2.4	An AIS shall, in addition, obtain aeronautical data and aeronautical information to enable it to provide pre-flight information service and to meet the neef of in-flight information: a) from the AIS of other States; and b) from other sources that may be available.		An AIS shall, in addition, obtain aeronautical data and aeronautical information to enable it to provide pre-flight information service and to meet the need for in-flight information: a) from the AIS of other States; b) from other sources that may be available.	No significant change / minor editorial amendment
2.2.5	Aeronautical data and aeronautical information obtained under 2.2.4 a) shall, wher distributed, be clearly identified as having the authority of the originating State.	2.2.5	Aeronautical data and aeronautical information obtained under 2.2.4 a) shall, when distributed, be clearly identified as having the authority of the originating State.	No significant change / minor editorial amendment
2.2.6	Aeronautical data and aeronautical information obtained under 2.2.4 b) shall, if possible, be verified before distribution and if not verified shall, when distributed, be clearly identified as such.		Aeronautical data and aeronautical information obtained under 2.2.4 b) shall, if possible, be verified before distribution and if not verified shall, when distributed, be clearly identified as such.	No significant change / minor editorial amendment
2.2.7	An AIS shall promptly make available to the AIS of other States any aeronautical data and aeronautical information necessary for the safety, regularity or efficiency of air navigation required by them, to enable them to comply with 2.2.1.		An AIS shall promptly make available to the AIS of other States any aeronautical data and aeronautical information necessary for the safety, regularity or efficiency of air navigation required by them, to enable them to comply with 2.2.1.	No significant change / minor editorial amendment
2.3.1	Each Contracting State shall designate the office to which all elements of aeronautical information products provided by other States shall be addressed. Such an office shall be qualified to deal with requests for aeronautical data and aeronautical information provided by other States.		Each State shall designate the office to which all elements of the Integrated Aeronautical Information Package originated by other States shall be addressed. Such an office shall be qualified to deal with requests for aeronautical data and aeronautical information originated by other States.	Replacement of IAIP with "Aeronautical Information Products"
2.3.3	Where more than one international NOTAM office is designated within a State, the extent of responsibility and the territory covered by each office shall be defined.		Where more than one international NOTAM office is designated within a State, the extent of responsibility and the territory covered by each office shall be defined.	No significant change / minor editorial amendment
2.3.4	An AIS shall arrange, as necessary, to satisfy operational requirements for the issuance and receipt of NOTAM distributed by telecommunication.		An AIS shall arrange, as necessary, to satisfy operational requirements for the issuance and receipt of NOTAM distributed by telecommunication.	No significant change / minor editorial amendment
2.3.5	Wherever practicable, direct contact between AIS shall be established in order to facilitate the international exchange of aeronautical data and aeronautical information.		Wherever practicable, direct contact between AIS shall be established in order to facilitate the international exchange of aeronautical data and aeronautical information.	No significant change / minor editorial amendment
2.3.6	Except as provided in 2.3.8, one copy of each of the following aeronautical information products (where available) that have been requested by the AIS of a Contracting State shall be made available by the originating State and provided in the mutually agreed form(s), without charge, even where authority for publication/storage and distribution has been delegated to a non-governmental agency: a) Aeronautical Information Publication (AIP), including Amendments and Supplements; b) Aeronautical Information Circulars (AIC); ONTAM); and o) aeronautical charts.		One copy of each of the elements of the Integrated Aeronautical Information Package that have been requested by the AIS of a Contracting State shall be made available by the originating State in the mutually-agreed form(s), without charge, even where authority for publication/storage and distribution has been delegated to a non-governmental agency.	Replacement of IAIP with "Aeronautical Information Products" / New standard indicates elements of AI Products that shall be available to other States' AIS
2.3.8	When aeronautical data and aeronautical information are provided in the form of digital data sets to be used by the AIS, they shall be provided on the basis of			NEW Standard
2.3.10	agreement between the Contracting States concerned. Globally interoperable aeronautical data and aeronautical information exchange models shall be used for the provision of data sets.		-	NEW Standard
2.4.1	Any aeronautical information product which has been granted copyright protection by the originating State and provided to another State in accordance with 2.3 shall only be made available to a third party on the condition that the third party is made aware that the product is copyright protected and provided that it is appropriately annotated that the product is subject to copyright product is subject to copyright product.		Any product of a State's AIS which has been granted copyright protection by that State and provided to another State in accordance with 2.3 shall only be made available to a third party on the condition that the third party is made aware that the product is copyright protected and provided that it is appropriately annotated that the product is subject to copyright by the originating State.	
2.4.2	When aeronautical data and aeronautical information are provided to a State in accordance with 2.3.8, the receiving State shall not provide the digital data sets of the providing State to any third party without the consent of the providing State.		•	NEW Standard

CHAPTER 3: AERONAUTICAL INFORMATION MANAGEMENT

16th Edi	tion	15th Ed	ition	Assessment
	Text of Standard		Text of Standard	
3.2.1	aeronautical information service (AIS) shall be adequate to ensure the timely collection, processing, storing, integration, exchange and delivery of quality-assured aeronautical data and aeronautical information within the air traffic management (ATM) system. The order of accuracy for aeronautical data shall be in accordance with its intended		The information management resources and processes established by an aeronautical information service (AIS) shall be adequate to ensure the timely collection, processing, storing, integration, exchange and delivery of quality-assured aeronautical data and aeronautical information within the air traffic management (ATM) system. The order of accuracy for aeronautical data shall be as specified in Annex 11,	No significant change / minor editorial amendment Reference of order of accuracy to Annex 11 and 14
	use.		Chapter 2, and Annex 14, Volumes I and II, Chapter 2. In that respect, three types of positional data shall be identified: surveyed points (runway thresholds, navigation aid positions, etc.), calculated points (mathematical calculations from the known surveyed points of points in space/fixes) and declared points (e.g. flight information region boundary points).	removed Three types of positional data removed
3.2.2	The order of resolution of aeronautical data shall be commensurate with the actual data accuracy.	3.3.2.1	The order of publication resolution of aeronautical data shall be as specified in Appendix 7.	Reference of order of resolution to App 7 removed
3.2.3.1	The integrity of aeronautical data shall be maintained throughout the data chain from origination to distribution to the next intended user.	3.3.3.2	The integrity of aeronautical data shall be maintained throughout the data process from survey/origin to distribution to the next intended user (the entity that receives the aeronautical information from the AIS provider).	Using the term "Data Chain"
3.2.3.2	Based on the applicable integrity classification, procedures shall be put in place in order to: a) for routine data: avoid corruption throughout the processing of the data; b) for essential data: assure corruption does not occur at any stage of the entire process and include additional processes as needed to address potential risks in the overall system architecture to further assure data integrity at this level; and c) for critical data: assure corruption does not occur at any stage of the entire process and include additional integrity assurance processes to fully mitigate the effects of faults identified by thorough analysis of the overall system architecture as potential data integrity risks.		Based on the applicable integrity classification, the validation and verification procedures shall: a) for routine data: avoid corruption throughout the processing of the data; b) for essential data: assure corruption does not occur at any stage of the entire process and include additional processes as needed to address potential risks in the overall system architecture to further assure data integrity at this level; and c) for critical data: assure corruption does not occur at any stage of the entire process and include additional integrity assurance processes to fully mitigate the effects of faults identified by thorough analysis of the overall system architecture as potential data integrity risks.	Replacement of the term "verification procedure" instead of "procedure"
3.2.4	Traceability of aeronautical data shall be ensured and retained as long as the data is in use.			NEW Standard
3.2.5	is in use. Timeliness of aeronautical data shall be ensured by including limits on the effective period of the data elements.			NEW Standard
3.2.6	Completeness of aeronautical data shall be ensured in order to support its			NEW Standard
3.2.7	intended use. The format of delivered aeronautical data shall be adequate to ensure that the data is interpreted in a manner that is consistent with its intended use.		===	NEW Standard
3.3.1	Material to be issued as part of an aeronautical information product shall be thoroughly checked before it is submitted to the AIS in order to ensure that all necessary information has been included and that it is correct in detail.		Material to be issued as part of the Integrated Aeronautical Information Package shall be thoroughly checked before it is submitted to the AIS, in order to make certain that all necessary information has been included and that it is correct in detail prior to distribution.	Replacement of IAIP with "Aeronautical Information Products"
3.3.2	An AIS shall establish verification and validation procedures which ensure that upon receipt of aeronautical data and aeronautical information, quality requirements are met.	3.2.2	An AIS shall establish verification and validation procedures which ensure that upon receipt of aeronautical data and aeronautical information, quality requirements (accuracy, resolution, integrity and traceability) are met.	The prantheses deleted (elements of quality requirements deleted, as they are expanded in the new provisions)
3.4.1	Digital data error detection techniques shall be used during the transmission and/or storage of aeronautical data and digital data sets.	3.5.1	Aeronautical data and data sets shall be protected in accordance with data error detection, security, and authentication techniques.	re-worded + "data" replaced by "digital data"
3.4.2	Digital data error detection techniques shall be used in order to maintain the integrity levels as specified in 3.2.3.		Electronic aeronautical data sets shall be protected by the inclusion in the data sets of a 32-bit cyclic redundancy check (CRC) implemented by the application dealing with the data sets. This shall apply to the protection of the integrity classification of data sets as specified in 3.3.3.	CRC has been removed
3.5.1	Automation shall be applied in order to ensure the quality, efficiency and cost- effectiveness of aeronautical information services.	3.6.1	Automation shall be introduced with the objective of improving the timeliness, quality, efficiency and costeffectiveness of aeronautical information services.	Automation shall be "applied" (instead of "introduced")
3.5.2	Due consideration to the integrity of data and information shall be given when automated processes are implemented and mitigating steps taken where risks are identified.			NEW Standard
3.5.3	aeronautical data exchange between the parties involved in the data processing chain; and b) use aeronautical information exchange models and data exchange models designed to be globally interoperable.		In order to meet the data quality requirements, automation shall: a) enable digital aeronautical data exchange between the parties involved in the data processing chain; and b) use aeronautical information exchange models and data exchange models designed to be globally interoperable.	No significant change / minor editorial amendment
3.6.1	Quality management systems shall be implemented and maintained encompassing all functions of an AIS, as outlined in 2.2. The execution of such quality management systems shall be made demonstrable for each function stage.		Quality management systems shall be implemented and maintained encompassing all functions of an AIS, as outlined in 2.2. The execution of such quality management systems shall be made demonstrable for each function stage.	No significant change / minor editorial amendment
3.6.4	Within the context of the established quality management system, the competencies and the associated knowledge, skills and abilities required for each function shall be identified, and personnel assigned to perform those functions shall be appropriately trained. Processes shall be in place to ensure that personnel possess the competencies required to perform specific assigned functions. Appropriate records shall be maintained so that the qualifications of personnel can be confirmed. Initial and periodic assessments shall be established that require personnel to demonstrate the required competencies. Periodic assessments of personnel shall be used as a means to detect and correct shortfalls in knowledge, skills and abilities.		Within the context of the established quality management system, the competencies and the associated knowledge, skills and abilities required for each function shall be identified, and personnel assigned to perform those functions shall be appropriately trained. Processes shall be in place to ensure that personnel possess the competencies required to perform specific assigned functions. Appropriate records shall be maintained so that the qualifications of personnel can be confirmed. Initial and periodic assessments shall be established that require personnel to demonstrate the required competencies. Periodic assessments of personnel shall be used as a means to detect and correct shortfalls.	No significant change / minor editorial amendment
	Each quality management system shall include the necessary policies, processes and procedures, including those for the use of metadata, to ensure and verify that aeronautical data is traceable throughout the aeronautical information data chain so as to allow any data anomalies or errors detected in use to be identified by root cause, corrected and communicated to affected users.		Each quality management system shall include the necessary policies, processes and procedures, including those for the use of metadata, to ensure and verify that aeronautical data are traceable throughout the aeronautical information data chain so as to allow any data anomalies or errors detected in use to be identified by root cause, corrected and communicated to affected users.	
3.6.6	The established quality management system shall provide users with the necessary assurance and confidence that distributed aeronautical data and aeronautical information satisfy the aeronautical data quality requirements.		The established quality management system shall provide users with the necessary assurance and confidence that distributed aeronautical data and aeronautical information satisfy the aeronautical data quality requirements for accuracy, resolution and integrity as specified in 3.2 and 3.3 and that the data traceability requirements are met through the provision of appropriate metadata as specified in 3.4. The system shall also provide assurance of the applicability period of intended use of aeronautical data and aeronautical information a well as that the accend distribution dates will be met.	Second part removed
3.6.7	All necessary measures shall be taken to monitor compliance with the quality management system in place.	3.7.7	All necessary measures shall be taken to monitor compliance with the quality management system in place.	No significant change / minor editorial amendment
3.6.8		3.7.8		No significant change / minor editorial amendment
3.7.1	The organization of an AIS as well as the design, contents, processing and distribution of aeronautical data and aeronautical information shall take into consideration human factors principles which facilitate their optimum utilization.		The organization of an AIS as well as the design, contents, processing and distribution of aeronautical data and aeronautical information shall take into consideration human factors principles which facilitate their optimum utilization.	No significant change / minor editorial amendment
3.7.2	Due consideration shall be given to the integrity of information where human interaction is required and mitigating steps taken where risks are identified.	3.8.2	Due consideration shall be given to the integrity of information where human interaction is required and mitigating steps taken where risks are identified.	No significant change / minor editorial amendment

CHAPTER 4: SCOPE OF AERONAUTICAL DATA AND AERONAUTICAL INFORMATION

16th Edi	16th Edition		lition	Assessment
Para No.	Text of Standard	Para. No.	Text of Standard	
	The aeronautical data and aeronautical information to be received and managed by the aeronautical information service (AIS) shall include at least the following sub domains: a) national regulations, rules and procedures; b) aerodromes and heliports; c) airspace; d) air traffic services (ATS) routes; e) instrument flight procedures; f) radio navigation aids/systems; g) obstacles; h) terrain; and i) geographic information.			NEW Standard
	Determination and reporting of aeronautical data shall be in accordance with the accuracy and integrity classification required to meet the needs of the end-user of aeronautical data.			NEW Standard
4.2.1	Metadata shall be collected for aeronautical data processes and exchange points.		Metadata shall be collected for aeronautical data processes and exchange points. This metadata collection shall be applied throughout the aeronautical information data chain, from survey/origin to distribution to the next intended user.	No significant change / minor editorial amendment
4.2.2	Metadata collection shall be applied throughout the aeronautical information data chain, from origination to distribution to the next intended user.			No significant change / minor editorial amendment

			ITICAL INFORMATION PRODUCTS AND SERVICES	
16th Edi Para No.	tion Text of Standard	15th Ed	ition Text of Standard	Assessment
		raia. IVO.	Text of Standard	
5.1.1	Aeronautical information shall be provided in the form of aeronautical information products and associated services.			NEW Standard
5.1.2	When aeronautical data and aeronautical information are provided in multiple	3.6.2	Where aeronautical data and aeronautical information are provided in multiple	No significant change / minor editorial amendment
	formats, processes shall be implemented to ensure data and information consistency between formats.		formats, processes shall be implemented to ensure data and information consistency between formats.	
5.2.1	Aeronautical information provided in a standardized presentation shall include the			NEW Standard
	aeronautical information publication (AIP), AIP Amendments, AIP Supplements, AIC, NOTAM and aeronautical charts.			
5.2.1.1	The AIP, AIP Amendment, AIP Supplement and AIC shall be provided on paper			NEW Standard
5.2.2	and/or as an electronic document. AIP shall include: a) a statement of the competent authority responsible for the air	4.1.2	AIP shall include in Part 1 — General (GEN): a) a statement of the competent	No significant change / minor editorial amendment
	navigation facilities, services or procedures covered by the AIP; b) the general conditions under which the services or facilities are available for international use;		authority responsible for the air navigation facilities, services or procedures covered by the AIP; b) the general conditions under which the services or facilities are	
	c) a list of significant differences between the national regulations and practices of		available for international use; c) a list of significant differences between the	
	the State and the related ICAO Standards, Recommended Practices and		national regulations and practices of the State and the related ICAO Standards,	
	Procedures, given in a form that would enable a user to differentiate readily between the requirements of the State and the related ICAO provisions; d) the		Recommended Practices and Procedures, given in a form that would enable a user to differentiate readily between the requirements of the State and the related ICAO	
	choice made by a State in each significant case where an alternative course of action is provided for ICAO Standards, Recommended Practices and Procedures.		provisions; d) the choice made by a State in each significant case where an alternative course of action is provided for in ICAO Standards, Recommended	
	· ·		Practices and Procedures.	Control of the contro
5.2.3	A checklist of valid AIP Supplements shall be regularly provided.	4.4.6	A checklist of valid AIP Supplements shall be issued at intervals of not more than one month. This information shall be issued through the medium of the monthly plain-	Frequency of the checklist of AIP Supplements changed from "not more than one month" to "regularly". Second
			language list of valid NOTAM required by 5.2.13.3.	part (related to List of Valid NOTAM) removed.
5.2.4.1	An AIC shall be used to provide: a) a long-term forecast of any major change in	7.1.1.1	7.1.1.1 An AIC shall be originated whenever it is desirable to promulgate: a) a long-	No significant change / minor editorial amendment
	legislation, regulations, procedures or facilities; or b) information of a purely		term forecast of any major change in legislation, regulations, procedures or facilities; b) information of a purely explanatory or advisory nature liable to affect	
	explanatory or advisory nature liable to affect flight safety; or c) information or notification of an explanatory or advisory nature concerning technical, legislative or		flight safety; c) information or notification of an explanatory or advisory nature	
	purely administrative matters.		concerning technical, legislative or purely administrative matters. This shall include: 1) forecasts of important changes in the air navigation procedures, services and	
			facilities provided; 2) forecasts of implementation of new navigation systems; 3)	
			significant information arising from aircraft accident/incident investigation which has a bearing on flight safety; 4) information on regulations relating to the	
			safeguarding of international civil aviation against acts of unlawful interference; 5)	
			advice on medical matters of special interest to pilots; 6) warnings to pilots concerning the avoidance of physical hazards; 7) effect of certain weather	
			phenomena on aircraft operations; 8) information on new hazards affecting aircraft	
			handling techniques; 9) regulations relating to the carriage of restricted articles by	
			air; 10) reference to the requirements of, and publication of changes in, national legislation; 11) aircrew licensing arrangements; 12) training of aviation personnel;	
			13) application of, or exemption from, requirements in national legislation; 14)	
			advice on the use and maintenance of specific types of equipment; 15) actual or planned availability of new or revised editions of aeronautical charts; 16) carriage of	
			communication equipment;	
			17) explanatory information relating to noise abatement; 18) selected airworthiness directives; 19) changes in NOTAM series or distribution, new editions of AIP or	
			major changes in their contents, coverage or format; 20) advance information on	
5.2.4.2	An AIC shall not be used for information that qualifies for inclusion in AIP and NOTAM.	7.1.1	An AIC shall be originated whenever it is necessary to promulgate aeronautical information which does not qualify: a) under the specifications in 4.1 for inclusion in	No significant change / minor editorial amendment
			an Aeronautical Information Publication (AIP); or b) under the specifications in 5.1	
			for the origination of a NOTAM.	
5.2.4.3	The validity of AIC currently in force shall be reviewed at least once a year.			NEW Standard
5.2.4.4	A checklist of currently valid AIC shall be regularly provided.	7.2.5	A checklist of AIC currently in force shall be issued at least once a year, with distribution as for the AIC.	Frequency of the checklist of AIC changed from "at least once a year" to "regularly". Second part (related to
				distribution as AIC) removed.
5.2.5.1	The aeronautical charts listed below shall, when available for designated international aerodromes/heliports, form part of the AIP, or be provided separately	4.1.3	The aeronautical charts listed alphabetically below shall, when available for designated international aerodromes/heliports, form part of the AIP, or be	Added: Aerodrome Obstacle Chart — ICAO Type B (when available);
	to recipients of the AIP:		distributed separately to recipients of the AIP:	
	a) Aerodrome/Heliport Chart — ICAO; b) Aerodrome Ground Movement Chart — ICAO;		a) Aerodrome/Heliport Chart — ICAO; b) Aerodrome Ground Movement Chart — ICAO;	
	c) Aerodrome Obstacle Chart — ICAO Type A; d) Aerodrome Obstacle Chart —		c) Aerodrome Obstacle Chart — ICAO Type A;	
	ICAO Type B (when available); e) Aerodrome Terrain and Obstacle Chart — ICAO (Electronic);		d) Aerodrome Terrain and Obstacle Chart — ICAO (Electronic); e) Aircraft Parking/Docking Chart — ICAO;	
	f) Aircraft Parking/Docking Chart — ICAO;		f) Area Chart — ICAO;	
	g) Area Chart — ICAO; h) ATC Surveillance Minimum Altitude Chart — ICAO;		g) ATC Surveillance Minimum Altitude Chart — ICAO; h) Instrument Approach Chart — ICAO;	
	i) Instrument Approach Chart — ICAO;		i) Precision Approach Terrain Chart — ICAO;	
	j) Precision Approach Terrain Chart — ICAO; k) Standard Arrival Chart — Instrument (STAR) — ICAO;		j) Standard Arrival Chart — Instrument (STAR) — ICAO; k) Standard Departure Chart — Instrument (SID) — ICAO;	
	I) Standard Departure Chart — Instrument (SID) — ICAO; and		I) Visual Approach Chart — ICAO.	
5.2.5.2	m) Visual Approach Chart — ICAO. The Enroute Chart — ICAO shall, when available, form part of the AIP, or be			NEW Standard
5.2.5.3	provided separately to recipients of the AIP. The aeronautical charts listed below shall, when available, be provided as			NEW Standard
J.L.J.J	aeronautical information products:			INCAV Stalluaru
	a) World Aeronautical Chart — ICAO 1:1 000 000; b) Aeronautical Chart — ICAO 1:500 000;			
	c) Aeronautical Navigation Chart — ICAO Small Scale; and			
5.2.5.5	d) Plotting Chart — ICAO chart. The chart resolution of aeronautical data shall be that as specified for a particular			NEW Standard
	chart.			
5.2.6	A checklist of valid NOTAM shall be regularly provided.	5.2.13	A checklist of valid NOTAM shall be issued as a NOTAM over the aeronautical fixed service (AFS) at intervals of not more than one month using the NOTAM Format	Frequency of the checklist of valid NOTAM changed from "not more than one month" to "regularly". Part related
			specified in Appendix 6. One NOTAM shall be issued for each series.	to distribution as NOTAM removed.
5.3.1.1	Digital data shall be in the form of the following data sets:			NEW Standard
	a) AIP data set;			
	b) terrain data sets; c) obstacle data sets;			
	d) aerodrome mapping data sets; and			
5.3.1.2	e) instrument flight procedure data sets. Each data set shall be provided to the next intended user together with at least			NEW Standard
	the minimum set of metadata that ensures traceability.			
5.3.1.3 5.3.2.3	A checklist of valid data sets shall be regularly provided. The AIP data set shall contain the digital representation of aeronautical			NEW Standard NEW Standard
	information of lasting character (permanent information and long duration			
	temporary changes) essential to air navigation.			

5.3.3.1	The coverage areas for terrain and obstacle data sets shall be specified as:	10.1.1	The coverage areas for sets of electronic terrain and obstacle data shall be specified	No significant change / minor editorial amendment
	— Area 1: the entire territory of a State; — Area 2: within the vicinity of an aerodrome, subdivided as follows:		as: — Area 1: the entire territory of a State;	
	Area 2a: within the vicinity of an aerodrome, subdivided as follows: Area 2a: a rectangular area around a runway that comprises the runway strip		Area 1: the entire territory of a state; Area 2: within the vicinity of an aerodrome, subdivided as follows:	
	plus any clearway that exists;		Area 2a: a rectangular area around a runway that comprises the runway strip plus	
	Note. — See Annex 14, Volume I, Chapter 3, for dimensions for runway strips.		any clearway that exists;	
	— Area 2b: an area extending from the ends of Area 2a in the direction of		Note. — See Annex 14, Volume I, Chapter 3, for dimensions for runway strip.	
	departure, with a length of 10 km and a splay of 15 per cent to each side; — Area 2c: an area extending outside Area 2a and Area 2b at a distance of not		 Area 2b: an area extending from the ends of Area 2a in the direction of departure, with a length of 10 km and a splay of 15 per cent to each side; 	
	more than 10 km from the boundary of Area 2a; and		Area 2c: an area extending outside Area 2a and Area 2b at a distance of not more	
	— Area 2d: an area outside Areas 2a, 2b and 2c up to a distance of 45 km from the		than 10 km from the boundary of Area 2a; and	
	aerodrome reference point, or to an existing terminal control area (TMA)		— Area 2d: an area outside the Areas 2a, 2b and 2c up to a distance of 45 km from	
	boundary, whichever is nearest;		the aerodrome reference point, or to an existing terminal control area (TMA)	
	 Area 3: the area bordering an aerodrome movement area that extends horizontally from the edge of a runway to 90 m from the runway centre line and 50 		boundary, whichever is nearest; — Area 3: the area bordering an aerodrome movement area that extends	
	m from the edge of all other parts of the aerodrome movement area; and		horizontally from the edge of a runway to 90 m from the runway centre line and 50	
	— Area 4: the area extending 900 m prior to the runway threshold and 60 m each		m from the edge of all other parts of the aerodrome movement area; and	
	side of the extended runway centre line in the direction of the approach on a		— Area 4: The area extending 900 m prior to the runway threshold and 60 m each	
5.3.3.3.1	Terrain data sets shall contain the digital representation of the terrain surface in	10.2.1	A terrain data set shall contain digital sets of data representing terrain surface in the	No significant change / minor editorial amendment
	the form of continuous elevation values at all intersections (points) of a defined		form of continuous elevation values at all intersections (points) of a defined grid,	
	grid, referenced to common datum.		referenced to common datum. A terrain grid shall be angular or linear and shall be	
5.3.3.3.2	Terrain data shall be provided for Area 1.	10.1.3	of regular or irregular shape. Electronic terrain data shall be provided for Area 1.	No significant change / minor editorial amendment
5.3.3.3.3	For aerodromes regularly used by international civil aviation, terrain data shall be		At aerodromes regularly used by international civil aviation, electronic terrain data	No significant change / minor editorial amendment No significant change / minor editorial amendment
	provided for:		shall be provided for:	
	a) Area 2a;		a) Area 2a;	
	b) the take-off flight path area; and		b) the take-off flight path area; and	
	c) an area bounded by the lateral extent of the aerodrome obstacle limitation surfaces.		c) an area bounded by the lateral extent of the aerodrome obstacle limitation surfaces.	
5.3.3.3.8	For aerodromes regularly used by international civil aviation, terrain data shall be	10.1.9	At aerodromes regularly used by international civil aviation, electronic terrain and	No significant change / minor editorial amendment
2.3.0	provided for Area 4 for all runways where precision approach Category II or III		obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate	,
	operations have been established and where detailed terrain information is		the relevant obstacle data collection surface specified in Appendix 8, for all runways	
	required by operators to enable them to assess the effect of terrain on decision		where precision approach Category II or III operations have been established and	
	height determination by use of radio altimeters.		where detailed terrain information is required by operators to enable them to	
5.3.3.4.1	Obstacle data sets shall contain the digital representation of the vertical and	10.3.1	assess the effect of terrain on decision height determination by use of radio Obstacle data shall comprise the digital representation of the vertical and horizontal	No significant change / minor editorial amendment
	horizontal extent of obstacles.	10.3.1	extent of the obstacle. Obstacles shall not be included in terrain data sets. Obstacle-	2-8-meant change / minor cultorial amenument
			data elements are features that shall be represented in the data sets by points, lines	
			or polygons.	
5.3.3.4.2 5.3.3.4.3	Obstacle data shall not be included in terrain data sets. Obstacle data shall be provided for obstacles in Area 1 whose height is 100 m or	10.1.3	The obstacle data shall be provided for obstacles in Area 1 higher than 100 m above	No significant change / minor editorial amendment
J.J.3.4.3	higher above ground.	20.1.3	ground.	35 Significant change / minor eutroridi amenument
5.3.3.4.4	For aerodromes regularly used by international civil aviation, obstacle data shall be	10.1.4	At aerodromes regularly used by international civil aviation, electronic obstacle data	No significant change / minor editorial amendment
	provided for all obstacles within Area 2 that are assessed as being a hazard to air		shall be provided for all obstacles within Area 2 that are assessed as being a hazard	
	navigation.	40.4	to air navigation.	No. 25 of Control of Control
5.3.3.4.5	For aerodromes regularly used by international civil aviation, obstacle data shall be provided for:	10.1.6	At aerodromes regularly used by international civil aviation, electronic obstacle data shall be provided for:	No significant change / minor editorial amendment
	a) Area 2a for those obstacles that penetrate an obstacle data collection surface		a) Area 2a for those obstacles that penetrate the relevant obstacle data collection	
	outlined by a rectangular area around a runway that comprises the runway strip		surface specified in Appendix 8;	
	plus any clearway that exists. The Area 2a obstacle collection surface shall have a		b) objects in the take-off flight path area which project above a plane surface having	
	height of 3 m above the nearest runway elevation measured along the runway		a 1.2 per cent slope and having a common origin with the take-off flight path area;	
	centre line, and for those portions related to a clearway, if one exists, at the		and	
	elevation of the nearest runway end; b) objects in the take-off flight path area which project above a plane surface		c) penetrations of the aerodrome obstacle limitation surfaces.	
	elevation or the nearest runway end; b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight		c) penetrations of the aerodrome obstacle limitation surfaces.	
	 b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and 		c) penetrations of the aerogrome obstacle limitation surfaces.	
5 2 2 4 4 0	 b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and c) penetrations of the aerodrome obstacle limitation surfaces. 	10.1.9		No simificant change / minor addard amandment
5.3.3.4.10	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and cl. enentrations of the aerodrome obstacle limitation surfaces.	10.1.9	At aerodromes regularly used by international civil aviation, electronic terrain and	No significant change / minor editorial amendment
5.3.3.4.10	 b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and c) penetrations of the aerodrome obstacle limitation surfaces. 	10.1.9		No significant change / minor editorial amendment
5.3.3.4.10	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and chenetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III	10.1.9	At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and	No significant change / minor editorial amendment
5.3.3.4.10	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and chenetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III	10.1.9	At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to	No significant change / minor editorial amendment
	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and cl penetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III operations have been established.		At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to assess the effect of terrain on decision height determination by use of radio	
5.3.4.10 5.3.4.1	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and chenetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III operations have been established. Aerodrome mapping data sets shall contain the digital representation of		At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to assess the effect of terrain on decision height determination by use of radio Aerodrome mapping data sets shall contain serodrome mapping data consisting of	No significant change / minor editorial amendment No significant change / minor editorial amendment
	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and cl penetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III operations have been established.		At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to assess the effect of terrain on decision height determination by use of radio	
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5.3.4.1 5.3.5.1 5.4.1.1	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and cloenetrations of the aerodrome obstacle limitation surfaces. For aerodromes regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III operations have been established. Aerodrome mapping data sets shall contain the digital representation of aerodrome features. Instrument flight procedure data sets shall contain the digital representation of instrument flight procedures. Aeronautical information products shall be distributed to authorized users who request them.	11.3.2	At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all runways where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to assess the effect of terrain on decision height determination by use of radio Aerodrome mapping data sets shall contain aerodrome mapping data consisting of aerodrome features.	No significant change / minor editorial amendment NEW Standard NEW Standard
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5.3.4.1 5.3.5.1 5.4.1.1 5.4.1.2	b) objects in the take-off flight path area which project above a plane surface having a 1.2 per cent slope and having a common origin with the take-off flight path area; and cloenetrations of the aerodrome obstacle limitation surfaces. For aerodrome regularly used by international civil aviation, obstacle data shall be provided for Area 4 for all runways where precision approach Category II or III operations have been established. Aerodrome mapping data sets shall contain the digital representation of aerodrome features. Instrument flight procedure data sets shall contain the digital representation of instrument flight procedures. Aeronautical information products shall be distributed to authorized users who request them. AIP, AIP Amendments, AIP Supplements and AIC shall be made available by the most expeditious means.	11.3.2	At aerodromes regularly used by international civil aviation, electronic terrain and obstacle data shall be provided for Area 4 for terrain and obstacles that penetrate the relevant obstacle data collection surface specified in Appendix 8, for all nursely where precision approach Category II or III operations have been established and where detailed terrain information is required by operators to enable them to assess the effect of terrain on decision height determination by use of radio Aerodrome mapping data sets shall contain aerodrome mapping data consisting of aerodrome features. ———————————————————————————————————	No significant change / minor editorial amendment NEW Standard NEW Standard No significant change / minor editorial amendment
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5.6.3	For any aerodrome/heliport used for international air operations, arrangements	8.3.2	Arrangements shall be made to receive at aerodromes/heliports information	re-worded
	shall be made to receive information concerning the presence of wildlife hazards		concerning the presence of birds observed by aircrews and shall ensure that such	
	observed by flight crews.		information is made available to the AIS for such distribution as the circumstances	
5.6.4	4 The information about presence of wildlife hazards shall be made available to the		necessitate.	re-worded
	aeronautical information service for distribution as the circumstances necessitate.			

	CHAPTER 6: AERONAUTICAL INFORMATION UPDATES					
16th Edi		15th Ed		Assessment		
Para No.	Text of Standard	Para. No.	Text of Standard			
6.1	Aeronautical data and aeronautical information shall be kept up to date.		***	NEW Standard		
6.2.1	Information concerning the following circumstances shall be distributed under the regulated system (AIRAC), i.e. basing establishment, withdrawal or significant changes upon a series of common effective dates at intervals of 28 days, including 8 November 2018: a) limits (horizontal and vertical), regulations and procedures applicable to:1) flight information regions; 2) control areas; 3) control zones; 4) advisory areas; 5) air traffic sevrices (ATS) routes; 6) permanent danger, prohibited and restricted areas (including type and periods of activity when known) and air defence identification zones (ADIZ); 7) permanent areas or routes or portions thereof where the possibility of interception esists; b) positions, frequencies, call signs, identifiers, known irregularities and maintenance periods of radio navigation aids, and communication and surveillance facilities; c) holding and approach procedures, arrival and departure procedures, noise abatement procedures and any other pertinent ATS procedures; d) transition levels, transition altitudes and minimum sector altitudes; e) meteorological facilities (including broadcasts) and procedures; f) runways and stopways; g) taxiways and approns; h) aerodrome		Information concerning the circumstances listed in Appendix 4, Part 1, shall be distributed under the regulated system (AIRAC), i.e. basing establishment, withdrawal or significant changes upon a series of common effective dates at intervals of 28 days, including 14 January 2010.	re-worded & Appendix 4 added to the standard		
	ground operating procedures (including low visibility procedures); i) approach and	App. 4	Appendix 4 (Information to be notified by AIRAC)			
6.2.2	The information notified under the AIRAC system shall not be changed further for at least another 28 days after the effective date, unless the circumstance notified is of a temporary nature and would not persist for the full period.	6.1.1	The information notified therein shall not be changed further for at least another 28 days after the effective date, unless the circumstance notified is of a temporary nature and would not persist for the full period.	No significant change / minor editorial amendment		
6.2.3	information provided under the AIRAC system shall be made available by the aeronautical information service (AIS) so as to reach recipients at least 28 days in advance of the effective date.	6.2.1	Information provided under the AIRAC system in paper copy form shall be distributed by the AIS unit at least 42 days in advance of the effective date with the objective of reaching recipients at least 28 days in advance of the effective date. Information provided as electronic media, concerning the circumstances listed in Appendix 4, Part 1, shall be distributed/made available by the AIS unit so as to reach recipients at least 28 days in advance of the AIRAC effective date.	The statement of 42 days removed & for any kind of information provided under AIRAC system, the standard is to reach recipients at least 28 days in advance of the effective date.		
6.2.4	When information has not been submitted by the AIRAC date, a NIL notification shall be distributed not later than one cycle before the AIRAC effective date concerned.	6.1.3	When information has not been submitted by the AIRAC date, a NIL notification shall be originated and distributed by NOTAM or other suitable means, not later than one cycle before the AIRAC effective date concerned.			
6.2.5	Implementation dates other than AIRAC effective dates shall not be used for pre- planned operationally significant changes requiring cartographic work and/or for updating of navigation databases.	6.1.4	Implementation dates other than AIRAC effective dates shall not be used for pre- planned operationally significant changes requiring cartographic work and/or for updating of navigation databases.	No significant change / minor editorial amendment		
6.3.1.1	The aeronautical information publication (AIP) shall be amended or reissued at such regular intervals as may be necessary to keep it up to date.	4.2.9	AIP shall be amended or reissued at such regular intervals as may be necessary to keep them up to date. Recourse to hand amendments or annotations shall be kept to the minimum. The normal method of amendment shall be by means of replacement sheets.	No significant change / minor editorial amendment		
6.3.1.2	Permanent changes to the AIP shall be published as AIP Amendments.	4.3.1	Permanent changes to the AIP shall be published as AIP Amendments.	No significant change / minor editorial amendment		
6.3.1.3	Temporary changes of long duration (three months or longer) and information of short duration which contains extensive text and/or graphics shall be published as AIP Supplements.	4.4.1	Temporary changes of long duration (three months or longer) and information of short duration which contains extensive text and/or graphics shall be published as AIP Supplements.	No significant change / minor editorial amendment		
6.3.2.1	When an AIP Amendment or an AIP Supplement is published in accordance with AIRAC procedures, a Trigger NOTAM shall be originated.	5.1.1.6	When an AIP Amendment or an AIP Supplement is published in accordance with AIRAC procedures, a NOTAM shall be originated giving a brief description of the contents, the effective date and time, and the reference number of the amendment or supplement. This NOTAM shall come into force on the same effective date and time as the amendment or supplement and shall remain valid in the pre-flight information bulletin for a period of fourteen days.	The term "Trigger NOTAM" is used instead of explanation.		
6.3.2.2	A NOTAM shall be originated and issued promptly whenever the information to be distributed is of a temporary nature and of short duration, or when operationally significant permanent changes or temporary changes of long duration are made at short notice, except for extensive text and/or graphics.			No significant change / minor editorial amendment		
6.3.2.3	A NOTAM shall be originated and issued concerning the following information: a lestablishment, closure or significant changes in operation of aerodrome(s) or heliport(s) or runways, b) establishment, withdrawal or significant changes in operation of averonautical services (aerodromes, AIS, ATS, communications, navigation and surveillance (CNS), meteorology (MET), search and rescue (SAR), etc.); c) establishment, withdrawal or significant changes in operational capability of radio navigation and air-ground communication services. This includes: interruption or return to operation, change of frequencies, change in notified hours of service, change of identification, change of foreitation (directional aids), change of location, power increase or decrease amounting to Sp erc ent or more, change in broadcast schedules or contents, or irregularity or unreliability of operation of any radio navigation and air-ground communication services or limitations of relay stations including operational impact, affected service, frequency and area; d) unavailability of back-up and secondary systems, having a direct operational impact; e) establishment, withdrawal or significant changes to visual aids; f) interruption of or return to operation of major components of aerodrome lighting systems; g) establishment, withdrawal or significant changes to procedures for air navigation or services; h) occurrence or correction of major description of availability of fuel, oil and oxygen; j) major changes to and limitations on availability of fuel, oil and oxygen; j) major changes to and limitations on fazard beacons marking obstacles to air navigation (chuding obstacles, military exercises, displays fireworks, sky lanterns, rocket debris, races and major parachuting events outside promulgated sizes; n) planned laser emissions, laser displays and search lights if pilots' night vision is likely to be impaired; o) erecting or removal of, or changes to		A NOTAM shall be originated and issued concerning the following information: a) establishment, closure or significant changes in operation of aeronautical services (AGA, AIS, ATS, CNS, MET, SAR, etc.); c) establishment, withdrawal and significant changes in operation of aeronautical services (AGA, AIS, ATS, CNS, MET, SAR, etc.); c) establishment, withdrawal and significant changes in operational capability of or return to operation, change of frequencies, change in notified hours of service, change of identification, etc. ange of orientation (directional aids), change of location, power increase or decrease amounting to 50 per cent or more, change in broadcast schedules or contents, or irregularity or unreliability of operation of any radio navigation and air-ground communication services; d) establishment, withdrawal or significant changes made to visual aids; e) interruption of or return to operation of major components of aerodrome lighting systems; f) establishment, withdrawal or significant changes made to procedures for air navigation services; g) occurrence or correction of major defects or impediments in the manoeuvring area; h) changes to operation of hazard beacons marking obstacles to air navigation; k) changes to operation of hazard beacons marking obstacles to air navigation; k) changes in regulations requiring immediate action, e.g. prohibited areas for SAR action; l) presence of hazards which affect air navigation (including obstacles, military exercises, displays, races and major parachuting events outside promulgated sites); m) erecting or removal of, or changes to, obstacles to air navigation in the take-officinity, missed approach, approach areas and runway strip; n) establishment or discontinuance (including activation or deactivation) as applicable, or changes in testatus of prohibited, restricted or danger areas; o) establishment or discontinuance (including activation or deactivation) as applicable, or changes is the status of prohibited, restricted or danger areas; o) establishment or di			

necessary to keep them up to date. 6.3.3.2 Permanent changes and temporary changes of long duration (three months or longer) made available as digital data shall be issued in the form of a complete data set or a subset that includes only the differences from the previously issued complete data set.	6.3.2.4	The following information shall not be notified by NOTAM: a) routine maintenance	5.1.1.3	5.1.1.3 The following information shall not be notified by NOTAM: a) routine	Added items i to r
on other available runways, or the equipment used can be removed when necessary; c) temporary obstructions in the vicinity of aerodromes/heliports that do not affect the safe operation of aircraft; d) partial failure of aerodrome/heliport lighting facilities where such failure does not directly affect aircraft operations; e) apartial temporary failure of air-ground communications when suitable alternative frequencies are known to be available and are operative; f) the lack of apron marshalling services and road traffic controls; g) the unserviceability of location, destination or other instruction signs on the aerodrome movement area; h) parachuting when in uncontrolled airspace under VR (see 6.3.2.3 mi), when controlled, at promulgated sites or within danger or prohibited areas; i) training activities by ground units; j) unavailability of because the seed on thave an operational impact; h) altional regulations not affecting general avaition; m) announcement or warnings about possible/potential limitations, without any operational impact; p) altional regulations not affecting general avaition; m) announcement or warnings about possible/potential limitations, without any operational impact; n) containing information on the operational impact; n) containing information; o availability of equipment for ground units without containing information; o availability of equipment for ground units without containing information; o availability of equipment for ground units without any operational impact; n) connection with planned work locally coordinated of duration of less than on hour; r) closure or unavailability of, rehapses in operation of aerodrome heliport (gibring facilities where such failure does not directly affect also aircraft; d) partial failure of aerodrome/heliport lighting facilities where such failure does not directly affect as aircraft operations; p) partial temporary place and a traftic pound of a market from a variable pound of the promote place and a variable pound of the promote place and a varia		work on aprons and taxiways which does not affect the safe movement of		maintenance work on aprons and taxiways which does not affect the safe	
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6.3.3.5 Updates to AIP and digital data sets shall be synchronized NEW Standard					
The standard	6.3.3.5	Updates to AIP and digital data sets shall be synchronized.			NEW Standard

Prepared by: Abbas Niknejad

Para No.	Text of Deleted Standard
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10.4.8	
10.4.9	
10.4.10	
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11.3.1	
11.3.3	

New Annex 15 Total number of Standards in 16th Edition of Annex 15: ~ 138

Old Annex 15 Total number of Standards in 15th Edition of Annex 15: ~ 293

MIDANPIRG/17 & RASG-MID/7-WP/24

Appendix B

PANS AI	M	Annex 1	L5 (15th Edition)	Assessment
Para No.	Text of Standard	Para. No.	Text of Standard	
	NIL			

	CHAPTER 2: AERONAUTICAL INFORMATION MANAGEMENT											
PANS AI	M	Annex 1	15 (15th Edition)	Assessment								
Para No.	Text of Standard	Para. No.	Text of Standard									
2.1	INFORMATION MANAGEMENT REQUIREMENTS: Management of aeronautical data and aeronautical information shall include the following process: a) collection; b) processing; c) quality control; and d) distribution.		INFORMATION MANAGEMENT REQUIREMENTS: The information management resources and processes established by an aeronautical information service (AIS) shall be adequate to ensure the timely collection, processing, storing, integration, exchange and delivery of quality-assured aeronautical data and aeronautical information within the air traffic management (ATM) system.	New wording in a revised form								
2.1.1.1	The identification of data originators shall be documented based on the scope of aeronautical data and aeronautical information to be collected.			NEW Standard								
2.1.1.6	Appendix 1 shall be considered as a reference for aeronautical data and aeronautical information origination and publication requirements.			NEW Standard								
2.1.2.1	Collected data shall be verified and validated for compliance with data quality requirements.			NEW Standard								

	CHAPTER 3: QUALITY MANAGEMENT											
PANS AI	М	Annex 1	L5 (15th Edition)	Assessment								
Para No.	Text of Standard	Para. No.	Text of Standard									
3.1.1	The general requirements for a QMS shall be to:			NEW Standard								
	a) develop a quality manual that includes the scope of a QMS as applied to AIM processes;											
	b) identify the processes needed for the QMS; c) determine the sequence and interaction of these processes;											
	d) determine criteria and methods required to ensure the effective operation and control of these processes;											
	e) ensure the availability of information necessary to support the operation and											
	monitoring of these processes; f) measure, monitor and analyse these processes, and implement action necessary											
	to achieve planned results and continual improvement; and g) maintain appropriate records that are necessary to provide confidence of											
	conformity of the processes and resulting product.											
3.1.2	In the framework of the QMS, a user feedback system shall be defined and implemented.			NEW Standard								

	CHAPTER 4: AERONAUTICAL DATA REQUIREMENTS										
PANS AI	M	Annex 1	15 (15th Edition)	Assessment							
Para No.	Text of Standard	Para. No.	Text of Standard								
4.1.1	Data shall be collected and transmitted to the AIS in accordance with the accuracy requirements and integrity classification specified in Appendix 1.			NEW Standard							
4.1.2	Positional data shall be classified as: surveyed points (e.g. navigation aid positions, runway threshold); calculated points (mathematical calculations from the known surveyed points of points in space, fixes); or declared points (e.g. flight information region boundary points).		In that respect, three types of positional data shall be identified: surveyed points (runway thresholds, navigation aid positions, etc.), calculated points (mathematical calculations from the known surveyed points of points in space/fixes) and declared points (e.g. flight information region boundary points).	No significant change / minor editorial amendment							
4.1.3	Geographical coordinates indicating latitude and longitude shall be determined and reported to the aeronautical information service (AIS) in terms of the World Geodetic System – 1984 (WGS-84) geodetic reference datum.	1.2.1.1	World Geodetic System — 1984 (WGS-84) shall be used as the horizontal (geodetic) reference system for international air navigation. Consequently, published aeronautical geographical coordinates (indicating latitude and longitude) shall be	No significant change / minor editorial amendment							
4.1.4	Geographical coordinates that have been transformed into WGS-84 coordinates by mathematical means and whose accuracy of original field work does not meet the applicable requirements contained in Appendix 1 shall be identified.	1.2.1.3	Geographical coordinates that have been transformed into WGS-84 coordinates but whose accuracy of original field work does not meet the requirements in Annex 11, Chapter 2, and Annex 14, Volumes I and II, Chapter 2, shall be identified by an asterisk.	New wording							
4.1.5	in addition to elevation referenced to the MSL (geoid), for the specific surveyed ground positions, geoid undulation (referenced to the WGS-84 ellipsoid) for those positions specified in Appendix 2 shall also be published.	1.2.2.4	In addition to elevation referenced to the MSL (geoid), for the specific surveyed ground positions, geoid undulation (referenced to the WGS-84 ellipsoid) for those positions specified in Appendix 1 shall also be published.	No significant change / minor editorial amendment							
4.2	The metadata to be collected shall include, as a minimum: a) the names of the organizations or entities performing any action of originating, transmitting or manipulating the data; b) the action performed; and c) the date and time the action was performed.	3.4.2	The metadata to be collected shall include, as a minimum: a) the name of the organizations or entities performing any action of originating, transmitting or manipulating the data; b) the action performed; and c) the date and time the action was performed.	No significant change / minor editorial amendment							

	CHAPTER 5: AERONAUTICAL INFORMATION PRODUCTES AND SERVICES										
PANS AIN	Л	Annex 1	5 (15th Edition)	Assessment							
Para No.	Text of Standard		Text of Standard								
5.1.1	Aeronautical data shall be provided in accordance with the resolution		***	NEW Standard							
5.1.2	requirements contained in Appendix 1. Geographical coordinates whose accuracy does not meet the requirements			NEW Standard							
3.1.2	specified in Appendix 1 shall be identified.			NEW Standard							
5.2.1.1.1	The AIP shall contain concise, current information relating to, and arranged under, the subject headings listed in Appendix 2. This facilitates both the locating of information under a specific heading and the storage/retrieval of the information using automated processing.	4.1.1	An AIP shall contain, in three parts, sections and subsections uniformly referenced to allow for standardized electronic data storage and retrieval, current information relating to, and arranged under, those subjects enumerated in Appendix 1 that appear in roman type, except that when the AIP, or volume of the AIP, is designed basically to facilitate operational use in flight, the precise flormat and arrangement may be left to the discretion of the State provided that 10 per the control of the state o	New wording							
	When the AIP data set (as specified in 5.3.3.1) is provided, the following sections of the AIP may be omitted and reference to the data set availability shall be provided: a) GEN 2.5 List of radio navigation aids; b) ENR 2.1 FIR, UIR, TMA and CTA; c) ENR 3.1 Lower ATS routes; d) ENR 3.2 Upper ATS routes; e) ENR 3.3 Area navigation routes; f) ENR 3.4 Helicopter routes; g) ENR 3.5 Other routes; h) ENR 3.6 En-route holding; j) ENR 4.1 Radio navigation aids — en-route; j) ENR 4.2 Special navigation systems; k) ENR 4.4 Name-code designators for significant points; j) ENR 6.3 Enrountical ground lights — en-route; m) ENR 5.1 Prohibited, restricted and danger areas; n) ENR 5.2 Military exercise and training areas and air defence identification zone (ADIZ); o) ENR 5.3.1 Other activities of a dangerous nature; p) ENR 5.3.2 Other potential hazards; q) ENR 5.5 Aerial sporting and recreational activities; r) "**** AD 2.19 Radio navigation and landing aids; t) ***********************************			NEW Standard							
	When the Obstacle Data Set (as specified in 5.3.3.2.2) is provided, the following sections of the AIP may be left blank and a reference to the data set availability shall be provided: a) ENR 5.4 Air navigation obstacles; b) ****AD 2.10 Aerodrome obstacles; and c) ****AD 3.10 Heliport obstacles.			NEW Standard							
5.2.1.2.1	The issuing State and publishing authority shall be clearly indicated.	4.2.5 c)	c) the identification of the issuing State and producing organization (authority);	No significant change / minor editorial amendment							
5.2.1.2.2	When two or more States jointly provide an AIP, these States shall be clearly indicated.	4.2.1.2	When two or more States combine to issue a joint AIP, this shall be made clear both on the cover and in the table of contents.	No significant change / minor editorial amendment							
5.2.1.2.3 5.2.1.2.4	Each AIP shall be self-contained and shall include a table of contents. Each AIP shall not duplicate information within itself or from other sources.	4.2.1 4.2.1.1	Each AIP shall be self-contained and shall include a table of contents. Each AIP shall not duplicate information within itself or from other sources.	No significant change / minor editorial amendment No significant change / minor editorial amendment							
3.2.1.2.4	Lact Air Shail not duplicate information within tesen of from other sources.	4.2.1.1	Each Air Shail for duplicate mornation within itself of from other sources.	No significant change / minor eutorial amenument							
	An AIP shall be organized in three parts (GEN, ENR and AD), sections and subsections, except when the AIP, or a volume of the AIP, is designed to facilitate operational use in flight, in which case the precise format and arrangement may be left to the discretion of the State provided that an adequate table of contents is included.	4.1.1	An AIP shall contain, in three parts, sections and subsections uniformly referenced to allow for standardized electronic data storage and retrieval, current information relating to, and arranged under, those subjects enumerated in Appendix 1 that appear in roman type, except that when the AIP, or volume of the AIP, is designed basically to facilitate operational use in flight, the precise format and arrangement may be left to the discretion of the State provided that an adequate table of contents is included.	New wording in revised form							
5.2.1.2.6	Each AIP shall be dated.	4.2.3	Each AIP shall be dated. In the case of AIP issued in loose leaf form, each page- shall be dated. The date, consisting of the day, month (by name) and year, shall be the publication date or the effective date of the information.	No significant change / minor editorial amendment							
5.2.1.2.6.1	The date, consisting of the day, month (by name) and year, shall be the publication date or the effective date (AIRAC) of the information.		be the publication date of the effective date of the illionnation.	No significant change / minor editorial amendment							
5.2.1.2.9	The spelling of place names shall conform with local usage, transliterated where necessary into the ISO basic Latin alphabet.	1.3.2	Place names shall be spelt in conformity with local usage, transliterated, when necessary, into the Latin alphabet.	No significant change / minor editorial amendment							
5.2.1.2.11	When describing periods of activity, availability or operation, the applicable days			NEW Standard							
5.2.1.3.1	and times shall be specified. Operationally significant changes to the AIP shall be published in accordance with Aeronautical Information Regulation and Control (AIRAC) procedures and shall be clearly identified by the acronym AIRAC.	4.2.8	Operationally significant changes to the AIP shall be published in accordance with Aeronautical information Regulation and Control (AIRAC) procedures and shall be clearly identified by the acronym — AIRAC.	No significant change / minor editorial amendment							
5.2.1.3.2	When a State has established the regular interval or publication dates for its AIP Amendments, these intervals or publication dates shall be included in the AIP, Part 1 — General (GEN).	4.2.9.1	The regular interval referred to in 4.2.9 shall be specified in the AIP, Part 1 — General (GEN).	No significant change / minor editorial amendment							
5.2.1.3.3	New or revised information contained in the AIP shall be identified.	4.2.7	All changes to the AIP, or new information on a republished page, shall be	No significant change / minor editorial amendment							
5.2.1.3.4	Each AIP Amendment shall be allocated a serial number, which shall be	4.3.2	identified by a distinctive symbol or annotation. Each AIP Amendment shall be allocated a serial number, which shall be	No significant change / minor editorial amendment							
5.2.1.3.5	consecutive. Each AIP Amendment shall contain a publication date.	4.3.3		No significant change / minor editorial amendment							
5.2.1.3.6 5.2.1.3.6.1	Each AIRAC AIP Amendment shall contain an effective date. When an effective time other than 0000 UTC is used, the effective time shall also be indicated.	4.3.4	date. Each AIRAC AIP Amendment page, including the cover sheet, shall display an effective date. When an effective time other than 0000 UTC is used, the effective time shall also be displayed on the cover sheet.	No significant change / minor editorial amendment No significant change / minor editorial amendment							
	When an AIP Amendment is issued, it shall include references to the serial number of the AIP Supplement or the series and number of the NOTAM which has been incorporated into the amendment.	4.3.5	When an AIP Amendment is issued, it shall include references to the serial number of those elements, if any, of the Integrated Aeronautical Information Package which have been incorporated into the amendment.	Minor editorial amendment							
	A brief indication of the subjects affected by the amendment shall be given on the AIP Amendment cover sheet.	4.3.6	A brief indication of the subjects affected by the amendment shall be given on the AIP Amendment cover sheet.	No significant change / minor editorial amendment							
5.2.1.3.9	Each amendment shall include a checklist giving the current date of each loose- leaf page in the AIP, and shall provide a recapitulation of any outstanding manuscript corrections. The checklist shall carry both the page number and date. Each AIP Supplement shall be allocated a serial number which shall be consecutive.	422	Each AIP Supplement shall be allocated a serial number which shall be	NEW Standard No significant change / minor editorial amendment							
	and based on the calendar year.	4.2.2	consecutive and based on the calendar year.	No significant change / minor editorial amendment "Yellow" replaced by "distinctive pages"							
5.2.1.4.1	Each AIP Supplement shall be provided on distinctive pages allowing for easy identification from the regular AIP content.		AIP Supplement pages should be coloured in order to be conspicuous, preferably in yellow.	Recommendation has changed to Standard							
5.2.1.4.1	Whenever an AIP Supplement is issued as a replacement of a NOTAM, a reference to the series and number of the NOTAM shall be included.	4.4.5	When an AIP Supplement is sent in replacement of a NOTAM, it shall include a reference to the serial number of the NOTAM.	No significant change / minor editorial amendment							
	A checklist of valid AIP Supplements shall be issued at intervals of not more than one month as part of the checklist of NOTAM required by 5.2.5.3 and with distribution as for the AIP Supplements.		A checklist of valid AIP Supplements shall be issued at intervals of not more than one month. This information shall be issued through the medium of the monthly plain-language list of valid NOTAM required by 5.2.13.3.	List of valid NOTAM as a means of "Checklist of valid AIP Supplements" has been replaced by the NOTAM Checklist							
5.2.1.4.1 5.2.1.4.1	Each AIP Supplement page shall show a publication date. Each AIRAC AIP Supplement page shall show a publication date and an effective			NEW Standard NEW Standard							
J.E.1.4.1	date.			Station u							

	An AIC shall be provided whenever it is desirable to promulgate: a) forecasts of important changes in the air navigation procedures, services and facilities provided; b) forecasts of implementation of new navigation systems; c) significant information an arising from aircraft accident/incident investigation which has a bearing on flight safety; d) information on regulations relating to the safeguarding of international civil aviation against acts of unlawful interference; e) advice on medical matters of special interest to pliots; f) warnings to pilots concerning the avoidance of physical hazards; g) effect of certain weather phenomena on aircraft operations; h) information on new hazards affecting aircraft handling techniques; j) regulations relating to the carriage of restricted articles by air; j) reference to the requirements of, and publication of changes in, national legislation; k) flight crew (licensing arrangements; l) training of aviation personnel; m) application of, or exemption from, requirements in national legislation; o) actival or planned availability of new or revised editions of aeronautical charts; p) carriage of communication equipment; q) explanatory information relating to noise abatement; r) airworthiness directives; s) changes in NOTAM series or distribution, new editions of AIP or major changes in their contents, coverage or format; l) advance information on the snow plan (see 5.2.2.2); u) other information of a similar nature.	7.1.1	This shall include: 1) forecasts of important changes in the air navigation procedures, services and facilities provided; 2) forecasts of implementation of new navigation systems; 3) significant information arising from aircraft accident/incident investigation which has a bearing on flight safety; 4) information on regulations relating to the safeguarding of international civil aviation against acts of unlawful interference; 5) advice on medical matters of special interest to pilots; 6) warnings to pilots concerning the avoidance of physical hazards; 7) effect of certain weather phenomena on aircraft operations; 8) information on new hazards affecting aircraft handling techniques; 9) regulations relating to the carriage of restricted articles by air; 10) reference to the requirements of, and publication of changes in, national legislation; 11) aircrew licensing arrangements; 12) training of avaition personnel; 13) application of, or exemption from, requirements in national legislation; 14) advice on the use and maintenance of specific types of equipment; 15) carriage of communication equipment; 17) explanatory information relating to noise abatement; 18) selected airworthiness directives; 19) changes in NOTIAM series or distribution, new editions of AIP or major changes in their contents, coverage or format; 20) advance information on the snow plan (see 7.1.1.2); 21) other information of a similar nature.	No significant change / minor editorial amendment	
	The snow plan issued under AD 1.2.2 of the AIP shall be supplemented by seasonal information, to be issued well in advance of the beginning of each winter (not less than one month before the normal onset of winter conditions) and shall contain information such as that listed below: a) until 4 Nowenber 2020, a list of aerodromes/heliports where snow clearance is expected to be performed during the coming winter: a) as of 5 Nowenber 2020, a list of aerodromes/heliports where snow, slush, ice or frost clearance is expected to be performed during the coming winter: "1) in accordance with the runway and taxiway systems; or "2) planned snow clearing, deviating from the runway system (length, width and number of runways, affected taxiways and aprons or portions thereof); "b) Information concerning any centre designated to coordinate information on the current state of progress of clearance and on the current state of runways, taxiways and aprons; c) a division of the aerodromes/heliports into SNOWTAM distribution lists in order to avoid excessive NOTAM distribution; "d) a indication, as necessary, of minor changes to the standing snow plan; "e) a descriptive list of clearance equipment; "f) a list of what will be considered as the minimum critical snow bank to be reported at each aerodrome/heliport at which reporting will commence.	7.1.1.2	The snow plan published under AD 1.2.2 of Appendix 1 shall be supplemented by seasonal information, to be issued well in advance of the beginning of each winter — not less than one month before the normal onset of winter conditions — and shall contain information such as that listed below: a distail contain information such as that listed below: a) a list of aeroformes/heliports where snow clearance is expected to be performed during the coming winter: **2) planned snow clearing, deviating from the runway system (length, width and number of runways, affected taxiways and aprons or portions thereof); **b) information concerning any centre designated to coordinate information on the current state of progress of clearance and on the current state of runways, taxiways and aprons; c) a division of the aeroformes/heliports into SNOWTAM distribution lists in order to avoid excessive NOTAM distribution; **d) an indication, as necessary, of minor changes to the standing snow plan; **e) a descriptive list of clearance equipment; **d) a listing of what will be considered as the minimum critical snow bank to be reported at each aerodrome/heliport at which reporting will commence.		
5.2.2.3	The originating State shall select the AIC that are to be given international distribution.	7.2.1	The originating aeronautical information service shall select the AIC that are to be given international distribution.	New wording: AIS replaced by State	
5.2.2.4	States shall give AIC selected for international distribution the same distribution as for the AIP.	7.3	States shall give AIC selected for international distribution the same distribution as for the AIP.	No significant change / minor editorial amendment	
5.2.2.6	Each AIC shall be allocated a serial number which shall be consecutive and based on the calendar year.	7.2.2	Each AIC shall be allocated a serial number which shall be consecutive and based on the calendar year.	No significant change / minor editorial amendment	
5.2.2.7	In the event that AIC are provided in more than one series, each series shall be separately identified by a letter (e.g. A 2/02, B 4/02).	7.2.3	When AIC are distributed in more than one series, each series shall be separately identified by a letter.	No significant change / minor editorial amendment	
5.2.2.8	A checklist of AIC currently in force shall be issued at least once a year, with distribution as for the AIC.	7.2.5	A checklist of AIC currently in force shall be issued at least once a year, with distribution as for the AIC.	No significant change / minor editorial amendment	
5.2.2.9	A checklist of AIC provided internationally shall be included in the NOTAM	5.2.13.1	A checklist of NOTAM shall refer to the latest AIP Amendments, AIP Supplements	No significant change / minor editorial amendment	
	checklist.		and at least the internationally distributed AIC.		
5.2.3.1.2	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles.	4.2.5	and at least the internationally distributed AIC. Each AIP issued as a bound volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); d) page numbers/chart titles; e) the degree of reliability if the information is doubtful.	No significant change / minor editorial amendment litem e) deleted	
5.2.3.1.2 5.2.3.1.3	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents.		Each AIP issued as a bound volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); d) page numbers/chart titles;	No significant change / minor editorial amendment item e) deleted NEW Standard	
5.2.3.1.2 5.2.3.1.3 5.2.3.1.4 5.2.3.1.5	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vertical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify the change.	4.2.9	Each AIP Issued as a bound volume and each page of an AIP Issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); d) page numbers/chart titles; e) the degree of reliability if the information is doubtful. The normal method of amendment shall be by means of replacement sheets. All changes to the AIP, or new information on a republished page, shall be identified by a distinctive symbol or annotation.	No significant change / minor editorial amendment Item e) deleted NEW Standard No significant change / minor editorial amendment New wording in revised form With additional descriptions	
5.2.3.1.2 5.2.3.1.3 5.2.3.1.4 5.2.3.1.5	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vortical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify	4.2.9	Each AIP Issued as a bound volume and each page of an AIP Issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); d) page numbers/chart titles; e) the degree of reliability if the information is doubtful. The normal method of amendment shall be by means of replacement sheets. All changes to the AIP, or new information on a republished page, shall be identified by a distinctive symbol or annotation. Each AIP Amendment page, including the cover sheet, shall display a publication date.	No significant change / minor editorial amendment item e) deleted NEW Standard No significant change / minor editorial amendment	
5.2.3.1.3 5.2.3.1.4 5.2.3.1.5 5.2.3.1.6	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vortical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify the change. Each AIP Amendment page, including the cover sheet, shall contain a publication date and, when applicable, an effective date. When the AIP is provided in more than one volume, each volume shall include a: a) preface; b) record of AIP Amendments; c) record of AIP Amendments; c) record of AIP Supplements; d) checklist of AIP pages; and e) list of current hand amendments.	4.3.3 4.3.4 Appendix	Each AIP Amendment page, including the cover sheet, shall display a publication date. Each AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP is produced and made available in more than one volume with each having a separate amendment and supplements, checklist of AIP pages and list of current hand amendments, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume.	No significant change / minor editorial amendment Item e) deleted NEW Standard No significant change / minor editorial amendment New wording in revised form With additional descriptions Minor editorial amendment This provision has changed to Standard The condition (if each volume has a separate amendment and supplement service) has been removed	
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5.2.3.1.3 5.2.3.1.4 5.2.3.1.5 5.2.3.1.6 5.2.3.1.7 5.2.3.1.10 5.2.3.1.16 5.2.3.1.16 5.2.3.1.16 5.2.3.1.16 5.2.3.1.16 5.2.3.1.16	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vertical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify the change. Each AIP Amendment page, including the cover sheet, shall contain a publication date and, when applicable, an effective date. When the AIP is provided in more than one volume, each volume shall include a: a) preface; b) record of AIP Amendments; c) record of AIP Supplements; d) checklist of AIP pages; and e) list of current hand amendments. When the AIP is published as one volume, the above-mentioned subsections appear only in Part 1 — GEN and the annotation "not applicable" shall be entered against each of these subsections in Parts 2 and 3. A checklist giving the current date of each page in the AIP shall be reissued frequently to assist the user in maintaining a current publication. AIP Supplement pages shall be kept in the AIP as long as all or some of their contents remain valid. When provided, the information content of the eAIP and the structure of the paper AIP. The AIP shall include files that allows comparing the new/revised information with the previous information shall be identified either by an annotation against it in the margin or by a mechanism that allows comparing the new/revised information with the previous information.		Each AIP Amendment page, including the cover sheet, shall display a publication date. Each AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP is produced and made available in more than one volume with each having a separate amendment and supplements, checklist of AIP pages and list of current hand amendments must be included in each volume.	No significant change / minor editorial amendment Item e) deleted NEW Standard No significant change / minor editorial amendment New wording in revised form With additional descriptions Minor editorial amendment This provision has changed to Standard The condition (if each volume has a separate amendment and supplement service) has been removed No significant change / minor editorial amendment	
5.2.3.1.2 5.2.3.1.3 5.2.3.1.4 5.2.3.1.5 5.2.3.1.6 5.2.3.1.7 5.2.3.1.10 5.2.3.1.10 5.2.3.1.10 5.2.3.1.10 5.2.3.1.10	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vertical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify the change. Each AIP Amendment page, including the cover sheet, shall contain a publication date and, when applicable, an effective date. When the AIP is provided in more than one volume, each volume shall include a: a) preface; b) record of AIP Amendments; c) record of AIP Supplements; d) checklist of AIP Dages; and e) list of current hand amendments. When the AIP is published as one volume, the above-mentioned subsections appear only in Part 1 — GEN and the annotation "not applicable" shall be entered against each of these subsections in Parts 2 and 3. A checklist giving the current date of each page in the AIP shall be reissued frequently to assist the user in maintaining a current publication. AIP Supplement pages shall be kept in the AIP as long as all or some of their contents remain valid. When provided, the information content of the eAIP and the structure of chapters, sections and subsections shall follow the content and structure of the paper AIP. The eAIP shall include files that allows comparing the new/revised information with the previous information shall be identified either by an annotation against it in the margin or by a mechanism that allows comparing the new/revised information with the	4.2.9 4.3.3 4.3.4 Appendix 1 Appendix 4.2.4 4.4.3 4.6.2	Each AIP Commentation of the information of a page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identification of the issuing State and producing organization (authority); d) page numbers/chart titles; e) the deergree of reliability if the information is doubtful. The normal method of amendment shall be by means of replacement sheets. All changes to the AIP, or new information on a republished page, shall be identified by a distinctive symbol or annotation. Each AIP Amendment page, including the cover sheet, shall display a publication date. Each AIRAC AIP Amendment page, including the cover sheet, shall display a publication date. Each AIRAC AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP is produced and made available in more than one volume with each having a separate amendment and supplement service, a separate preface, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume. When the AIP is produced as one volume, the preface, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume. When the AIP is produced as one volume, the preface, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume. When the AIP is produced as one volume, the preface, record of AIP Amendments, record of AIP Supplement ages on the annotation "not applicable" must be entered against each of these subsections in Parts 2 and 3. A checklist giving the current date of each page in the AIP series shall be reissued frequently to assist the user in maintaining a current publication. When provided, the information content of the eAIP and the structure of chapters, sections and sub-sections shall follow	No significant change / minor editorial amendment Item e) deleted NEW Standard No significant change / minor editorial amendment New wording in revised form With additional descriptions Minor editorial amendment This provision has changed to Standard The condition (if each volume has a separate amendment and supplement service) has been removed No significant change / minor editorial amendment	
5.2.3.1.2 5.2.3.1.3 5.2.3.1.4 5.2.3.1.5 5.2.3.1.6 5.2.3.1.7 5.2.3.1.10 5.2.3.1.16 5.2.3.1.10 5.2.3.1.10 5.2.3.1.10 5.2.3.1.10	Each AIP issued as a printed volume and each page of an AIP issued in loose-leaf form shall be so annotated as to indicate clearly: a) the identity of the AIP; b) the territory covered and subdivisions when necessary; c) the identition of the issuing State and producing organization (authority); and d) page numbers/chart titles. The issuing State or the joint issuing States shall be clearly indicated on the cover and in the table of contents. The normal method of amendment of the printed volume AIP shall be by means of replacement sheets. New or revised information shall be identified by an annotation against it in the margin. A thick black vertical line or, where the change incorporated covers one line only or a part of a line, a thick black horizontal arrow, is sufficient to identify the change. Each AIP Amendment page, including the cover sheet, shall contain a publication date and, when applicable, an effective date. When the AIP is provided in more than one volume, each volume shall include a: a) preface; b) record of AIP Amendments; c) record of AIP Amendments; c) record of AIP Supplements; d) checklist of AIP pages; and e) list of current hand amendments. When the AIP is published as one volume, the above-mentioned subsections appear only in Part 1 — GEN and the annotation "not applicable" shall be entered against each of these subsections in Parts 2 and 3. A checklist giving the current date of each page in the AIP shall be reissued frequently to assist the user in maintaining a current publication. AIP Supplement pages shall be kept in the AIP as long as all or some of their contents remain valid. When provided, the information content of the eAIP and the structure of the paper AIP. The eAIP shall include files that allow for printing a paper AIP. AND when provided the information shall be identified either by an annotation against it in the margin or by a mechanism that allows comparing the new/revised information with the prevised information is the identified either by an annotation again	4.3.3 4.3.4 Appendix 1 Appendix 4.2.4 4.4.3 4.6.2	Each AIP Amendment page, including the cover sheet, shall display a publication date. Each AIP Amendment page, including the cover sheet, shall display an effective date. If an AIP is produced and made available in more than one volume with each having a separate amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume. When the AIP is produced as one volume, the preface, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments appear only in Part 1 — GEN, and the annotation "not applicable" applicable to the AIP Supplements, checklist of AIP pages and list of current hand amendments appear only in Part 1 — GEN, and the annotation of AIP Supplements, checklist of AIP pages and list of current hand amendments appear only in Part 1 — GEN, and the annotation in AIP Supplements, checklist of AIP pages and list of current hand amendments must be included in each volume. When the AIP is produced as one volume, the preface, record of AIP Amendments, record of AIP Supplements, checklist of AIP pages and list of current hand amendments appear only in Part 1 — GEN, and the annotation "not applicable" must be entered against each of these subsections in Parts 2 and 3. A checklist giving the current date of each page in the AIP series shall be reissued frequently to assist the user in maintaining a current publication. AIP Supplement pages shall be kept in the AIP as long as all or some of their contents remain valid. When provided, the information content of the eAIP and the structure of the paper AIP. The eAIP shall include files that allow for printing a paper AIP. Except as otherwise provided in 5.2.3 and 5.2.4, each NOTAM shall contain the information in the order shown in the NOTAM Format in Appendix 6.	No significant change / minor editorial amendment Item e) deleted NEW Standard No significant change / minor editorial amendment New wording in revised form With additional descriptions Minor editorial amendment This provision has changed to Standard The condition (if each volume has a separate amendment and supplement service) has been removed No significant change / minor editorial amendment	

5.2.5.1.4	As of 5 November 2020, information concerning snow, slush, ice, frost, standing water, or water associated with snow, slush, ice or frost on the movement area shall be disseminated by means of a SNOWTAM, and shall contain the			No significant change / minor editorial amendment (will be applicable on 5 November 2020)
	information in the order shown in the SNOWTAM Format in Appendix 4.			
5.2.5.1.6	Information concerning an operationally significant change in volcanic activity, volcanic eruption and/or volcanic ash cloud shall, when reported by means of an ASHTAM, contain the information in the order shown in the ASHTAM Format in Appendix 5. When errors occur in a NOTAM, a NOTAM with a new number to replace the	5.2.4	Information concerning an operationally significant change in volcanic activity, a volcanic eurploin and/or volcanic ash cloud shall, when reported by means of an ASHTAM, contain the information in the order shown in the ASHTAM Format in Appendix 3. When errors occur in a NOTAM, a NOTAM with a new number to replace the	No significant change / minor editorial amendment No significant change / minor editorial amendment
5.2.5.1.7	erroneous NOTAM shall be issued or the erroneous NOTAM shall be cancelled and a new NOTAM issued. When a NOTAM is issued which cancels or replaces a previous NOTAM, the series	5.2.7	erroneous NOTAM shall be issued or the erroneous NOTAM shall be cancelled and a new NOTAM issued. When a NOTAM is issued which cancels or replaces a previous NOTAM, the series	No significant change / minor editorial amendment
	and number of the previous NOTAM shall be indicated. The series, location indicator and subject of both NOTAM shall be the same.		and number of the previous NOTAM shall be indicated. The series, location indicator and subject of both NOTAM shall be the same. Only one NOTAM shall be cancelled or replaced by a NOTAM.	No significant change / minor editorial amendment No significant change / minor editorial amendment
5.2.5.1.8 5.2.5.1.9	Only one NOTAM shall be cancelled or replaced by a NOTAM. Each NOTAM shall deal with only one subject and one condition of the subject.	5.2.8	Each NOTAM shall deal with only one subject and one condition of the subject.	No significant change / minor editorial amendment No significant change / minor editorial amendment
5.2.5.1.10		5.2.9	Each NOTAM shall be as brief as possible and so compiled that its meaning is	No significant change / minor editorial amendment
5.2.5.1.11	without the need to refer to another document. Each NOTAM shall be transmitted as a single telecommunication message.	5.2.10	clear without the need to refer to another document. Each NOTAM shall be transmitted as a single telecommunication message.	No significant change / minor editorial amendment
5.2.5.1.12	A NOTAM containing permanent information or temporary information of long	5.2.11	A NOTAM containing permanent or temporary information of long duration shall	No significant change / minor editorial amendment
5.2.5.1.13		5.2.12	carry appropriate AIP or AIP Supplement references. Location indicators included in the text of a NOTAM shall be those contained in	No significant change / minor editorial amendment
5.2.5.1.13.1	Location Indicators (Doc 7910). In no case shall a curtailed form of such indicators be used.	5.2.12.1	Location Indicators (Doc 7910). In no case shall a curtailed form of such indicators be used.	No significant change / minor editorial amendment
5.2.5.1.14	Where no ICAO location indicator is assigned to the location, its place name shall be entered in plain language, spelt in conformity with local usage, transliterated,	5.2.12.2	Where no ICAO location indicator is assigned to the location, its place name spelt in accordance with 1.3.2 shall be entered in plain language.	No significant change / minor editorial amendment
5.2.5.2.1	when necessary, into the ISO basic Latin alphabet.			Adir and display and an address of the state
5.2.5.2.2	The international NOTAM office shall allocate to each NOTAM a series identified by a letter and a four-digit number followed by a stroke and a two-digit number for the year. The four-digit number shall be consecutive and based on the calendar year.	5.2.5 5.2.5	The NOTAM originator shall allocate to each NOTAM a series identified by a letter and a four-digit number followed by a stroke and a two-digit number for the year. The four-digit number shall be consecutive and based on the calendar year.	Minor editorial amendment NOTAM Originator replaced by NOF
5.2.5.2.3	Letters S and T shall not be used to identify a NOTAM series. All NOTAM shall be divided in series based on subject, traffic or location or a		Letters A to Z, with the exception of S and T, may be used to identify a NOTAM	Recommendation changed to Standard NEW Standard
	combination thereof, depending on end-user needs. NOTAM for aerodromes allowing international air traffic shall be issued in international NOTAM series.			
5.2.5.2.4	If NOTAM are issued in both English and a national language, the NOTAM series shall be organized such that the national language series is equivalent to the English language series in terms of content.			NEW Standard
5.2.5.2.5	The content and geographical coverage of each NOTAM series shall be stated in detail in the AIP, section GEN 3.			NEW Standard
5.2.5.2.6	Series allocation shall be monitored and, if required, appropriate measures shall be taken to assure that no series reach the maximum possible number of issued NOTAM before the end of the calendar year.			NEW Standard
5.2.5.3.1	A checklist of valid NOTAM shall be issued as a NOTAM checklist at intervals of not more than one month. One NOTAM checklist shall be issued for each series.	5.2.13	A checklist of valid NOTAM shall be issued as a NOTAM over the aeronautical fixed service (AFS) at intervals of not more than one month using the NOTAM Format specified in Appendix 6. One NOTAM shall be issued for each series.	No significant change / minor editorial amendment No significant change / minor editorial amendment
5.2.5.3.3	A NOTAM Checklist shall refer to the latest AIP Amendments, AIP Supplements, data sets and at least the internationally distributed AIC, and, when it is selected, include the checklist of AIP Supplements.	5.2.13.1	A checklist of NOTAM shall refer to the latest AIP Amendments, AIP Supplements and at least the internationally distributed AIC.	New wording with revised form Datasets included in NOTAM Checklist
5.2.5.3.4		5.2.13.2	A checklist of NOTAM shall have the same distribution as the actual message series to which they refer and shall be clearly identified as a checklist.	
5.3.1.2	A description of available digital data sets shall be provided in the form of data product specifications on which basis air navigation users will be able to evaluate the products and determine whether they fulfil the requirements for their intended use (application).			NEW Standard
5.3.1.3	The content and structure of digital data sets shall be defined in terms of an application schema and a feature catalogue.			NEW Standard
5.3.2	Each data set shall include the following minimum set of metadata: a) the names of the organization or entities providing the data set; b) the date and time when the data set was provided; c) period of validity of the data set; and d) any limitations with regard to the use of the data set.			NEW Standard
5.3.3.1.1	The AIP data set shall include data about the following subjects, with the properties indicated in brackets being included as a minimum (if applicable): a) air traffic services (ATS) airspace (type, name, lateral limits, vertical limits, class of airspace); b) special activity airspace (type, name, lateral limits, vertical limits, restriction, activation); c) ATS route and other route (designator, flight rules); d) route segment (navigation specification from point to point, track, length, upper limit, lower limit, minimum en-route altitude (MACA), minimum obstacle clearance altitude (MOCA), direction of crusing level, required navigation performance); e) waypoint – en-route (identification, location, formation); f) aerodrome/heliport (iCAO location indicator, name, designator IATs, served city, certified iCAO, certification date, certification date, control type, field elevation, reference temperature, magnetic variation, reference point); g) runway (designator, nominal length, nominal width, surface type, strength); h) runway direction (designator, true bearing, threshold, take off frun available (TOAA), landing distance available (LOAI); i) final approach and take-off (FATO) (designation, length, width, threshold point); j) touchdown and left-off (TLOP) (designator, centre point, length, width, surface type); k) radio navigation aid (type, dentification, name, aerodrome/heliport served, hours of operation, magnetic When a property is not defined for a particular occurrence of the subjects listed in			NEW Standard
5.3.3.2.1.1	5.3.3.1.1, the AIP data subset shall include an explicit "not applicable" indication. A terrain grid shall be angular or linear and shall be of regular or irregular shape.	10.2.1	A terrain data set shall contain digital sets of data representing terrain surface in	No significant change / minor editorial amendment
	Sets of terrain data shall include spatial (position and elevation), thematic and	10.2.2	the form of continuous elevation values at all intersections (points) of a defined- gid, referenced to common datum. A terrain grid shall be angular or linear and shall be of regular or irregular shape. Sets of electronic terrain data shall include spatial (position and elevation),	(First part remains in Annex 15) No significant change / minor editorial amendment
	peers or terrain data shail include spatial (position and returnous), thematic and temporal aspects for the surface of the Earth containing naturally occurring features such as mountains, hills, ridges, valleys, bodies of water, and permanent ice and snow, and exclude obstacles. Depending on the acquisition method used, this shall represent the continuous surface that exists at the bare Earth, the top of the canopy or something in-between, also known as "first reflective surface". In terrain data sets, only one feature type, i.e. terrain, shall be provided. Feature attributes describing terrain shall be those listed in Appendix 6, Table A6-1. The terrain feature attributes: listed in Appendix 6, Table A6-1 represent the minimum	10.2.2	sets or electronic termin data shain incluse spatial (position and elevation) thematic and temporal aspects for the surface of the Earth containing naturally occurring features such as mountains, hills, ridges, valleys, bodies of water, permanent ice and snow, and excluding obstacles. In practical terms, depending on the acquisition method used, this shall represent the continuous surface that exists at the bare Earth, the top of the canopy or something in-between, also in terrain data ests, only one feature type, it. et rerain, shall be provided. Feature attributes describing terrain shall be those listed in Table A8-3. The terrain feature attributes listed in Table A8-3 represent the minimum set of terrain	No significant change / minor editorial amendment No significant change / minor editorial amendment
5.3.3.2.1.4	terrain reactive actinuities instead in Appendix 6, Table A6-1 represent the minimum set of terrain attributes, and those annotated as mandatory shall be recorded in the terrain data set. Terrain data for each area shall conform to the applicable numerical requirements	10.2.4	reature attributes instead in Table A6-3 represent the minimum set or terrain attributes, and those annotated as mandatory shall be recorded in the terrain data set. Electronic terrain data for each area shall conform to the applicable numerical	No significant change / minor editorial amendment
	in Appendix 1. Obstacle data elements are features that shall be represented in the data sets by points, lines or polygons.	10.3.1	Crequirements in Appendix 8, Table A8-1. Obstacle data-shall comprise the digital representation of the vertical and horizontal extent of the obstacle. Obstacles shall not be included in terrain data	No significant change / minor editorial amendment (First part remains in Annex 15)
5.3.3 2 2 2	In an obstacle data set, all defined obstacle feature types shall be provided and	10.3.2	sets. Obstacle data elements are features that shall be represented in the data sets by points, lines or polygons. In an obstacle data set, all defined obstacle feature types shall be provided and	No significant change / minor editorial amendment
J.J.J.L.L.L	in an obstacle data set, an defined obstacle feature types snan be provided and each of them shall be described according to the list of mandatory attributes provided in Appendix 6, Table A6-2.		and no stacke data set, an defined obstacke reactive types shall be provided and each of them shall be described according to the list of mandatory attributes provided in Appendix 8, Table A8-4.	

5.3.3.2.2.3	Obstacle data for each area shall conform to the applicable numerical	10.3.3	Electronic obstacle data for each area shall conform to the applicable numerical	No significant change / minor editorial amendmen
	requirements contained in Appendix 1.		requirements in Appendix 8, Table A8-2.	
	The obstacle data product specification, supported by geographical coordinates	10.4.10	The obstacle data product specification, supported by geographical coordinates	No significant change / minor editorial amendmer
5.3.3.2.2.4		10.4.10		No significant change / minor editorial amendmen
	for each aerodrome included within the data set, shall describe the following		for each aerodrome included within the dataset, shall describe the following	
	areas:		areas:	
	a) Areas 2a, 2b, 2c, 2d;		— Areas 2a, 2b, 2c, 2d;	
	b) the take-off flight path area; and		— the take-off flight path area; and	
	c) the obstacle limitation surfaces.		— the obstacle limitation surfaces.	
5.3.3.4.1	The instrument flight procedure data set shall include data about the following		the obstacle initiation surfaces.	NEW Standard
5.3.3.4.1			•••	NEW Standard
	data subjects, with the properties indicated in brackets being included as a			
	minimum (if applicable): a) procedure (all properties); b) procedure segment (all			
	properties); c) final approach segment (all properties); d) procedure fix (all			
	properties); e) procedure holding (all properties); and f) helicopter procedure (all			
	properties).			
5.4.1.3	A checklist of the available data sets, including their effective and publication			NEW Standard
5.4.1.3			***	NEW Standard
	dates, shall be made available to allow the users to ensure that current data is			
	being used.			
5.4.1.4	The checklist of the data sets shall be made available through the same			NEW Standard
	distribution mechanism as is used for the data sets.			
5.4.2.1	The AIS shall arrange, as necessary, to satisfy operational requirements for the	2.3.3	An AIS shall arrange, as necessary, to satisfy operational requirements for the	No significant change / minor editorial amendmen
J.4.2.1				35-micanic change / millor editorial antendmen
	issuance and receipt of NOTAM distributed by telecommunication.		issuance and receipt of NOTAM distributed by telecommunication.	
5.4.2.2	The international exchange of ASHTAM (see 5.2.5.1.6), and NOTAM where States	5.3.4	The international exchange of ASHTAM (see 5.2.4), and NOTAM where States	ISCS replaced by WAFS and WIFS
	continue to use NOTAM for distribution of information on volcanic activity, shall		continue to use NOTAM for distribution of information on volcanic activity, shall	
	include volcanic ash advisory centres and the centres designated by regional air		include volcanic ash advisory centres and the centres designated by regional air	
	navigation agreement for the operation of AFS Secure Aviation Data Information		navigation agreement for the operation of AFS satellite distribution systems	
	Service (SADIS) and the World Area Forecast System (WAFS) Internet file service		(satellite distribution system for information relating to air navigation (SADIS) and	
	(WIFS), and shall take account of the requirements of long-range operations.		international satellite communications system (ISCS)), and shall take account of	
			the requirements of long-range operations.	
5.4.2.3	The exchange of NOTAM between international NOTAM offices and between the	5.3.4	International exchange of NOTAM shall take place only as mutually agreed	Revised Standard
	international NOTAM offices and multinational NOTAM processing units shall, as		between the international NOTAM offices concerned.	
	far as practicable, cover the needs of operations personnel including flight crew	5.3.4.1	These exchanges of NOTAM between international NOTAM offices shall, as far as	
	members.		practicable, be limited to the requirements of the receiving States concerned by	
			means of separate series providing for at least international and domestic flights.	
5.4.2.4	A predetermined distribution system for NOTAM transmitted on the AFS in	5.3.4.2	A predetermined distribution system for NOTAM transmitted on the AFS in	No significant change / minor editorial amendmen
5.4.2.4		5.3.4.2		No significant change / minor editorial amendmen
	accordance with Annex 15, 6.3.2.3 shall be used whenever possible, subject to the		accordance with Appendix 5 shall be used whenever possible, subject to the	
	requirements of 5.4.2.3.		requirements of 5.3.4.	
5.4.2.5	The originating State shall, upon request, grant distribution of NOTAM series			NEW Standard
	other than those distributed internationally.			
5.5.3	Automated pre-flight information systems shall be used to make aeronautical data	821	Automated pre-flight information systems shall be used to make aeronautical	No significant change / minor editorial amendmen
	and aeronautical information available to operations personnel including flight		data and aeronautical information available to operations personnel including	
	crew members for self-briefing, flight planning and flight information service		flight crew members for self-briefing, flight planning and flight information	
	purposes. The aeronautical data and aeronautical information made available shall		service purposes. The aeronautical data and aeronautical information made	
	comply with the provisions of Annex 15.		available shall comply with the provisions of 8.1.2 and 8.1.3.	
5.5.4	Self-briefing facilities of an automated pre-flight information system shall provide	8.2.2	Self-briefing facilities of an automated pre-flight information system shall provide	No significant change / minor editorial amendmen
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	access to operations personnel, including flight crew members and other		access to operations personnel, including flight crew members and other	
	aeronautical personnel concerned, for consultation as necessary with the AIS by		aeronautical personnel concerned, for consultation as necessary with the AIS by	
	telephone or other suitable telecommunications means. The human/machine		telephone or other suitable telecommunications means. The human/machine	
	interface of such facilities shall ensure easy access in a guided manner to all		interface of such facilities shall ensure easy access in a guided manner to all	
5.5.5		8.2.3	Automated pre-flight information systems for the supply of aeronautical data and	No significant change / minor editorial amendmen
J.J.J		J.2.3		35 Significant change / minor editorial afficialmen
	aeronautical information for self-briefing, flight planning and flight information		aeronautical information for self-briefing, flight planning and flight information	
	service shall: a) provide for continuous and timely updating of the system		service shall: a) provide for continuous and timely updating of the system	
	database and monitoring of the validity and quality of the aeronautical data		database and monitoring of the validity and quality of the aeronautical data	
	stored; b) permit access to the system by operations personnel including flight		stored; b) permit access to the system by operations personnel including flight	
	crew members, aeronautical personnel concerned and other aeronautical users		crew members, aeronautical personnel concerned and other aeronautical users	
	through suitable telecommunications means; c) ensure provision, in paper copy		through suitable telecommunications means; c) ensure provision, in paper copy	
	form, of the aeronautical data and aeronautical information accessed, as required;		form, of the aeronautical data and aeronautical information accessed, as	
	d) use access and interrogation procedures based on abbreviated plain language		required; d) use access and interrogation procedures based on abbreviated plain	
	and ICAO location indicators, as appropriate, or based on a menu-driven user		language and ICAO location indicators, as appropriate, or based on a menu-driven	
	interface or other appropriate mechanism as agreed between the civil aviation		user interface or other appropriate mechanism as agreed between the civil	
	authority and operator concerned; and e) provide for rapid response to a user		aviation authority and operator concerned; and e) provide for rapid response to a	
	Where automated pre-flight information systems are used to provide the	8.2.5	Where automated pre-flight information systems are used to provide the	No significant change / minor editorial amendmen
5.5.7				
5.5.7	because in discourse a risk of account to account to a constant to the constan		harmonized, common point of access by operations personnel, including flight	
5.5.7	harmonized, common point of access by operations personnel, including flight			
5.5.7	crew members and other aeronautical personnel concerned, to aeronautical data,		crew members and other aeronautical personnel concerned, to aeronautical data,	
5.5.7			crew members and other aeronautical personnel concerned, to aeronautical data, aeronautical information and meteorological information, the civil aviation	
5.5.7	crew members and other aeronautical personnel concerned, to aeronautical data,			
5.5.7	crew members and other aeronautical personnel concerned, to aeronautical data, aeronautical information and meteorological information, the civil aviation		aeronautical information and meteorological information, the civil aviation	

PANS AI	M	Annex 1	L5 (15th Edition)	Assessment
Para No.	Text of Standard		Text of Standard	
6.1.1	The same update cycle shall be applied to the Aeronautical Information Publication (AIP) and the digital data sets in order to ensure the consistency of the data items that appear in multiple aeronautical information products.			NEW Standard
6.1.2.1	The AIP Amendment regular interval shall be specified in the AIP, Part $1-\mathbf{General}$ (GEN).	4.2.9.1	The regular interval referred to in 4.2.9 shall be specified in the AIP, Part 1 — General (GEN).	No significant change / minor editorial amendment
6.1.2.2	When an AIP Amendment will not be published at the established interval or publication date, a NIL notification shall be originated and distributed by the NOTAM checklist.	4.3.7	When an AIP Amendment will not be published at the established interval or publication date, a NIL notification shall be originated and distributed by the monthly plain-language list of valid NOTAM required by 5.2.13.3.	List of valid NOTAM as a means of NIL notification has bee replaced by the NOTAM Checklist
6.1.2.3	Recourse to hand amendments or annotations shall be kept to a minimum.	4.2.9	Recourse to hand amendments or annotations shall be kept to the minimum.	No significant change / minor editorial amendment
6.1.3	When an error occurs in an AIP Supplement or when the period of validity of an AIF Supplement is changed, a new AIP Supplement shall be published as a replacement.		When an error occurs in an AIP Supplement or when the period of validity of an AIP Supplement is changed, a new AIP Supplement shall be published as a replacement.	
6.1.4.2	NOTAM notifying unserviceability of aids to air navigation, facilities or communication services shall give an estimate of the period of unserviceability or the time at which restoration of service is expected.	5.1.1.5	NOTAM notifying unserviceability of aids to air navigation, facilities or communication services shall give an estimate of the period of unserviceability or the time at which restoration of service is expected.	No significant change / minor editorial amendment
6.1.4.3	At least seven days' advance notice shall be given of the activation of established danger, restricted or prohibited areas and of activities requiring temporary airspace restrictions other than for emergency operations.	5.1.1.4	At least seven days' advance notice shall be given of the activation of established danger, restricted or prohibited areas and of activities requiring temporary airspace restrictions other than for emergency operations.	No significant change / minor editorial amendment
6.1.4.4	Within three months from the issuing of a permanent NOTAM, the information contained in the NOTAM shall be included in the aeronautical information products affected.			NEW Standard
6.1.4.5	Within three months from the issuing of a temporary NOTAM of long duration, the information contained in the NOTAM shall be included in the AIP Supplement.		-	NEW Standard
6.1.4.6	When a NOTAM with estimated end of validity unexpectedly exceeds the three- month period, a replacement NOTAM shall be issued, unless the condition is expected to last for a further period of more than three months; in this case, an AIF Supplement shall be issued.			NEW Standard
6.1.4.7	When an AIP Amendment or an AIP Supplement is published in accordance with AIRAC procedures, a so-called "Trigger NOTAM" shall be originated giving a brief description of the contents, the effective date and time, and the reference number of the amendment or supplement.	5.1.1.6	When an AIP Amendment or an AIP Supplement is published in accordance with AIRAC procedures, a NOTAM shall be originated giving a brief description of the contents, the effective date and time, and the reference number of the amendment or supplement. This NOTAM shall come into force on the same effective date and	No significant change / minor editorial amendment
6.1.4.7.1	The Trigger NOTAM shall come into force on the same effective date and time as the amendment or supplement and shall remain valid in the pre-flight information bulletin for a period of fourteen days.		time as the amendment or supplement and shall remain valid in the pre-flight information bulletin for a period of fourteen days.	No significant change / minor editorial amendment
6.1.4.7.2	In the case of an AIP Supplement, the Trigger NOTAM shall remain valid for a period of fourteen days.			NEW Standard
6.1.4.7.3	In the case of an AIP Supplement that is valid for less than fourteen days, the Trigger NOTAM shall remain valid for the complete validity period of the AIP Supplement.			NEW Standard
6.1.4.7.4	In the case of an AIP Supplement that is valid for fourteen days or more, the Trigger NOTAM shall remain valid for at least fourteen days.			NEW Standard
6.1.5.1	The update interval for the digital data sets shall be specified in the data product specification.			NEW Standard
6.1.5.2	Data sets that have been made available in advance (according to the AIRAC cycle) shall be updated with the non-AIRAC changes that occur between the publication and the effective date.			NEW Standard
				Prepared by: Abbas Niknejad

MID REGION AIM IMPLEMENTATION ROADMAP

Steps/Elements	ar	18 nd ore	20	19	20	20	20	21	20	22	202	23	202	24	20:	25	Priority	Remarks
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
AIXM database (AIXM V 5.X)																	1	(P07, P08)
AIP datasets																	1	(P06) (sub-datasets/grouping TBD)
eAIP																	1	(P11)
Terrain A-1 Dataset																	1	(P13)
Obstacle A-1 Dataset																	1	(P14)
Terrain A-4 Dataset(s)																	1	(P13)
Obstacle A-4 Dataset(s)																	1	(P14)
Terrain A-2a Dataset(s)																	1	(P13) Terrain area 2a dataset (and its supplementary areas according to Annex 15, 5.3.3.3.3)
Obstacle A-2a Dataset(s)																	1	(P14) Obstacle area 2a dataset (and its supplementary areas according to Annex 15, 5.3.3.4.5)
NOTAM Improvements																	1	(P21) Step 1 (2019): identification of operational conditions under which a NOTAM shall or shall not be originated Step 2 (TBD): replacement of current NOTAMs by a digital version through the use of AIXM
Agreement with data originators																	1	(P18)
Provision of quality-assured aeronautical data and information																	1	(P01, P02)
Training											i						1	(P16) Continuous
Aeronautical Data Exchange																	2	(P09)
Instrument Flight Procedure (IFP) Dataset(s)																	2	(P06)
Dissemination of Aeronautical Information in SWIM environment																	3	(P09)
Aerodrome Mapping Dataset(s)																	3	(P15) Based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs

Steps/Elements	aı	2018 and before		2019		2020		2021		2022		2023		2024		25	Priority	Remarks
	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	2		
Interoperability with MET															4			(P19) Based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
Aeronautical Information Briefing																	3	(P12) (Digital briefing) Based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
Electronic Aeronautical Charts																	3	(P20) Based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs