

APPENDIX - MINIMUM REPORTING AREAS

AERODROMES OPERATIONS (AOP)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
AERODROME DESIGN								
1.	Annex 14 - Vol 1, Chapter 1 PANS- Aerodromes, Part 1, 2	Aerodrome Master Plan		The lack of airports master plans affect their short to medium term capacity enhancement projects; restricting their ability to fulfil capacity needs.				
2.	Annex 14 - Vol 1, Chapter 2, 3 PANS- Aerodromes, Part 1, 2 AFI ANP, Vol II - AOP	Runways		<p>Deficiencies in the provision of adequate runways may adverse safe take-off and landing of aeroplanes they are intended to serve.</p> <p>In view of the vital function of runways in providing for safe and efficient aircraft landings and take-offs, it is imperative that their design take into account the operational and physical characteristics of the aeroplanes expected to use the runway, as well as engineering considerations.</p>				

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3.	Annex 14 - Vol 1, Chapter 2, 3 PANS-Aerodromes, Part 1, 2	Taxiways		Improperly designed taxiway system will affect the smooth and continuous flow of aircraft ground traffic, with low level of safety and efficiency, as well as minimum optimization of the aerodrome utilization.				
4.	Annex 14 - Vol 1, Chapter 2, 3 PANS-Aerodromes, Part 1, 2	Aprons		Inappropriate apron design and safety procedures for aircraft manoeuvring will decrease the efficiency for aircraft movements and dispensing apron services.				
5.	Annex 14 - Vol 1, Chapter 2, 5, 6, 7 PANS-Aerodromes, Part 1 AFI ANP, Vol II - AOP	Visual Aids		Lack of appropriate visual aids affects the safety and operational efficiency of aircraft and vehicle movements. These aids are essential to ensure that the cues that they provide are available in all circumstances.				

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6.	Annex 10 - Vol 1, Chapter 3	Radio Navigation Aids		Radio Navigation Aids contribute to the safety and operational efficiency of aircrafts. Lack of maintenance of zones surrounding these aids and the presence of obstacles will affect the cues that they provide with negative impacts on aeroplanes take-off and landing.				
7.	Annex 14 - Vol 1, Chapter 8 PANS- Aerodromes, Part 1 AFI ANP, Vol II - AOP	Electrical Systems		Lack of appropriate electrical systems affects air navigation facilities and the safety and operational efficiency of aircraft and vehicle movements. The design and good maintenance of these aids is essential to ensure that the cues that they provide are available in all circumstances.				

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8.	Annex 14 - Vol 1, Chapter 1	Terminals		The lack of integration of international civil aviation security measures in the architectural and infrastructure designs and construction of new facilities and alterations to existing facilities at an aerodrome would negatively affect optimization of implementation of security requirements.				
9.	Annex 14 - Vol 1, Chapter 9 PANS- Aerodromes, Part 1	Fencing		Lack of fences on an aerodrome could lead to the entrance to the movement area of animals large enough to be a hazard to aircraft.				
AERODROME OPERATIONS								
10.	Annex 14 - Vol 1, Chapter 2 PANS- Aerodromes, Part 1, 2 AFI ANP, Vol II - AOP	Aerodrome Data		The lack of determination and reporting of aerodrome related aeronautical data in accordance with the accuracy and integrity classification shall negatively affect the needs of the end users of aeronautical data, and hence the safety of operations.				

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11.	Annex 14 - Vol 1, Chapter 9 PANS-Aerodromes, Part 1	Emergency planning		Lack of adequate and effective emergency planning can seriously affect the management of an emergency, particularly in respect of saving lives and maintaining aircraft operations.				
12.	Annex 14 - Vol 1, Chapter 2, 9 PANS-Aerodromes, Part 1 AFI ANP, Vol II – AOP	Rescue and Firefighting		Lack of adequate and effective rescue and firefighting service can endanger an aircraft involved in an emergency operation, including affecting capabilities to save lives in the event of an aircraft accident or incident occurring at, or in the immediate vicinity of an aerodrome				
13.	Annex 14 - Vol 1, Chapter 2, 9 PANS-Aerodromes, Part 1	Disable Aircraft Removal		Lack of adequate and effective disabled aircraft removal plans can interfere with normal activity of an aerodrome by reducing the aerodrome capacity whenever there is an incident including but not limited to runway and taxiway closures which would reduce arrivals, departures and restrict aircraft movements.				

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14.	Annex 14 - Vol 1, Chapter 9 PANS-Aerodromes, Part 1	Wildlife Strike Hazard Reduction		Lack of measures (successful bird/wildlife control programme) on an airport and in its vicinity to minimize the likelihood of collisions between wildlife and aircraft will increase the risk to aircraft operations				
15.	Annex 14 - Vol 1, Chapter 2, 9 PANS-Aerodromes, Part 1	Operational Area Management		Lack of appropriate airport operational services will affect the safety and efficiency of aircrafts operations.				
16.	Annex 14 - Vol 1, Chapter 9	Ground Servicing of Aircraft		Lack of adequate Ground Servicing of Aircraft will affect the safety and efficiency of aircrafts operations.				

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17.	Annex 14 - Vol 1, Chapter 4, 6 PANS-Aerodromes, Part 1	Control of obstacles		Lack of define airspace free from obstacles around aerodromes will prevent the intended aeroplane operations at the aerodromes to be conducted safely, leading to the aerodromes from becoming unusable by the growth of obstacles around the aerodromes. Objects which penetrate the obstacle limitation surfaces may in certain circumstances cause an increase in the obstacle clearance altitude/height for an instrument approach procedure or any associated visual circling procedure or have other operational impact on flight procedure design.				
18.	Annex 14 - Vol 1, Chapter 10 PANS-Aerodromes, Part 1	Aerodrome Maintenance		The lack of effective aerodrome maintenance programmes can impair the safety, regularity and efficiency of air navigation.				

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19.	Annex 14 - Vol 1, Chapter 1 PANS-Aerodromes, Part 1	Safety Management		Inadequate SMS implementation will affect the proactively mitigate safety risks before they result in aviation accidents/ incidents, and negatively impact operational efficiencies.				
AERODROME CERTIFICATION								
20.	Annex 14 - Vol 1, Chapter 1 to 10 PANS-Aerodromes, Part 1, 2	Aerodrome Certification		Lack of certification of an aerodrome signifies to aircraft operators and other organizations operating on the aerodrome that, the aerodrome does not meet the specifications regarding the facility and its operation.				
21.	PANS-Aerodromes, Part 1	Safety assessments and Aerodrome Compatibility		Inadequate safety assessments and aerodrome compatibility assurance will impair safe aeroplane operations with regard to aerodrome infrastructure and operations, when an aerodrome accommodates an aeroplane that exceeds its certificated characteristics.				

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ASBU MODULES								
22.	[APIRG Conc. 19/06] AFI eANP	B0-ACDM		Inadequate collaborative decision making (the way operational partners at airports work together by means of an airport collaborative information sharing platform and procedures as a base for A-CDM implementation), will reduce Airport operational improvements.				
23.	[APIRG Conc. 19/06] AFI eANP	B1-ACDM		Inadequate collaborative decision making (the way operational partners at airports work together), will impair Airport and ATM operational improvements through. This entails implementing collaborative airport operations planning (AOP) and where needed an airport operations centre (APOC).				

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CLASSIFICATION OF AIRSPACES [Annex 11, 2.6]								
24.	[Annex 11 Para 2.6] [AFI/7 Rec. 5/21]	Designation of Airspace		Use of non-standard naming of ATS airspace may lead to misunderstanding of the type of ATS available which in turn leads to inefficiency in traffic management and impacts on flight safety				
PERFORMANCE-BASED NAVIGATION [Annex 11, 2.7] [A37 Resolution]								
25.	[Annex 11, Para 2.7] AFI/7 Rec. 6/9 APIRG 18 CONC. 18/09	Implementation PBN National Plan		Lack of implementation of a national PBN plan will lead to inability to achieve targets set as part of the Global PBN implementation goals and thus impact on efficient traffic management				
26.	[A37 Resolution] [AFI/7 Conc. 5/7]	Implementation of PBN RNAV and RNP routes		Insufficient number of RNAV/RNP routes impacts on efficient traffic management, flight safety and environment				

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27.	[A37 Resolution]	Implementation of PBN approach procedures with vertical guidance (APV)		Insufficient implementation of RNP approaches with/without vertical guidance				
28.	[A37 Resolution]	Implementation of PBN approach procedures with vertical guidance (APV)		Inefficient implementation of RNAV/RNP terminal routes (CCO/CDO) impacts on environment and fuel saving				
29.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU Block BO-APTA		Lack of Optimization of Approach Procedures including vertical guidance impacts on flight safety				
30.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU Block BO-FRTO		Lack of Improved Operations through Enhanced En-Route Trajectories leads to inefficiency in traffic management and impacts on flight safety				

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31.	AFI ASBU Plan/ APIRG/19	Implementation of ABSU BO- TBO, CDO, and CCO		Lack of Improved Flexibility and Efficiency in Descent Profiles (CDO) and Continuous Climb Operations (CCO) impacts on environment and fuel saving				
32.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU BO- SNET		Lack of Increased Effectiveness of Ground-Based Safety Nets impacts on flight safety and inefficiency in traffic management				
33.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU BO-RSEQ and WAKE		Lack of efficient AMAN/DMAN may lead to inefficiency in traffic management and cause delays				
34.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU BO- ASEP		Lack of Air Traffic Situational Awareness(ATSA)				
35.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU BO- OPFL		Improved access to Optimum Flight Levels through Climb/Descent Procedures using ADS-B				

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36.	AFI ASBU Plan/ APIRG/19	Implementation of ASBU BO- TBO		Lack of Improved Safety and Efficiency through the initial application of Data Link En-Route may impact on flight safety				
37.	ICAO Doc.8168 PANSOPS	Implementation of PANSOPS oversight office		Inefficient implementation of PANSOPS oversight structures within CAAs may lead to poorly designed flight procedures which may impact on flight safety				
38.	[ICAO PBCS DOC 9869] APIRG 20 CONC. 20/09	PBCS: State database of RSP 180/RCP 240 approval/ withdrawal status		Lack of implementation of a state database may lead to exclusion from PBCS implemented airspace, and inefficiency in flight operations.				
39.	[Annex 11, 2.27.1]	Implementation of States Safety Plan (SSP)		Lack of implementation of a robust and efficient SSP leads to inability to oversight safety levels in the provision of services which will result in inability for state to guarantee acceptable level of safety in the provision of ATS				

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40.	[Annex 11, 2.27.3] [PANS-ATM, Doc. 4444 Chapter 2]	Implementation of Safety Management System (SMS)		Lack of implementation of a robust and efficient SMS leads to inability to achieve or guarantee acceptable level of safety in the provision of ATS				
LANGUAGE PROFICIENCY [Annex 11, 2.29]								
41.	[Annex 1 Annex 11] [A37-10 Resolution] [AFI/7 RAN]	Compliance with the English Language Proficiency (ELP) requirements		Lack of compliance with ELP requirements can result in miscommunication leading to risk on flight safety				
42.	[PANS-ATM Doc. 4444 Chapter 12]	Phraseology		Use of non-standard phraseology in the provision of ATS can result in confusion and misinterpretation of instructions which can impact on safety of air navigation				
AIRSPACE MANAGEMENT (ASM)								

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43.	[AFI/7, Rec. 5/1] GPI-7	Cooperative Approach in Airspace Management		Lack of implementation of a system for cooperative approach to airspace management may lead to inefficiency in airspace management which then impacts on flight safety and flight operations.				
44.	[Annex 11 Para 2.12]	Route Designators		Use of non-standard ATS route designators may lead to confusion/misinterpretation of ATC requirements for position reports that can affect situation awareness and lead to provision of non-standard separation minima by ATC Units.				
45.	[PANS-ATM Doc. 4444 Chapter 2] [ICAO SL 2017_101 Ref: AN 11/45.5-17]	Five- Letter Naming Code (5-LNC)		Uncoordinated use of 5 – Letter Naming Code (5-LNC) for waypoints may lead to duplication of waypoints and conflicting waypoints having same name but different coordinates and/or similar pronunciation of waypoints located within close proximity which impacts on flight safety				

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46.	[AFI/7, Rec. 5/3] [Annex 11 Para 2.17, 2.30] [PANS ATM Doc. 4444 Chap. 10] [Doc.10088]	Civil/Military Coordination		Lack of effective civil/military coordination may result in unsafe and inefficient use of airspace				
47.	[Annex 11 Para 2.12] AFI eANP VOL II	ANP – Route Network		Non implementation of the approved regional route network results into lack of route continuity across the region leading to inefficiency in airspace management and impact on flight safety				
48.	[AFI/7, Rec. 5/2] [Annex 11] [PANS ATM Doc. Chap. 15.6] APIRG 21 CONC. 21/05	Contingency Plan		Lack of a well-defined National Contingency Plan may lead to uncoordinated and unsafe operation of aircraft during disruption of ATS within affected airspace(s).				

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49.	[LIM AFI, Rec. 2/1] APIRG 19 Conc. 19/13	Airspace Sectorization		Non applicability of uniform division between lower and upper airspace across FIRs and ICAO Regions leads to inefficiency in traffic management and impacts on flight safety				
50.	[AFI/7, Rec. 5/5] Chicago Convention - Article 3 bis	Interception of Civil Aircraft		Non publication of interception procedures in AIP/ or lack of clear procedures for handling civil aircraft under interception may lead to misunderstanding of instructions during interception which would endanger the aircraft under interception and the lives of those on board.				
51.	[AFI/7, Rec. 5/4] Chicago Convention - Article 3 bis	Interception of Civil Aircraft		Non Ratification of Article 3 <i>bis</i> of the Convention on International Civil Aviation. Lack of adequate procedures to handle aircraft under interception leading to risk to flight safety				

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52.	[AFI/7, Rec. 5/10] [Annex 11] [Doc 9426]	SIDs and STARs		Non implementation of Standard Instrument Departures (SIDs) and Standard Arrival Routes (STARs) leads to inefficiency in traffic management and impacts in flight efficiency and safety.				
AIR TRAFFIC SERVICES (ATS)								
53.	[Annex 11 Chapter 3,4&5] [APIRG 19 Conc. 19/13] [PANS ATM Doc.4444 Chap.4]	Provision of ATS		Lack of the provision for air traffic services where required leads to inefficiency in traffic management and impacts on flight safety				
54.	[Annex 11 Para 2.3] [AFI/7 Rec. 5/21] [APIRG 19 Conc. 19/13]	Area Control Service		Lack of the provision of area control service where required leads to inefficiency in enroute traffic management and impacts on flight safety				

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55.	[AFI/7 RAN Rec 14/7] [Annex 1]	ATS Personnel Competency		Provision of ATS by non-competent personnel will lead to unsafe provision of ATS which impacts on flight safety				
56.	[PANS ATM Doc. 4444 Chapter 10]	Letters of Agreements or Procedures		Lack of coordinated and signed letters of agreements between ATS and other ATS units (ATSU) may lead to lack of uniformity in application of ICAO standards which would impact on flight safety.				
57.	[AFI/7, Rec. 5/6] [APIRG 23 Conc. 23/08]	Civil/Military Coordination		Lack of coordinated and signed letters of agreements between ATS and the Military may lead to lack of uniformity in application of ICAO standards which would impact on flight safety.				
58.	[PANS-ATM Doc. 4444 Chapter 4]	ATC Procedures		Implementation of inadequate ATC procedures leads to inconsistent and unsafe provision of ATS which impacts on flight safety				

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59.	[AFI/7, Rec. 5/22] [PANS ATM Doc.4444 Chap.4.4, Chap. 16.4 and Appendix 2]	Flight Planning		Use of non-standard format in for the repetitive flight planning may lead to inconsistency of flight data and increase the numbers of missing flight plans and possible overload on the ATM system. This impacts on operational flight safety and efficiency.				
60.	[AFI/7, Rec. 5/26] [PANS ATM Doc.4444 Chap. 16.3 and Appendix 4]	ATS Incident Investigation		Lack of an effective system for reporting and investigation of ATS incidents leads to an ineffective Safety Management System (SMS) which leads to continuous occurrence of similar incidents leading to high probability of aircraft accident				

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61.	[PANS-ATM Doc. 4444 Chap. 16.5] [ICAO Cir. 331] [APIRG Conc.17/43] [APIRG 20 Conc. 20/19]	Strategic Lateral Offset Procedures (SLOP)		Lack of implementation of SLOP increases the potential to aircraft collision				
62.	[PANS-ATM Doc. 4444] [Doc 7030]	Flight Level Allocation Scheme (FLAS)		Application of undue Flight Level restriction in the RVSM airspace leads to Non-efficient use of RVSM airspace and impacts on flight efficiency and safety				
63.	[AFI/6, Rec. 7/11] [PANS-ATM Doc. 4444 Chap. 12]	Radiotelephony Procedures		Lack of applicability of standard radiotelephony phraseologies and procedures can create confusion and impact on safety of air navigation				
64.	[PANS-ATM Doc. 4444 Chapter 5]	Separation Standards		Use of non-standard separations minima increases potential for air traffic incidents including accidents				

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65.	[Annex 11 Chapter 7] [PANS ATM Doc 4444 Chap. 4.12]	Provision of Met Information To ATS		Lack of provision of timely and accurate MET information to pilots can affect operational decisions and safety of operations				
REDUCED VERTICAL SEPARATION MINIMA (RVSM)								
66.	[SP AFI/RAN Rec. 5/21] [APIRG 23 CONC 23/03]	RVSM Data		Lack of submission of monthly RVSM data to ARMA leads to lack of data used to calculate Critical Risk Assessment (CRA) which impacts on flight safety				
67.	[Doc 9574] [Annex 11 Para 3.3.5.1] [SP AFI/RAN Rec 5/21] [APIRG 23 CONC. 23/03]	Large Height Deviation		Non-reporting of LHD leads to unsafe trends and inability to detect hotspots. It also leads to lack of information used to calculate the total Target Level of safety (TLS) in the annual collision risk assessment.				

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68.	[Doc.4444 Chap. 4.4.1.4 (b)] [Annex 6] [APIRG 22 & RASG AFI/5 Conc. 23/1/04]	RVSM Approvals and Monitoring/		Lack of updated information on RVSM approved aircraft leading to risk to flight operations in the RVSM airspace				
69.	[Annex 6]	Long Term Height Monitoring (LTHM)/	2006	Non-adherence to requirements for LTHM may leads to restrictions for operations in global RVSM airspace which impacts on flight efficiency and safety.				
FLIGHT INFORMATION SERVICE (FIS)								
70.	[AFI/6, Rec. 6/12]	Aerodrome Flight Information Service (AFIS)		Lack of AFIS can lead to inefficient management of aerodrome traffic and may impact on safety of air navigation				

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71.	[AFI/7, Rec. 5/12]	VHF radio coverage		Non availability of two-way communication between ATS units and aircraft leads to inefficient management of traffic and impacts on flight safety				
72.	[AFI/6, Rec. 6/15]	Air Traffic Advisory Service (ADS)		Lack of ADS can impact on safety of air navigation				
ATS REQUIREMENTS FOR AERONAUTICAL FIXED SERVICE COMMUNICATIONS								
73.	[LIM AFI, Rec. 10/36]	ATS direct speech circuits		Lack of timely coordination of traffic information leading to inefficient of air traffic management				
74.	[AFI/7, Rec. 5/24]	Communications		Lack of routine or outdated communication systems may lead to lack of interoperability/integration that leads to poor/ lack of timely coordination of traffic and inefficiency in traffic management.				

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75.	[AFI/7, Rec. 5/14]	VOLMET		Non Provision of HF and VHF for VOLMET broadcasts. Inadequate exchange of VOLMET information between ATSU and Aircraft can lead to risk to flight safety.				
SEARCH & RESCUE (SAR)								
76.	[Annex 12, Chapter 3] [AFI/7 Rec. 6/3] [APIRG 23 Conc. 23/07]	SAR Agreements		Lack of SAR agreements between neighbouring States / RCCs can be detrimental to safety of persons in distress where searches overlap national boundaries.				
77.	[Annex 12, Section 4.3]	SAR Units		Lack of adequately equipped and trained search and rescue units and adequate survival and medical supplies can seriously affect the conduct and outcome of SAR operation				
78.	[AFI/7 Rec. 6/5]	SAR Training		Lack of formal and refresher training for SAR personnel can hinder the effectiveness of SAR operation				

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79.	[Annex 12, Section 4.4]	Search and Rescue Exercises (SAREX)		Lack of regular training of search and rescue personnel and conduct of regular search and rescue exercises can prevent achievement of maximum efficiency in search and rescue operation.				
80.	[AFI/7 Rec. 6/1] [AFI/7 Rec. 6/2] [APIRG 23 Conc. 23/07]	Satellite Aided SAR		Lack of implementation of procedures to receive satellite aided SAR will result in difficulty in detection, identification and location of activated 406 MHz ELTs and loss of valuable time for SAR				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

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COMMUNICATION								
81.	[AFI/7, Rec. 5/24] Annex 10 Vol.2 &3	Improvement of communications		Unreliable communication systems				
82.	[LIM AFI, Rec. 10/36] Annex 10 Vol 2 Chap.4 Para4.2	Implementation of ATS direct speech circuits		Unavailable ground /ground voice communication				
83.	[APIRG Conc. 19/25]	Implementation of VoIP		Unavailable ground /ground voice communication switching system				
84.	[APIRG Conc. 21/26]	Implementation of AIDC		Unavailable automated data ground/ground coordination communication between ATSU's				
85.	[AFI/7, Rec. 9/7] Annex 10 Vol 2	Aeronautical fixed telecommunication network (AFTN)		Unavailable alphanumeric ground/ground messages communication between ATSU's				
86.	[AFI/7, Rec. 9/5] Annex 10 Vol 2	AFTN COM centre management		Potential loss of alphanumeric messages communication				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
87.	[AFI/7, Rec. 9/4] Annex 10 Vol 2	AFTN circuits/performance		Potential loss of performance of alphanumeric messages communication				
88.	[AFI/7, Rec. 9/3] Annex 10 Vol 2	AFTN efficiency		Potential loss of efficiency of alphanumeric messages communication				
89.	[APIRG Conc. 20/22]	AMHS circuits/performance		Potential loss of performance of digital messages communication				
90.	[AFI/6, Rec. 12/26]	AFS personnel training		Lack of technical & operational personnel capacity to handle technical task related to a proper operation of AFS circuits				
91.	[LIM AFI, Rec. 7/13]	Liaison visits by communication centre personnel		Lack of assistance and guidance to technical personnel in the conduct of proper functioning and operation of AFS circuits				
92.	[AFI/7, Rec. 9/10]	Satellite broadcast		Unavailability of regional wide area satellite broadcasted communication				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
93.	[AFI/7, Rec. 5/12] Annex 10 Vol 2	Implementation of VHF radio coverage		Poor reliable duplex Air/ground voice communication				
94.	[AFI/6, Rec. 13/4]	Provision of SELCAL		Poor reliable duplex Air/ground voice communication				
95.	[Annex 11, Chapter 6]	Lack of essential communication facilities to support the provisions of ATS (internal and external)		Unavailable ground /ground voice communication				
96.	[AFI/6, Rec. 13/3]	Improved use of the aeronautical mobile service (HF)		Poor reliable duplex Air/ground voice communication				
97.	[AFI/7, Rec. 5/14]	HF and VHF VOLMET broadcasts		Poor reliable duplex Air/ground voice communication				
98.	[APIRG Conc.17/25]	Implementation of controller-pilot data link communications (CPDLC)		Poor reliable duplex Air/ground datalink communication				
99.	[APIRG Conc.17/26]	Implementation of Required Performance Communication (RCP)		Inefficient duplex air/ground datalink communication				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

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100.	[AFI/6, Rec. 13/12, FASID Table ATS 2]	HF VOLMET broadcasts		Unavailability of MET information broadcast system				
NAVIGATION (FASID Table CNS 3)								
101.	[Doc. 9718 Vol II]	Planning principles for radio navigation aids		Potential lack of ARNS				
102.	[AFI/6, Rec. 14/1]	Testing of radio navigation aids		Potential inaccurate signal radiated by radio navigation aids				
103.	[AFI/6, Rec. 14/3]	Reliability of operation of radio navigation aids		Potential unreliable signal radiated by radio navigation aids				
SURVEILLANCE (FASID Tables CNS 4A and 4B)								
104.	[AFI/7, Conc. 11/2]	Application of procedures for 24-bit aircraft address assignment		Potential risks of dysfunction of SSR Mode S service due to non-harmonized procedures for 24-bit aircraft address assignment				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)								
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105.	[PANS-ATM Chapter 8]	Lack of essential surveillance facilities to support the provisions of ATS		Lack of surveillance service provision to support ATS delivery				
106.	[APIRG Conc.17/31]	Implementation of automatic dependent surveillance (ADS-C)		Lack of surveillance service provision to support ATS delivery in the oceanic and continental remote airspace				
107.	[APIRG Conc. 20/09 APIRG Conc.21/09]	Implementation Required Surveillance Performance RSP		Inefficient duplex air/ground datalink surveillance service				
108.	[APIRG Conc. 21/33 APIRG Conc. 22/40]	Implementation of automatic dependent surveillance (ADS-B)		Lack of surveillance service provision to support ATS delivery				
SPECTRUM								
109.	[LIM AFI, Rec. 9/3]	Frequency utilization lists LF/MF, 108 MHz to 117.975 MHz and 960 MHz to 1 215 MHz bands		Potential risks of harmful interferences				
110.	[Doc 9718]	Geographical separation criteria for VHF air-ground communications		Potential risks of harmful interferences				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
111.	[APIRG Conc. 13/18]	Frequency stability and effective adjacent channel rejection characteristic in the VHF mobile		Potential risks of harmful interferences				
112.	[LIM AFI, Rec. 8/5]	Elimination of interference on AMS frequencies		Lack or poor quality of air/ground duplex communication				
113.	[LIM AFI, Rec. 8/6]	Measures to reduce harmful interference from carrier systems		Lack or poor quality of air/ground duplex communication				
114.	[Doc 9718 Vol 2]	VHF frequency utilization list		Lack or poor quality of air/ground duplex communication				
115.	[AFI/6, Rec. 13/13]	Notification of frequency assignments		Non updated regional and global COM Lists				
116.	[AFI/6, Rec. 13/14]	VHF channels for aerodrome and approach control		Risk of VHF channels congestion in the aerodrome				
117.	[AFI/6, Rec. 14/4]	Notification of frequency assignments to radio navigation aids		Non updated regional and global COM Lists				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
118.	[AFI/7, Rec. 10/2]	Geographical separation criteria for VOR and/or VOR/DME installations in the AFI region		Risks of harmful interferences amongst VHF/UHF Nav' Aids				
119.	[AFI/7, Rec. 10/3]	Geographical separation criteria for ILS installations in the AFI region		Risks of harmful interferences amongst VHF/UHF landing systems				
120.	[APIRG Conc. 20/30]	VSAT station frequency not registered in the ITU Master International Frequency Register (IMIFR)		Lack of protection and risk of harmful interferences				
ASBU MODULES – COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)								
121.	[GANP Doc., 9750 APIRG Conc 19/39]	B0-FICE: Interoperability, Efficiency and Capacity through Ground-Ground Integration		Lack of interconnection and interoperability between neighbouring ATSU's CNS/ATM systems				
122.	[GANP Doc., 9750]	B0-ASUR: Initial capability for ground surveillance		Lack of ground based surveillance systems				

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COMMUNICATION NAVIGATION AND SURVEILLANCE (CNS)

	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
123.	APIRG Conc 19/39]	B0-APTA: Optimization of Approach Procedures including vertical guidance		Lack of CAT I landing capability				
124.	[GANP Doc., 9750	B0-ACAS: ACAS Improvements		Lack of improved collision avoidance separation system				
125.	APIRG Conc 19/39]	B0-TBO: Improved Safety and Efficiency through the initial application of Data Link En-Route		Poor reliable duplex Air/ground datalink communication				

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AERONAUTICAL INFORMATION MANAGEMENT (AIM)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
INTERNATIONAL NOTAM OFFICE								
126.	Annex 15: chapter 6 PANS-AIM: chapter 6, appendices 3,4,5,7	NOTAM service		In order to meet the operational needs of the users, it is essential to provide information that is timely and fit for purpose. Lack of timely issuance of relevant NOTAM about status and condition of air navigation services infrastructure can affect the safely and efficient conduct flight operations.				
CARTOGRAPHY OFFICE								
127.	Annex 15: chapter 5 Annex 4: all chapters PANS-AIM: chapter 5, appendix 2 PANS-OPS: part I, chapter 9 and all “promulgation” chapters	Cartography service		Annex 4 requires each Contracting State to ensure the availability of the required charts either by producing the charts itself, or by arranging for production by another Contracting State or by an agency. Non-provision of up to date aeronautical charts that fit operational need can impact on safety of air navigation				

APPENDIX E1 - MINIMUM REPORTING AREAS

AERONAUTICAL INFORMATION MANAGEMENT (AIM)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
PUBLICATION OFFICE								
128.	Annex 15: chapter 5 PANS-AIM: chapter 5, appendix 2 PANS-OPS: part III, section 5	Aeronautical Information Publication service		The AIP constitutes the basic source for aeronautical information of permanent and long duration nature. Non-provision of an AIP that is standard formatted, of quality-assured and regularly updated can jeopardize the safety of air navigation.				
AERODROME/HELIPORT AIS UNITS								
129.	Annex 15: chapter 5 PANS-AIM: chapter 5	Pre-flight briefing service		For any aerodrome used for international air operations, aeronautical information of operational significance relative to the route stages originating at the aerodrome shall be provided to flight operations personnel. Lack of pre-flight information can affect flight planning and safety of air navigation.				

APPENDIX E1 - MINIMUM REPORTING AREAS

AERONAUTICAL INFORMATION MANAGEMENT (AIM)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
130.	Annex 15: chapter 5	Post-flight information service		<p>Information concerning the state and operation of air navigation facilities or services, or information relative to the presence of wildlife hazards reported by flight crews is essential for the safety of other flights.</p> <p>Non-implementation of an effective post-flight information service will fail to update AIS with operational significant information noted by flight crews.</p>				
ASBU MODULES								
131.	APIRG conclusion 19/6	B0-DATM: Service improvement through digital aeronautical information management		<p>The need for interoperable exchange of aeronautical data and information requires providing them in digital form and complying with digital data exchange requirements.</p> <p>Lack of AIS automation and non-implementation of digital data centric aeronautical products increase the chance of human errors during processing of aeronautical information and reduce efficiency of AIS.</p>				

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AERONAUTICAL INFORMATION MANAGEMENT (AIM)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks/ Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
132.	Annex 15: chapters 1,3,6	DAIM-B1/1: Provision of quality-assured aeronautical data and information		Non-implementation of Quality Management System applied to AIM and non-use of common reference systems (WGS84 and AIRAC) lead to the failure to provide aeronautical data and information of required quality.				
133.	Annex 15: chapters 5	DAIM-B1/3: Provision of digital terrain data sets		The need for interoperable exchange of terrain data requires providing the data in digital form and complying with digital data exchange requirements.				
134.	Annex 15: chapters 5	DAIM-B1/4: Provision of digital obstacle data sets		The need for interoperable exchange of obstacle data requires providing the data in digital form and complying with digital data exchange requirements.				

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AERONAUTICAL METEOROLOGY (MET)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
135.	Annex 3, Chapter 9, App. 8	Fight briefing services		Deficiencies in providing Aeronautical users with the latest available information on existing and/or expected meteorological conditions along the route to be flown, at the aerodrome of intended landing, alternate aerodromes and other aerodromes as relevant, may lead to safety issues for aircrafts				
136.	Annex 3, Chapter 3, 4; App. 2,3 AFI eANP Volume II Part V, Table II-2, 3 ; §2.2, §2.3, §2.8, §2.11, §2.12	Met. observations and report services		Lack of local routine and local special reports (disseminated at the aerodrome of origin) may deprive aircrafts arriving /departing of information on hazardous weather conditions at the airport, which constitutes a safety risk. Lack of routine and special reports (disseminated beyond the aerodrome of origin in appropriate format) may affect the effectiveness of the flight planning and may affect efficiency and safety of aircrafts in-flight in case of failure of VOLMET broadcast and D-VOLMET services.				

APPENDIX E1 - MINIMUM REPORTING AREAS

AERONAUTICAL METEOROLOGY (MET)								
	ICAO Reference Document	Description/Area	Date first reported	Remarks Impact of non-implementation	Action by States	Action taken/planned by State (including timelines/target dates)	Identified implementation impediment and action thereon	Status
137.	Annex 3, Chapter 3, 6; App. 2,5 AFI eANP Volume II Part V Table II-2, §2.4 - §2.8, §3.5, §3.6	Aeronautical meteorological forecast		The failure of provision of aeronautical meteorological forecasts, or the provision of aeronautical meteorological forecasts not complying with ICAO related SARPs may affect flights operations including descent phase, landing and take-off.				
138.	Annex 3, Chapter 7; App. 6 AFI eANP Part V Table II-1, Tableau II-2	Aeronautical meteorological warnings services		The lack of provision information on hazardous weather phenomena at the aerodrome in the form of aeronautical meteorological warnings (AD WRNG, WS WRNG and Alerts) may lead to safety issues for aircrafts for: <ul style="list-style-type: none"> • Aircrafts on the ground, parked aircraft, and the aerodrome facilities and services • Aircrafts on the approach path or take-off path or during circling approach : my experience WS in the approach/take-off paths. 				

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AERONAUTICAL METEOROLOGY (MET)								
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139.	Annex 3, Chapter 8; App. 7	Aeronautical climatological information services		The lack of climatological information may cause some issues for flight planning specially when real time information is missing. the absence of climatological information may represent concerns for aeronautical users including AGA, etc.				
140.	Annex 3, Chapter 3,7; App.6 AFI eANP Volume II Part V Table II-1 ; §2.8, §2.9, §3.5	SIGMET services		The lack of provision of SIGMET information in accordance with ICAO MET related SARPs will keep in-flight aircrafts out of information on en-route hazardous weather phenomena which may adversely affect the safety of high levels flights.				

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AERONAUTICAL METEOROLOGY (MET)								
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141.	Annex 3; Chapter 3,7; App.6	AIRMET services (where applicable)		The failure in providing airspace users operating in the low layers with the information on en-route hazardous phenomena (including the development of those phenomena in time and space), may cause safety issues to low-level flights..				
142.	Annex 3; Chapter 6, App. 5	GAMET services		The lack of area forecasts covering the layer between the ground and flight level 100 (or up to flight level 150 in mountainous areas, or higher, where necessary) may adversely cause safety issues to aircrafts operating at the low levels.				
143.	Annex 3; Chapter 5; App. 4,6	AIREP		The lack of the air-report /special air-report may deprive aircrafts of relevant information on weather phenomena (Icing, TURB, WS, Volcanic eruption, Volcanic ash), which may adversely affect the safety of other aircrafts in the areas affected.				

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AERONAUTICAL METEOROLOGY (MET)								
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144.	Annex 3, Chapter 3; App.2 AFI eANP Volume I Part V §2.1, §2.1	WAFS services		In the Africa-Indian Ocean Region, WAFS products in digital form should be disseminated to AFI States by WAFC London using the Secure SADIS FTP service and/or WIFS. The lack of the development of capacities by the State to receive and disseminate WAFS services in accordance with the related ICAO SARPs will mainly cause safety issues for en-route aircrafts operating at the high levels				
145.	Annex 3, Chapter 3; App.2 AFI eANP Volume I Part V §2.3, §2.4 ; Table AFI Met I-1 AFI eANP Volume II Part V Table FAI MET II-1	IAVW services		The failure of providing as required by ICAO SARPs and Air Navigation Plan, relevant information on volcanic ash in case of volcanic eruption, will cause serious safety issues for aircrafts operating in the affected areas.				

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AERONAUTICAL METEOROLOGY (MET)								
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146.	Annex 3, Chapter 3; App.2 AFI eANP Volume I Part V §2.5 AFI eANP Volume II Part V Table FAI MET II-1	TCAC services		Failure by the AFI MWOs to develop capabilities to receive and deal with TC advisories issued by TCAC La reunion in accordance with ICAO related SARPs will cause safety issues to airspace users operating in the affected areas.				
147.	Annex 3 Chapter 3 §3.8 ; App. 2	Space weather advisory information		Failure to provide airspace users with relevant information on space weather in conformity with ICAO SARPs, may result in safety risks that can affect airborne HF communications systems, Communications via satellite (propagation, absorption), GNSS-based navigation and surveillance (degradation) GNSS.				

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AERONAUTICAL METEOROLOGY (MET)								
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148.	Annex 3, Chapter 3 §3.1, §3.2, §3.5, §3.8; App.2 AFI eANP Volume I Part V §2	RMM services		In AFI Region, SADIS Services Provider State remotely provides agreed Aeronautical Meteorological Offices States with SADIS products, technical and administrative messages. States that fails to receive these products and technical/administrative information may experience some difficulties to adequately to respond to the airspace users' needs in terms of regular and reliable weather information.				
149.								
150.								
ASBU MODULES- AERONAUTICAL METEOROLOGY (MET)								
151.	GANP Doc 9750 AFI eANP Volume III Part II	B0-AMET - Meteorological information supporting enhanced operational efficiency and safety		State that fails to implement B0-AMET in accordance with their operational needs will not be able to support the improvement of operational efficiency and safety.				

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AERONAUTICAL METEOROLOGY (MET)

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152.								

Note: ICAO Council definition of a Deficiency:

'A deficiency is a situation where a facility, service or procedure does not comply with a regional air navigation plan approved by the Council, or with related ICAO Standards and Recommended Practices, and which situation has a negative impact on the safety, regularity and/or efficiency of international civil aviation'.