



First MID Region Safety Summit

28-30 April 2013

Bahrain



الطيران المدني
CIVIL AVIATION



مملكة البحرين
Kingdom of Bahrain

وزارة المواصلات
MINISTRY OF TRANSPORTATION

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FIRST MID REGION SAFETY SUMMIT
Summary of Discussions

I. GENERAL

1. Place and Duration

1.1 The First MID Region Safety Summit was held in Bahrain on 28-29 April, followed by a RASG-MID Steering Committee Meeting (RSC) on 30 April.

2. Opening

2.1 The Summit was opened by Mr Ahmed Nemat Ali, Acting Undersecretary of Ministry of Transportation's Civil Aviation Affairs, who welcomes all participants to Bahrain. In his remarks, Mr. Ahmed Nemat stressed on safety being a pressing issue in the aviation industry. He also affirmed the Kingdom of Bahrain's commitment in adopting latest international practices and standards, and adhering to the strictest regulations to ensure air safety and security.

2.2 Following Mr. Nemat's opening speech; the ICAO Middle East Regional Director Mr. Mohamed R. Khonji further reiterated the importance of aviation safety. He mentioned that improving the safety of the global air transport system is ICAO's guiding and most fundamental strategic objective with cooperation being the key to its success. He expressed that the main outcome expected from the summit is the development of a Middle East Safety Strategy which will provide the framework for the development of regional, sub-regional, and national implementation plans.

2.3 Representing IATA, the Regional Director of Safety, Operations, and Infrastructure for the Middle East and North Africa, Mr Achim Baumann concluded the opening session with a call on all stakeholders to work together for a safer, more secure, and sustainable operations under clearly defined rules. He reiterated that safety continues to be a number one priority and it is imperative that everyone works towards improving safety records and sharing the tools that support addressing safety concerns.

3. Attendance

3.1 The Summit was attended by 110 representatives from Airlines, Airports, Regulators, Air Navigation Service Providers, and Organizations.

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II. SUMMARY AND OUTCOME OF DISCUSSIONS

Regional Safety Perspective: Lessons learned & current initiatives

2.1 This session highlighted the lessons and learned and current initiatives from various organizations and provided an overview of the evolution of RASG-MID and its role. This session emphasized the need for joint and consolidated efforts rather than fragmented activities.

2.2 William Mermelstien, VP Commercial Operations representing the GFSC, gave an overview of the various activities under the Gulf Flight Safety Committee (GFSC) and how the GFSC will now work with RASG-MID. Mashhor Alblowi, Regional Officer Flight Safety from ICAO MID Office, gave an overview of RASG-MID, how it was established, and what is the working structure of this group.

2.3 The session was moderated by Capt. Richard Hill, COO from Etihad Airways.

2.4 During the session, the participants were encouraged to actively take part in the various activities and initiatives under RASG-MID. The GFSC, Airbus, MEEBA, and Egypt Air volunteered to take part in the various activities and support RASG-MID and its teams.

The Annual Safety Report – Key Safety Risk Areas for the MID Region

2.5 The analysis and safety data under the Annual Safety Report were presented by the Annual Safety Report Team Rapporteur, Ruby Sayyed, the Assistant Director SO&I MENA, IATA. During the presentation key challenges to collecting safety data were highlighted, and the participants were encouraged to take part in and support the Annual Safety Report Team (MID-ASRT). Egypt Air and SERCO UAE offered to provide safety data and support the work of the MID-ASRT.

2.6 Furthermore, the outline of the new edition of the Annual Safety Report was highlighted with expanded analysis under proactive and predictive safety data.

RASG Activities: RAST, and SST

2.7 This session provided an overview of the activities and work program under the Regional Aviation Safety Team (MID-RAST) and the Safety Support Team (MID-SST).

2.8 Haitham Gawas, the Rapporteur of MID-RAST, Manager Aviation Safety, GACA, gave an overview of the structure and work program of MID-RAST and the developed Safety Enhancement Initiatives (SEIs) and Detailed Implementation Plans (DIPs).

2.9 Thomas Curran, Senior Air Accident Investigator from UAE GCAA, on behalf of Mr. Ismaeil Abdelwahed, Rapporteur of the MID-SST, gave an overview of the structure and work program of SST and illustrated the main focus areas including accident and incident investigation and implementation of SMS and SSP.

Building on the work of RASG-MID: Developing a Regional Safety Strategy

2.10 This session was a panel discussion among representative of different organization; SL Wong, Senior Manager, Technical & Industry Affairs from ACI, Achim Baumann, Regional Director SO&I MENA from IATA, Chamsou Andjorin, Director for Africa and Middle East from Boeing, Maggie Geraghty, Air Traffic Organization Safety and Technical Training representing CANSO, and Mohamed Smaoui, Regional Officer Air Navigation Services/AIM from ICAO MID. The session was moderated by Mohamed Elamiri, Deputy Director of the Air Navigation Bureau, ICAO.

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2.11 The aim of the session was to set the base for a MID Region Safety Strategy covering short-term, mid-term and long-term objectives and targets (2017, 2022 and 2027). The presentations and discussions highlighted the key safety priorities, safety objectives and indicators that should be captured in the MID Region Safety Strategy.

2.12 The discussion in this session along with the outcome of the break-out sessions led to safety objectives and safety performance metrics and indicators.

2.13 The Draft MID Region Safety Strategy is at **Attachment A** to this Summary of Discussions.

Break Out Session 1: How to enhance runway safety?

2.14 This session aimed at discussing safety objectives that feed into the MID Region Safety Strategy and agreeing on action plans that will enable to achieve the expected goals through identifying the roles played by the different stakeholders. The session was driven by four facilitators:

- Mohammad Al Dossari, Director Air Navigation Department, GCAA
- Aaron Wilkins, FAA Senior Representative, Abu Dhabi (Middle East) Civil Aviation Attaché, FAA
- Adel Ramlawi, Regional Officer, Aerodromes & Ground Aids, ICAO
- Chris Glaeser, Global Head of Safety, IATA

2.15 The discussions led to agreement on specific safety targets and action plans related to runway safety and aerodrome certification. These are captured in the MID Region Safety Strategy at **Attachment A** to this Summary of Discussions.

Break Out Session 2: Fatigue Risk Management

2.16 This session aimed at discussing the implications of fatigue on safety and efficiency, and how fatigue related to the other accidents categories addressed under RASG-MID. Implications of fatigue on both pilots and ATCOs were addressed in the session. The session was driven by four facilitators:

- Maggie Geraghty, Air Traffic Organization Safety and Technical Training, CANSO
- Ashley Nunes, Principal Scientist, ISA Software
- John Alsford, SVP Fleet, Emirates Airlines
- Grant Marpole, Team Leader ATC Safety, SERCO UAE
- Corne Venter, ATCO, SERCO Bahrain

2.17 The main outcomes of the session focused on the following action items to address fatigue risk:

- Training (for family regarding fit for duty, for management, and for regulators)
- Sharing of information
- The need for standardized regulatory requirements for pilots (GA/Commercial)
- Develop and adapt available guidance material
- Incorporation into SMS system.

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Break Out Session 3: Performance Management & Safety

2.18 This session aimed at discussing safety objectives that feed into the MID Region Safety Strategy and agreeing on action plans to expedite SSP and SMS implementation in the Region following a stepwise approach through identifying the roles played by the different stakeholders. The session was driven by four facilitators:

- Mohamed Smaoui, Regional Officer Air Navigation Services/AIM, ICAO
- Khalil Radhi, Senior Manager Safety, Gulf Air
- Haithem Guawas, Manager Aviation Safety, GACA
- David Jones, Safety Manager, SERCO Bahrain

2.19 The discussions led to agreement on specific safety indicators and targets related to SSP and SMS and associated action plans. These are captured in the MID Region Safety Strategy at **Attachment A** to this Summary of Discussions.

Break Out Session 4: Loss of Control (LOC-I) mitigation and prevention

2.20 This session aimed at discussing safety objectives that feed into the MID Region Safety Strategy and agreeing on action plans enabling the achievement of the agreed objectives through identifying the roles played by the different stakeholders. The session was driven by four facilitators:

- Chamsou Andjorin, Director for Africa and Middle East , Boeing
- R. Dharamraj, Sr. Manager Safety, Quality & Standards, Qatar Airways
- Mashhour Alblowi, Regional Officer Flight Safety, ICAO

2.21 The discussions led to agreement on specific safety indicators and targets related to LOC-I and associated action plans. These are captured in the MID Region Safety Strategy at **Attachment A** to this Summary of Discussions.

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III. SUPPORTING AND REFERENCE DOCUMENTS

3.1 All RASG-MID documents and reports are accessible on the ICAO MID web-site: <http://www.icao.int/MID/Pages/rasgmid.aspx>.

3.2 All documents related to MID Region Safety Summit, including presentations, list of participants, and photos are available on the event page. To access this page, the instructions below should be followed:

- a) Register to the site by clicking on the link: <http://www2.iata.org/registration/getemailpage.aspx?siteurl=mid-safety-submit>.
- b) The page will prompt you to enter your email in two fields.
- c) Once you submit your request for registration you will receive a generic email to validate your email address.
- d) Once you validate your email address, you will receive a password to access the site for the MID Safety Summit (<https://extranet2.iata.org/sites/mid-safety-submit/default.aspx>).

3.3 For questions or inquiries regarding access to the event page, an email should be sent to: QadduraN@iata.org.

ATTACHMENT A

Middle East - Regional Aviation Safety Group (RASG-MID)

MID Region Safety Strategy



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MID Region Safety Strategy

Strategic Safety Objective:

Continuous improvement of aviation safety through a progressive reduction of the number of accidents and related fatalities in the MID Region to be in line with the global average, based on reactive, proactive and predictive safety management practices.

Safety Objectives:

States and regions must focus on their safety priorities as they continue to foster expansion of their air transport sectors.

The ICAO Global Aviation Safety Plan (GASP) establishes targeted safety objectives and initiatives while ensuring the efficient and effective coordination of complementary safety activities between all stakeholders.

The GASP includes a framework comprised of measurable objectives, supported by Safety Performance Areas and associated safety initiatives.

The MID Region safety objectives are in line with the global safety objectives and address specific safety risks identified within the framework of the Middle East Regional Aviation Safety Group (RASG-MID), based on the analysis of available safety data.

The enhancement of communication and information exchange between aviation Stakeholders and their active collaboration under the framework of RASG-MID would help achieving the MID Region safety objectives in an expeditious manner.

Near-term Objective (2017):

In the near term, States will ensure that they have the resources as well as the legal, regulatory and organizational structures necessary to fulfill their safety oversight obligations and in collaboration with all stakeholders achieve the following near-term objectives:

- all MID States should establish an effective safety oversight system and progressively increase the USOAP-CMA Effective Implementation (EI) score with a baseline of 60% for all States by 2017, through, mainly the reinforcement of the entities responsible to carry out regulatory and safety oversight functions with qualified and trained technical staff, and/or the delegation of certain safety oversight functions to a Regional Safety Oversight Organization (RSOO);
- reduce Runway Excursions and Incursions accidents in the MID Region by 50% by 2017, through establishment and activation of Runway Safety Teams (RST's), Aerodromes Certification, and implementation of Airport Safety Management System (SMS);
- reduce In-flight Damage accidents in the MID Region by 50% by 2017, through the development of regional guidance, and conducting awareness training;
- reduce Loss Of Control In-flight (LOC-I) related accidents in the MID Region by 50% by 2017, through appropriate Standard Operating Procedures (SOPs) related to mode awareness and energy state management, and Advance Manoeuvres Training;
- maintain the rate of Controlled Flight Into Terrain related accidents in the MID Region below the global rate, through pilot training, use of Fatigue Risk Management Systems (FRMS) framework, and implementation of PBN; and
- States with an effective safety oversight score (EI) over 60% proceed to fully implement SSP following a phased approach supported by high-level management with the availability of necessary resources and safety promotion through the provision of appropriate training, communication and dissemination of safety information and improvement of the safety culture.

Mid-term Objective (2022):

The mid-term objective is to achieve full implementation of State Safety Programme (SSP) by States and Safety Management Systems (SMS) by concerned service providers (namely air navigation service providers, airlines, airports and other aviation stakeholders) to facilitate the proactive management of safety risks. The mid-term objective therefore represents the evolution from a purely compliance-based oversight approach to one which proactively manages risks through the identification and control of existing or emerging safety issues. In addition, service providers will strive to gain safety benefits from the common implementation of the different modules of the Aviation System Block Upgrades (ASBUs). The target implementation date for the mid-term objective is 2022.

Long-term Objective (2027):

The focus of the long-term objective is the implementation of proactive and predictive systems that ensure safety in a real-time, collaborative decision-making environment. Sustainable growth of the international aviation system will require the introduction of advanced safety capabilities (e.g. full trajectory-based operations) that increase capacity while maintaining or enhancing operational safety margins and manage existing and emerging risks. The long-term safety objective is intended to support a collaborative decision making environment characterized by increased automation and the integration of advanced technologies on the ground and in the air, as contained in ICAO's Aviation System Block Upgrades (ASBUs) strategy. The target implementation date for the long-term objectives is 2027.

Measuring and monitoring Safety Performance:

The monitoring of safety performance and its enhancement is achieved through identification of relevant Safety Metrics and Indicators as well as the adoption and attainment of Aviation safety Targets.

The following are the MID Region Safety Metrics endorsed for the monitoring of safety performance:

- 1) Accidents and serious incidents;
- 2) Runway and Ground Safety (RGS);
- 3) In-Flight Damage (IFD)
- 4) Loss of Control In-Flight (LOC-I);
- 5) Controlled Flight Into Terrain (CFIT);
- 6) Safety oversight capabilities (USOAP-CMA, IOSA and ISAGO);
- 7) Aerodrome Certification; and
- 8) SSP/SMS Implementation.

The MID Region Safety Indicators and Safety Targets are detailed in the Table below:

	Metric	Safety Indicator	Safety Target	Action Plan
1	Accidents and serious incidents	Number of accidents per million departures	Progressively reduce the accident rate to be in line with the global average by the end of 2017.	<ul style="list-style-type: none"> - Establish a regional framework for safety data sharing to effectively analyze trends, identify risks and hazards, and develop mitigation strategies - Progressively implement the Detailed Implementation Plans (DIPs) based on the developed Safety enhancement Initiatives (SEIs) under MID-RAST and MID-SST.
		Number of fatal accidents per million departures	Progressively reduce the rate of fatal accidents to be in line with the global average by the end of 2017.	
2	Runway and Ground Safety (RGS)	Number of Runway excursion related accidents as a percentage of all accidents	Reduce Runway Excursions related accidents by 50% by the end of 2017	<ul style="list-style-type: none"> - Establishment and support of local Runway Safety Teams. - Establishment of Regional RST GO-Team. - Effective reporting system to exchange and analyze safety information. - Runway Safety Seminar/Workshop. - Adopt specific regulations related to runway safety. - Identify hazards and mitigation measures on runway excursions/incursions and un-stabilized approach, and develop guidance material and specific training.
		Number of Runway incursion related accidents as a percentage of all accidents	Reduce Runway Incursions related accidents by 50% by the end of 2017	

	Metric	Safety Indicator	Safety Target	Action Plan
3	In-Flight Damage (IFD)	Number of In-flight Damage related accidents as a percentage of all accidents	Reduce In-flight Damage related accidents by 50% by the end of 2017	<ul style="list-style-type: none"> - Identifying and understanding wild life habitat around airports, and methods used by the airport for controlling hazardous wildlife by assessing airports in the region - Establishing a regional guidance document that addresses key issues such as wildlife and vegetation - Convening a workshop for pilots and ATCOs to increase awareness on wildlife avoidance during flight
4	Loss of Control In-Flight (LOC-I)	Number of LOC-I related accidents as a percentage of all accidents	Reduce LOC-I related accidents by 50% by the end of 2017	<ul style="list-style-type: none"> - Upset Prevention and Recovery Training or AMT - Adopt ICAO UPRT Manual (2014) - Develop legislative and regulatory framework that supports data protection for individual reporters and data providers - Utilize FDM , Voluntary Reporting and LOSA for trend analysis and identifying precursors - Emphasis on robust standard operating procedures (SOPs) and crew resource management (CRM) through training, monitoring and validation

	Metric	Safety Indicator	Safety Target	Action Plan
				<ul style="list-style-type: none"> - Develop and implement Fatigue Risk Management Strategies - Encourage aircraft manufacturers to pursue innovation in practical and cost effective technology to mitigate LOC risks - Address ATC contribution to potential LOC events through guidance material, awareness workshop, and training.
5	Controlled Flight Into Terrain (CFIT)	Number of CFIT related accidents as a percentage of all accidents	Maintain CFIT related accidents below the global rate	<ul style="list-style-type: none"> - Develop a regionally customized CFIT training and guidance material provided to all air transport operators and Training Centers - Embodying FRMS within individual organizations' SMS - Implementing of PBN and APV operations (Approaches with Vertical guidance) in the MID region in a phased approach: <ul style="list-style-type: none"> ➤ 30% in Dec 2015 ➤ 70% in Dec 2018 ➤ 100% in Dec 2020 - Mandating RNP-AR approaches for approaches with unacceptably high CFIT risk

	Metric	Safety Indicator	Safety Target	Action Plan
6	Safety oversight capabilities (USOAP-CMA, IOSA and ISAGO)	<p>USOAP-CMA Effective Implementation (EI) results:</p> <p>a. Number of States with an EI score less than 60% for more than 2 areas (LEG, ORG, PEL, OPS, AIR, AIG, ANS and AGA)</p> <p>b. Number of States with an overall EI over 60%</p>	<p>Progressively increase the USOAP-CMA EI scores/results:</p> <p>a. Max 3 States with an EI score less than 60% for more than 2 areas (i.e. Min 12 States having at least 60% EI for 6 out of the 8 areas) and an overall EI over 60%, by the end of 2015; and</p> <p>b. all the 15 MID States to have at least 60% EI by the end of 2016 .</p>	<ul style="list-style-type: none"> - Availability of sufficient number of qualified and trained technical staff, to carry out regulatory and safety oversight functions in an effective manner; - Establishment of Regional Safety Oversight Organization(s) (RSOOs) to enhance safety oversight capabilities of member States; - ICAO assistance to States through the organization of Continuous Monitoring Approach (CMA) Workshops, mission to States, etc.
<p>Number of Significant Safety Concerns</p>	<p>a. States resolve identified Significant Safety Concerns as a matter of urgency and in any case within 12 months from their identification</p> <p>b. No significant Safety Concern by end of 2016</p>			
<p>Use of the IATA Operational Safety Audit (IOSA), to complement safety oversight activities</p>	<p>a. Maintain at least 60% of the MID airlines to be certified IATA-IOSA by the end of 2015 at all times</p> <p>b. All MID States to accept the IATA Operational Safety Audit (IOSA) as an acceptable Means of Compliance (AMC) by 2015 to complement their safety oversight activities.</p>	<ul style="list-style-type: none"> - All MID States to mandate all airlines with an Air Operator Certificated issued by a State accredited to MID (other than air taxi or general aviation) to obtain an IATA Operational Safety Audit (IOSA) certification - IATA to conduct awareness training and workshops for States and airlines about the use and benefit of IOSA 		

	Metric	Safety Indicator	Safety Target	Action Plan
				<ul style="list-style-type: none"> - Use of IOSA by States to complement oversight activities such as aircraft leasing, issuing FOC for Hajj flights, etc.
		Number of Ground Handling service providers in the MID Region having the IATA Safety Audit for Ground Operations (ISAGO) certification, as a percentage of all Ground Handling service providers	<ul style="list-style-type: none"> a. 50% of the Ground Handling service providers to be certified IATA-ISAGO by the end of 2015 b. all Ground Handling service providers to be certified IATA-ISAGO by the end of 2017 c. The IATA Ground Handling Manual (IGOM) endorsed as a reference for ground handling safety standards by all MID States by end of 2015. 	<ul style="list-style-type: none"> - All MID States to mandate all Ground Handling service providers at all airports to obtain an IATA Safety Audit for Ground Operations (ISAGO) certification - IATA to conduct awareness training and workshops for States, Ground Handling service providers, and airlines about the use and benefit of ISAGO - Use of ISAGO by States to complement oversight activities such as out-stations audits and qualifying new Ground Handling service providers.
7	Aerodrome Certification	Number of certified international aerodrome as a percentage of all international aerodromes in the MID Region	<ul style="list-style-type: none"> a. 50% of the international aerodromes certified by the end of 2015 b. 80% of the international aerodromes certified by the end of 2016 	<ul style="list-style-type: none"> - Establish process and identify a certification model - SMS implementation - Airport Emergency Plan. - Review initial and refresher training to ensure aerodromes certification requirements are met.

	Metric	Safety Indicator	Safety Target	Action Plan
				<ul style="list-style-type: none"> - Develop regional guidance and a phased approach of aerodromes certification implementation. - Conduct airport visits and airport technical missions to improve maintenance of runways and runway/taxiway related lighting and markings in accordance with Annex 14
8	SSP/SMS Implementation	Number of States having completed implementation of SSP Phase 1	<ul style="list-style-type: none"> a. 5 States by the end of 2014; b. 10 States by the end of 2015; and c. all the 15 MID States by the end of 2016. 	<ul style="list-style-type: none"> - Improvement of safety culture; - Establishment of effective reporting systems which include mandatory and voluntary reporting systems; - Safety training and awareness (SSP, SMS, etc), including high-level management safety briefings; - Internal & external communication and dissemination of safety information; - Sharing of safety data at national and regional level; - Sharing of best practices; - ICAO SSP, SMS and ECCAIRS trainings, including CBT; - Regional Seminars and Workshops on safety management (SSP/SMS, Annex 19, etc);
		Number of States having completed implementation of SSP Phase 2	<ul style="list-style-type: none"> a. 5 States by the end of 2015; b. 10 States by the end of 2016; and c. all the 15 MID States by the end of 2017. 	
		Number of States having completed implementation of SSP Phase 3	<ul style="list-style-type: none"> a. 5 States by the end of 2016; b. 10 States by the end of 2017; and c. all the 15 MID States by the end of 2018. 	

	Metric	Safety Indicator	Safety Target	Action Plan
				<ul style="list-style-type: none"> - Establishment of Regional Safety Oversight Organization(s) (RSOO) to assist States in the implementation of SSP in an expeditious manner.
		<p>Number of Service Providers having completed implementation of SMS Phase 1, as a percentage of all service providers required to implement SMS</p>	<ul style="list-style-type: none"> a. 40% of the service providers having completed implementation of SMS Phase 1 by the end of 2014; b. 75% of the service providers having completed implementation of SMS Phase 1 by the end of 2015; and c. all the service providers having completed implementation of SMS Phase 1 by the end of 2016 	<ul style="list-style-type: none"> - Improvement of safety culture; - Establishment of effective reporting systems which include mandatory and voluntary reporting systems; - Safety training and awareness (SSP, SMS, etc), including high-level management safety briefings; - Internal & external communication and dissemination of safety information; - Sharing of safety data at national and regional level; - ICAO SSP, SMS and ECCAIRS trainings, including CBT; - Regional Seminars and Workshops on safety management (SSP/SMS, Annex 19, etc).
		<p>Number of Service Providers having completed implementation of SMS Phase 2, as a percentage of all service providers required to implement SMS</p>	<ul style="list-style-type: none"> a. 40% of the service providers having completed implementation of SMS Phase 2 by the end of 2015; b. 75% of the service providers having completed implementation of SMS Phase 2 by the end of 2016; and c. all the service providers having completed implementation of SMS Phase 2 by the end of 2017 	
		<p>Number of Service Providers having completed implementation of SMS Phase 3, as a percentage of all service providers required to implement SMS.</p>	<ul style="list-style-type: none"> a. 40% of the service providers having completed implementation of SMS Phase 3 by the end of 2016; b. 75% of the service providers having completed implementation of SMS Phase 3 by the end of 2017; and 	

	Metric	Safety Indicator	Safety Target	Action Plan
			c. all the service providers having completed implementation of SMS Phase 3 by the end of 2018	

**Note: The different phases of implementation of SSP and SMS as defined in the Safety Management Manual (Doc 9859)*

Action Plans:

RASG-MID through its activities under the various safety teams will continue to develop, update and monitor the implementation of Action Plans to achieve the safety targets.

A progress report on the implementation of the Action Plans and achieved targets will be presented to the MID Safety Summit.

Governance:

The MID Region Safety Strategy is to be endorsed by the MID States' Directors General of Civil Aviation.

The MID Region Safety Strategy will guide the work of RASG-MID and all its member States and partners.

The RASG-MID will be the governing body responsible for the review and update of the Strategy, as deemed necessary.

Progress on the implementation of the MID Region Safety Strategy and the achievement of the agreed Safety Targets will be reported to the ICAO Air navigation Commission (ANC), through the review of the RASG-MID reports; and to the stakeholders in the Region during the MID Region Safety Summits.

-END-