

→  MIDANPIRG/18

→  RASG-MID/8

VIRTUAL MEETINGS



15-22 February 2021

# Up-dates from the ANB

Mr. Marco MERENS

C/IS<sup>2</sup>/ANB



ICAOMID



1. Update on 2020-2022 & 2023-2025 Editions GASP
2. Update on the safety Management Programme Activities
3. Monitoring and Oversight activities
4. Key take away 2020
5. Cybersecurity and Trust Framework
6. Update on the documentary referential
7. Future events 2021-2022



# Update on 2020-2022 edition of GASP

GASP Editions updates 1/4

- 2020 => launched new guidance material, tools & activities
  - to support States and Industry achieve GASP goals
  - Increase States that have NASP, in line with GASP
- Doc 10131 & Cir 358 published
- Regional NASP Workshops
  - MID Office => 1-2 March 2020
- Electronic tools, including
  - Secure Portal on Emerging Issues & Additional Categories of Ops Safety Risks
  - NASP Online Community
  - Access via ICAO Secure Portal <http://portal.icao.int>



# Work towards 2023-2025 edition of GASP

GASP Editions updates 2/4

- April 2020 > GASP-SG began review process for new GASP
  - Defined general principles
  - Scope of revision
- Conducted review of
  - Data related to GASP targets
  - Implementation activities
  - Feedback on 2020-2022 GASP
- Oct 2020 > Proposals for 2023-2025 GASP presented to ANC for approval
  - ANC approved WP for Conference in 2021 > where proposals will be discussed



# General Principles for GASP Revision

- Targeted revision (as part of 6-year cycle)
  - not “cover to cover” review
  - no changes in Goals, HRCs
- Only update Targets which expire
  - Achievement dates in 2020 or 2022
- Address feedback/questions on 2020-2022 Edition
- Migrate content on implementation support
  - into additional guidance material (e.g. Doc 10131)
- Update/develop tools & guidance (Doc, Cir, Website, Portal...)



# Scope of Revision

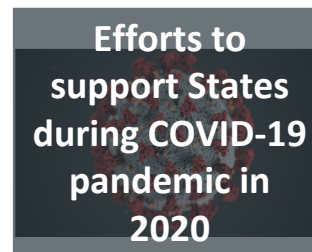
- Update Targets & Indicators (table in Chap 4)
- Amend content based on feedback
  - Areas where States face challenges
  - Clarifications needed
  - New items requested by States/IOs
- Migrate content on implementation support from GASP to GM
  - Roadmap (as new Doc)
  - NASP/RASP content (into Doc 10131)
  - Implementation tools (into GASP Website)
- Update guidance materials + implementation tools





# Key Priorities for Safety Management

Safety Management updates 1/10



Safety Management updates 2/10



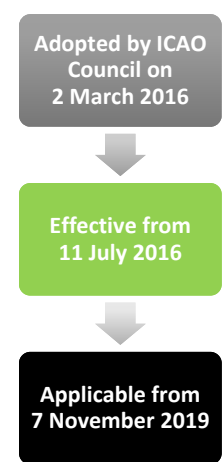
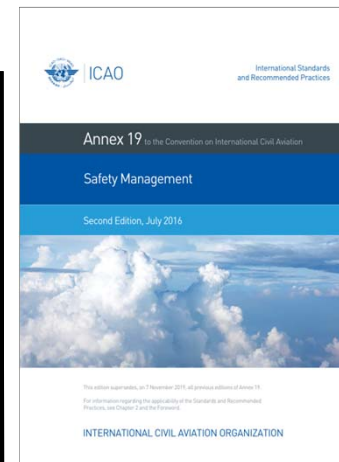
# ICAO Annex 19 Safety Management

## 1<sup>st</sup> Phase: Establish



Establish the safety management Annex through the consolidation and reorganization of existing Standards and Recommended Practices (SRPs) and supporting guidance material.

## 2<sup>nd</sup> Phase: Further development

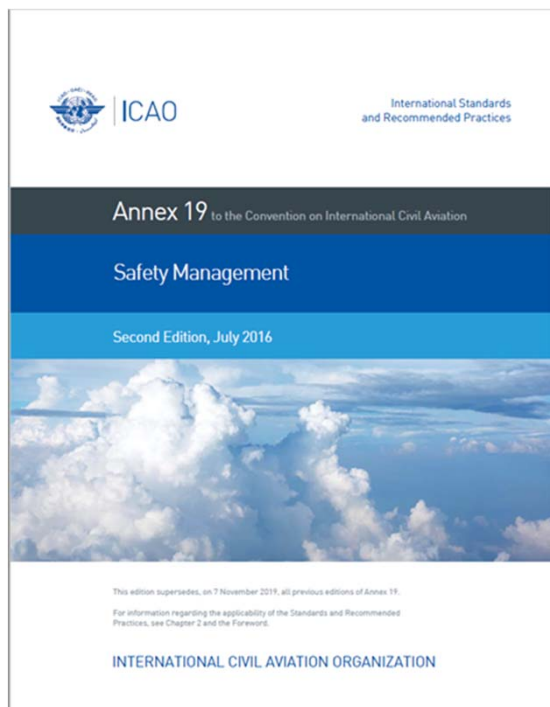


- ✓ Upgraded provisions for the protection of safety data, safety information and related sources;
- ✓ Integration of the 8 critical elements of State safety oversight into the SSP components;
- ✓ Enhanced provisions for SMS, including extension to engine and propeller design and manufacturing organizations.





# ICAO Safety Management provisions

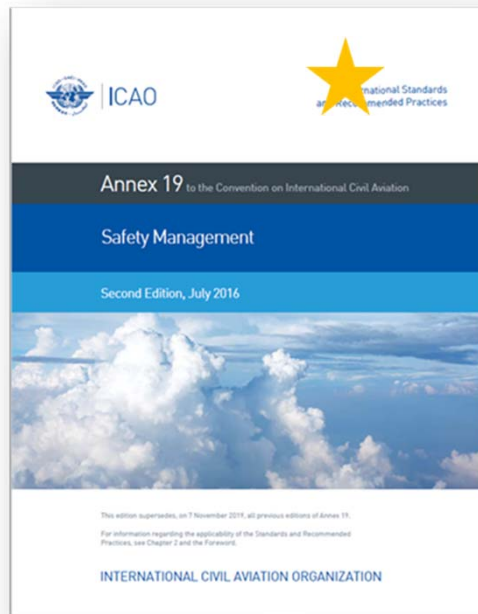


**Safety Management Manual (SMM) Doc 9859, 4th edition** [www.icao.int/SMI](http://www.icao.int/SMI)



**Safety Management Implementation (SMI) Website** [www.icao.int/SMI](http://www.icao.int/SMI)

# Amendment 2 to Annex 19

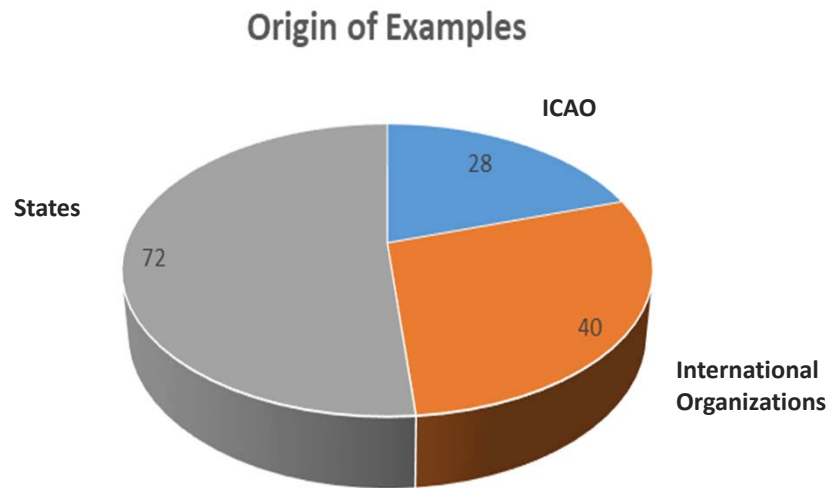


## Timelines

- **Jan/Feb 2021:** Presentation of proposals (SMP/WGs/5)
- **Feb - Sept 2021:** WG teleconferences to mature proposals
- **Nov 2021:** SMP endorsement of amendment proposals (SMP/5)
- **Q1/2022:** ANC Preliminary Review
- **Q3/2022:** State letter and consultation
- **Q2/2023:** ANC Final Review
- **Q1/2024:** Council Adoption date and publication of SMM, 5<sup>th</sup> ed
- **Q3/2024:** Proposed effective date
- **Q4/2026:** Proposed applicability date

# SMI website (www.icao.int/SMI)

140 examples posted (as of Dec/2020)



Examples according to SMM Chapters	Quantity
1: Introduction	5
2. SM Fundamentals	5
3. Safety Culture	3
4. Safety Performance Management	2
5. Safety data collection and processing systems	21
6. Safety Analysis	4
7. Protection of safety data, safety information and related resources	5
8. State Safety Management (SSP)	64
9. Safety Management Systems (SMS)	31

Safety Management updates 5/10

# SMI website (www.icao.int/SMI)

## Collection of practical implementation examples and tools

### HOW?

- ✓ Additional examples and tools are being collected, validated and posted on the SMI public website through **SMI secure portal**;
- ✓ Completing the **word template form** and submitting to [SafetyManagement@icao.int](mailto:SafetyManagement@icao.int)

### WHO?

ICAO staff (Secretaries of expert groups), SMP members and advisors, focal points designated by ICAO Member States and international non-governmental organizations

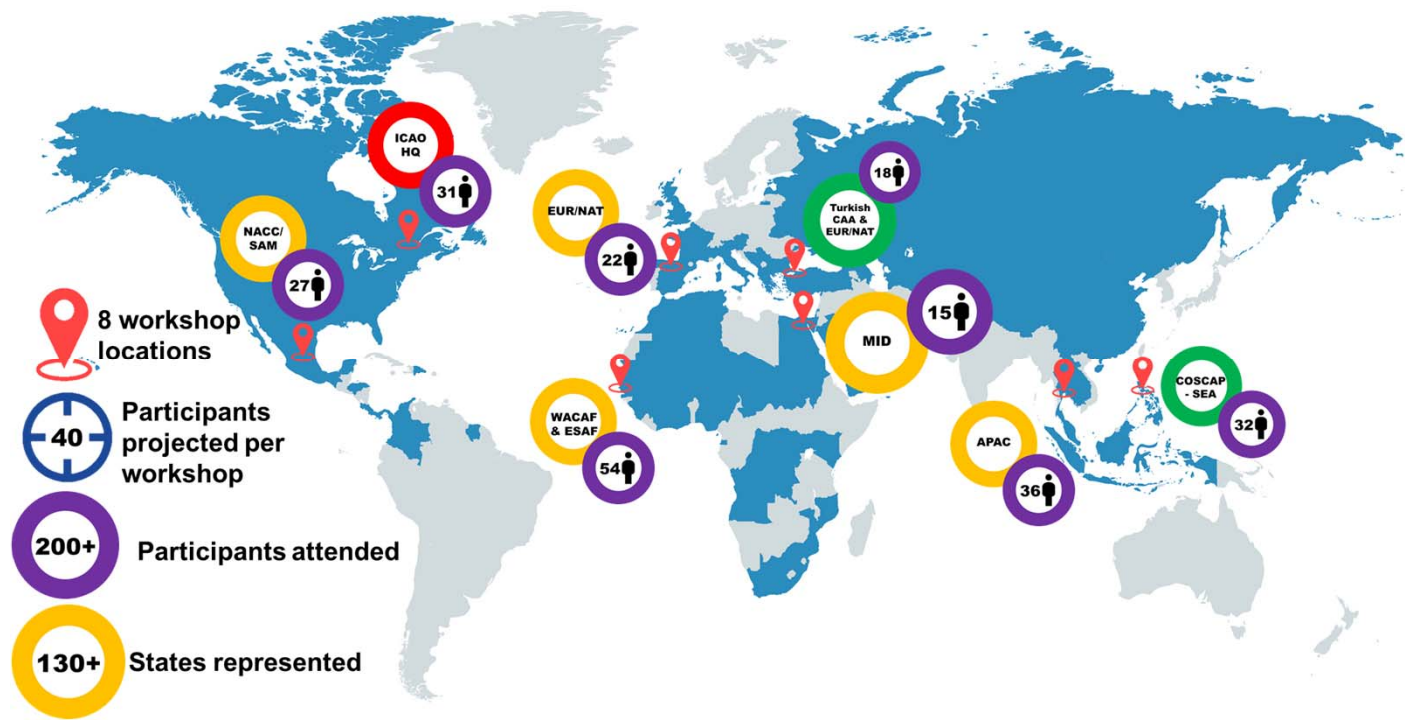
Other entities





Safety Management updates 7/10

# Safety Management Capacity Building Workshops 2018/2019



**SMCB Workshops**  
**26 Participants** attended under **No Country Left Behind** initiative!

## ICAO Safety Management Training Programme Updates

Safety Management updates 8/10



Safety Management Online Course

Now available in English and Spanish



State Safety Programme Classroom Course

Validation delivery completed in Jan 2020

Virtual Classroom Course available **March 2021**



Safety Risk Management Fundamental Virtual Classroom

Launched October 2020

SSP Roles	Online courses					Classroom courses				
	Universal Safety Oversight Audit Programme (USOAP)	Safety Management Online Curriculum *Prerequisite to (SSP) and (SMaP) classroom courses	Introduction to Safety Information Protection	Fundamentals of Aviation Data-driven Decision Making (A03M) **Prerequisite to (A03M) classroom course	Fundamentals of the Air Transport System (FATS) †	State Safety Programme (SSP)*	Safety Management for Practitioners (SMaP)*	SMS Assessment and Monitoring	Application of Aviation Data-driven Decision Making (A03M)**	Safety Occurrence Reporting and Analysis (SORA)
1 SSP – Related Legislation and Regulations		✓	✓		Recommended †	✓				
2 SSP Coordination Group Members		✓				✓				
3 SSP Management	✓	✓	✓	✓		✓	✓		✓	✓
4 Safety Data Collection and Analysis		✓	✓	✓		✓			✓	✓
5 State Safety Performance		✓		✓		✓	✓		✓	
6 Safety Risk Management		✓				✓	✓			
7 SMS Assessment and Monitoring		✓				✓		✓		
8 Safety Promotion		✓				✓				
9 Heads of Departments within the CAAs		✓								

# SM tools on iSTARS

The implementation of SSP and SMS can be supported by tools that enhance the efficiency and effectiveness of safety management activities.

## Useful safety management apps:

- ✓ SSP Foundation
- ✓ SSP Gap Analysis
- ✓ Risk-Based Surveillance
- ✓ State Safety Briefing 2018

ICAO iSTARS 3.0  
integrated Safety Trend Analysis and Reporting System

MY APPS | CATALOGUE | GROUP MANAGER | SPACE-EXCHANGE | WORKSHOP | NEWS | MY ACCOUNT | CONTACT US | PROFILE

**Latest News**

- 04 AUG PDF generator service interruption [Read +](#)
- 20 JUL REVISED: Upcoming Maintenance (29-30 July) [Read +](#)
- 19 JAN Register your Runway Safety Team [Read +](#)

**Welcome to iSTARS 3.0**

Hello, Elizabeth! Welcome to iSTARS. You have installed 29 apps.

View the Catalogue for the full list of all iSTARS apps, which allow provide granular user access and faster response as they are connected to our cloud based Safety Intelligence Engine (SIE).

Keep in mind that some iSTARS apps are in beta (pre-release), so please contact us if you experience any problems.

**View the Catalogue...**

You are on a free account. Enjoy.

**Most Installed Apps**

[Go to my Apps >](#)

**Analysis Workshop**

**Unleash all your Safety Data's Potential**

Whether you have reactive (accidents) or proactive (low consequence events, audits, inspections, etc.) data, this workshop will help you make the best use out of it.

**Latest Applications**

[View full catalogue >](#)

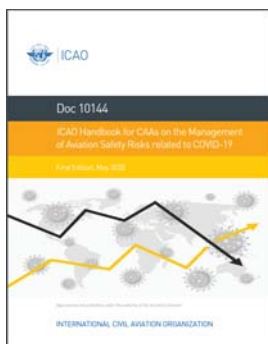
- SSP Readiness
- ASIAP Prioritisation
- Global Aviation Training
- Safety Margins
- USQAP Report
- Solution Center

**Tweets by @icao**

ICAO @icao  
Watch @ACIWorld Angela Gittens talk about why #AVSEC2017 will be invaluable to the aviation community. [youtube.com/watch?v=h5QO1c...](https://www.youtube.com/watch?v=h5QO1c...)

YouTube @YouTube

# Efforts to support States during COVID-19 pandemic 2020



## Guidance Material

*Handbook for CAAs on the Management of Aviation Safety Risks Related to COVID-19 (Doc. 10144)*

Available for FREE\*  
Launched May 2020

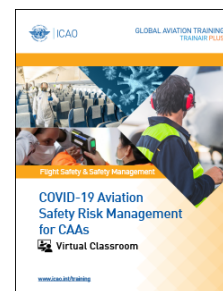


## Practical examples and tools

Repository for practical examples and tools

**34 examples** and tools submitted to date

Launched May 2020



## Virtual Training

Apply SM principles to improve decision-making to address COVID-19 challenges and support safe aircraft operations.

**11 deliveries to 160 participants** across NACC and APAC.

Launched May 2020



## Implementation Package (iPack)

Support to Member States' response, recovery and resilience efforts following COVID-19

Launched July 2020





## Runway Safety

- The runway safety programme was revitalized during 2020, with regular regional coordination meetings established, a global runway safety webinar hosted and a series of follow-up regional webinars launched. With respect to the GRF, ICAO’s decision to postpone the applicability date by one year provided the necessary relief to States and industry.

## Cargo safety

- Provisions for operators to conduct safety risk assessments on the carriage of items in cargo compartments were adopted by Council and became applicable in November 2020. Supporting guidance was published in Guidance for Safe Operations Involving Aeroplane Cargo Compartments (Doc 10102)



## Space-based ADS-B:

- In 2020 the ICAO Council approved separation minima, for inclusion in Procedures for Air Navigation Services — Air Traffic Management (PANS-ATM, Doc 4444), which capitalizes on this new surveillance capability. These newly approved separation minima provides a significant step towards achieving the performance ambitions of the Global Air Navigation Plan.

## Global Tracking

- In 2020, ICAO completed the operator-related provisions supporting the implementation of the Global Aeronautical Distress and Safety System Concept of Operations (GADSS). The operator-related provisions supporting the implementation of the GADSS address requirements for operators to develop procedures to: track their aircraft; monitor the aircraft tracking systems in use for their aircraft; respond to any information received from such tracking systems in an appropriate manner; and require that information received from an autonomous distress tracking system to be automatically forwarded to the location of an aircraft in distress repository (LADR).

Key take away 2020 2/2



## USOAP CMA Quality Management System (QMS)

- ISO 9001 certification in 2020
- Implementation of quality management systems and risk-based approaches
- Maintenance of a Running Action Item List (RAIL). 8 new actions entered to an overall of 59 with 39 corrective measures taken in 2020.





WHILE ON-SITE ACTIVITIES WERE SUSPENDED AS OF MARCH 2020, OFF-SITE ACTIVITIES AND TRANSFORMATION ACTIVITIES RAMPED UP.

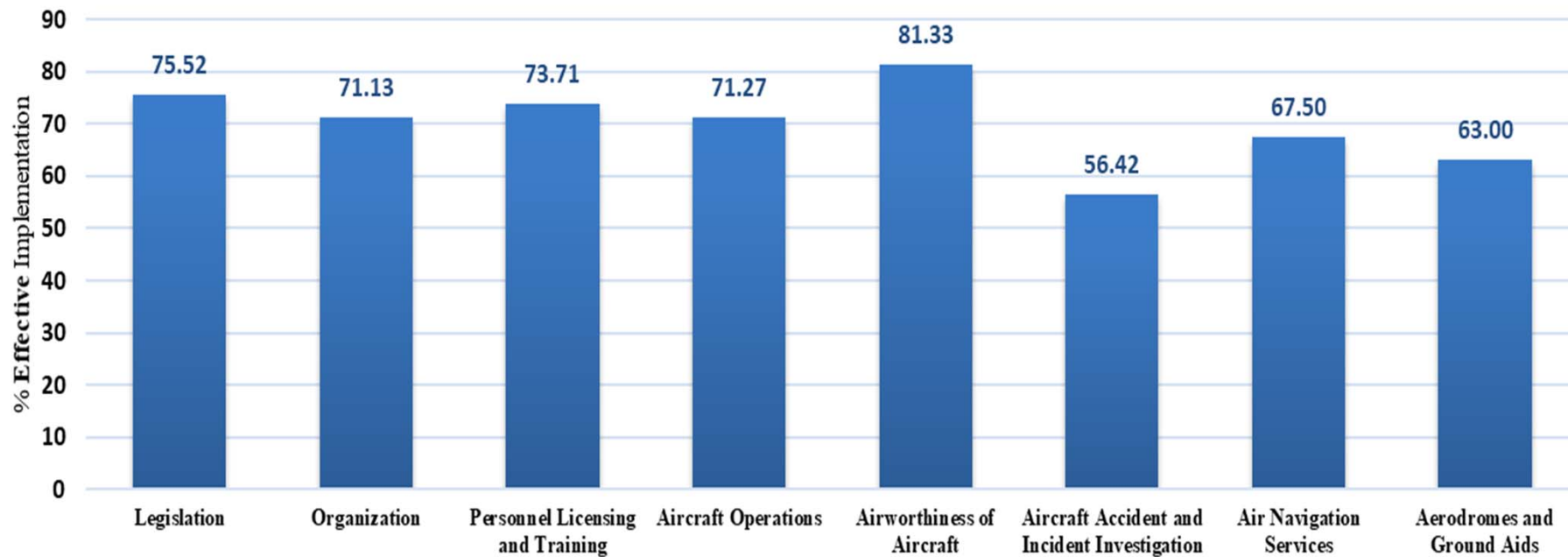
THE **USOAP CMA** COMPLETED THE FOLLOWING ACTIVITIES IN 2020: 4 AUDITS; 5 ICAO COORDINATED VALIDATION MISSIONS (ICVMS); AND 18 OFF SITE VALIDATION ACTIVITIES. IN ADDITION, ONE MANDATORY INFORMATION REQUEST (MIR) WAS ISSUED WHICH RESULTED IN THE IDENTIFICATION OF A SIGNIFICANT SAFETY CONCERN (SSC).

WITH RESPECT TO CAPACITY-BUILDING AND STANDARDIZATION, ONE USOAP CMA FAMILIARIZATION WORKSHOP WAS DELIVERED IN MIDDLE EAST, CAIRO. FURTHER, 6 ON-THE-JOB TRAININGS WERE CONDUCTED IN ORDER TO QUALIFY USOAP CMA TEAM MEMBERS OR TEAM LEADERS. THE USOAP CMA EVOLVED UNDER FOUR STREAMS OF IMPLEMENTATION:

- a) THE ACTION PLAN TO IMPLEMENT THE RECOMMENDATIONS OF THE GROUP OF EXPERTS FOR A USOAP CMA STRUCTURED REVIEW (GEUSR)
- b) THE RECOMMENDATIONS OF THE AD HOC USOAP CMA ADVISORY GROUP, THAT WERE PRESENTED TO THE COUNCIL, AND FOR WHICH THE COUNCIL (C-DEC 221/7) REQUESTED THE SECRETARY GENERAL TO TRANSMIT THE PROPOSED RECOMMENDATIONS TO MEMBER STATES VIA A STATE LETTER IN ORDER TO SEEK VIEWS.
- c) ORGANIZATIONAL IMPROVEMENTS DURING 2020 TO SUPPORT THE OVERALL EVOLUTION OF THE USOAP CMA.
- d) CONTINGENCY MEASURES AND ADAPTATIONS TO THE USOAP CMA TO CONTINUE FULFILLING ITS MANDATE DURING THE COVID-19.

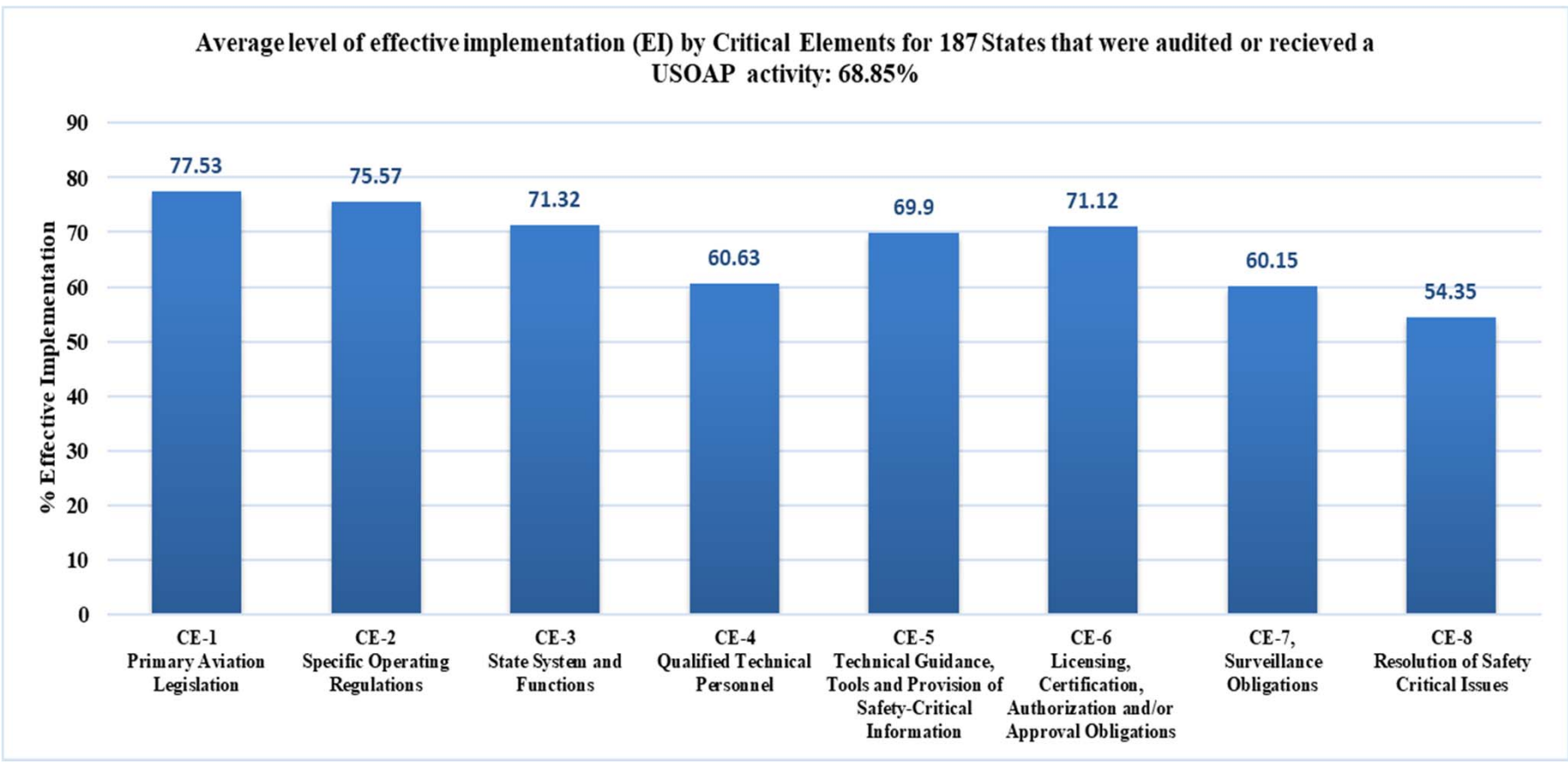


Average level of effective implementation (EI) by Audit Area for 187 States that were audited or recieved a USOAP activity: 68.85%





Average level of effective implementation (EI) by Critical Elements for 187 States that were audited or recieved a USOAP activity: 68.85%





# USOAP CMA Online Framework (OLF)



- Multi-programme support
- SSPIA module
- Activity planning application
- Data exchange system
- OLF support for virtual activities



# USOAP CMA Activities and Training for 2021

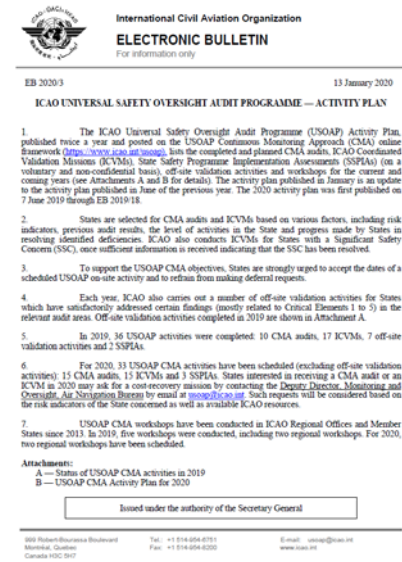
Auditing activities: 7

Validation activities: 9

SSP implementation assessments: 2

Regional workshops: 3

Monitoring and Oversight activities 6/6







- THE TRUST FRAMEWORK CONCEPT, POLICIES AND PROCEDURES, UNDER DEVELOPMENT WITHIN THE TRUST FRAMEWORK STUDY GROUP (TFSG), PROGRESSED TOWARDS A DIGITAL ENVIRONMENT WHERE COMMUNICATION PARTIES SHOULD BE ABLE TO MUTUALLY IDENTIFY THEMSELVES AND IN WHICH THE INFORMATION EXCHANGED SHOULD NOT BE ABLE TO BE MODIFIED BY UNAUTHORIZED PARTIES.
- DEVELOPMENTS WERE FOCUSED ON THE INTERNATIONAL AVIATION TRUST FRAMEWORK (IATF) CONCEPT OF OPERATIONS, AND ON ONGOING WORK ON DIGITAL IDENTITY MANAGEMENT, PERFORMANCE-BASED REQUIREMENTS FOR EXCHANGE AND STORAGE OF INFORMATION IN NETWORK APPLICATIONS.



**Amendments adopted:**

- Annex 1 — *Personnel Licensing*, Amendment 176;
- Annex 3 — *Meteorological Service for International Air Navigation*, Amendments 79 and 80;
- Annex 4 — *Aeronautical Charts*, Amendment 61;
- Annex 6 — *Operation of Aircraft*
  - Part I — *International Commercial Air Transport — Aeroplanes*, Amendments 44 and 45
  - Part II — *International General Aviation — Aeroplanes*, Amendments 37 and 38
  - Part III — *International Operations — Helicopters*, Amendment 23;
- Annex 8 — *Airworthiness of Aircraft*, Amendment 107;
- Annex 10 — *Aeronautical Telecommunications*
  - Volume I — *Radio Navigation Aids*, Amendment 92
  - Volume II — *Communication Procedures including those with PANS status*, Amendment 92;
- Annex 11 — *Air Traffic Services*, Amendment 52;
- Annex 13 — *Aircraft Accident and Incident Investigation*, Amendment 18;
- Annex 14 — *Aerodromes*,
  - Volume I — *Aerodrome Design and Operations*, Amendments 15 and 16
  - Volume II — *Heliports*, Amendment 9;
- Annex 15 — *Aeronautical Information Services*, Amendments 41 and 42;
- Annex 16 — *Environmental Protection*
  - Volume I — *Aircraft Noise*, Amendment 13
  - Volume II — *Aircraft Engine Emissions*, Amendment 10
  - Volume III — *Aeroplane CO2 Emissions*, Amendment 1;



### **Amendments adopted:**

- Doc 4444, Procedures for Air Navigation Services — Air Traffic Management (PANS-ATM), Amendments 9 and 10;
- Doc 8168, Procedures for Air Navigation Services — Aircraft Operations (PANS-OPS)
  - Volume I — Flight Procedures, Amendment 9
  - Volume II — Construction of Visual and Instrument Flight Procedures, Amendment 9;
- Doc 9868, Procedures for Air Navigation Services — Training (PANS-TRG), Amendment 7;
- Doc 9981, Procedures for Air Navigation Services – Aerodromes (PANS-Aerodromes), Amendments 3 and 4;
- Doc 10066, Procedures for Air Navigation Services — Aeronautical Information Management (PANS-AIM), Amendments 1 and 2.

### **Manuals**

- Doc 7910, Location Indicators, Edition No. 175 to 178
- Doc 8071, Manual on Testing of Radio Navigation Aids, Volume III — Testing of Surveillance Radar Systems, Second Edition
- Doc 8585, Designators for Aircraft Operating Agencies, Aeronautical Authorities and Services, Edition No. 191 to No. 194
- Doc 8643, Aircraft Type Designators, Edition No. 48
- Doc 8697, Aeronautical Chart Manual, Third Edition – 2016, Amendment No. 1,
- Doc 9137, Airport Services Manual, Part 3 — Bird Control and Reduction, Fifth Edition
- Doc 9157, Aerodrome Design Manual, Part 2 — Taxiways, Aprons and Holding Bays, Fifth Edition
- Doc 9157, Aerodrome Design Manual, Part 5 — Electrical Systems, Second Edition
- Doc 9261, Heliport Manual, Fourth Edition
- Doc 9284, Technical Instructions for the Safe Transport of Dangerous Goods by Air, 2021 2022 Edition



## Manuals

- Doc 9284, Supplement to the Technical Instructions for the Safe Transport of Dangerous Goods by Air, 2021 2022 Edition
- Doc 9481, Emergency Response Guidance for Aircraft Incidents Involving Dangerous Goods, 2021 2022 Edition
- Doc 9643, Manual on Simultaneous Operations on Parallel or Near-Parallel Instrument Runways (SOIR), Second Edition
- Doc 9756, Manual of Aircraft Accident and Incident Investigation, Part IV — Reporting, 3rd Edition
- Doc 9760, Airworthiness Manual, Fourth Edition
- Doc 9766, Handbook on the International Airways Volcano Watch (IAVW) — Operational Procedures and Contact List
- Doc 9924, Aeronautical Surveillance Manual, Third Edition
- Doc 9966, Manual for the Oversight of Fatigue Management Approaches, Second edition, Version 2 (Revised), 2020
- Doc 9994, Manual on Airborne Surveillance Applications, Second Edition
- Doc 10002, Cabin Crew Safety Training Manual, Second Edition
- Doc 10057, The Manual on Air Traffic Safety Electronics Personnel (ATSEP) Competency-based Training and Assessment, Second Edition
- Doc 10064, Aeroplane Performance Manual, First Edition
- Doc 10104, Flight Recorder System Maintenance (FRSM) Manual, First Edition
- Doc 10110, Helicopter Code of Performance Development Manual, First Edition
- Doc 10131, Manual on the Development of Regional and National Aviation Safety Plans, First Edition
- Doc 10134, Manual on Civil Aviation Cabin Safety Inspectors, First Edition
- Doc 10144, ICAO Handbook for CAAs on the Management of Aviation Safety Risks related to COVID-19, First Edition
- Doc 10146, Manual on Airworthiness Approvals for Changing Aircraft Cabin Interiors, First Edition
- Doc 10147, Guidance on a Competency-based Approach to Dangerous Goods Training and Assessment, First Edition
- Doc 10148, ICAO Handbook for Cabin Crew Recurrent Training during COVID-19, First Edition
- Doc 10152, Manual on Testing and Cross-border Risk Management Measures, First Edition



## Future Events

- Aeronautical Information Management for Unmanned Traffic Management (AIM for UTM)
  - 11 March 2021, 0900 EST (90 minute webinar)
- Management of Change Summit
  - 21 to 25 March 2022 (provisional)
- Drone Enable Symposium 2021
  - 13 => 15 April and 20 -21 April 2021 (virtual)
- Traveller Identification Programme Symposium 2021 (TRIP2021) and First Joint ICAO/INTERPOL Passenger Data Exchange Forum
  - 25 May and 28 May 2021 (virtual)
- High-level Conference on COVID-19 (HLCC)
  - A one-week event from 18 to 22 October 2021 in an in-person setting, or;
  - A two-week event from 12 to 22 October 2021, with half day meetings each day, in a virtual or hybrid setting



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