

THE EUROPEAN PLAN FOR

AVIATION SAFETY

(EPAS 2022-2026)





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(EPAS 2022-2026)

Volume II Actions

European Union Aviation Safety Agency, 10/12/2021

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Information regarding Volume II and its Appendix A:

All documents published are shown with their reference and publication date using the following format: dd/mm/yyyy.

Rulemaking documents planned to be delivered in 2021 and 2022 are shown in the following format: yyyy/qn.

Rulemaking documents planned to be delivered in 2023 and beyond are shown in the following format: yyyy.

Actual publications are considered up to the date of the adoption to the EASA Management Board (10/12/2021). Documents planned to be published before year end are still shown as "2021Q4".



5. Systemic safety & competence of personnel





5. Systemic safety & competence of personnel

This area addresses system-wide problems that affect aviation as a whole. In most scenarios, these problems are related to human factors, human performance, competence of personnel, socio-economic factors or to deficiencies in organisational processes and procedures, whether at authority or industry level. This area also includes the impact of security on safety.

The following icons are used to illustrate the various topics addressed in this chapter:



Safety management



Human performance



Competence of personnel



Accident investigation



Aircraft tracking



Rescue operations



Impact of security on safety



Standardisation

5.1 Safety management

Issue/rationale

Safety management is a strategic priority. Despite the fact that last years have clearly brought continued improvements in safety across every operational domain, recent accidents underline the complex nature of aviation safety, the importance of hazard identification and associated risk mitigation, and the role of Human Performance. Authorities and aviation organisations should have agile (safety) management systems (SMS), implementing robust Safety Risk Management principles and including whenever possible short-loop safety monitoring processes¹. The situation with the COVID-19 pandemic illustrates that need across all domains.

These principles are strengthened through SMS implementation supported by ICAO Annex 19 and Regulation (EU) No 376/2014 (on the reporting, analysis and follow-up of occurrences).

What we want to achieve

- Implementation of a regulatory framework requiring that safety management is in place across all aviation domains, with proportionate requirements in the area of GA.
- Implementation of a regulatory framework for information security management. Improve the level of safety through effective implementation of safety management within authorities and organisations.

How we monitor improvement

Organisations and authorities shall demonstrate compliance, effective implementation, and safety performance. For ATM/ANS, this will be monitored as part of the ATM Performance and Charging Scheme. For the air operations, aircrew and aerodromes domains, it is proposed to start with collecting data on the status of compliance with organisation and authority requirements as relevant to safety management (see Volume I Section 4.2).

¹ With regard to air operations, the promotion of flight data monitoring is addressed in Section 6.1.1.6.

How we want to achieve it: actions

RMT.0251 Embodiment of safety management system requirements into Commission Regulations (EU) Nos 1321/2014 and 748/2012

With reference to ICAO Annex 19, the objective is to establish a framework for safety management in the initial and continuing airworthiness domains.

This RMT is processed in two phases:

- 1. Changes to Part-M linked to OPS (CAMOs) Opinion No 06/2016, issued in May 2016
- 2. Changes to Part-145 and Part 21 Opinion No 04/2020, issued in December 2020

SIs/SRs		iveness of Safety Ma		· · · · · · · · · · · · · · · · · · ·	Ongoing				
2.5/ 2.13	SI-0041 Effectiveness of Safety Management s/SRs SI-3004 Integration of practical HF/HP into the organisation's management system SR UNKG-2010-072; SR UNKG-2011-018; SR UNKG-2015-001.								
Reference(s)	n/a								
Dependencies	RMT.0681, RN	ИТ.0720							
Affected stakeho	olders	CAMOs, AMOs (Pa	rt-145), POA holders,	DOA holders, ETSOA hold	ders and NCAs				
Owner		EASA FS.0	Flight Standards Director's Office						
Priority	Yes	RM Procedure	ST	Harmonisation	No				
		PLAN	INING MILESTONES						
SubT	ToR	NPA	Opinion	Commission IR	Decision				
1	MDM.055 19/07/2011	2013-19 10/10/2013	06/2016 11/05/2016	2019/1383 08/07/2019 ²	2020/002/R 13/03/2020				
2		NPA 2019-05 17/04/2019	04/2020 21/12/2020	2021/1963 08/11/202 ¹³	2022 Q2				
		CHANGE	S SINCE LAST EDITI	ON					
n/a									

² https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=uriserv%3AOJ.L_.2019.228.01.0001.01. ENG&toc=OJ%3AL%3A2019%3A228%3ATOC

³ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32021R1963



RMT.0681

Alignment of IRs of the EASA Basic Regulation and of the associated acceptable means of compliance (AMC) & guidance material (GM) with Regulation (EU) No 376/2014.

Note: NPA 2016-19 will not be followed by a stand-alone Opinion; instead, regulatory changes are being implemented as part of existing RMTs. CRD 2016-19⁴ was published on 24/05/2019.

Overview of RMTs through which the changes were/are being made.

- 1. Part 21 through RMT.0251 Phase II, in progress Opinion No 04/2020 published on 21/12/2020;
- 2. Part M, Part-ML, Part-CAO and Part-CAMO through RMT.0278 and RMT.0521, in progress;
- 3. Part 145 through RMT.0251 Phase II, in progress Opinion No 04/2020 published on 21/12/2020;
- 4. Part-ARA/Part-ORA (Aircrew) through RMT.0599, completed, see Regulation (EU) 2020/2193;
- 5. Part-ARO/Part-ORO (Air Operations) through RMT.0392, in progress;
- 6. Part-ADR-AR/Part-ADR-OR through RMT.0591, in progress;
- 7. Part-ATM/ANS.AR/Part-ATM/ANS.OR through RMT.0719 (Part-MET), completed, see Regulation (EU) 2021/1338 amending Implementing Regulation (EU) 2017/373 as regards reporting requirements and reporting channels between organisations, and requirements for meteorological services;
- 8. Part ATCO-AR/Part ATCO-OR through RMT.0668, not started; and
- 9. AMC 20-8 through RMT.0643, completed see EDD 2020/010/R of 23/07/2020.

Status	Ongoing				
SIs/SRs	SI-0041 Effectiveness of safety management				
Reference(s)	n/a				
Dependencies	RMT.0251, RM	T.0278, RMT.0521, RN	MT.0392, RMT.059	1, and RMT.0668	
Affected stakel	nolders	organisations (ATO organisations (CA	Os), manufacturer MOs), aerodrome vices (ANS) provid	rganisations (MOs), approve s ⁵ , continuing airworthiness (ADR) operators, air traffic m ers and air traffic controller (management nanagement (ATM)/
Owner		EASA SM.1	Safety Intellige	nce & Performance Departm	ent
Priority	No	RM Procedure	ST	Harmonisation	No
		PLAN	NING MILESTON	ES	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0681 30/09/2015	2016-19 19/12/2016	n/a	n/a	n/a
		CHANGE	S SINCE LAST ED	ITION	
Title and task de	scription stream	nlined, overview of R	MTs and depende	ncies updated	

⁴ https://www.easa.europa.eu/sites/default/files/dfu/CRD%20to%20NPA%202016-19.pdf

⁵ The term 'manufacturer' includes, depending on the case, production approval (POA) holder and production organisation manufacturing without POA.

RMT.0706	Update of authority and organisation requirements			
Address relevant ele	ments of ICAO Annex 19 considering the latest revision st			

Address relevant elements of ICAO Annex 19 considering the latest revision status of the document and ensure appropriate horizontal harmonisation of the requirements across different domains taking on board lessons learned.

Status	on hold				
SIs/SRs		Effectiveness of safety r Integration of Practical	_	anisation's management sys	tem
Reference(s)	EASA BIS	S 'Safety Management'			
Dependencies	n/a				
Affected stakeho	olders		•	s (NSAs), air operators, pilot /ANS providers, and ATCO T	
Owner		EASA FS.0	Flight Standards	s Director's Office	
Priority	No	RM Procedure	tbd	Harmonisation	No
		PLAI	NNING MILESTON	ES	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	tbd	tbd	tbd	tbd	tbd
		CHANG	ES SINCE LAST EDI	TION	

Reference to BIS added

SPT.0057 Safety management implementation and international cooperation

Promote the common understanding of safety management and human factors/human performance principles within and outside Europe, share lessons learned and encourage progress and harmonisation, through active participation in the Safety Management International Collaboration Group (SMICG)⁶ and dissemination of safety promotion material to support effective safety management system (SMS) and state safety programme (SSP) implementation, including, but not limited to, the below deliverables and material addressing the EU context.

The latest SMICG deliverables include:

- Revised Guidance on SMS for Small Organisations: Considerations for Regulators
- Attitudes and Behaviours for effective SMS (brochure)
- Revised SMS Integration guidance Points to Consider
- Revised SSP Assessment Tool (reflecting ICAO Annex 19 Amendment 1).

Forthcoming SMICG material:

- Effective Surveillance Following the Introduction of SMS
- Management of Change at State Level: Considerations
- Safety Manager's Role in SMS, including competency and training requirements
- Performance-Based/Risk-Based Oversight
- Updated Safety Management Terminology
- Tool and guidance for evaluating inspector SMS competency

Latest EASA material:

- Guidance on Acceptable Level of Safety Performance (ALoSP), Safety Performance Management and Safety Assurance within the EU environment⁷
- EASA Covid-19 Resources⁸, including the Aviation Safety issues arising from the Covid-19 Pandemic and the role of operators' management systems in the Covid-19 recovery phase
- SMS in CAMO: practical implementation (presentations and takeaways)⁹

⁶ https://www.skybrary.aero/index.php/Safety_Management_International_Collaboration_Group_(SM_ICG)

⁷ EASA publishes guidance on AloSP, Safety Performance Management and Safety Assurance | EASA (europa.eu)

⁸ Coronavirus COVID-19 | EASA (europa.eu)

⁹ SMS in CAMO: practical implementation | EASA (europa.eu)



Chadasa	O			
Status	Ongoing			
SIs/SRs	SI-0041 Effectiveness of safe SI-3002 Impact of culture or SI-3001 Senior management	, ,		
Reference(s)	EASA BIS 'Safety Management' GASP SEI-5 (industry) Improvement of industry compliance with applicable SMS requirements			
Dependencies	MST.0001, MST.0002, MST.0028, RMT.0251			
Affected stakehol	ders ALL			
Owner	EASA FS.0	Flight Standards Director's Office		
		EXPECTED OUTPUT		
Deliverable(s)		Timeline		
Guidance/training material/best practices		Continuous		
	CHAI	NGES SINCE LAST EDITION		
Title changed, list o	of deliverables updated, and so	cope extended to cover both SMS and SSP		

SPT.0122 Safe return to operations — Ramp up safely

Safety promotion campaign to support safe ramp-up / return to operations.

Support the implementation of a resilient management system and deliver safety promotion material to address the most significant risks.

Status	NEW				
SIs/SRs	Refer to the SIs described in revised COVID-19 Safety Risk Portfolio published in April 2021 ¹⁰ .				
Reference(s)	eference(s) n/a				
Dependencies	MST.0039				
Affected stakeho	olders	ALL			
Owner		EASA SM.1	Safety Intelligence & Performance Department		
			EXPECTED OUTPUT		
Deliverable(s)			Timeline		
Guidance/training	g material/be	st practices	2021/2022		
		CHAN	IGES SINCE LAST EDITION		
n/a					
•					

MST.0001 Member States to give priority to the work on SSPs

In the implementation and maintenance of the SSP, Member States shall in particular:

- ensure effective implementation of the authority requirements and address deficiencies in oversight capabilities, as a prerequisite for effective SSP implementation,
- ensure effective coordination between State authorities having a role in safety management,
- ensure that inspectors have the right competencies to support the evolution towards risk- and performancebased oversight,
- ensure that policies and procedures are in place for risk- and performance-based oversight, including a description of how an SMS is accepted and regularly monitored,
- consider civil-military coordination aspects where relevant for State safety management activities, with a view to identifying where civil-military coordination and cooperation will need to be enhanced to meet SSP objectives,
- establish policies and procedures for safety data collection, analysis, exchange and protection, in accordance with Regulation (EU) No 376/2014,
- establish a process to determine SPIs at State level addressing outcomes and processes,
- ensure that an approved SSP document is made available and shared with the other Member States and EASA,
- ensure that the SSP is regularly reviewed and that the SSP effectiveness is regularly assessed.

Status	Ongoin	
SIs/SRs	SI-0041	Effectiveness of Safety Management
Reference(s)	GASP SE GASP SE GASP SE GASP SE	nnex 19 and GASP 2020-2024 Goal 3 'Implement effective State Safety Programmes' El-13 — Start of SSP implementation at the national level El-14 — Strategic allocation of resources to start SSP implementation El-15 — Strategic collaboration with key aviation stakeholders to start SSP implementation El-16 — Strategic collaboration with key aviation stakeholders to complete SSP entation
Dependencies	MST.002	28
Affected stakeho	olders	ALL
Owner		Member States
		EXPECTED OUTPUT
Deliverable(s)		Timeline
SSP document made available		ole 2021
SSP effectively im	plemented	l 2025
		CHANGES SINCE LAST EDITION
n/a		

MST.0002 Promotion of SMS

Member States should encourage dissemination and implementation of safety promotion material developed by the European Safety Promotion Network, the SMICG and other relevant sources of information on the subject of safety management.

The latest SMICG deliverables include:

- Revised Guidance on SMS for Small Organisations: Considerations for Regulators
- Attitudes and Behaviours for effective SMS (brochure)
- Revised SMS Integration guidance Points to Consider
- Revised SSP Assessment Tool (reflecting ICAO Annex 19 Amendment 1).

Forthcoming SMICG material:

- Effective Surveillance Following the Introduction of SMS
- Management of Change at State Level: Considerations
- Safety Manager's Role in SMS, including competency and training requirements
- Performance-Based/Risk-Based Oversight
- Updated Safety Management Terminology
- Tool and guidance for evaluating inspector SMS competency

Latest EASA material:

- Guidance on Acceptable Level of Safety Performance (ALoSP), Safety Performance Management and Safety Assurance within the EU environment¹¹
- EASA COVID-19 Resources, including the aviation safety issues arising from the COVID-19 pandemic and the role of operators' management systems in the COVID-19 recovery phase
- SMS in CAMO: practical implementation (presentations and takeaways)¹².

Status	Ongoing				
SIs/SRs	SI-0041 Effectiveness of Safety Management SI-8044 Ineffective safety management systems				
Reference(s)	GASP SEI-5 (industry) Improvement of industry compliance with applicable SMS requirements				
Dependencies	MST.0001, SPT.0057				
Affected stakeho	olders ALL				
Owner	Member States				
	EXPECTED OUTPUT				
Deliverable(s)	Timeline				
Guidance/training	g material/best practices Continuous				
	CHANGES SINCE LAST EDITION				
Revision of the ta	sk description and list of SIs updated				

¹¹ EASA publishes guidance on AloSP, Safety Performance Management and Safety Assurance | EASA (europa.eu)

¹² SMS in CAMO: practical implementation | EASA (europa.eu)



MST.0026 SMS assessment

Without prejudice to any obligations stemming from the SES ATM Performance Scheme, Member States should make use of the EASA management system assessment tool to support risk- and performance-based oversight. Member States should provide feedback to EASA on how the tool is used for the purpose of standardisation and continual improvement of the assessment tool.

Member States should regularly inform EASA about the status of compliance with SMS requirements and SMS performance of their industry.

Note that the EASA Management System assessment tool is under revision to include Continuing Airworthiness Management Organisations (CAMOs) – a draft version is available on request. A new editable version, which will include Part 21 and Part-145, will be available in 2022.

Status	Ongoing			
SIs/SRs	SI-0041 Effectiveness of Safety Management			
Reference(s)	EASA Management System assessn EASA BIS 'Safety Management' GASP SEI-5 (industry) Improvement	nent tool ¹³ of industry compliance with applicable SMS requirements		
Dependencies	MST.0001, MST.0032			
Affected stakeho	olders Air operators – CAT &	NCC, CAMOs, ATOs, AeMCs, ADR operators		
Owner	Member States			
	EXPE	CTED OUTPUT		
Deliverable(s)	•	Timeline		
Feedback on the Feedback on the (cf. § 4.2) and per	status of SMS compliance	Continuous with bi-annual reporting (April/October)		
	CHANGES	SINCE LAST EDITION		
Revision of the ta	sk description, reference to BIS addec	1		

MST.0028 Member States to establish and maintain a State Plan for Aviation Safety

Member States shall ensure that a State Plan for Aviation Safety (SPAS) is maintained and regularly reviewed. Member States shall identify in SPAS the main safety risks affecting their national civil aviation safety system and shall set out the necessary actions to mitigate those risks. In doing so, Member States shall consider the pan-European safety risk areas identified in EPAS for the various aviation domains as part of their safety risk management (SRM) process and, when necessary, identify suitable mitigation actions within their SPAS. In addition to the actions, SPAS shall also consider how to measure their effectiveness. Member States shall justify why action is not taken for a certain risk area identified in EPAS.

The pan-European top key risk areas as determined through the EU SRM currently are:

- For CAT and NCC aeroplanes: airborne collision, runway excursions, aircraft upset in flight (cf. Chapter6)
- For rotorcraft operations: helicopter upset in flight, obstacle collision, terrain collision and airborne collision (cf. Chapter 7).
- For GA/NCO: aircraft upset in flight, terrain collision, obstacle collision in flight
- For GA/Sailplanes: aircraft upset in flight, terrain collision, obstacle collision in flight
- For GA/Balloons: obstacle collision in flight, balloon landings, fire and smoke (cf. chapter 8).

In addition, the specific safety risks included in the COVID-19 safety risk portfolio shall be assessed and the State risk picture updated accordingly.

The SPAS shall describe how the plan is developed and endorsed, including collaboration with different entities within the State, with industry and other stakeholders (unless this is described in the SSP document), include safety objectives, goals, indicators and targets (unless these are included in the SSP document), reflect the EPAS actions as applicable to the State, and identify the main safety risks at national level in addition to the ones identified in EPAS.

Member States shall ensure that their SPAS is made available to relevant stakeholders and are invited to share it with the other Member States and EASA.

Status	Ongoing					
SIs/SRs	SI-0041 Effectiveness of Safety Management					
	ICAO Annex 19 and GASP 2020-2024 Goal 3 'Implement effective State Safety Programmes'					
	GASP SEI-11 (States) — Strategic collaboration with key aviation stakeholders to enhance safety in a coordinated manner					
	GASP SEI-17 (States) — Establishment of safety risk management at the national level (step 1)					
	GASP SEI-18 (States) — Establishment of safety risk management at the national level (step 2)					
Reference(s)	GASP SEI-19(States) — Acquisition of resources to increase the proactive use of risk modelling capabilities					
	GASP SEI-20 (States) — Strategic collaboration with key aviation stakeholders to support the proactive use of risk modelling capabilities					
	GASP SEI-21 (States) — Advancement of safety risk management at the national level					
	SEIs (States) — Mitigate contributing factors to the risks of CFIT, LOC-I, MAC, RE, and RI					
Dependencies	MST.0001					
Affected stakeho	olders ALL					
Owner	Member States					
	EXPECTED OUTPUT					
Deliverable(s)	Timeline					
SPAS established	2021 Q4					
SPAS reviewed	Q4 of each year starting in 2022					
	CHANGES SINCE LAST EDITION					

Revision of the task description to address the need to update the risk picture and include the top key risk areas in accordance with ASR 2021



MST.0039 Safety promotion to support ramp-up / safe return to operations

Member States should manage a dedicated safety promotion campaign in support of safe ramp-up / return to operations, making use of the safety promotion campaigns and deliverables provided by EASA.

Status	New			
SIs/SRs	SIs describe	SIs described in the updated COVID-19 Safety Risk Portfolio published in April 2021 ¹⁴ .		
Reference(s)	n/a			
Dependencies	SPT.0122			
Affected stakeho	olders	ALL		
Owner		Member States		
		EX	PECTED OUTPUT	
Deliverable(s)			Timeline	
Guidance/training	material/be	st practices	2021/2022	
		CHANGE	S SINCE LAST EDITION	
n/a				

RES.0036 Risk assessment tool

The Risk assessment tool shall provide a logical process to analyse a proposed new system (product / concept of operations) and establish an adequate level of confidence that the operation can be conducted with an acceptable level of risk.

The use of model-based risk assessment methods for aviation application should be investigated, covering the development of abstract models for expert knowledge capture, the identification of hazards and mitigations, the use of quantitative analyses as well as the performance of numerical simulations.

All types of threats associated with a specified hazard, the relevant design, and the proposed operational mitigations for a specific operation shall be considered.

New			
n/a			
n/a			
n/a			
olders		·	vigation services providers
	EASA SM.2	Strategy & Programmes Depa	artment
	PL	ANNING MILESTONES	
		Interim Report	Final Report
	-	n/a	2023 Q2
	CHAN	GES SINCE LAST EDITION	
	n/a n/a n/a	n/a n/a n/a Design organisat (ANSPs), ADR ope EASA SM.2	n/a n/a n/a Design organisations, Aircraft operators - All, air na (ANSPs), ADR operators, NCAs EASA SM.2 Strategy & Programmes Department of the company o

¹⁴ https://www.easa.europa.eu/document-library/general-publications/review-aviation-safety-issues-arising-covid-19-pandemic-0



Human factors and human performance 5.2

Issue/rationale

Human factors and the impact on human performance, as well as medical fitness are strategic priorities. As new technologies and/or operating concepts emerge on the market and the complexity of the system continues increasing, it is of key importance to properly address human factors and human performance, in terms of both limitations and its contribution to delivering safety, as part of the safety management implementation.

The safety actions identified currently — related to aviation personnel — are aimed at updating fatigue risk management (FRM) requirements and contributing to mitigating safety issues in all domains such as personal readiness, flight crew perception or crew resource management (CRM) and communication, which play a role in improving safety across all aviation domains.

What we want to achieve

Ensure continuous improvement in safety management activities as related to human factors and human performance.

Harmonise MED and FTL requirements where this ensures fair competition or facilitates the free movement of goods, persons and services.

How we monitor improvement

Feedback from the ABs and the Human Factors Collaborative Analysis Group (HF CAG).

How we want to achieve it: actions

5.2.1 General

SPT.0115	SMS assessment

The task involves expanding the scope of the existing human factors competency framework for inspectors to cover all categories of regulatory staff. This competency framework will then be promoted to Member States.

The task mitigates against risks generated through the inadequate understanding, regulation and oversight of human factors.

Status	Ongoing	Ongoing			
SIs/SRs	SI-3003 Hu	SI-3003 Human Factors competence for regulatory staff			
	ICAO Hum	nan Performance Ma	anual (ICAO Doc 10151)		
Reference(s)	ICAO Safe	ty Management Ma	nual (ICAO Doc 9859)		
	EASA BIS '	Human Factors com	petence for regulatory staff'		
Dependencies	MST.0037				
Affected stakeh	olders	NCAs			
Owner EASA SM		EASA SM.1	Safety Intelligence & Performance Department		
			EXPECTED OUTPUT		
Deliverable(s)	Deliverable(s) Timeline				
Promotional mate	erial		2022		
		CHAN	IGES SINCE LAST EDITION		

Reference to ICAO Docs 10151 and 9859 added



MST.0037 Foster a common understanding and oversight of human factors

The task includes some preparatory activities which will be performed by EASA with the support of the Human Factor Collaborative Analysis Group (HF CAG) in terms of:

- development of guidance and tools for the competency assessment of regulatory staff before and after training;
- guidance for the appropriate level of human factors competency for human factors trainers;
- development of promotion material to be provided as guidance to Member States and encourage implementation.

These quidance and tools will be provided to the Member States' NCAs to organise the implementation of the competency framework, and plan and conduct the training for the respective regulatory staff.

Status	Ongoing				
CL /CD	SI-3003 Human Factors Competence for Regulator Staff				
SIs/SRs	SI-3004 Integration of practical HF/HP into th	e organisation's management system			
	ICAO Human Performance Manual (ICAO Doo	: 10151)			
Reference(s)	ICAO Safety Management Manual (ICAO Doc	9859)			
	EASA BIS 'Human Factors competence for reg	gulatory staff'			
Dependencies	SPT.0115				
Affected stakeho	olders NCAs				
Owner	Member States				
	EXPECTED OU	TPUT			
Deliverable(s)		Timeline			
	petency assessment of regulatory staff spetency for trainers	2023			
	CHANGES SINCE LAS	ST EDITION			
Reference to ICAO	Doc 10151 added and list of SIs updated				

5.2.2 Flight time limitations

RMT.0492 Development of FTL rules for CAT operations of emergency medical services by aeroplanes (AEMS)

Develop harmonised and state-of-the-art rules for AEMS.

This RMT continues only in the field of EMS with aeroplanes (AEMS).

Development of FTL for HEMS will be addressed through RMT.0494.

Ongoing				
_				
n/a				
n/a				***************************************
nolders	CAT aeroplane op	erators conductin	g AEMS operations, flight cr	ew
	EASA FS.2	Air Operations	Department	
No	RM Procedure	ST/RMG	Harmonisation	No
	PLAN	NING MILESTON	ES	
ToR	NPA	Opinion	Commission IR	Decision
RMT.0492 18/04/2012	2017-17 30/10/2017	2023	2024	2024
	CHANGE	S SINCE LAST ED	ITION	
	SI-0039 Fatigue SR FRAN-2013-0 n/a n/a holders No ToR RMT.0492	SI-0039 Fatigue SR FRAN-2013-053 n/a n/a nolders CAT aeroplane op EASA FS.2 No RM Procedure PLAN TOR NPA RMT.0492 2017-17 18/04/2012 30/10/2017	SI-0039 Fatigue SR FRAN-2013-053 n/a n/a nolders CAT aeroplane operators conductin EASA FS.2 Air Operations NO RM Procedure ST/RMG PLANNING MILESTON TOR NPA Opinion RMT.0492 2017-17 18/04/2012 30/10/2017 2023	SI-0039 Fatigue SR FRAN-2013-053 n/a n/a nolders CAT aeroplane operators conducting AEMS operations, flight cr EASA FS.2 Air Operations Department No RM Procedure ST/RMG Harmonisation PLANNING MILESTONES ToR NPA Opinion Commission IR RMT.0492 2017-17 2023

RMT.0493	Update and harmonisation of FTL rules for CAT by aeroplane for air taxi operations and
	single-pilot operations taking into account operational experience and recent scientific
	evidence

Develop harmonised and state-of-the-art-rules for air taxi and single-pilot operations.

No
Decision
2024



RMT.0494 FTL rules for helicopter commercial operations

Establish harmonised and state-of-the-art rules for helicopter commercial air transport operations (CAT) and commercial specialised operations (SPO).

Status	Not started					
SIs/SRs	SI-8016 Pilot fa	SI-8016 Pilot fatigue				
Reference(s)	EASA research	project on FRMS in c	ommercial helicop	oter operations (CAT, SPO)		
Dependencies	n/a					
Affected stakel	nolders	CAT, commercial S	SPO helicopter ope	erators, flight crew		
Owner		EASA FS.2	Air Operations	Department		
Priority	No	RM Procedure	AP	Harmonisation	No	
		PLAN	NING MILESTONI	ES		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	2023	2024	2025	2026	2026	

CHANGES SINCE LAST EDITION

Change of scope to cover only commercial operations National rules and operational experience have so far provided adequate fatigue risk mitigation in the case of non-commercial SPO and NCC operations, with no evidence of systemic fatigue issues. In addition, the risk to European citizens from these operations is very low. On the other hand, changes to FTL rules have the potential to considerably increase compliance costs for operators. Finally, the activities covered are so diverse and specific that finding a common denominator in terms of organisation of work, duty patterns and fatigue risk models would be impossible. Change of the rulemaking procedure from standard to accelerated procedure. Considering the specific and highly technical nature of the task, a focused consultation with affected stakeholders is preferable to the standard public consultation. SI/SR information and references updated.

RMT.0495 FTL rules for aeroplane commercial operations other than CAT

Establish harmonised and state-of-the-art rules for aeroplane commercial operations other than CAT.

Status	Not started				
SIs/SRs	SI-3005 Fatig	ue and quality sleep			
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	nolders	Commercial SPO o	operators with aer	oplanes, flight crew	
Owner		EASA FS.2	Air Operations I	Department	
Priority	No	RM Procedure	tbd	Harmonisation	No
		PLAN	NING MILESTONE	ES	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	2023	2024	2025	2026	2026
		CHANGE	S SINCE LAST EDI	TION	
n/a					



SPT.0116 IMPLEMENTATION SUPPORT: Webinar/Roadshow dedicated to FRM

Implementation of an appropriate FRM or FRMS

In March 2021 a webinar on FRMS in cargo operations was organised.

https://www.easa.europa.eu/newsroom-and-events/events/1st-webinar-fatigue-risk-management-cargo-and-demand-operations

Status	Ongoing	9			
SIs/SRs	SI-0039	SI-0039 Fatigue			
Reference(s)	EASA BIS	S 'Aircrew Fatigue'			
Dependencies	SPT.0117	SPT.0117; SPT.0118			
Affected stakeho	olders	FTL/FRM inspectors	s at NAAs and operators' FRM/rostering personnel and aircrew		
Owner	EASA FS.2 Air Operations Department				
		EX	(PECTED OUTPUT		
Deliverable(s)			Timeline		
Training material and webinars/live events		ars/live events	2021		
Training material	and webin	ars/live events	2023		
		CHANGI	ES SINCE LAST EDITION		
n/a					

SPT.0117	IMPLEMENTATION SUPPORT: Assist NCAs in developing competences for FTL/FRM
	oversight

EASA conduct visits to the requesting Member State and meet with the responsible personnel from the NAA and from the operators under their oversight to determine the status of FTL/FRM implementation and necessary improvements.

Status	Ongoing	Ongoing				
SIs/SRs	SI-0039 F	SI-0039 Fatigue				
Reference(s)	EASA BIS	'Aircrew Fatigue'				
Dependencies	SPT.0116;	SPT.0118				
Affected stakeholders		FTL/FRM inspecto	rs at NCAs and operators' FRM/rostering personnel			
Owner		EASA FS.2	Air Operations Department			
		E	XPECTED OUTPUT			
Deliverable(s)			Timeline			
EASA missions to	EASA missions to MS		Continuous			
		CHANG	GES SINCE LAST EDITION			
n/a						



SPT.0118 Develop practical guides, promotional material and e-learning content for Aircrew Fatigue

Development of written and video materials containing explanatory material, examples, FAQs and recommendations.

Delivered so far:

- IFTSS (individual flight time specification scheme) Evaluation Form in 2018;
- FTL/FRM Inspector's checklists (1 & 2 parts) in 2019;
- FTL/FRM Practical Guide Issue 1 in 2019.

Status	Ongoing			
SIs/SRs	SI-0039 F	atigue		
Reference(s)	EASA BIS	EASA BIS 'Aircrew Fatigue'		
Dependencies	SPT.0116	; SPT.0117	-	
Affected stakeho	olders	FTL/FRM inspecto	ors at NAAs and operators FRM/rostering personnel and aircrew	
Owner EASA FS.2 Air Operations Department			Air Operations Department	
		E	EXPECTED OUTPUT	
Deliverable(s)			Timeline	
FTL/FRM Inspecto	r's checklis	t (3part)	2022	
FTL/FRM Practica	l Guide Issu	ie 2	2022	
		CHANC	GES SINCE LAST EDITION	
n/a	•		-	

MST.0034 Oversight capabilities/focus area: flight time specification schemes

Member States shall ensure that the national competent authorities (NCAs) possess the required competence to approve and oversee the operators' flight time specification schemes; in particular, those including fatigue risk management. NCAs should focus on the verification of effective implementation of processes established to meet requirements on operators responsibilities and to ensure an adequate management of fatigue risks. NCAs should consider the latter when performing audits of the operator's management system.

Feedback from States on the implementation of this action is normally obtained via EASA Standardisation activities.

Status	Ongoing	Ongoing				
SIs/SRs	SI-0039 Fatigue	SI-0039 Fatigue				
Reference(s)	GASP SEI-5 — Qualified	d technical personnel to	support effective safety oversight			
Dependencies	n/a					
Affected stakeho	olders AOC holde	ers (CAT)				
Owner	Member S	States				
		EXPECTED OUT	PUT			
Deliverable(s)			Timeline			
Report on actions	implemented to foster ca	apabilities	2022/2023			
		CHANGES SINCE LAS	T EDITION			

CHANGES SINCE LAST EDITION

Task description reviewed. Timeline reviewed to account for the impact of COVID-19. This action was previously included in Chapter 6.



RES.0006 Effectiveness of FTL rules

Collection, analysis and processing of historical and in-flight crew fatigue data for purposes of supporting the continuous review of the effectiveness of the provisions concerning flight and duty time limitations and rest requirements as foreseen in Regulation (EU) No 965/2012; and in particular for the 2nd phase of the assessment:

- duties of more than 13 hours at the most favourable time of the day;
- duties of more than 11 hours for crew members in an unknown state of acclimatisation;
- duties including a high level of sectors (more than 6); and
- on-call duties such as standby or reserve followed by flight duties.

The first phase of the assessment for this RES action is completed (report 15 published 28/02/2019). The second phase started with the publication of a call for tender 16 on 04/10/2019.

Status	Ongo	Ongoing				
SIs/SRs	SI-003	SI-0039 Fatigue				
Reference(s)		https://www.easa.europa.eu/document-library/general-publications/ effectiveness-flight-time-limitation-ftl-report				
Dependencies	SPT.02	SPT.0116; SPT.0117; SPT.0118				
Affected stakeho	lders	AOC holders a	nd aircrew			
Owner		EASA SM.2 and FS.2	3, 3	Strategy & Programmes Department and Air Operations Department		
			EXPECTED OUTPUT			
Starting date			Interim Report	Final Report		
2 nd assessment: 20	21			2024		
			CHANGES SINCE LAST EDITI	ON		
n/a						

 $^{15 \}quad https://www.easa.europa.eu/document-library/general-publications/effectiveness-flight-time-limitation-ftl-report$

¹⁶ Call for tender – Effectiveness of Flight Time Limitations – EASA.2019.HVP.11



5.2.3 Medical

RMT.0287 Regular update of Part-MED, Subparts ARA.AeMC and ARA.MED of Part-ARA, and Subpart ORA.AeMC of Part-ORA, as well as of the related AMC & GM

The objectives of RMT.0287 are to solve the consistency issues, close the loopholes in the rules, as identified through the implementation experience, as well as keep the requirements up to date with the new developments in the field of medicine in order to ensure that they are fit for purpose and can be implemented in practice. In order to facilitate the rulemaking process and to collect implementation feedback regarding the authority requirements, RMT.0287 was split in two subtasks. Subtask 1, already finished, updated the medical requirements included in Part-MED, and Subtask 2 aims to update the medically relevant Subparts of Part-ARA and Part-ORA.

In addition, a new subtask (Subtask 2b) is added to address the numerous exemptions related to increasing the pilot age limit for a single-pilot commercial air transport operation in HEMS from 60 to 65 years. The task will explore the opportunity for raising the pilot age limit for single-pilot CAT operations in a gradual approach, starting with the HEMS. The task takes into account the EASA study on age limitations for commercial air transport pilots¹⁷.

Status	Ongoing						
SIs/SRs	SI-0049 Flight Crew Incapacitation SR HUNG-2019-003						
Reference(s)	_	EASA BIS 'Flight Crew Licences', subtask 'Pilot age' EASA Study 'Age limitations for commercial air transport pilots'					
Dependencie	s n/a						
Affected stake	eholders	· ·	rs (aeroplane and hel miners (AMEs), and N	icopter), aero-medical ce CAs	ntres (AeMCs),		
Owner		EASA FS.3	Aircrew & Medical	Department			
Priority	No	RM Procedure	See SubT/RMG	Harmonisation	No		
		PLAN	NING MILESTONES				
SubT	ToR	NPA	Opinion	Commission IR	Decision		
1 ST	RMT.0287 22/10/2012	2013-15 16/07/2013	No 09/2016 11/08/2016	2018/1974 ¹⁸ 19/12/2018	2019/002/R 28/01/2019		
2a ST	n/a	2017-22 21/12/2017	2023	2024	2024		
2b AP	n/a	2022 Q1 (FoC ¹⁹)	2023	2024	2024		
		CHANGE	S SINCE LAST EDITIO	ON			
RM procedure	updated.						

¹⁷ https://www.easa.europa.eu/sites/default/files/dfu/EASA_REP_RESEA_2017_1.pdf

¹⁸ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32018R1974&qid=1636543801683

¹⁹ Focused consultation.



RMT.0424 Regular update of Part-MED of Commission Regulation (EU) No 1178/2011

A 'standing task' allowing the Agency to tackle non-controversial issues identified by industry and Member States which should be corrected or clarified in Part-MED.

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the rules are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing					
SIs/SRs	SI-0049 Flight	-0049 Flight Crew Incapacitation				
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	Pilots, AeMCs, AM	1Es, and NCAs			
Owner		EASA FS.3	Aircrew & Med	dical Department		
Priority	Yes	RM Procedure	ST/RMG	Harmonisation	No	
		PLAN	NING MILESTON	IES		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	RMT.0424 09/10/2017	2023	2024	2025	2025	
		CHANGE	S SINCE LAST ED	DITION		

This RMT now also addresses the topics previously included within RMT.0707

RES.0041 Mental health for pilots and ATCOs

The mind is the most difficult 'system' to assess when looking at the essential needs for a pilot or an ATCO to discharge their tasks safely. Mental health conditions are very difficult to identify because denial and dissimulation are constant early symptoms of most of such conditions.

The research action shall assess and further detail the specific needs for the assessment of mental health conditions and develop and validate assessment methods to assess the applicability of existing methods applied in aviation.

Status	New			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeholders		Air operators, ATN	M/ANS providers, pilots, ATCOs, AeMCs, AMEs, NCAs	
Owner		EASA SM.2	Strategy & Programmes Department	
		PLAN	NING MILESTONES	
Starting date		Interim Report	Final Report	
2021 Q3		n/a	2023 Q3	
		CHANGE:	S SINCE LAST EDITION	
n/a				



RES.0042 Pilot and ATCO fitness

The research shall study three aspects of pilot and ATCO fitness:

- (1) Cardiology (new treatment and diagnostic measures) new technologies have been released on the market providing improved curative or supportive treatments in terms of medication and supportive equipment; in order to have scientific evidence to amend the medical requirements and include the new developments in the current regulatory framework, a study aimed at the aviation environment is needed.
- (2) Diabetes mellitus (new solutions for pilots living with diabetes) new diagnostic measures are being developed that allow reliable continuous blood glucose level monitoring; the research shall assess the possibility of their safe use in the aviation environment in order to alleviate the requirements for fitness in case of pilots with such pathology.
- (3) Monitoring pilot health during the active life and after retirement the objective of the research is to evaluate whether the specific risk factors are properly mitigated and what pathologies should be more closely monitored in order to ensure flight safety as well as a safe career for pilots. The research shall also evaluate the possibility of allowing pilots to be involved in CAT operations beyond their 65th birthday while maintaining at least the same level of safety.

Status	New			
SIs/SRs	n/a		-	
Reference(s)	n/a			
Dependencies	n/a		-	
Affected stakeholders		Aircraft operators	- All, ATM/ANS providers, pilots, ATCOs, AeMCs, AMEs, NCAs	
Owner		EASA SM.2	Strategy & Programmes Department	
		PLANN	NING MILESTONES	
Starting date		Interim Report	Final Report	
2021 Q3		n/a	2024 Q3	
		CHANGES	SINCE LAST EDITION	

Update of affected stakeholders

RES.0047 Fitness to fly in commercial air transport operations of people living with Human Immunodeficiency Virus (HIV)

Assess the impact of HIV seropositivity, including the impact of the side effects of combination antiretroviral treatment, on the fitness to fly and general health and well-being of pilots holding a Class 1 medical certificate.

Status	New			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeh	olders	AeMCs, AOC holde	ers , professional associations, NCAs	
Owner		EASA SM.2	Strategy & Programmes Department	
		PLANI	NING MILESTONES	
Starting date		Interim Report	Final Report	
2021 Q3		n/a	2024 Q2	
		CHANGES	SINCE LAST EDITION	
n/a				



EVT.0011

Evaluation on the effectiveness of the provisions concerning support programmes, the psychological assessment of flight crew and the systematic and random testing of psychoactive substances

Having regard to Commission Regulation (EU) 2018/1042, amending Regulation (EU) No 965/2012, an evaluation of the effectiveness of the provisions concerning support programmes, the psychological assessment of flight crew and the systematic and random testing of psychoactive substances is envisaged to ensure the medical fitness of flight and cabin crew members. The report will be published in compliance with the regulatory deadline by August 2023.

Status	Not started	1				
SIs/SRs		SI-0049 Flight Crew Incapacitation SI-3012 Staff support programmes				
Reference(s)	n/a	n/a				
Dependencies	n/a					
Affected stakeholders		Air operators, p	ilots, NCAs			
Owner		EASA FS.2	Air Operations Department			
		E	XPECTED OUTPUT			
Deliverable(s)			Timeline			
Evaluation report			2023			
		CHANC	GES SINCE LAST EDITION			
n/a						

5.3 Competence of personnel

Issue/rationale

Competence of personnel is a strategic priority. As new technologies and/or operating concepts emerge on the market and the complexity of the system continues increasing, it is of key importance to have the right competencies and adapt training methods to cope with new challenges. It is equally important for aviation personnel to take advantage of the opportunities presented by new technologies to enhance safety.

The safety actions identified currently — related to aviation personnel — are aimed at introducing competency-based training for all licences and ratings. These actions play a role in improving safety across all aviation domains.

Rotorcraft:

EASA's Rotorcraft Safety Roadmap aims at significantly reducing the number of rotorcraft accidents and incidents and focuses on traditional/conventional rotorcraft including General Aviation (GA) rotorcraft. It focuses on safety and transversal issues that need to be tackled through actions in various domains, including training, operations, initial and continuing airworthiness, environment and facilitation of innovation.

This chapter contains the actions in the area of training, existing and new training devices, simulators and new technologies available for training in line with EASA's Rotorcraft Safety Roadmap Training Safety work stream.

What we want to achieve

Ensure continuous improvement of all aviation personnel competence.

How we monitor improvement

Measurable improvement in aviation personnel competence at all levels (flight crew, cabin crew, maintenance staff and ATCOs).

How we want to achieve it: actions

5.3.1 General

SPT.0107 Promotion of the full range of careers and opportunities in the European aviation industry

Help to address potential shortages of aviation professionals for the future European aviation system by promoting the full range of careers and opportunities that are available.

This covers the full range of aviation activities both on the ground and in the air.

Specific focus is needed to address already identified shortages in areas such as AMEs, instructors, flight examiners, maintenance and ground personnel.

This task also supports some of the European aspects of the ICAO Next Generation of Aviation Professionals (NGAP) programme²⁰.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	ICAO NGAP		
Dependencies	n/a		
Affected stakeho	olders	All	
Owner		EASA SM.1	Safety Intelligence & Performance Department
			EXPECTED OUTPUT
Deliverable(s)			Timeline
Promotional web	material and	social media	Continuous
		CHA	NGES SINCE LAST EDITION
n/a			

5.3.2 Language proficiency (pilots and ATCOs)

Issue/rationale

EASA considers language proficiency as an important aviation safety element and joins efforts with ICAO, working together in order to streamline and harmonise language proficiency requirements (LPR)-related activities, as well as to and optimise support to Member States and the industry.

Building on the successful joint endeavours, ICAO and EASA in close coordination conduct a joint ICAO/EASA activity on LPR implementation.

The following additional points have been brought to the attention of EASA (some came from the industry directly):

- Whilst all pilots holding a CPL/an IR and an ATPL have an English LP endorsement on their licence of at least the LP level 4, experience has shown that many of the pilots seeking a job at airlines cannot pass a straightforward telephone interview and are therefore not successful in getting their first job as an airline pilot.
- GA pilot organisations claim that the language proficiency tests are too demanding and not adapted to the GA environment. Furthermore, GA organisations claim that the real advantage of the language proficiency examinations is for the language proficiency testing industry.



- Raw safety data shows only a very low number of incidents related to a lack of language proficiency, whilst a significant number of incidents are related to a lack of situational awareness because the radio communications were only in the local language.
- Pilot organisations claim that the NCAs in different Member States have implemented different procedures to test language proficiency with the effect that in some countries it is easier or in other countries more difficult to obtain a language proficiency endorsement. (Some airlines have a Level 6 as a pre-entry requirement thus pushing pilots to search for an easy solution).

What we want to achieve

To increase safety by reducing the risk of ineffective communication or even miscommunication when pilots and/ or controllers need to face an unexpected situation and to use plain language.

To react to the above:

- EASA intends to promote the use of the English language during pilot training for IR, CPL and ATPL.
- EASA has initiated an analysis of the raw data to ensure that not only those incidents that are directly related to language proficiency are included, but also those that show the lack of language proficiency in the chain of events.
- Through standardisation of NCAs and with the feedback on performance of the technical Advisory Bodies (ABs), EASA has started to have a closer look at the tests that are provided in the different Member States. After a thorough analysis, EASA plans to promote selected best practices with the view to harmonising testing methods.

EASA encourages Member States through safety promotion measures to make use of ICAO Doc 9835.

How we want to achieve it: actions

SPT.0105 Language proficiency requirements — raise awareness on language proficiency requirements implementation, together with ICAO, the industry and the Member States

Subtask 1:

Raise awareness on LPR implementation (LPRI), establish good practices and facilitate proportionate LPRI, based on the operational needs, together with ICAO, the industry and the Member States.

All relevant stakeholders and Member States to work together on the maintenance, monitoring and revision of LPRI; to promote the common understanding of LPRI as a safety issue, linked to human factors principles; share lessons learned; encourage progress and harmonisation and develop good practice document to cope with operational, safety and standardisation needs.

Subtask 2:

Use of the English language during pilot training for IR, CPL and ATPL.

Develop promotional material to encourage ATOs to conduct pilot training for CPL, ATPL and IR mainly in English language and/or English language training delivered in parallel with CPL, ATPL and IR training courses.

Status	Ongoing	Ongoing				
SIs/SRs	SI-0054 Poc	SI-0054 Poor language proficiency causing communication break-down				
Reference(s)	n/a	n/a				
Dependencies	MST.0033					
Affected stakeho	olders	Member States, ANSPs, ATG	COs, TOs, pilot licence holders and students			
Owner	ner EASA FS.3 and NCAs Aircrew & Medical Department					
		EXPECTE	OUTPUT			
Deliverable(s)		•	Timeline			
SubT 1 Guidance/	good practice d	locument	Continuous			
SubT 2 Guidance/	good practice d	locument	Continuous			
		CHANGES SINC	E LAST EDITION			
SI reference added						



MST.0033 Language proficiency requirements — share best practices, to identify areas for improvement for the uniform and harmonised language proficiency requirements implementation

Member States should provide feedback to EASA on how the LPRI takes place, including that ATOs deliver training in English, for the purpose of harmonisation and uniform implementation.

Note: EASA will collect such feedback at the opportunity of the various Standardisation activities.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	SPT.0105		
Affected stakeholders		Member States, ANSPs, ATCO	s, TOs, pilot licence holders and students
Owner		Member States	
		EXPECTED (DUTPUT
Deliverable(s)	•		Timeline
Feedback on the implementation		on status	Continuous
		CHANGES SINCE I	AST EDITION
n/a		-	

In addition to the above, the following RMTs are also relevant to language proficiency:

RMT.0194	Modernisation and simplification of the European pilot licensing and training system and improvement of the supply of competent flight instructors
RMT.0678	Simpler, lighter and better flight crew licensing requirements for general aviation

The full description for these RMTs is included in **Section 5.3.3 Flight crew**.

5.3.3 Flight crew

RMT.0190	Requiremen	ts for relief pilots					
Address the provisions for the use of relief pilots as regards experience, training, checking and CRM.							
Affected Regulat	ions are Commis	ssion Regulation (EU) No 1178/2011 (I	Part-FCL) and (EU) No 965/202	12.		
Status	Ongoing						
SIs/SRs	SR FRAN-2011-010						
Reference(s)	n/a						
Dependencies	n/a						
Affected stakeholders Pilots, ATOs, and AOC holders							
Owner		EASA FS.3	Aircrew & Medical Department				
Priority	No	RM Procedure	ST/RMG	Harmonisation	No		
PLANNING MILESTONES							
SubT	ToR	NPA	Opinion	Commission IR	Decision		
	RMT.0190 02/11/2012	2014-25 04/11/2014	2022 Q4	2023	2023		
		CHANGE	S SINCE LAST ED	ITION			

Revision of the task description

VOLUME II - 5.3 COMPETENCE OF PERSONNEL



RMT.0194

Modernisation and simplification of the European pilot licensing and training system and improvement of the supply of competent flight instructors

The task objectives are:

- for Subtask 1, to improve the supply of competent flight instructors and extend the principles of threat and error management (TEM) in the training of the flight instructors and to all licences and ratings; and
- for Subtask 2, to modernise and simplify the pilot licensing and training system by:
 - a. considering the recommendations from the ex post evaluation under EVT.0006 and the associated BIS;
 - b. introducing/incorporating the latest ICAO Annex 1 and associated ICAO documents on the competency-based training and assessment (CBTA) concept for the appropriate licences and ratings.

Status	Ongoing					
SIs/SRs	SI-0009 Crew resource management SI-3011 Training effectiveness and competence					
Reference(s)	EASA BIS 'Fligh	nt Crew Licences', sul	otask flight instruc	tors		
Dependencies	RMT.0599					
Affected stakeholders Pilots, flight instructors, flight examiners, ATOs, declared training organisation (DTOs), air operators						
Owner		EASA FS.3	Aircrew & Medical Department			
Priority	No	RM Procedure	ST/RMG	Harmonisation	No	
		PLAN	NING MILESTONE	ES		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
1	RMT.0194 28/02/2020	2023	2023	2024	2024	
2		2024	2025	2026	2026	
		CHANGE	S SINCE LAST EDI	TION		
Addition of depe	ndencies					
			*			

RMT.0196 Update of flight simulation training device requirements

The main purpose of this rulemaking task is to include in the European provisions elements from ICAO Doc 9625 regarding the use of FSTDs in flight training, and thus enhance the alignment with ICAO. The task will also address three SRs and aims at including results and findings from the loss of control avoidance and recovery training (LOCART) and RMT.0581 working group results. Harmonisation with the FAA should be considered.

Subtask 1:

The main objective of Work Package 1 (WP 1) is to increase the fidelity of FSTDs by amending the CS-FSTD provisions to support the training up to the stall, as well as the new upset prevention and recovery training (UPRT) requirements as introduced in the EU regulatory framework through Regulation (EU) 2018/1974.

Subtask 2:

Based on a review of this RMT in 2021, Subtask 2 will address the following topics, including additional consultative workshops in 2022:

- Work package 2A
 - Amendments, mainly to enable the FSTD capability signature (FCS) for aeroplane and helicopter type rating training and associated training under Part-ORO Subpart FC (e.g. changes to the FSTD qualification certificate)
- Work package 2B
 - Merging of CS-FSTD(A) and CS-FSTD(H)
 - Training matrices for training specified in WP2A above

Subtask 3:

The main objective of Work Package3 (WP3) is to address any relevant and appropriate emerging issues relevant to CS-FSTD, including the feasibility for developing CS-FSTD requirements for power-lift/tilt rotor aircraft.

Status	Ongoing						
SIs/SRs	SI-0018 Clear air turbulence and mountain waves SI-0001 Icing in flight SI-0002 Icing in ground SI-3011 Training effectiveness and competence SI-0012 Wake Vortex SR AUST-2017-001; SR FRAN-2012-045; SR FRAN-2016-006; SR RUSF-2013-002; SR SPAN-2011-020.						
Reference(s)	n/a						
Dependencies	RMT.0188; RMT.0194; RMT.0230; RMT.0581; RMT.0599; RMT.0678						
Affected stakel	fected stakeholders Air operators, ATOs, DTOs, pilots, instructors, and flight examiners						
Owner		EASA FS.3	Aircrew & Medical Department				
Priority	Yes	RM Procedure	ST/RMG	Harmonisation	Yes		
		PLAN	NING MILESTON	ES			
SubT	ToR	NPA	Opinion	Commission IR	Decision		
1	RMT.0196 15/07/2016	2017-13 25/07/2017	n/a	n/a	2018/006/R 03/05/2018		
2A		2020-15 16/12/2020	2022 Q4	2024	2024		
2B		2020-15 16/12/2020	n/a	n/a	2024		

CHANGES SINCE LAST EDITION

Task description updated; re-organisation of Subtask 2 WP 2A and 2B

VOLUME II - 5.3 COMPETENCE OF PERSONNEL



RMT.0509 Regular update of CS-FCD

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate special conditions (SCs), certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

This standing task does not yet have sufficient candidate issues for the next cycle.

Ongoing					
n/a					
n/a					
n/a					
olders			2 2	_	
	EASA CT.5	Policy, Innovation & Knowledge Department			
No	RM Procedure	ST	Harmonisation	No	
	PLAN	NING MILESTON	ES		
ToR	NPA	Opinion	Commission IR	Decision	
RMT.0509 16/10/2019	2020-08 28/09/2020	n/a	n/a	2021/012/R 16/09/2021	
	tbd	n/a	n/a	tbd	
	CHANGE	S SINCE LAST ED	ITION		
completed.					
	n/a n/a n/a n/a olders No ToR RMT.0509 16/10/2019	n/a n/a n/a n/a Design organisati changes or supple EASA CT.5 No RM Procedure PLAN TOR NPA RMT.0509 2020-08 16/10/2019 28/09/2020 tbd CHANGE	n/a n/a n/a n/a n/a n/a Design organisations of aircraft and changes or supplemental type certive EASA CT.5 Policy, Innovative ST PLANNING MILESTON TOR NPA Opinion RMT.0509 2020-08 n/a 16/10/2019 28/09/2020 n/a tbd n/a CHANGES SINCE LAST ED	n/a n/a n/a n/a n/a n/a Design organisations of aircraft and other design organisations changes or supplemental type certificates (STCs) to these aircraft EASA CT.5 Policy, Innovation & Knowledge Department of the composition of the com	



RMT.0587

Regular update of regulations regarding pilot training, testing and checking and the related oversight

A 'standing task' allowing the Agency to table non-controversial issues identified by industry and Member States which should be corrected or clarified in Part-FCL, ORO, ARA to the Aircrew Regulation and ORO.FC in Part-ORO to the Air Operation Regulations.

Subtask 1:

Completed (see below under 'Planning Milestones')

Subtask 2:

Extraction of FCL-related AMC & GM provisions to former FCL balloon and sailplane requirements, now moved to separate regulations. This subtask is merged with RMT.0678 and will follow the RMT.0678 Subtask 2 timelines.

Subtask 3:

Subtask 3 will deal with a limited number of other non-controversial recommendations stemming from the GA, Rotorcraft Safety roadmaps and the EASA Sustainable Aviation Programme (ESAP) in consultation with the Agency's ABs.

Subtask 4:

Regular update of Part-FCL, Part-ARA, Part-ORA and Part-DTO and of the associated AMC & GM to meet new needs and new inputs from Member States, stakeholders, safety recommendations and any other relevant topic.

Status	Ongoing							
SIs/SRs	SI-3011 Training effectiveness and competence							
Reference(s)	n/a	n/a						
Dependencies	RMT.0194, RM	RMT.0194, RMT.0196, RMT.0599, RMT.0678						
Affected stakeholders Pilots, instructors, examiners and ATOs								
Owner		EASA FS.3	EASA FS.3 Aircrew & Medical Department					
Priority	No	RM Procedure	see SubT	Harmonisation	No			
		PLAN	NING MILESTONES					
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1 (ST)	RMT.0587 11/05/2016	16/2016 30/11/2016	03/2017 11/05/2017	2018/1065 of 27/07/2018 ²¹	2018/011/R 06/11/2018			
2 n/a		see RMT.0678	see RMT.0678	see RMT.0678	see RMT.0678			
3(AP)		2022 Q2 (FoC ²²)	2022 Q4	2023	2023			
4 (ST)		n/a	n/a	n/a	2022 Q1			
		CHANCE	C CINCE I ACT EDITIO	ON				

CHANGES SINCE LAST EDITION

Subtask 4: Development of ECQB for airships moved to RMT.0731

²¹ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32018R1065

²² Focused consultation.



RMT.0599 Update of Subpart FC of Part-ORO (evidence-based training)

The objective of this task is a complete review of the provisions contained in Subpart FC of Part-ORO (Annex III to Commission Regulation (EU) No 965/2012), whilst ensuring alignment between the Aircrew Regulations (EU) 1178/2011) and Air Operation as regards flight crew training requirements.

Subtask 1:

It includes the introduction of evidence-based training (EBT) and competency-based training and assessment (CBTA) in the field of recurrent training (part 1a) and other training-related implementation issues (part 1b), such as better alignment of operator and FCL helicopter training requirements.

It will include the extension of EBT to other parts of the operator's training (e.g. conversion course, type rating) allowing a single philosophy of training to the operator.

It will extend EBT to other aircraft types (e.g. helicopters, business jets) allowing a single philosophy of training across the industry. In addition, it will tackle other implementation issues on the training-related rules brought to the attention of EASA.

Status	Ongoing								
	SI-0009 Crew	resource manageme	nt						
	SI-0019 Handl	SI-0019 Handling and execution of go-arounds							
	SI-3011 Trainir	ng effectiveness and	competence						
	SI-0012 Wake	vortex							
SIs/SRs	SI-0024 Winds	hear							
	SR FRAN-2009-007; SR FRAN-2013-017; SR FRAN-2013-018; SR FRAN-2013-022; SR FRAN-2013- SR FRAN-2013-033; SR FRAN-2013-035; SR FRAN-2013-052; SR FRAN-2014-005; SR GERF-2009- GERF-2009-025; SR IRLD-2014-003; SR SPAN-2004-030; SR SPAN-2012-066; SR FRAN-2015-062; SWED-2012-006; SR SWED-2011-004; SR UNKG-2006-102.								
Reference(s)	n/a								
Dependencies	RMT.0681, RM	T.0196							
Affected stakeh	ected stakeholders Pilots, flight instructors, flight examiners, ATOs and air operators								
Owner		EASA FS.3	Aircrew & Medica	al Department					
Priority	Yes	RM Procedure	ST/RMG	Harmonisation	No				
		PLAN	NING MILESTONES	5					
SubT	ToR	NPA	Opinion	Commission IR	Decision				
1 a	RMT.0599 05/02/2016	2018-07 27/07/2018	08/2019 18/12/2019	2020/2036 09/12/2020 ²³ 2020/2193 16/12/2020 ²⁴	2021/002/R 01/03/2021				
1b		2019-08 14/06/2019	02/2021 28/05/2021	2022 Q2	2022 Q2				
2		2023	2024	2025	2025				
3		2024	2025	2026	2026				
		CHANGE	S SINCE LAST EDIT	ION					

Subtask 1a completed.

²³ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32020R2036

²⁴ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32020R2193



RMT.0678 Simpler, lighter and better flight crew licensing requirements for general aviation

Review the different requirements which have been identified by the GA roadmap to cause problems for GA.

This task is divided into three subtasks:

Subtask 1:

Modular LAPL.

Subtask 2:

Topics deemed to be a priority, covering:

- new technologies used for training and certification requirements (i.e. electric propulsion);
- certain LAPL and PPL requirements, including provisions on touring motor glider (TMG), requirements of PPL(A) revalidation training flight and alignment of helicopter type rating revalidation requirements in the context of PPL(H).

Subtask 3:

Miscellaneous topics, such as:

- mountain rating for helicopter;
- development of a 'light aircraft flight instructor (LAFI)' for LAPL training only;
- examiner's vested interests in the context of GA;
- review of class & type ratings requirements;
- further review of different LAPL and PPL requirements; and
- language proficiency requirements for GA pilots.

Status	Ongoing						
SIs/SRs	SR ITAL-2020-C	R ITAL-2020-001					
Reference(s)	n/a	/a					
Dependencies	RMT.0731, RM	RMT.0731, RMT.0230 (for new eVTOLs), RMT.0587, RMT.0194, RMT.0196					
Affected stakeh	Pilots, flight examiners and NCAs, ATOs, DTOs						
Owner		EASA FS.3	Aircrew & Medical Department				
Priority	Yes	RM Procedure	see SubT ²⁵	Harmonisation	No		
		PLAN	NING MILESTONE	S			
SubT	ToR	NPA	Opinion	Commission IR	Decision		
1 (AP)	RMT.0678 01/09/2016	09/06/2017	08-2017 23/10/2017	2019/430 of 18/03/2019 ²⁶	n/a		
2 (ST)		2020-14 14/12/2020	2022 Q4	2023	2023 Q4		
3 (ST)		2023	2024	2025	2025		

Subtask 2: Deferral of Opinion publication to 2022 Q4 for alignment with the deliverables of RMT.0190, RMT.0196 and RMT.0587 (Opinion bundling).

²⁵ Modular LAPL was processed through the procedure in accordance with Article 16 of the Rulemaking Procedure (accelerated procedure). For all other items, the standard rulemaking procedure will be applied.

²⁶ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019R0430



SPT.0012 Promotion of the new European provisions on pilot training

The objective is to complement the new regulatory package on UPRT and EBT with relevant safety promotion material. The safety material for EBT includes support and guidance for the implementation of EBT mixed (ED Decision 2015/027/R) and following (EU) 2020/2036 it also includes support and guidance for the EBT baseline.

Oversight guidance for the transition to mixed EBT implementation is available here: https://www.easa.europa.eu/oversight-guidance-transition-ebt-mixed-checklist

Status	Ongoing					
SIs/SRs		SI-0018 Clear air turbulence and mountain waves; SI-0009 Crew resource management; SI-0012 Wake vortex; SI-0024 Windshear				
Reference(s)	ED Decision	GASP SEI (States) - Mitigate contributing factors to LOC-I accidents and incidents ED Decision 2015/027/R and EASA Opinion No 08/2019 https://www.easa.europa.eu/sites/default/files/dfu/EBT-Checklist.pdf (Version 03, Q3 2020)				
Dependencies	RMT.0599					
Affected stakeho	olders	Pilots, instructors, flight examiners,	ATOs, and	air operators, Member States		
Owner	EASA FS.3 and NCAs Aircrew & Medical Department					
		EXPECTED OUTPU	JT			
Deliverable(s)	•			Timeline		
Safety promotion	material			2022-2023		
Oversight guidan	ce for the tra	nsition to mixed EBT implementation (update)	2022		
EBT manual		***************************************		2022-2023		
		CHANGES SINCE LAST E	DITION			
n/a				-		

SPT.0110 Standardisation of flight examiners

Improve harmonisation across the EASA Member States by providing support and guidance defining clear criteria and competencies for examiners, depending on the different qualifications needed for different licences, and based on the needs from authorities and the industry. This is intended to strengthen the standardisation of examiners at EU level, fostering and facilitating the harmonisation of requirements, procedures and forms adopted at national level.

Status	Ongoing					
SIs/SRs	SI-3011 Ti	SI-3011 Training effectiveness and competence				
Reference(s)	Evaluation report on implementation of the Aircrew Regulation (Regulation (EU) No 1178/2011), Part FCL, Subpart K rules Examiners and evaluation on applicable rules for initial and recurrent pilot training, testing and checking					
Dependencies	SPT.0111					
Affected stakeho	olders	NCAs, flight examiners				
Owner		EASA SM.1	Safety Intelligence & Performance Department			
		EXPE	TED OUTPUT			
Deliverable(s)	•	•	Timeline			
Promotional web	material, m	anuals, guides, standardis	ed forms and checklists 2022			
		CHANGES S	INCE LAST EDITION			
n/a			=			

SPT.0111 Flight examiner manual

Enhance the application and harmonisation, among the examiners certified in the EASA Member States, of standards and best practices to ensure that any applicant is qualified by a comparable level of knowledge, competence and skill.

Through a reliable and objective testing and checking guidance, foster the achievement of optimal outcomes in the interest of effectiveness, efficiency, fairness and transparency.

Foster a common training programme for the standardisation of examiners among all EASA Member States' NCAs.

This SPT will entail:

- developing the EASA flight examiner manual (FEM) that provides guidelines to flight examiners on the conduct of examinations with a view to improving the standardisation and fairness of examiners at EU level;
- providing recommendations to NCAs on the usefulness of using common standardised forms and, in addition, common notification procedure(s) for examiners with a Part-FCL examiner certificate conducting a test, check or assessment of competence of a Part-FCL licence holder whose licence was issued by a NCA other than their own.

The FEM was published in November 2021.

Status	Ongoing	Ongoing			
SIs/SRs	SI-3011 Tra	SI-3011 Training effectiveness and competence			
Reference(s)		Evaluation report on implementation of EC Aircrew Regulation 1178/2011, Part FCL, Subpart K rules Examiners and evaluation on applicable rules for initial and recurrent pilot training, testing and checking			
Dependencies	SPT.0110	SPT.0110			
Affected stakeho	olders	NCAs, flight examiners			
Owner		EASA SM.1	Safety Intelligence & Performance Department		
	'	EXPECTI	ED OUTPUT		
Deliverable(s)	•		Timeline		
EASA flight exam	iner manual²	7	02/11/2021		
Recommendation	is to NCAs		Continuous		
		CHANGES SIN	CE LAST EDITION		
n/a					



MST.0036 PPL/LAPL learning objectives in the Meteorological Information part of the PPL/LAPL syllabus

Member States should develop proportionate learning objectives in the 'Meteorological Information' part of the PPL/LAPL syllabus.

Such learning objectives should be of a basic, non-academic nature and address key learning objectives in relation to:

- practical interpretation of ground-based weather radar, strengths and weaknesses;
- practical interpretation of meteorological satellite imagery, strengths and weaknesses;
- forecasts from numerical weather prediction models, strengths and weaknesses.

Status	Ongoing	
SIs/SRs	n/a	
Reference(s)	EASA BIS 'Weather Information to Pilots (GA and EASA 'Weather Information to Pilots' Strategy P	•
Dependencies	n/a	
Affected stakeho	NCAs, PPL/LAPL pilots, TOs	
Owner	Member States	
	EXPECTED OUT	ГРИТ
Deliverable(s)		Timeline
Learning objectives, with related question bank		2022 Q4
	CHANGES SINCE LAS	T EDITION
n/a	_	

In addition to the above, the following RMT is relevant to competence of personnel (flight crew):

RMT.0688 Regular update of CS-SIMD

The full description for this action is included in **Chapter 9**.

In addition to the above, the following SPT is relevant to competence of personnel (GA):

SPT.0083 Flight instruction

The full description for this action is included in **Section 8.1.1**.

5.3.4 Cabin crew

RMT.0508 Regular update of CS-CCD

The full description for this action is included in **Chapter 9**.

5.3.5 Maintenance staff

Part-147:

At present, Part-147 excludes the use of distance learning for the purpose of basic knowledge and aircraft type training as the training locations are part of the approval. Part-66 allows the use of 'synthetic training devices' but does not define them. According to Appendix III to Part-66, 'Multimedia Based Training (MBT) methods may be used to satisfy the theoretical training element either in the classroom or in a virtual controlled environment (...)'; however, Appendix III to Part-66 does not define these methods, and no guidance exists on how to evaluate, validate and/or approve courses based on MBT methods.

What we want to achieve

Ensure continuous improvement of all aviation personnel competence.

Part-147: The introduction of the new methods and technologies will lead to a level playing field, raise the efficiency, quality and safety of maintenance training. Additionally, this way, the training provided amongst the approved maintenance training organisations will be at a similar level. Moreover, it may result in an increased number of young people choosing to engage in maintenance career, which may help to tackle the expected shortage of maintenance staff in the near future.

RMT.0255 Review of Part-66

The specific objective of this task is to address some shortcomings identified on the maintenance licensing system linked to effectiveness and efficiency of the current requirements, namely:

- type rating endorsement for the 'legacy aircraft';
- on-the-job-training (OJT);
- deficit of practical skills for maintenance personnel; and
- obsolescence of the Basic Knowledge syllabus.

This task will also address new training/teaching technologies for maintenance staff as relevant to Part-66, to set up the framework for:

- e-learning and distance learning;
- simulation devices or synthetic training device (STDs);
- specialised training such as HF, flight time specifications (FTS), continuation training; and
- blended teaching methods.

Status	Ongoing				
SIs/SRs	SI-3011 Training ef	fectiveness and com	petence		
Reference(s)	n/a				
Dependencie	s RMT.0544				
Affected stak	eholders	Aircraft maintena	nce licence (AML) holders, AMTOs, MOs (Pa	art-145) and NCAs
Owner		EASA FS.1	Maintenance 8	& Production Department	
Priority	Yes	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
3 (ST)	ToR RMT.0255 14/07/2014 Iss 1 14/08/2019 Iss 2	2020-12 01/12/2020	2022 Q1	2023	2023
		CHANGES S	INCE LAST EDIT	ION	
n/a					

RMT.0541 Regular update of aircraft type ratings for Part-66 aircraft maintenance licences

Recurring regular update of references used for issuing type ratings in a harmonised way.

The next cycle has not yet been programmed.

Ongoing				
SI-3011 Training	effectiveness and com	petence		
n/a				
s RMT.0544, RMT.0	0731			
eholders	AML holders, AM	TOs, AMOs and N	VCAs	
	EASA FS.1	Maintenance 8	& Production Department	
No	RM Procedure	ST	Harmonisation	No
	PLANNII	NG MILESTONES	5	
ToR	NPA	Opinion	Commission IR	Decision
66.024	2018-13	n/2	n/2	2019/024/R
12/05/2009	05/12/2018	II/d	II/d	18/11/2019
	tbd	n/a	n/a	tbd
	CHANGES S	INCE LAST EDIT	ION	
	SI-3011 Training n/a s RMT.0544, RMT. eholders No ToR 66.024	SI-3011 Training effectiveness and com n/a s RMT.0544, RMT.0731 eholders	SI-3011 Training effectiveness and competence n/a s RMT.0544, RMT.0731 eholders AML holders, AMTOs, AMOs and N EASA FS.1 Maintenance No RM Procedure ST PLANNING MILESTONES TOR NPA Opinion 66.024 2018-13 12/05/2009 05/12/2018 tbd n/a	SI-3011 Training effectiveness and competence n/a s RMT.0544, RMT.0731 eholders

RMT.0544 Review Part-147

Complete review of Part-147 (not performed since its first issue in 2003) and resolution of the areas of special interest identified in EVT.0002:

- Optimisation of the structure of the basic knowledge syllabus and its impact on the training courses and examinations
- Language proficiency for students in training courses
- Mechanisms to eliminate or reduce the examination cheating and fraud/conflict of interest within Part-147 organisations; in particular, a final assessment performed by the NAA

This task will also address new training/teaching technologies for maintenance staff as relevant to Part-147, to set up the framework for:

- e-learning and distance learning;
- simulation devices or STDs;
- specialised training such as HF, FTS, continuation training; and
- blended teaching methods.

Status	Ongoing					
SIs/SRs		dge development and e				
Reference(s)	EVT.0002 - Evalu	VT.0002 - Evaluation report related to the EASA maintenance licensing system and maintenance raining organisations (02/03/2018)				
Dependencie	s RMT.0255					
Affected stake	eholders	AMTOs, AML app	licants and holde	ers, and NCAs		
Owner		EASA FS.1	Maintenance & Production Department			
Priority	No	RM Procedure	ST	Harmonisation	No	
		PLANNI	NG MILESTONES	S		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	RMT.0544 14/08/2019	2022 Q1	2023	2024	2024	
		CHANGES S	INCE LAST EDIT	ION		
n/a						

SPT.0106 Prevention, detection and mitigation of fraud cases in Part-147 organisations

EVT.0002, the report on the EU maintenance licensing and training system, denounced cases of fraud or cheating during the examinations.

The action includes discussions with the NCAs/industry on how to prevent, detect, mitigate and eliminate fraud cases.

Status	Ongoing					
SIs/SRs	n/a	n/a				
Reference(s)	EVT.0002 - Evaluation report related to the EASA maintenance licensing system and maintenance training organisations (02/03/2018)					
Dependencies	MST.003	5				
Affected stakeho	olders	NCAs, AMTOs				
Owner		EASA FS.1	Maintenance & Production Department			
		EXPEC	TED OUTPUT			
Deliverable(s)	•	•	Timeline			
Workshops, leaflets and webpages			2023			
		CHANGES SI	INCE LAST EDITION			
List of deliverable	s updated					

MST.0035 Oversight capabilities/focus area: fraud cases in Part-147

Member States should focus on the risk of fraud in examinations, including by adding specific items in audit checklists and collecting data on the actual cases of fraud. They may exchange and share information as part of collaborative oversight.

Status	Ongoing			
SIs/SRs	n/a			
Reference(s)		EVT.0002 - Evaluation report related to the EASA maintenance licensing system and maintenance training organisations (02/03/2018)		
Dependencies	SPT.0106			
Affected stakeho	olders	NCAs, AMTOs		
Owner		Member States		
		EXPECTED OUTPUT		
Deliverable(s)			Timeline	
Feedback on the i	mplementatio	n status	Continuous	
		CHANGES SINCE LAST EDITION		
n/a				

5.3.6 Personnel involved in ATM/ANS

RMT.0668 Regular update of air traffic controller licensing rules (IRs and AMC & GM)

This RMT concerns the maintenance of Regulation (EU) 2015/340, which is comprehensively addressing different areas of the licencing of ATCOs. The need for enhancement and simplification of the ATCO licencing system has been identified by several EU initiatives targeting better performance and resilience, as well as the flexibility to respond to new technological developments and operational changes. In response to those needs, the planned activities are grouped in the following subtasks:

Subtask 0:

The objective of this subtask is the update of the training objectives in the ATCO basic and rating training syllabi in order to ensure maintenance and improvement of the harmonised initial training content by aligning it with EU regulations and ICAO provisions.

Subtask 1:

It aims at introducing a controlled mechanism of crediting of training, experience or other qualifications of military ATCOs for the purpose of obtaining ATCO licences under Regulation (EU) 2015/340.

Subtask 2:

Its objective is to:

- introduce simplifications resulting from the rating/rating endorsements survey conducted by the Agency in 2019 and clarify the existing rules based on implementation feedback;
- provide enhanced mobility options for instructors, assessors and student ATCOs, and facilitate dynamic cross-border sectorisation;
- simplify and update the initial training requirements resulting from the work of the EUROCONTROL ATCO Common Core Content Task Force coordination.

Subtask 3:

It aims at introducing a mechanism for the recognition of third-country ATCO licences under Regulation (EU) 2015/340.

Subtask 4:

Its objective is to ensure the availability of a more harmonised initial training qualification output in order to handle complex and dense traffic situations, to enhance the qualification requirements for instructors and assessors, and to enable the utilisation of virtual training proposals stemming from the COVID-19 RNO project.

Subtask 5:

Its objective is to create a futureproof ATCO licensing, competence and training scheme that is able to adapt to the future technological developments. The deliverables of SESAR Joint Undertaking (JU), the recommendations of the Wise Persons Group on the future of the Single European Sky and the proposal for the future architecture of the European airspace could, among others, serve as sources of inspiration.

* During the committee procedure the two EASA Opinions are projected to result in a single EC proposal amending the ATCO IR.

Status	Ongoing					
SIs/SRs	SI-3011 Training	SI-3011 Training effectiveness and competence				
Reference(s)	This RMT may be affected by the recommendations stemming from the WPGR and the AAS.					
Dependencie	s RMT.0681			•		
Affected stake	eholders	ATM/ANS service pro	oviders; NCAs, ATCO To	Os; AMEs; AeMCs; ATC	COs	
Owner		EASA ED.4 Air Traffic Department				
Priority	No	RM Procedure	see SubT	Harmonisation	No	



RMT.0668	Regular update of air traffic controller licensing rules (IRs and AMC & GM) — continued						
	PLANNING MILESTONES						
SubT	ToR	NPA	Opinion	Commission IR	Decision		
0 (AP)	RMT.0668 10/08/2017	02/09/2019*	n/a	n/a	2019/023/R 13/11/2019		
1 (AP)		16/03/2020*	2022 Q1	2023	2023 Q1		
2 (ST)		2021-08 24/06/2021	2022 Q3	2023**	2023		
3 (ST)		2022 Q2	2023	2024	2024		
4 (ST)		see SubT 3	see SubT 3	see SubT 3	see SubT 3		
5 (ST)		2023	2024	2025	2025		

CHANGES SINCE LAST EDITION

Revision of task description, Subtasks 2 and 5.







5.4 Aircraft tracking, rescue operations and accident investigation

Issue/rationale

The safety actions in this area are aimed at better locating aircraft in distress and improving the availability and quality of data recorded by flight recorders.

What we want to achieve

Increase the survivability of accidents over remote and oceanic areas, by providing Search and Rescue (SAR) authorities with more robust and accurate means to locate accidents. Increase safety by facilitating the recovery of flight recorder data by safety investigation authorities, which helps identify accident causes and define corrective actions, thus helping to avoid future accidents.

How we monitor improvement

Number of investigated accidents over remote and oceanic areas for which the SAR authorities received accurate information on the location of the accident site.

Number of investigated accidents or serious incidents in which flight data was not available.

How we want to achieve it: actions

RES.0013 Quick recovery of flight recorder data

Further to the MH370 accident and the adoption by ICAO of consequent SARPs, performance of an assessment of the feasibility for using wireless transmission solutions for timely recovery of flight recorder data — namely, flight parameters, audio and video images — in the follow-up to an accident; particular emphasis should be put on tackling prevailing open issues, such as those linked with the possible circumstances of an accident — loss of engine power, unusual aircraft attitude, aircraft complete destruction, accident in an oceanic area, the reliability and cost impact of the proposed solutions, their aptitude for usage in accident investigations as well as associated data privacy considerations.

Status	Ongo	ing		
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	AOC holders (C	AT), aircraft original equipme	ent manufacturer (OEMs)
Owner		EASA SM.2 Strategy & Programmes Department		
			EXPECTED OUTPUT	
Starting date			Interim Report	Final Report
2021 Q2				2023 Q2
			CHANGES SINCE LAST EDIT	TION
n/a				



5.5 Impact of security on safety

Issue/rationale

The safety actions in this area are aimed at mitigating the security-related safety risks.

The safety actions in this area also include the mitigation of the risks posed by flying over zones where an armed conflict exists.

Managing the impact of security on safety is a strategic priority.

What we want to achieve

Increase safety by managing the impact of security on safety and mitigating related safety risks.

How we monitor improvement

Continuous assessment and mitigation of security threats

How we want to achieve it: actions

RMT.0720 Management of information security risks

The specific objective of this task is to efficiently contribute to the protection of the aviation system from information security risks, and to make it more resilient to information security events and incidents. To achieve this objective, Opinion No 03/2021 proposes the introduction of provisions for the identification and management of information security risks which could affect information and communication technology systems and data used for civil aviation purposes, detecting information security events, identifying those which are considered information security incidents, and responding to, and recovering from, those information security incidents to a level commensurate with their impact on aviation safety.

This RMT has been coordinated with the FAA and the TCCA.

Status	Ongoing				
SIs/SRs	n/a			-	
Reference(s)	n/a				
Dependencie	s RMT.0251				
Affected stake	eholders	U-space service pro apron managemer	oviders and single controllers,	RO air operators, AeMCs; ommon information serv AOC holders (CAT), MOs rodromes and Member St	rice providers, , CAMOs, training
Owner		EASA SM.1	Safety Intelliger	nce & Performance Depar	rtment
Priority	Yes	RM Procedure	See SubT	Harmonisation	Yes
		PLANN	ING MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
1 (ST)	RMT.0720 16/01/2019	NPA 2019-07 27/05/2019	03/2021 11/06/2021	2022 Q3	n/a
2 (tbd)		2022 Q1	n/a	n/a	2022 Q3

CHANGES SINCE LAST EDITION

Task description and affected stakeholders updated; addition of SubT 2 to show the process for developing the AMC/GM to support the application of the Regulation resulting from SubT 1; in order to be consistent with expected adoption and applicability dates of the future regulation the appropriate procedure to consult stakeholders is under discussion

SPT.0078 Dissemination of information on conflict zones

In response to the downing of Malaysian Airlines Flight 17 on 17 July 2014, there was a general consensus within the international community that improvements could be made in the way aviation stakeholders and States share information on risks arising from conflict zones.

As a consequence, the European Union has developed an airspace information alert system, the 'Alerting system for risks to civil aviation arising from conflict zones' in order to achieve more consistency in the advice offered to airlines and aviation authorities and to protect the interest of EU citizens travelling inside and outside Europe. The EU Conflict Zone Alerting System has been now active since early 2016.

The more recent tragic event with the downing the Ukraine International Airlines Flight 752 on 8 January 2020 demonstrated again the importance of information sharing and moreover risk assessments.

In this spirit, in close consultation with the EC, EASA envisages to establish a European Information Sharing and Cooperation Platform on Conflict Zones, the so-called Platform, the purpose of which includes the support to the existing EU Conflict Zone Alerting System and particularly the Integrated EU Aviation Security Risk Assessment Group in order to improve the availability and swiftness of relevant information exchange.

Status	Ongoing		
SIs/SRs	n/a		-
Reference(s)	n/a		
Dependencies	n/a		-
Affected stakeho	olders	ALL	
Owner		EASA SM.1	Safety Intelligence & Performance Department
			TED OUTPUT
Deliverable(s)			Timeline
Information to M	ember States	, Cooperation Platform	Continuous
		CHANGES SIN	NCE LAST EDITION

CHANGES SINCE LAST EDITION

Reference to 'aviation authorities' added in the 2nd paragraph of the task description (advice offered to airlines and aviation authorities).

MST.0040 Safety and security reporting coordination mechanism

Without prejudice to the obligations stemming from Regulation (EU) No 376/2014, Member States shall ensure that appropriate coordination mechanisms are established between safety and security reporting systems in order to allow for an integrated approach to the management of risks.

Status	New				
Status	INEW				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	RMT.0720				
Affected stakeho	olders	All			
Owner		Member States			
		EX	PECTED OUTPUT		
Deliverable(s)				Timeline	
Coordination med	hanism estal	olished		2022/2023	
		CHANGI	S SINCE LAST EDIT	ION	
n/a	-				

RES.0033 Aviation resilience — cybersecurity threat landscape

Assess the safety impact of cybersecurity threats to aviation users, support the development of mitigations and specific training actions, identify and mitigate the vulnerabilities of aviation products and identify the required changes to aviation standards.

Status	Ongo	ing			
SIs/SRs	n/a	n/a			
Reference(s)		Aviation resilience to threats to GNSS - DG DEFIS — Defence industry and Space call for tender (cf. tender notice ²⁸)			
Dependencies	n/a				
Affected stakeho	olders	Pilots, aircraft manufacturers		stry (e.g. avionics and ATM systems	
Owner		EASA SM.2	Strategy & Programmes D	Department	
			EXPECTED OUTPUT		
Starting date	•		Interim Report	Final Report	
2021 Q2			2022 Q4	2024 Q2	
			CHANGES SINCE LAST EDIT	TION	
Update of task title	e, descrip	otion and referen	ces		



RES.0048 Impact of security requirements on operational safety and performance

Assess the impact of security measures implemented on the ground and in-flight on the safety performance.

Assess the preparedness of aviation personnel and flight crews to cope with potential conflicting security and safety measures.

Status	New			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	Aircraft opera	tors - All, Design organisat	ions, NCAs
Owner		EASA SM.2	Strategy & Programme	es Department
			EXPECTED OUTPU	JT
Starting date			Interim Report	Final Report
2021 Q4			n/a	2023 Q1
			CHANGES SINCE LAST E	DITION
n/a				

5.6 Oversight capabilities

The safety actions in this area are aimed at addressing issues emerging from standardisation activities, with focus on the safety oversight capabilities of the Member States. The lack of effective oversight remains an issue, as shown by the number of Standardisation findings related to the NCAs' performance of certification and oversight tasks. The magnitude of the issue varies across technical domains, the most relevant being Air Operations, Flight Crew Licencing, ATM/ANS and Aerodromes. The difficulties experienced by several authorities in properly discharging their oversight responsibilities in these domains is a concern also in the light of the size, scope and complexity of the aviation industry that some of them oversee.

Furthermore, while a number of NCAs have reached a suitable and stable level of maturity, certain continue to underperform and/or struggle in achieving sustainable improvements. Most notably, while progress has been noted in the implementation of Authorities' management systems, effective oversight of undertakings' (safety) management systems continues to be an area of concern in several domains.

Issue/rationale

Authority requirements, introduced in the rules developed under the first and second extension of the EASA scope, define what Member States are expected to implement when performing oversight of the organisations under their responsibility. In particular, they introduced the concept of risk-based oversight with the objective of addressing safety issues with a consideration to efficiency.

The below elements are considered enablers of a robust safety oversight system, expected to be in place according to the requirements in force:

- 1. ability and determination to conduct effective oversight;
- 2. ability to identify risks through a process to collect and analyse data;
- 3. ability to mitigate the identified risks in an effective way, implying measurement of performance and leading to continuous improvement;
- 4. willingness and possibility to exchange information and cooperate with other NCAs;
- 5. ability to ensure the availability of adequate personnel, where 'adequate' includes the notion of sufficient training and proper qualification; and
- 6. focus on the implementation of effective management systems in industry, wherever required by the regulations in force.

What we want to achieve

A robust oversight system across Europe, where each NCA is able to properly discharge its oversight responsibilities, with particular focus on management of safety risks, exchange of information and cooperation with other NCAs. To that end, implementation of management systems in all organisations, as well as ensuring the availability of adequate personnel in NCAs are essential enablers.

How we monitor improvement

The elements above are constantly monitored during the Standardisation activities conducted by the Agency. In addition, **Volume I Section 4.1** proposes to monitor Member States' oversight capabilities on the basis of the Standardisation rating, as well as the status of compliance with management system (SMS) requirements in aviation organisations.

How we want to achieve it: actions

MST.0032 Oversight capabilities/focus areas

(a) Availability of adequate personnel in NCAs

Member States shall ensure that adequate personnel are available to discharge their safety oversight responsibilities.

(b) Cooperative oversight in all sectors

Member States shall ensure that the applicable authority requirements are adhered to in all sectors. The objective is to ensure that each organisation's activities are duly assessed, known to the relevant authorities and that those activities are adequately overseen, either with or without an agreed transfer of oversight tasks.

NB: EASA will continue to support NCAs in the practical implementation of cooperative oversight, e.g. benefitting from the outcome of the trial projects conducted between the United Kingdom, Norway, France, the Czech Republic, as well as with exchanges of best practices and guidance.

(c) Organisations management system in all sectors

Member States shall foster the ability of NCAs to assess and oversee the organisations' management system in all sectors. This shall focus in particular on safety culture, the governance structure of the organisation, the interaction between the risk identification/assessment process and the organisation's monitoring process, the use of inspection findings and safety information such as occurrences, incidents, and accidents and, where applicable, flight data monitoring (FDM). This should lead NCAs to adapt and improve their oversight system.

Status	Ongoing				
	SI-3003 Human Factors competence for regulatory staff				
SIs/SRs	SI-3004 Integration of practical HF/HP into the organisation's management system				
	SI-3011 Training effectiveness and competence				
	ICAO Annex 19 and GASP 2020-2022 Goal 2 'Strengthen States' safety oversight capabilities'				
	GASP SEI-4 & GASP SEI-10 — Strategic allocation of resources to enable effective safety oversight				
Reference(s)	GASP SEI-5 — Qualified technical personnel to support effective safety oversight				
	GASP SEI-6 — Strategic collaboration with key aviation stakeholders to enhance safety in a coordinated manner				
Dependencies	n/a				
Affected stakeho	lders ALL				
Owner	Member States				
	EXPECTED OUTPUT				
Deliverable(s)	Timeline				
SPAS established	2021Q4				
SPAS reviewed	Q4 of each year starting 2022				
	CHANGES SINCE LAST EDITION				
n/a					

In addition to the above, the following action is also relevant to oversight:

RMT.0588 Aircraft continuing airworthiness monitoring — review of key risk elements

The full description for this action is included in **Chapter 10.**

5.7 Miscellaneous

RMT.0732 Repository of aviation-related information (Article 74 of the Basic Regulation)

Article 74 of the Basic Regulation requires the Agency, in cooperation with the EC and the NCAs, to establish and manage a repository of information necessary to ensure effective cooperation between EASA and the NCAs concerning the exercise of their tasks relating to certification, oversight and enforcement under this Regulation.

Considering the huge quantity and complexity of information as well as the obligation to comply with data protection requirements, the EASA Management Board decided to set up a dedicated Task Force which falls under the Member States Advisory Body (MAB). The Task Force will focus on specifications per domain, the global architecture and the governance of the future platform.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	Member States, EC	C, Safety Investiga	tion Authorities	
Owner		EASA SM	Strategy & Saf	ety Management Director	ate
Priority	No	RM Procedure	AP	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0732 20/04/2020	2022 Q3	2023	2023	2024
		CHANGES !	SINCE LAST EDIT	ION	
n/a					
•					



6. Flight operations - aeroplanes



6. Flight operations — aeroplanes

This chapter groups all actions in the area of the airline and air-taxi passenger and cargo operations of EASA AOC holders with aeroplanes of a maximum take-off mass above 5 700 kg, EASA MS registered complex aeroplanes operating non-commercial operations (NCC), as well as specialised operations (SPO) involving aeroplanes of all mass categories.

6.1 CAT & NCC operations

The operational domain CAT and NCC by aeroplane remains the greatest focus of the EASA safety activities. For CAT by large aeroplane and NCC, sufficient safety and exposure data is available in these domains to enable the definition of specific safety performance metrics (see Volume I **Section 4.2**).

6.1.1 Safety

This section includes a significant number of EPAS actions and therefore it is further subdivided into group actions per key risk area (KRA – see **Sections 6.1.1.1** to **6.1.1.5**) for which mitigation actions are included in the current EPAS. **Section 6.1.1.6** includes the safety actions that do not relate to any of the KRAs in particular.

The top three KRAs identified in the ASR 2021 for CAT and NCC operations with aeroplanes are listed below (refer to ASR 2021 Figure 24 and Table 7).

CAT & NCC operations by aeroplane

KRA 1	KRA 2	KRA 3
Airborne collision	Runway excursions	Aircraft upset

6.1.1.1 Aircraft upset in flight

Issue/rationale

Loss of control usually occurs because the aircraft enters a flight regime which is outside its normal flight envelope, usually, but not always, at a high rate, thereby introducing an element of surprise for the flight crew involved. Prevention of loss of control is a strategic priority.

Aircraft upset or loss of control is the key risk area ranking highest with regard to its cumulative risk score (see ASR 2021) related to fatal accidents in CAT and NCC operations with aeroplanes. It includes all occurrences involving actual or potential airborne collisions between aircraft, while both aircraft are airborne, and between aircraft and other airborne objects (excluding birds and wildlife). In 2020 the highest risk contributors were occurrences with loss of separation whilst performing a missed approach due to windshear encounter and several TCAS resolution advisories cases.

What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the risk of loss of control.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolio and related Safety Risk Portfolio for CAT and NCC operations with aeroplanes (see ASR 2021 Table 7).

How we want to achieve it: actions



In addition, the below actions are also directly relevant for this key risk area:

RES.0010	Ice crystal detection
RES.0017	Icing hazard linked to super cooled large droplet (SLD)

The full description for these actions is included in **Chapter 9**.

6.1.1.2 Runway safety

Issue/rationale

This section deals with runway excursions, runway incursions and runway collisions, and is a strategic priority.

Runway excursion aeroplane includes all occurrences involving actual or potential situations, when an aircraft leaves the runway or movement area of an aerodrome or landing surface of any other predesignated landing area, without getting airborne. Runway excursion is the key risk area ranking second highest with regard to its cumulative risk score (see ASR 2021) related to fatal accidents in CAT and NCC operations with aeroplanes. In 2020 the highest risk contributors were occurrences with delayed rotation due to take-off incorrect centre of gravity and actual runway excursions.

Collision on runway covers collisions between an aircraft and another object (other aircraft, vehicles, etc.) or person that occur on a runway of an aerodrome or other predesignated landing area; it does not include collisions with birds or wildlife. Collision on runway is the key risk area ranking fourth with regard to its cumulative risk score (see ASR 2021) related to fatal accidents in CAT and NCC operations with aeroplanes. What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the risk of REs and RIs.

How we monitor improvement

Continuous monitoring of safety issues identified in the CAT Aeroplanes, Aerodromes and Groundhandling as well as the ATM and ANS data portfolios (see ASR 2021 Tables 7, 33 and Table 36 respectively) and related Safety Risk Portfolios in Volume III.

How we want to achieve it: actions

The section is maintained as a placeholder for future actions. The below actions are also directly relevant for this key risk area:

RMT.0722	Provision of digital aeronautical data by the aerodrome operator
MST.0029	Implementation of SESAR runway safety solutions

The full description for these actions is included in **Chapter 12**.



6.1.1.3 Airborne collision (mid-air collisions)

Issue/rationale

Airborne collision includes all occurrences involving actual or potential airborne collisions between aircraft, while both aircraft are airborne, and between aircraft and other airborne objects (excluding birds and wildlife). This also includes all separation-related occurrences caused by either air traffic control (ATC) or cockpit crew, AIRPROX reports and genuine ACAS alerts. It does not include false ACAS alerts caused by equipment malfunctions, or loss of separation with at least one aircraft on the ground, which may be coded as ground damage if the occurrence meets the criteria and usage notes for those categories. Although there have been no CAT aeroplane airborne collision accidents in recent years within the EASA Member States, this key risk area has been raised by a number of Member States through the NoAs and also by some airlines, specifically in the context of the collision risk posed by aircraft without transponders in uncontrolled airspace. Airborne collision is the key risk area ranking highest with regard to its cumulative risk score (see ASR 2021) related to fatal accidents in CAT aeroplane and NCC operations. In 2020 the highest risk contributors were occurrences with loss of separation whilst performing a missed approach due to windshear encounter and several TCAS resolution advisories cases

What we want to achieve

Continuously assess and improve risk controls to mitigate the risk of mid-air collisions.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolio for CAT by aeroplane & NCC (see ASR 2021 Table 7).

How we want to achieve it: actions

SPT.0123	Reinforce the appropriate reactions of flight crew in response to an airborne collision
	avoidance system (ACAS) resolution advisories (RA)

Help to mitigate the risk of mid-air collisions by providing safety promotion material and clear messages to pilots on the need to follow the instructions of the ACAS in high-risk situations.

This material will include posters, articles and a video to be developed in conjunction with Skybrary.

Status	New		
SIs/SRs	SI-2001 /	ACAS RA not followed: IRLE	D-2014-017; SWTZ-2014-489
Reference(s)	n/a	•	
Dependencies	n/a		
Affected stakeholders		AOC holders (CAT), air	rcraft operators (CAT), aircraft operators (NCC), ATC providers
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPE	CTED OUTPUT
Deliverable(s) Timeline		Timeline	
Safety promotion material		•	2022
		CHANGES	SINCE LAST EDITION
n/a			

MST.0024 'Due regard' for the safety of civil traffic over high seas

States must have due regard for the safety of civil aircraft and must have established respective regulations for national State aircraft.

Several EU Member States had reported an increase in incidents involving close encounters between civil and military aircraft and more particularly an increase in non-cooperative international military traffic over the high-sea waters.

Taking into account this situation and the possible hazard to civil aviation safety, the EC mandated EASA to perform a technical analysis of the reported occurrences. The technical analysis issued a number of recommendations for the Member States:

- fully apply the ICAO Manual on Civil-Military Cooperation in Air Traffic Management (Doc 10088);
- closely coordinate to develop, harmonise and publish operational requirements and instructions for State aircraft to ensure that 'due regard' for civil aircraft is always maintained;
- support the development and harmonisation of civil/military coordination procedures for ATM at EU level and beyond if possible;
- report relevant occurrences to EASA; and
- facilitate/make primary surveillance radar data available in military ATC centres to civil ATC units. The objective of this action is to ensure that Member States follow up on the recommendations and provide feedback on the implementation.

EASA will analyse occurrences reported by Member States, with a view to considering the development of specific actions.

Status	Ongoing			
SIs/SRs	n/a		-	
Reference(s)	ICAO Doc 1	.0088 'Manual on Civil/Military Coop	peration in Air Traffic Management'	
Dependencies	MST.0001			
Affected stakeho	olders	AOC holders (CAT), aircraft operate	ors (NCC), ATC providers	
Owner		Member States		
		EXPECTED OUTP	UT	
Deliverable(s)	•		Timeline	
Report to EASA o	n related incid	dents and actions taken	2022Q4	
		CHANGES SINCE LAST	EDITION	
Title, description	and deliverab	les amended to clarify the objective.	. Reference to ICAO document added.	



MST.0030 Implementation of SESAR solutions aiming to reduce the risk of mid-air collisions enroute and in terminal manoeuvring areas

Member States should evaluate together with the ANSPs that are delegated to provide services in their airspace, the needs for implementing SESAR solutions related to enhanced short-term conflict alerts (STCA)/enhanced safety nets²⁹ such as solutions #60 and #69. These SESAR solutions, designed to improve safety, should be implemented as far as it is feasible.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	ATM Mas	ter Plan Level 3 – Plan (2019): ATC	02.9 – Enhanced STCA for TMAs
Dependencies	n/a	•	
Affected stakeho	olders	ANSP	
Owner		Member States	
		EXPECTED O	UTPUT
Deliverable(s)			Timeline
SPAS established			2021Q4
SPAS reviewed	•	•	Q4 of each year starting 2022
		CHANGES SINCE L	AST EDITION
Deliverables ame	nded.	•	

6.1.1.4 Terrain collision

Issue/rationale

This risk area includes occurrence where an airborne aircraft collides with terrain, without indication that the flight crew was unable to control the aircraft. It includes instances when the flight crew is affected by visual illusions or degraded visual environment. It includes collision with water, flat terrain and elevated terrain.

What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the risk of controlled flight into terrain (CFIT).

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolio and related Safety Risk Portfolio for CAT aeroplanes & NCC (see ASR 2021 Table 7).

How we want to achieve it: actions

Following completion of the actions included under this section in EPAS 2018-2022, no further actions are included in this EPAS edition.

The section is maintained as a placeholder for future actions.

²⁹ More details about the related research projects can be found in https://www.atmmasterplan.eu/data/sesar_solutions.

6.1.1.5 Fire, smoke, pressurisation and cabin air quality

Issue/rationale

This includes cases of fire, smoke, fumes or pressurisation situations that may become incompatible with human life. It includes occurrences involving fire, smoke or fumes affecting any part of an aircraft, in flight or on the ground, which is not the result of impact or malicious acts and covers fire/explosion (load/pax), fire/explosion (technical), as well as pressurisation, conditioning and contamination occurrences.

Uncontrolled fire on board an aircraft, especially when in flight, represents one of the most severe hazards in aviation. Aircraft depressurisations and post-crash fire are also addressed in this section, which looks at situations where the internal environment of the aircraft may become hazardous or even unsurvivable.

In-flight fire can ultimately lead to loss of control, either as a result of structural or control system failure, or again as a result of crew incapacitation. Fire on the ground can take hold rapidly and lead to significant casualties if evacuation and emergency response is not swift enough. Smoke or fumes, whether they are associated with fire or not, can lead to passenger and crew incapacitation and will certainly raise concern and invite a response. Even when they do not give rise to a safety impact, they can give rise to concerns and need to be addressed.

While there were no fatal accidents involving EASA Member States' operators in the last years related to fires, there have been occurrences in other parts of the world that make it an area of concern within EPAS.

The issue of cabin air quality (CAQ) on board commercial aircraft is the subject of several investigations and research projects worldwide regarding the health and safety implications for crews and passengers.

Although representing a small proportion of CAQ events, contaminations by oil or aircraft fluids and their by-products are those that raise the utmost concerns. For this reason, the EC (DG MOVE) and EASA have launched a dedicated research project focusing on oil-related contamination. Other types of events, such as smell in cabin, are beyond the scope of such research.

What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the risk of fire, smoke, fumes, pressurisation situations and poor cabin air quality.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolio and related safety risk portfolio for CAT by aeroplane & NCC (see ASR 2021 Table 7).

How we want to achieve it: actions



RES.0016 Fire risks caused by portable electronic devices on board aircraft

Research work aimed at the full characterisation of the fire risks associated with the transport of large portable electronic devices (PEDs) in aircraft, notably of those stored in the cargo compartment in the checked-in luggage; this encompasses theoretical and experimental work to deepen the knowledge related to the inception and propagation of PED-originated fires as well as devising efficient and cost-effective means for their detection and suppression.

Status	Ongoing				
SIs/SRs	SI-002	27 Carriage and	transport of lithium batteries		
Reference(s)	n/a				
Dependencies	n/a		***************************************		
Affected stakeho	olders	CAT			
Owner	EASA SM.2 Strategy & Programmes Department				
			PLANNING MILESTONE	S	
Starting date			Interim Report	Final Report	
2020		•	n/a	2022	
			CHANGES SINCE LAST EDI	TION	
n/a			-		

RES.0030 Cabin air quality — chronic exposure to contamination events

Investigation of the potential health risks that might evolve from long-term exposure — notably for cockpit and cabin crews — to low-dose cabin air contamination events and their possible mitigations; this should encompass the collection and analysis of combined samples of contaminants cocktails and ultra-fine particles and the evaluation of their effects by comparison with epidemiological data; aggregation with currently ongoing and past research work towards a more comprehensive, robust and validated picture between levels of contamination of cabin air and potential health impacts.

Status	Ongo	ing		
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	AOC holders a	and aircrew	
()Whor		EASA SM.2 and CT	Strategy & Programmes Department Certification Directorate	
			PLANNING MILESTON	ES
Starting date			Interim Report	Final Report
2021			n/a	2024
			CHANGES SINCE LAST ED	ITION
n/a			***************************************	



RES.0044 PED — lithium batteries fire/smoke risks in cabin

Identify, determine and assess through tests the risks related to the carriage of PEDs carried by passengers and crew in the aircraft cabin.

Provide experimental evidence for the establishment of limits (power output and quantity) to the transport of PEDs and study the effects of an increase/decrease in the risks.

Reduce the consequences of events caused by PEDs by better understanding the causes and consequences and developing patterns.

Determine cabin and cockpit tolerances and identify solutions both at aircraft and battery level.

Develop new and improve existing emergency procedures for cabin crews. Identify needs for safety promotion for passengers and ways to support operators in assessing the related risks.

Status	New				
SIs/SRs	SI-002	27 Carriage and	transport of lithium batteries		
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeholders		Aircraft opera	ators, NCAs, accident investiga	ition boards	
Owner		EASA SM.2 Strategy & Programmes Department			
			PLANNING MILESTON	ES	
Starting date			Interim Report	Final Report	
2022 Q1			n/a	2025 Q1	
			CHANGES SINCE LAST EDI	TION	
n/a	***************************************		•	•	

6.1.1.6 Miscellaneous

Issue/rationale

This section gathers the actions that do not relate to any of the KRAs listed in **Section 6.1.1.1** to **6.1.1.5**. They may involve different types of actions in the domain CAT by aeroplane & NCC operations. The need for having such a category was driven by the constant development of EPAS towards new safety areas. For example, standardisation in the OPS domain will continue to focus on the effective implementation of operators' FTS schemes, particularly those including provisions subject to fatigue risk management. Another example is the promotion of FDM, an essential component of the SMS for CAT aeroplane operators and CAT offshore helicopter operators. Several dedicated actions aim at enhancing the implementation of FDM.

What we want to achieve

To increase safety with a combination of actions that address more than one issue.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

SPT.0101	Development of new safety promotion material on high-profile safety issues for commercial flight operations
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Develop new safety promotion material on high-profile safety issues for commercial flight operations. Such high-profile safety issues are to be determined from important risks identified from the SRM process, accidents/serious incidents and inputs from EASA stakeholders.

Status	Ongoin	g	
	SI-0042	Emergency evacuation	
SIs/SRs	SI-0015	Entry of aircraft performanc	e data
	SI-0043	Deconfliction between IFR a	and VFR flights
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeho	olders	CAT	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPEC	TED OUTPUT
Deliverable(s)	•••••		Timeline
Leaflets, videos, v	vebpages a	and/or applications	Continuous
		CHANGES S	INCE LAST EDITION
List of SIs updated			-



SPT.0112	Flight data monitoring (FDM) precursors of operational safety risks				
Ensure the alignm aircraft.	ent of EOF	DM precursors with the no	eeds of operators and the evolution of the safety risks for large		
Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	GASP SEIs (industry) – Mitigate contributing factors to CFIT, LOC-I, MAC, RE, and RI accidents and incidents				
Dependencies	SPT.0113	, MST.0003, EVT.0009 (cor	mpleted)		
Affected stakeho	lders	AOC holders (CAT) Ae	roplanes		
Owner		EOFDM EASA SM.1	Safety Intelligence & Performance Department		
		EXPE	CTED OUTPUT		
Deliverable(s)	Deliverable(s) Timeline				
EOFDM precursors	2022				
		CHANGES	SINCE LAST EDITION		
n/a					

SPT.0113	Flight data monitoring (FDM) analysis techniques			
,	lts for use b	'	on techniques to implement FDM events and measurements and — Flight data monitoring, analysis techniques and principles	
Status	Ongoing			
SIs/SRs	n/a			
Reference(s)	GASP SEIs (industry) – Mitigate contributing factors to CFIT, LOC-I, MAC, RE, and RI accidents and incidents			
Dependencies	SPT.0112,	EVT.0009 (completed)		
Affected stakeho	olders	AOC holders (CAT) A	eroplanes	
Owner		EOFDM EASA SM.1	Safety Intelligence & Performance Department	
	'	EXP	ECTED OUTPUT	
Deliverable(s)			Timeline	
Good-practice do	Good-practice document 2022			
		CHANGES	SINCE LAST EDITION	
n/a				



Member States should maintain a regular dialogue with their national aircraft operators MST.0003 on flight data monitoring programmes

a) Making the professionals concerned aware of the European operators FDM forum (EOFDM) Member States shall publish on their website, as part of SMS-related information, general information on EOFDM activities.

Member States should organise an information event (physical meeting or teleconference) to present EOFDM goodpractice documents to their AOC holders (CAT). Safety managers and FDM programme managers of all the operators concerned should be invited.

b) Promoting FDM good practice

Member States that have 10 or more operators running an FDM programme, should organise a workshop (physical meeting or teleconference) dedicated to EOFDM good-practice documents with the FDM specialists at these operators.

	,		· '
Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	EVT.0009 (d	completed)	
Affected stakeho	olders	AOC holders (CAT)	
Owner		Member States	
		EXPECTED OUTPUT	•
Deliverable(s)			Timeline
Information on EC	FDM publish	ed in the SMS section of MS website	2022 Q2
Report of the information event			2022 Q2
Detailed report of	the worksho	р	2022 Q2
		CHANGES SINCE LAST ED	ITION
Clarification that v	workshons m	ay be done through teleconferences.	



MST.0019 Better understanding of operators' governance structure

Member States' NCAs should foster a thorough understanding of operators' governance structure. This should in particular apply in the area of group operations³⁰.

Aspects to be considered include:

- extensive use of outsourcing,
- the influence of financial stakeholders, and
- controlling management personnel, where such personnel are located outside the scope of approval.

Note: The Agency will support this MST by providing guidance on how to effectively oversee group operations based on an overall concept for the oversight of such operations. This will consider work ongoing at ICAO level (cross-border operations) and include continuing airworthiness management aspects. The timeline is amended accordingly.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeholders		AOC holders (CAT)	
Owner		Member States	
		EXPECTED OUTPUT	
Deliverable(s)			Timeline
Guidance materia			2022 Q2
		CHANGES SINCE LAST EDITION	
n/a			

EVT.0013 Evaluation of the rules for commercial small aeroplane operations under Part-CAT and Part-SPO

Based on a request from the stakeholders through the EASA candidate issue register, an evaluation task on analysing the proportionality of the rules for commercial small aeroplane operations under Part-CAT and Part-SPO is proposed. The task is expected to analyse the relevance in terms of proportionality of the rules for small aeroplane operators and any administrative burden and inefficiencies they cause.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a	-	-		
Dependencies	EVT.0010 Evaluation on helicopter operations (completed)				
Affected stakeholders Commercial and specialised operators in EASA MS, operating non-complex aeroplaid (e.g. below 5 700 kg maximum take-off weight (MTOW))					
Owner		EASA FS.2	Air Operations Department		
		EXPI	ECTED OUTPUT		
Deliverable(s)			Timeline		
Evaluation report		•	2024		
		CHANGES	SINCE LAST EDITION		
n/a			_		

^{30 &#}x27;Group operations' refers to operations performed by a group of aircraft operators sharing the same management system or belonging to the same 'mother company'.



In addition to the above, the following actions are relevant for CAT by aeroplane & NCC operations safety:

RMT.0586 Tyre pressure monitoring system

The full description for these actions is included in **Chapter 9.**

RMT.0251 Embodiment of safety management system requirements into Commission Regulations (EU) Nos 1321/2014 and 748/2012

The full description for these actions is included in **Chapter 5.1.**

SPT.0103 Development of new safety promotion material on high-profile air traffic management safety issues

Refer to **Chapter 11.1** for the detailed action description.

RMT.0379 All-weather operations

Refer to **Section 15.1.4** for the detailed action description.

6.1.2 Level playing field

Issue/rationale

Rules may need to be harmonised within the EU as well as with the main international trade partners in order to either ensure fair competition or facilitate the free movement of goods, persons and services.

What we want to achieve

Harmonise requirements where this ensures fair competition or facilitates the free movement of goods, persons and services.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

|--|--|

Review and update the EU fuel rules, taking into account ICAO amendments and a related SR, and providing for operational flexibility.

The RMT will also address a first set of OPS electric and hybrid propulsion-related requirements for other-than-complex motor-powered aircraft types that are not covered by RMT.0230.

Status	Ongoing				
SIs/SRs	SI-0025 Fuel management SR FRAN-2012-026; SR SPAN-2017-005				
Reference(s)	n/a				
Dependencies	RMT.0731; RMT.0230; SPT.0097				
Affected stakeh	olders	AOC holders			
Owner		EASA FS.2	Air Operations Department		
Priority	No	RM Procedure	ST/RMG	Harmonisation	No
		PLANN	ING MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0573 27/04/2015	2016-06 15/07/2016	02/2020 08/10/2020	04/08/2021 2021/1296 ³¹	2022 Q1
		CHANGES	SINCE LAST EDITIO	ON	
n/a				-	

SPT.0097 Promotion of the new European provisions on fuel/energy planning and management

The objective is to complement the new regulatory package on fuel/energy planning and management with relevant safety promotion material.

The three main tasks are:

- EASA fuel scheme manual
- Workshop and events
- Safety promotion leaflets, website, video

Status	Ongoing		
SIs/SRs	SI-0025 Fue	el management	
Reference(s)	n/a		
Dependencies	RMT.0573		
Affected stakeholders		AOC holders	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPE	ECTED OUTPUT
Deliverable(s)			Timeline
Safety promotion material		•	2022-2023
		CHANGES	SINCE LAST EDITION
n/a			-

6.1.3 Efficiency/proportionality

Issue/rationale

Passenger and cargo transport by airlines generate producer, consumer and wider economic benefits. Regulatory and administrative burden reduce these benefits and need therefore to be fully justified by corresponding benefits in terms of safety and/or environmental protection.

What we want to achieve

Ensure an efficient regulatory framework for airlines.

How we monitor improvement

The EASA ABs and the CAT CAG regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

RMT.0392 Regular update of air operation rules

Necessary update reflecting technological and market developments, incorporating lessons learned from OPS standardisation inspections and transposition of the latest amendments to ICAO Annex 6 Parts I, II and III.

This RMT includes the following topics developed in the first work package:

- Extended diversion time operations (EDTO) (former RMT.0577). This subtask will consider alignment with the ICAO SARPs related to EDTO and modernise the EASA ETOPS rules.
- Transposition of the ICAO standards related to the training of operations control personnel (flight operations officers/flight dispatchers).
- Review of some helicopter rules in Part-SPA and other Subparts in various Annexes to Regulation (EU) No 965/2012.
- Review of the authority requirements based on feedback from standardisation inspections.

Further work will address operational requirements for flights related to design and production ('manufacturer flights') (former RMT.0348), operations and equipment for high-performance aeroplanes (HPA) (former RMT.0414), review of standard passenger weights (former RMT.0312) based on a survey to be commissioned by EASA, update of the AMC & GM to FDM rules, transposition of the new ICAO Annex 6 standards addressing flight recorders, and group operations.

This RMT will lead to changes at IR and at AMC & GM level.

Status	Ongoing						
SIs/SRs	SR FRAN-2009-021; SR UNKG-2020-001; SR AAIB 2020-007						
	SL AN 11/1.3.25-12/10 (EASA reference: SL 010/2012) issued by ICAO on 4 April 2012.						
Reference(s)	SL AN 11/1.3.32-18/12 (EASA reference: SL 2018/12) issued by ICAO on 29 March 2018.						
	SL AN 11/6.3.30	-18/13 (EASA referenc	ce: SL 2018/13) i	ssued by ICAO on 29 March	2018.		
	SL AN 11/32.3.1	4-18/14 (EASA referen	nce: SL 2018/14)	issued by ICAO on 29 March	2018.		
		-20/18 (EASA referenc to Annex 6 Part I.	e: SL 018e) issu	ed by ICAO on 7 April 2020 i	ntroducing		
	SL AN 11/6.3.31-20/31 (EASA reference: SL 031e) issued by ICAO on 8 April 2020 introducing amendment 37 to Annex 6 Part II.						
	SL AN 11/32.3.15-20/32 (EASA reference: SL 032e) issued by ICAO on 7 April 2020 introducing amendment 23 to Annex 6 Part III.						
Dependencies	RMT.0230; RMT.0492; RMT.0573; RMT.0599; RMT.0643; RMT.0728; RMT.0731 and RMTs related to other regular updates in various domains (e.g. RMT.0673 'Regular update of CS-25'). The new rules on EDTO (replacing the ETOPS terminology) and those related to aircraft with electric propulsion may have a future impact on the theoretical knowledge of pilots.						
Affected stakeholders All aircraft operators; DOA holders, POA holders; and NCAs							
Owner		EASA FS.2	Air Operations Department				
Priority	No	RM Procedure	ST	Harmonisation	Yes		
PLANNING MILESTONES							
SubT	ToR	NPA	Opinion	Commission IR	Decision		
1	RMT.0392 07/10/2020	2022 Q3	2023	2024	2024		
2		2023	2024	2025	2025		
CHANGES SINCE LAST EDITION							
Update of task de	escription						



RMT.0736 Regular update of the Third-Country Operator Regulation

The task is based on the results of the Evaluation of the Third-Country Operator Regulation (EVT.008) finalised in 2020. The evaluation recommends initiating a regular update of Commission Regulation (EU) No 452/2014 to foster the risk-based approach in the processing and assessing of the compliance of third-country operators and hence improving the efficiency of EASA as the responsible authority for the implementation of the Regulation. The task will deal with cleaning, clarifying and removing inconsistencies and enhance the interrelationship with the EU Air Safety List both for the 'hard' and 'soft' law.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	EVT.0008 (completed)				
Affected stakeh	olders	Third-country oper	rators		
Owner	EASA FS.2		Air Operations Department		
Priority	No	RM Procedure	AP	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
current	ToR RMT.0736 14/07/2021	2022 Q1 (FoC ³²)	2022 Q3	2023	2023
		CHANGES S	SINCE LAST EDIT	ION	
n/a					

In addition to the above, the following action is relevant to efficiency/proportionality in CAT by aeroplane & NCC operations:

RMT.0499 Regular update of CS-MMEL

The full description for these actions is included in **Chapter 9.**



6.2 Specialised operations (SPO)

NB: For SPO helicopters, please refer to **Chapter 7.**

Issue/rationale

Operators other than CAT or NCC, e.g. conducting aeroplane SPO either under Part-SPO³³ or Part-NCO³⁴, make an important contribution to the aviation's overall role in modern economies. There is thus a need for an efficient regulatory framework.

An analysis per type of operation shows that the type of operations with the highest number of accidents and serious incidents, on average in the period 2009-2018 were:

- Parachuting operations;
- towing; and
- airshow/race

In 2019, the top SPO types in terms of accidents and serious incidents were parachute drop, airshow/race, towing and calibration flights³⁵.

The top three KRAs for aeroplane SPO are indicated below (refer to ASR 2021 Figure 15 and Table 10):

Specialised operations – aeroplanes

KRA 1	KRA 2	KRA 3
Aircraft upset	Terrain collision	Airborne collision

What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the key risks.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolio and related Safety Risk Portfolio for Specialised Operations Aeroplane.

How we want to achieve it: actions

³³ Annex VIII to Regulation (EU) No 965/2012.

³⁴ Annex VII to Regulation (EU) No 965/2012.

³⁵ Calibration flights are flights for the purpose of calibrating ground-based instrument approach support systems.

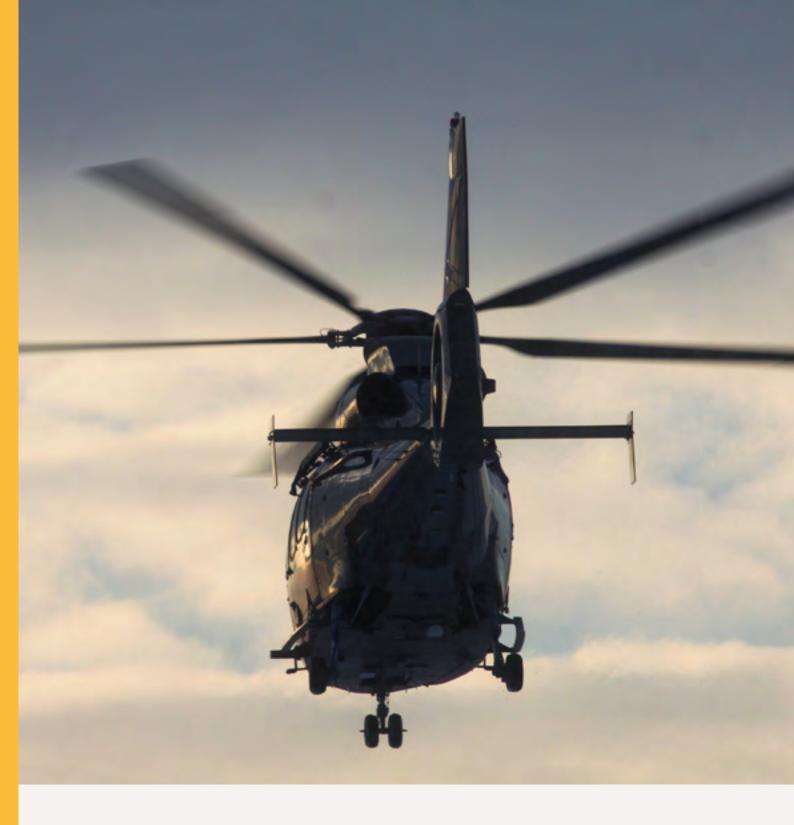
VOLUME II - 6.2 SPECIALISED OPERATIONS (SPO)



SPT.0121 Improving the safety of parachuting operations

Create and deliver safety promotion material to improve the safety of parachuting aircraft operations by both highlighting the most common causes of accidents in this domain and providing good practices/operational procedures that can help to mitigate the most important risks.

Status	Ongoing			
SIs/SRs	SI-4023 Parachuting operations			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeholders		NCAs, SPO/NCO opera holders and students,	ators engaged in parachuting operations, TOs, pilot licence ANSPs, ATCOs	
Owner EASA SM		EASA SM.1	Safety Intelligence & Performance Department	
		EXPE	CTED OUTPUT	
Deliverable(s)			Timeline	
Safety promotion material			2022	
		CHANGES	SINCE LAST EDITION	
n/a				



7. Rotorcraft

7. Rotorcraft

This chapter groups all the actions in the area of rotorcraft operations and provides links to rotorcraft-related actions in the domains of crew training, design, manufacture and maintenance, in line with EASA's **Rotorcraft Safety Roadmap**³⁶.

Issue/rationale

The Roadmap aims at significantly reducing the number of rotorcraft accidents and incidents and focuses on traditional/conventional rotorcraft including GA rotorcraft where the number of accidents is recognised to be higher. It focuses on safety and transversal issues that need to be tackled through actions in various domains, including training, operations, initial and continuing airworthiness, environment and facilitation of innovation.

Helicopter operators perform a wide range of highly specialised operations that are important for the European economy and citizens. There is a need to further develop towards an efficient regulatory framework, considering technological advancements.

This area includes three types of operations involving certified helicopters:

- CAT operations, passenger and cargo conducted by EASA Member States' AOC holders, including passenger and cargo flights to and from offshore oil and gas installations in CAT;
- SPO (aerial work), such as advertisement, photography, with an EASA Member State as the State of operator or State of registry; and
- non-commercial operations with helicopters registered in an EASA Member State or for which an EASA Member State is the State of operator; this section includes in particular training flights.

7.1 Safety

In 2020 there were 4 fatal accidents, 24 non-fatal accidents and 18 serious incidents involving rotorcraft performing commercial air transport, specialised operations or non-commercial operations. The number of fatal accidents and non-fatal accidents in 2020 reduced by 50% in comparison with the average figures of the previous 10-year period (10.8 for fatal and 53.4 for non-fatal accidents), whereas the number of serious incidents was higher than the 10-year average (13.6). The number of fatalities (9) and serious injuries (3) in 2020 were also significantly lower than the preceding decade average. This significant drop in the number of occurrences should be interpreted cautiously, as the exact impact of the COVID-19 pandemic on the rotorcraft flying activity at European level is difficult to evaluate at present.

The majority (80%) of all accidents and serious incidents involved rotorcraft performing non-commercial operations or specialised operations. The top three key risk areas for each of the three types of operation are as follows:



CAT operations helicopters

KRA 1	KRA 2	KRA 3
Aircraft upset	Terrain collision	Airborne collision

The aircraft upset accident scenario is still the top key risk area, both in terms of number of occurrences and aggregated risk. Terrain collisions, airborne collisions and obstacle collisions in flight form the other main key risk areas of the commercial air transport helicopters domain. Also, it should be highlighted that even if, over the 5-year timeframe considered, aircraft upset and terrain collision present the highest cumulated risk, airborne collision becomes the top key risk area if we consider only the last 3 years (2018-2020), due to the increase of fatalities caused by airborne collisions in 2018 (4 fatalities) and in 2019 (10 fatalities).

SPO helicopters (aerial work)

KRA 1	KRA 2	KRA 3
Aircraft upset	Terrain collision	Obstacle collision in flight

In SPO there were 1 fatal accident, 9 non-fatal accidents and 3 serious incidents in 2020, leading to 2 fatalities.

Non-commercial operations helicopters

KRA 1	KRA 2	KRA 3
Aircraft upset	Terrain collision	Obstacle collision in flight

In non-commercial operations, there were 2 fatal accidents, 15 non-fatal accidents and 7 serious incidents in 2020, leading to 6 fatalities and 3 serious injuries.

The safety issues identified for all KRAs, for the different types of operation, are listed in the ASR 2021 (refer to Table 18 - CAT, Table 21 - SPO and Table 24 - Non-commercial operations).

Based on the data supporting the different portfolios, the following priority 1 key risk areas can be highlighted:

helicopter upset in flight (loss of control)

This is key risk area with the highest priority in CAT helicopter operations and the most common accident outcome for SPO. The following actions contribute to mitigating risks in this area: RMT.0128, RMT.0709 and RMT.0711.

terrain collision and obstacle collision in flight

This is the second priority key risk area for helicopter operations (CAT, SPO and non-commercial operations), although equipment is now fitted to helicopters in this domain that will significantly mitigate the risk of this outcome. Obstacle collisions is the second most common accident outcome in the CAT helicopters domain. This highlights the challenges of HEMS operations and their limited selection and planning for landing sites. Terrain collision and obstacle collision in flight are also the second most common outcomes for SPO. The following action contributes to mitigating risks in this area: RMT.0708. In addition, from an airspace perspective, it is important to ensure that the airspace and routes design facilitate safe operations of helicopters which typically fly at low levels. Within SESAR 1, there have been solutions aiming to improve safety and efficiency of helicopter operations such as those supporting the establishment of low-level IFR routes³⁷.



Increase safety by continuously assessing and improving risk controls in the above areas. Increase efficiency by enabling implementation of appropriate and balanced regulation.

How we monitor improvement

Continuous monitoring of safety issues identified in the specific data portfolios established for CAT helicopter operations, helicopter SPO and non-commercial operations (ref: ASR 2021 Chapter 3, Tables 18, 21 and 24).

The EASA ABs regularly provide feedback on the actions where efficiency/proportionality is the main driver.

How we want to achieve it: actions

This task aims at enhancing post-ditching and water impact standards for rotorcraft that could significantly enhance occupant escape and survivability. It will, in part, consider the recommendations arising from early work performed by the Joint Aviation Authorities (JAA) Water Impact, Ditching Design and Crashworthiness Working Group (WIDDCWG) and the Helicopter Offshore Safety and Survival Working Group (HOSSWG).

In a first phase, EASA addressed amendments to CS-27/29. In a second phase, EASA is introducing amendments to Part-26/CS-26.

Status	Ongoing				
	SR UK.CAA-201	4-006; SR ESTO-2008-	001; SR UNKG-201	11-065; SR UNKG-2011-068	•
	SR UNKG-2011-	069; SR UNKG-2011-07	71; SR UNKG-2014	-017; SR UNKG-2014-018;	
SIs/SRs	SR UNKG-2016-	-017; SR UNKG-2016-02	18; SR UNKG-2016	-019; SR UNKG-2016-020;	
	SR UNKG-2016-	-021; SR UNKG-2016-02	22; SR UNKG-2016	5-025; SR UNKG-2016-026.	
	SI-8039 Hazard	ous conditions follow	ing ditching		
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeholders		DAHs and helicopter operators			
Owner		EASA CT.5	CT.5 Policy, Innovation & Knowledge Department		ment
Priority	Yes	RM Procedure	ST/RMG	Harmonisation	No
		PLANN	ING MILESTONES	S	
SubT	ToR	NPA	Opinion	Commission IR	Decision
1	RMT.0120	2016-01	n/a	n/a	2018/007/R
	24/10/2012	23/03/2016	11/a	ıı/a	25/06/2018
2		2020-16 23/12/2020	2021 Q4	2022 Q4	2022 Q4
		CHANGES :	SINCE LAST EDIT	ION	
SI list updated					



RMT.0325 Helicopter emergency medical services' performance and public interest sites

To properly address the issues stemming from non-implementation or deviation from JAR-OPS 3 performance and public interest sites (PIS) provisions; in particular, performance in high mountains considering review of the safety level of HEMS flights at night following a UK Safety Directive.

Status	Ongoing				
SIs/SRs	SR ITAL-2019-001				
Reference(s)	UK Safety Direc	tive 2014/003 ³⁸			
Dependencies	n/a				
Affected stakeh	olders	Aircraft Operators	- CAT - Helicopter	s - HEMS, MOs (Part-145)	
Owner		EASA FS.2	Air Operations	s Department	
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0325 26/03/2014	2018-04 18/06/2018	2023	2024	2024
		CHANGES	SINCE LAST EDIT	ION	
n/a					



RMT.0708 Controlled flight into terrain prevention with helicopter terrain awareness warning systems (HTAWS)

Mandating HTAWS is expected to prevent between 8.5 and 11.5 CFIT accidents with fatalities or severe injuries within 10 years (medium safety improvement). This RMT will consider proposing the mandatory installation of HTAWS on board the helicopter for certain operations. HTAWS should only be required to be retrofitted to the current fleet if HTAWS standards are improved. An appropriate impact assessment for retrofit will need to be further developed. Based on the preliminary cost-effectiveness analysis, HTAWS for the following operations are not to be considered: NCO, SPO, and CAT with small helicopters in visual flight rules (VFR) operations (night and day). For offshore helicopter operations, this also includes the involvement of the EASA Certification Directorate working with stakeholders on the evaluation of updated HTAWS standards.

Ongoing						
SR UNKG-2014-	034; SR UNKG-2016-01	13				
SI-8019 Degrad	led visibility condition	S				
n/a						
n/a						
Affected stakeholders		Aircraft Operators - Helicopters				
	EASA FS.2	Air Operations Department				
No	RM Procedure	AP	Harmonisation	No		
	PLANNI	NG MILESTONE	S			
ToR	NPA	Opinion	Commission IR	Decision		
31/07/2019	2023 (FoC ³⁹)	2024	2025	2025		
	SR UNKG-2014- SI-8019 Degrad n/a n/a olders No	SR UNKG-2014-034; SR UNKG-2016-03 SI-8019 Degraded visibility condition n/a n/a olders Aircraft Operators EASA FS.2 NO RM Procedure PLANNI TOR NPA	SR UNKG-2014-034; SR UNKG-2016-013 SI-8019 Degraded visibility conditions n/a n/a olders Aircraft Operators - Helicopters EASA FS.2 Air Operation No RM Procedure AP PLANNING MILESTONE TOR NPA Opinion	SR UNKG-2014-034; SR UNKG-2016-013 SI-8019 Degraded visibility conditions n/a n/a olders Aircraft Operators - Helicopters EASA FS.2 Air Operations Department No RM Procedure AP Harmonisation PLANNING MILESTONES Tor		

CHANGES SINCE LAST EDITION

Change of the rulemaking procedure from standard to accelerated. Considering the technical nature of the task and the limited number of stakeholders affected, it is considered that a focused consultation is preferable to the standard public consultation.

SI list updated.



RMT.0724 Improvement of operating information provided to rotorcraft flight crew

The objective of this RMT is to improve the operating information provided to rotorcraft flight crew in the aircrew operating manuals. This could be achieved by standardising the structure and approach used to present operational information in rotorcraft manuals, thereby improving the clarity of this information. This RMT will consider the current approach utilised in CS-25 AMC, and other initiatives such as the activity undertaken by Heli Offshore.

Status	Ongoing					
SIs/SRs	SR UNKG-2014-013; SR UNKG-2016-005; SR UNKG-2016-006 SI-8046 Deficiencies / inconsistencies in operating manuals					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeholders		Aircraft Operators	Aircraft Operators - Helicopters			
Owner		EASA CT.5	EASA CT.5 Policy, Innovation & Knowledge Department			
Priority	No	RM Procedure	ST	Harmonisation	No	
		PLANNI	NG MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	RMT.0724 12/03/2021	2023	n/a	n/a	2024	

CHANGES SINCE LAST EDITION

Change of title in line with the ToR; SI list updated, affected stakeholders updated.

SPT.0082	Support the development and implementation of flight crew operating manuals (FCOMs)
	for offshore helicopter operations

Provide support to manufacturers, if needed, in the development of FCOMs for different helicopter types, and support/encourage operators in their implementation.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		-
Dependencies	RMT.0724		
Affected stakeho	lders	Aircraft Operators – I	Helicopters, DOA and POA holders - Helicopters
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXP	ECTED OUTPUT
Deliverable(s)			Timeline
Report			2022
		CHANGES	SINCE LAST EDITION
Affected stakehold	lers updated	-	-



SPT.0093 Development of new safety promotion material on high-profile helicopter issues

In cooperation with the VAST (Vertical Aviation Safety Team, previously IHSF), develop new safety promotion material (leaflets, videos, applications, etc.) on subjects such as performance-based navigation, point in space, low-level IFR, bird strike, operational and passenger pressure management, aimed at pilots and owners of private helicopters. Such safety promotion material shall address the most important areas of rotorcraft safety as directed through the Rotorcraft Committee and EASA Rotorcraft Strategy.

Status	Ongoing						
C. /CD	SI-8030 Bird	d and other wildlife hazar	d				
SIs/SRs	SI-8038 Ext	ernal sling load operatior	ns related issues				
Reference(s)	n/a	n/a					
Dependencies	n/a						
Affected stakeho	olders	Aircraft Operators – He	licopters				
Owner		ESPN-R	European Safety Promotion Network Rotorcraft				
	<u>'</u>	EXPEC	TED OUTPUT				
Deliverable(s)	•		Timeline				
Leaflets, videos, v	vebpages and	or applications	Continuous				
		CHANGES SI	NCE LAST EDITION				
SI list updated, aff	ected stakeho	olders updated					

SPT.0094 Helicopter safety and risk management

Review existing helicopter safety & risk management material to check consistency and update (when applicable) the material to reflect new rules, standards and international good practice coming, for example, from the VAST and SMICG.

Status	Ongoin	g				
SIs/SRs	SI-8044	SI-8044 Ineffective safety management systems				
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeho	olders	Aircraft Operators – Helicopters				
Owner		ESPN-R	European Safety Promotion Network Rotorcraft			
		EXPECTED OUT	PUT			
Deliverable(s)	•		Timeline			
Revised helicopte	r safety &	risk management manuals and/or tool	kits 2022			
		CHANGES SINCE LAST	EDITION			
SI list updated, aff	ected stak	keholders updated				



SPT.0096 Organisation of an annual safety workshop

The European Safety Promotion Network Rotorcraft (ESPN-R) to organise a safety forum, in cooperation with the trade shows. This high-profile event promotes safe helicopter operations and fosters interactions within the community. The event theme changes every year.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeho	olders	Aircraft Operators -	- Helicopters, NCAs
Owner		ESPN-R	European Safety Promotion Network Rotorcraft
		EX	PECTED OUTPUT
Deliverable(s)	•		Timeline
Safety Workshop	•		Continuous
		CHANGE	S SINCE LAST EDITION
Affected stakehol	ders updated		

SPT.0099 Helicopter hoist safety promotion

Develop safety promotion material for helicopter hoists.

NB: 2019 deliverables already available are shared via the LinkedIn group⁴⁰. The group is called 'ESPN-R Hoist Operation Safety Promotion'.

Status	Ongoin	g				
SIs/SRs	SI-8037	SI-8037 Hoist operations related issues				
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeho	olders	Aircraft Operators – H	lelicopters			
Owner		EASA SM.1	Safety Intelligence & Performance Department			
		EXPE	CTED OUTPUT			
Deliverable(s)	•		Timeline			
Safety promotion	material		2021			
Pilot guidance to I	hoist oper	ations	2022			
		CHANGES :	SINCE LAST EDITION			
Another deliverab	le added.	SI list and affected stakeho	lders updated			



MST.0015 Helicopter safety events

Member States' NCAs, in partnership with industry representatives, should organise helicopter safety events annually or every 2 years. The ESPN-R (previously EHEST), VAST (previously IHSF), NCA, Heli Offshore or other sources of safety promotion material could be freely used and promoted.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeho	olders	Aircraft Operators – Helicopters, NCAs	
Owner		Member States	
		EXPECTED OUTPUT	
Deliverable(s)			Timeline
Workshop	•		Continuous
		CHANGES SINCE LAST EDITION	
Affected stakehol	ders updated		

MST.0031	Implementation of SESAR solutions aiming to facilitate safe instrument flight rules
	operations

Member States together with their ANSPs and their flight procedure designers (if different from ANSPs) should evaluate the possibility to establish a network of low-level IFR routes in their airspace to facilitate safe helicopter operations. These SESAR solutions, such as solution #113, which are designed to improve safety, should be implemented as far as it is feasible.

See SESAR Solutions Catalogue2019 Third Edition:

https://www.sesarju.eu/sites/default/files/documents/reports/SESAR_Solutions_Catalogue_2019_web.pdf

Status	Ongoing	
SIs/SRs	n/a	
Reference(s)	ATM Master Pla	an (Level 3 Ed 2019) action NAV12 (ATS IFR Routes for Rotorcraft Operations)
Dependencies	n/a	-
Affected stakeho	lders Ai	ircraft Operators – Helicopters, NCAs
Owner	М	lember States
		EXPECTED OUTPUT
Deliverable(s)		Timeline
IFR routes/report		2025
		CHANGES SINCE LAST EDITION
Affected stakehold	lers updated	



RES.0008 Integrity improvement of rotorcraft main gear boxes (MGB)

Further to the investigation of the EC225 LN-OJF accident, the research aimed at identifying threats to the integrity of critical components of rotor drive systems and at developing methods for evaluating flaw-tolerant critical component designs. Specifically, this includes enhancements to the design of helicopter MGB and its attachments, to preclude separation of the mast and main rotor from the helicopter and to enable autorotation even in the event of major failure of the MGB components.

Status	Ongoing				
a. Ia.	SR LN-OJF				
SIs/SRs	SI-8001 Helicopter ro	tor and transmission system fa	ailures		
Reference(s)	https://www.easa.eur	opa.eu/research-projects/integ	rity-improvement-rotorcraft-main-gear-box-mgb		
Dependencies	n/a				
Affected stakeho	DOA holders	- Helicopters			
Owner	EASA SM.2	Strategy & Programmes De	epartment		
		PLANNING MILESTONE	ES		
Starting date		Interim Report	Final Report		
2020 Q2		n/a	2023 Q1		
		CHANGES SINCE LAST EDI	TION		
SI list and affected	d stakeholders updated				

RES.0009 Helicopter offshore operations — new floatation systems

Assessment of technical solutions for enhancing helicopter floatation at sea in view of heightening survivability following helicopter capsizes, which is the major event conducive to fatalities due to drowning.

Status	Ongoing				
SIs/SRs	SI-8039 Hazardous conditions following ditching				
Reference(s)	https:	//www.easa.eur	opa.eu/research-projects/heli	icopter-shore-operations-new-flotation-systems	
Dependencies	n/a				
Affected stakehol	lders	DOA holders	- Helicopters		
Owner		EASA SM.2 Strategy & Programmes Department			
			PLANNING MILESTONI	ES	
Starting date			Interim Report	Final Report	
2020 Q2		•	n/a	2023 Q2	
			CHANGES SINCE LAST EDI	TION	
SI list and affected	stakeh	olders updated	-		

tbd

Affected stakeholders updated



RES.0011		Helicopter, tilt rotor and hybrid aircraft gearbox health monitoring — in-situ failure detection					
New technologies	s for in-s	itu detection of	tilt rotor, helicopter and h	nybrid aircraft gearbox failures.			
Status	On ho	old					
SIs/SRs	SR UN	IKG-2011-041					
Reference(s)	https: opera UK M	Cleansky 2 iGear project: Intelligent Gearbox for Endurance Advanced Rotorcraft https://www.researchgate.net/publication/333827990_Vibration_analysis_under_varying_ operating_conditions_for_rotorcraft_gearbox_monitoring; UK MENtOR project: Methods and Experiments for NOvel Rotorcraft https://qtr.ukri.org/projects?ref=EP%2FS013814%2F1.					
Dependencies	n/a						
Affected stakeho	olders	Aircraft Opera	itors – Helicopters, DOA a	nd POA holders - Helicopters			
Owner		EASA SM.2	Strategy & Programme	es Department			
			PLANNING MILEST	ONES			
Starting date			Interim Report	Final Report			

CHANGES SINCE LAST EDITION

tbd

tbd



RES.0035 Helicopter under water evacuation

The following objectives should be addressed under this topic:

- Evaluate the influence of being underwater on the required jettison force and operation of an underwater emergency exit or escape window.
- Determine the forces that human test subjects (covering the range of sizes from 5th percentile female to 95th percentile male) are capable of applying to jettison an underwater emergency exit or escape windows when underwater.
- Establish an appropriate maximum operating/jettison force for underwater emergency exits to ensure that these exits are operable in an emergency when underwater.
- Provide confirmation of the validity of the current CS-27 and CS-29 AMC material for compliance with the requirement 'the means of opening each emergency exit must be simple and obvious and may not require exceptional effort' for underwater emergency exits, or propose a future revision based on the technical findings of this research.
- Better quantify the underwater escape process from a capsized helicopter using a full complement of test subjects in the simulator, in both light and dark conditions.
- Determine whether the current expectation of a 60-second escape time is achievable under a range of conditions and possible seat configurations, using test subjects that are representative of the demographic of the European offshore population.
- Validate the current CS-27 and CS-29 requirements and AMC material related to occupant egress in the event of a capsize, or propose a future revision based on the technical findings of this research.

Status	New				
!	SR 201	6-016			
SIs/SRs	SI-8039	9 Hazardous co	nditions following ditching		
Reference(s)	n/a				
Dependencies	n/a	•			
Affected stakeho	olders	Aircraft Opera	ators – Helicopters, DOA hol	ders, NCAs	
Owner		EASA SM.2	Strategy & Programmes I	Department	
			PLANNING MILESTON	NES	
Starting date			Interim Report	Final Report	
2021 Q1	n/a 2023 Q1				
			CHANGES SINCE LAST ED	DITION	
SI list and affected	d stakeho	lders updated			



RES.0039 Vortex ring state prediction and recovery

The research project shall pursue the following objectives:

- Determine the flight conditions in which the vortex ring state starts to develop for at least three different types of helicopters to support and evaluate the correctness of theoretical methods for prediction of the vortex ring boundaries.
- Evaluate the effectiveness of the 'Vuichard Recovery Technique' for at least three different types of helicopters.

Status	New			
SIs/SRs	SI-8025 Vortex ring	SI-8025 Vortex ring state (VRS): Inadvertent entry into VRS / Inadequate recovery from VRS		
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders Aircraft Op	erators – Helicopters, DOA holde	ers, NCAs	
Owner	EASA SM.2 Strategy & Programmes Department			
		PLANNING MILESTONI	ES	
Starting date		Interim Report	Final Report	
2021 Q3		n/a	2023 Q1	
		CHANGES SINCE LAST EDI	TION	
SI list and affected	d stakeholders update	d		

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In addition to the above actions listed in this chapter, the following RMTs are directly relevant to rotorcraft safety:

RMT.0709	Prevention of catastrophic accidents due to rotorcraft hoist issues	
RMT.0710	Improvement in the survivability of rotorcraft occupants in the event of a crash	
RMT.0711	Reduction in accidents caused by failures of critical rotor and rotor drive components through improved vibration health monitoring systems	
RMT.0712	Enhancement of the safety assessment processes for rotorcraft designs	
RMT.0725	Rotorcraft chip detection system	
RMT.0726	Rotorcraft occupant safety in the event of a bird strike	

The full description for these actions is included in **Chapter 9**.

DAAT ASSA				
DRAIN270	- A I	LWAST	nor o	noratione
RMT.0379	AL	LWEAL	HEI U	perations
111111110070				

The full description for this action is included in **Section 15.1.4**.



In addition to the above actions listed in this chapter, the following SPTs are directly relevant to rotorcraft safety:

SPT.0110	Standardisation of flight examiners	
SPT.0111	Flight examiners manual	

The full description for these actions is included in **Section 5.3.3.**

SPT.0119 Promoting iConspicuity

The full description for this action is included in **Chapter 8.**

MST.0002 Promotion of SMS

The full description for this action is included in **Section 5.1.**

In addition to the above actions listed in this chapter, the following RESs are directly relevant to rotorcraft safety:

RES.0016	Fire risks caused by portable electronic devices on board aircraft

The full description for this action is included in **Chapter 6.**

RES.0021	Research projects aiming to prevent mid-air collision risks	
RES.0031	Interoperability of different iConspicuity devices/systems	

The full description for this action is included in **Chapter 8**.

droplet (SLD)

The full description for this action is included in **Chapter 9.**

ns risk assessment framework	Single pilot operations risk	RES.0028
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The full description for this action is included in **Chapter 15**.

RES.0025	Assessment of environmental impacts — rotorcraft noise
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The full description for this action is included in **Chapter 16.**

7.2 Level playing field

RMT.0318 Single-engine helicopter operations

Review the applicable rules and the associated AMC & GM to re-evaluate restrictions on single-engine helicopters to operate over congested environment.

Ongoing				
n/a				
n/a				
n/a				
Affected stakeholders Air operators - Helicopters				
	EASA FS.2	EASA FS.2 Air Operations Department		
No	RM Procedure	AP	Harmonisation	No
	PLANNI	NG MILESTONES	;	
ToR	NPA	Opinion	Commission IR	Decision
RMT.0318 06/02/2018	2023 (FoC ⁴¹)	2024	2025	2025
	n/a n/a n/a olders No ToR RMT.0318	n/a n/a n/a n/a olders Air operators - Hel EASA FS.2 No RM Procedure PLANNI TOR NPA RMT.0318 2023 (FoC ⁴¹)	n/a n/a n/a n/a olders Air operators - Helicopters EASA FS.2 Air Operations No RM Procedure AP PLANNING MILESTONES TOR NPA Opinion RMT.0318	n/a n/a n/a n/a olders Air operators - Helicopters EASA FS.2 Air Operations Department No RM Procedure AP Harmonisation PLANNING MILESTONES Tor NPA Opinion Commission IR RMT.0318

CHANGES SINCE LAST EDITION

In the previous EPAS edition this task was put on hold. Deliverables have now been planned.

The topic of restrictions on piston engine helicopters to operate over hostile environment has been removed from the scope of the task, since it is covered by RMT.0392.

Change of the rulemaking procedure from standard to accelerated. Considering the specific nature of the tasks and the limited number of stakeholders affected, a focused consultation is preferable to the standard public consultation.

7.3 Efficiency/proportionality

Following completion of the actions included under this section, no further actions are included in this EPAS edition. The section is maintained as a placeholder for future actions.

The following RMTs are directly relevant to Rotorcraft efficiency/proportionality:

RMT.0494 Flight time limitation rules for helicopter operations

The full description for this action is included in **Section 5.2.2.**

RMT.0392 Regular update of air operation rules

The full description for this action is included in **Section 6.1.3.**

RMT.0128 Regular update of CS 27 / 29

The full description for this action is included in **Chapter 9.**

⁴¹ Focused consultation.



8. General Aviation



8. General Aviation

This Chapter covers GA non-commercial operations involving aeroplanes with MTOMs below 5 700 kg registered in an EASA Member State, as well as all operations with balloons and sailplanes.

GA remains a high priority for EASA and the EC.

GA in Europe is maintaining a stable activity involving 10 times more aircraft and airfields than CAT. GA has been since its origin the cradle for innovation and recruitment of young professionals (ATCOs, mechanics, pilots, etc.) and a means to connect people across Europe.

Recognising the importance of GA and its contribution to a safe European aviation system, EASA in partnership with the EC and other stakeholders has created the GA roadmap project in 2013, and has started in 2019 a new phase of the project called GA Roadmap 2.0.

With that, EASA is dedicating effort and resources to make GA safer and cheaper.

Addressing safety risks in GA in a proportionate and effective manner is a strategic priority. Between 2010 and 2019, accidents in Europe involving recreational aeroplanes, i.e. non-commercially operated small aeroplanes with MTOMs below 5 700 kg, led to between 91 and 132 fatalities per year, with an average of 106.8 fatalities per year for the preceding decade. These figures exclude fatal accidents involving micro light airplanes, gliders and balloons. As such, this sector of aviation has the highest average number of fatalities per year.

In 2020, there were 58 fatal accidents causing 97 fatalities involving recreational aeroplanes. 2020 shows a 7% reduction of fatal accidents compared to the 10-year average. The reduction in non-fatal accidents is 2% compared to the 10-year average. The number of serious incidents, however, was more than double in 2020 in comparison with the 10-year average. There were 9% fewer serious injuries than during the preceding decade.

There were 16 fatalities in sailplane operations in 2020. This is a significant decrease when compared to the 10-year average. The number of serious injuries is, however, a bit higher than the 10-year average. The COVID-19 pandemic has significantly affected sailplane operations. Specifically, during the period from March to May 2020, the flight operations were significantly reduced.

As concerns balloons, in 2020 there were 3 fatal accidents with 3 fatalities, 16 non-fatal accidents and 2 serious incidents. These figures are slightly below the average for the preceding decade.

Although it is difficult to precisely measure the evolution of safety performance in GA due to lack of consolidated exposure data (e.g. accumulated flight hours), the high number of these accidents shows that further efforts are required to mitigate risks leading to those fatalities; these are explained on the following pages.

Based on the data supporting the data portfolio and Safety Risk Portfolio for non-commercially operated small aeroplanes (MTOMs below 5 700 kg), the following top three KRAs can be highlighted (refer to ASR 2021 Table 13):

Non-commercially operated small aeroplanes				
KRA 1	KRA 2	KRA 3		
Aircraft upset	Terrain collision	Obstacle collision in flight		

The safety issue system reliability is the highest in terms of both number of occurrences and risk. A part of those occurrences contain engine failures and engine performance problems that force the aircraft to land.

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In general, engine failure by itself is not an issue that should cause a fatal outcome as the glide ratio of general aviation aircraft is generally good and should enable pilots to find a suitable landing area, given their pre-flight preparation and sufficient altitude at the time of the failure. This issue has strong links to another safety issue called 'handling of technical failures'. The latter issue focuses on the pilot's actions after the engine failure. Many of the accidents under this issue are fatal accidents, therefore high-risk score has been attributed. The safety issues of perception and situational awareness, decision-making and planning, and flight planning and preparation all relate to the handling of technical failures safety issue, which highlights that it is the pilot's actions that are either precursors or resulting actions in their attempt to recover the situation. These three HF/HP issues highlight the importance of planning each flight carefully and of anticipating various scenarios in the planning. Such scenario planning will enable the pilot to react correctly to the safety-critical situation and perhaps avoid a serious outcome — specifically loss of control situations.

The KRA showing the highest risk is aircraft upset. While runway excursions are common, there is a low risk of fatal or serious injuries associated with them.

The associated priority 1 safety issues are:

- Engine system reliability
- Inadvertent flight into IMC/scud flying
- Experience, training and competence of individuals
- Pre-flight planning and preparation
- Inflight decision making and planning
- Airborne conflict
- Handling of technical failures
- Engine system reliability

For **sailplanes**, the top three KRAs are indicated below (refer to ASR 2021 Figures 106 showing KRAs from the pilot perspective, Figure 107 and Table 30):

Sailplanes				
KRA 1	KRA 2	KRA 3		
Aircraft upset	Terrain collision	Obstacle collision in flight		

The area showing the highest risk is aircraft upset involving stalls, spins and other type of loss of control. Other areas of concern are terrain collisions where the aircraft is colliding with hills, mountains or other terrain, and obstacle collision in flight where the aircraft is hitting obstacles during take-off, approach and landing. The excursion risk area does not provide a high-risk score, even though it is high in numbers and results in substantial costs due to damage both during landings on the airfield and off-field landings. The airborne collision risk ranks lower, it predominantly exists around airfields and when several sailplanes are searching for lift in the same area.

The associated priority 1 safety issues are:

- approach path management;
- Airborne conflict:
- incomplete winch launches;
- system reliability; and
- in-flight decision-making and planning;



The top three KRAs in balloon operations are as follows (refer to ASR 2021 Figure 96 and Table 27):

Balloons		
KRA 1	KRA 2	KRA 3
Obstacle collision in flight	Balloon landings	Fire and smoke

KRAs bearing the highest risk are obstacle collision in flight and balloon landing. The analysis of data from accidents and serious incidents confirms that collisions with power lines and hard landings are events with a higher likelihood to cause injuries, and potentially fatalities, in ballooning operations.

The highest risk safety issues under the obstacle collision in flight key risk area, based on the coding of the occurrences, are:

- power line collisions;
- collision with buildings and trees; and
- control of flight path and inertia.

Power line collision events often overlap with the balloon landings as these collisions tend to occur in the final stages of the balloon flight. In some cases, the balloon collides with the power line after the landing has taken place.

8.1 Safety

This section is further subdivided to actions that are grouped per main safety issue (see 8.1.1 to 8.1.5). While the current EPAS may not include mitigation actions for each of those, the safety issue description is maintained to raise awareness.

8.1.1 Systemic enablers

Issue/rationale

This section addresses system-wide or transversal issues that affect GA as a whole and are common to several safety risk areas. In combination with triggering factors, transversal factors can play a significant role in incidents and accidents. Conversely, they also offer opportunities for improving safety across risk domains.

What we want to achieve

Reduce the number of fatalities in GA through the implementation of systemic enablers.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolio for non-commercially operated small aeroplanes as well as for sailplanes and balloons. (refer to ASR 2021 Tables 13, 30 and 27 respectively).

How we want to achieve it: actions

SPT.0083 Flight instruction

Develop safety promotion material aimed at making more effective use of and maximising the safety benefits of biennial class rating revalidation check flights with examiners and refresher training with flight instructors, including differences between aircraft types.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	RMT.0678	, RMT.0194	
Affected stakeho	olders	GA	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXP	ECTED OUTPUT
Deliverable(s)			Timeline
Safety promotion	material		2022
		CHANGES	SINCE LAST EDITION
n/a			

SPT.0125 Promotion of the most important safety issues for General Aviation

Safety promotion campaigns prior to each flying season and following each season to help maintain skills and currency – based on highlighting the most important safety issues identified from the safety risk management process.

Coordinate with NCAs and industry partners to maximise the number of coordinated events and release of material in local languages.

Status	New		
SIs/SRs	Refer to t	he SIs described for Gene	ral Aviation in EPAS Volume III.
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeho	olders	GA	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPE	ECTED OUTPUT
Deliverable(s)	•	-	Timeline
Safety promotion Workshops and e			continuous
		CHANGES	SINCE LAST EDITION
n/a			

MST.0025 Improvement in the dissemination of safety messages

Member States should improve the dissemination of safety promotion and training material by their competent authorities, associations, flying clubs, insurance companies targeting flight instructors and/or pilots through means such as safety workshops and safety days/evenings.

This should consider EASA safety promotion deliverables and content.

Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	n/a			•		
Dependencies	SPT.0125					
Affected stakeho	olders	GA				
Owner		Member States				
		EXP	ECTED OUTPUT			
Deliverable(s)	•			Timeli	ne	
Safety workshops	and safety d	ays/evenings		2021/2	022	
		CHANGES	SINCE LAST EDI	TION		
Review of the tas	k description,	dependencies added		•		

MST.0027 Promotion of safety culture in GA

Member State NCAs should include provisions to facilitate and promote safety culture (including just culture) in GA as part of their State safety management activities in order to foster positive safety behaviours and encourage occurrence reporting.

EASA will support this MST by providing promotion material and guidance to support Member States in that task.

Status	Ongoing			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeh	olders	GA		
Owner		Member States		
		EXPECTED OUTPUT		
Deliverable(s)			Timeline	
Provisions to faci	litate and pro	mote safety culture as part of SSP/SPAS	Continuous	
		CHANGES SINCE LAST EDITIO	V	
n/a				

8.1.2 Staying in control

Issue/rationale

This section addresses subjects such as flying skills, pilot awareness and the management of upset or stall at take-off, in flight, or during approach and landing, flight preparation, aborting take-off and going around. Staying in control prevents loss of control accidents. Loss of control usually occurs because the aeroplane enters a flight regime outside its normal envelope, thereby introducing an element of surprise for the flight crew involved. Loss of control accidents are both frequent and severe.

With 618 higher-risk occurrences recorded in NCO in the period 2015 to 2019, aircraft upset, including loss of control, is the most significant key risk area for EASA Member States' non-commercial operations with aeroplanes with MTOMs below 5 700 kg with an EASA State of registry.

What we want to achieve

Increase safety by reducing the risk of loss of control accidents.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolio for non-commercially operated small aeroplanes as well as for sailplanes and balloons (refer to ASR 2021 Tables 13, 30 and 27 respectively).

This concerns in particular the following safety issues:

- SI-4004 Training, experience, and competence of individuals
- SI-4001 Handling of technical failures
- SI-4003 Inflight decision making and planning
- SI-4017 Knowledge of aircraft systems and procedures
- SI-1306 Risk perception/complacency
- SI-4007 Pre-flight planning and preparation
- SI-4012 Aeroplane system reliability
- SI-4028 Other aircraft systems reliability

How we want to achieve it: actions

Following completion of the actions included under this section in EPAS 2018-2022, no further actions are included in this EPAS edition. The section is maintained as a placeholder for future actions.

8.1.3 Coping with weather

Issue/rationale

This section addresses subjects such as entering IMC, icing conditions, carburettor icing, and poor weather conditions. Weather is an important contributing factor to GA accidents, often related to pilots underestimating the risks of changing weather conditions prior to take-off and during the flight, as weather deteriorates. Dealing with poor weather may increase pilot workload and affect situational awareness and aircraft handling. Decision-making can also be impaired, as a plan continuation bias may lead pilots to press on to the planned destination despite threatening weather conditions. In the future, the EASA work on weather information to pilots, currently focusing on CAT, will be extended to also include recommendations and possible actions for GA⁴².

What we want to achieve

Increase safety by reducing the number of weather-related accidents.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolio for non-commercially operated small aeroplanes as well as for sailplanes and balloons (refer to ASR 2021 Tables 13, 30 and 27 respectively).

How we want to achieve it: actions

SPT.0087

Produce safety promotion material (video) addressing subjects such as weather awareness, flight preparation, management and debrief, the use of flight information services (FIS), the benefits of using modern technology including cockpit weather information systems (including GPS integrated, mobile/4G connected apps, etc.), communication with ATC, inadvertent entry into IMC, TEM, and HF.

Status	Ongoing		
	SI-4015 C	Crosswind	
	SI-4022 Id	cing in flight	
CI-/CD-	SI-4003 II	nflight decision making a	nd planning
SIs/SRs	SI-4008 II	ntentional low flying	
	SI-1306 R	isk perception/complace	ncy
	SI-4016 T	urbulence	
Reference(s)	GASP SEI	(industry) - Mitigate cont	ributing factors to LOC-I accidents and incidents
Dependencies	MST.0036	5	
Affected stakeho	olders	GA	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXP	ECTED OUTPUT
Deliverable(s)		•	Timeline
Safety promotion	material		2022
		CHANGES	SINCE LAST EDITION
n/a			

SPT.0088 Promote instrument flying for GA pilots

Launch a safety promotion campaign to promote the results of RMT.0677 on the easier access of GA pilots to IFR flying in order to ensure that the safety and efficiency benefits materialise across Europe and that the Basic Instrument Rating is widely adopted in Europe.

Related 'Sunny swift' promotion material:

https://www.easa.europa.eu/newsroom-and-events/news/sunny-swift-easier-and-safer-flying-ifr https://www.easa.europa.eu/newsroom-and-events/news/sunny-swift-weather-radar-information https://www.easa.europa.eu/newsroom-and-events/news/sunny-swift-taf-what-it-means-practice

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	RMT.0677		
Affected stakeho	olders	GA	
Owner		EASA SM.1	Safety Intelligence & Performance Department
	<u> </u>	EXP	ECTED OUTPUT
Deliverable(s)			Timeline
Safety promotion	material		2022
		CHANGES	SINCE LAST EDITION
SPT reinstated wit	th revised task	k description — inform	ation on deliverables included

In addition to the above actions, the following SPT is directly relevant to Coping with Weather in GA:

SPT.0114 Promote the availability of enhanced meteorological information and up-link connectivity

The full description for this action is included in **Section 15.1.4**.



8.1.4 Preventing mid-air collisions

Issue/rationale

This section addresses subjects such as airspace complexity, airspace infringement and use of technology. Statistics show that MAC risks affect both novice and experienced pilots and can occur in all phases of flight and at all altitudes. However, the vast majority of them occur in daylight and in excellent meteorological conditions. A collision is more likely where aircraft are concentrated, especially close to aerodromes. Airspace infringements by GA aircraft into controlled airspace is an important related safety risk.

What we want to achieve

Increase safety by reducing the risk of MACs and airspace infringements in GA.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolio for non-commercially operated small aeroplanes as well as for sailplanes and balloons. (refer to ASR 2021 Tables 13, 30 and 27 respectively).

How we want to achieve it: actions

SPT.0119 Promoting iConspicuity

Facilitate installation of iConspicuity devices in all aircraft holding an EASA TC and promote their use by airspace users at an affordable cost for them.

Support initiatives enhancing interoperability of iConspicuity devices/systems.

Status	Ongoing		
	SI-4009	Deconfliction between IFR	and VFR traffic
	SI-8028 I	nadequate airborne separ	ation under VFR operation
SIs/SRs	SI-4010 /	Airborne separation	
		•	001; SR AUST-2016-002; SR AUST-2016-003; SR AUST-2016-004; SR SR FRAN-2016-100; SR NETH-2018-003; SR SWTZ-2016-002.
Reference(s)	BIS 'Airborne collision risk'		
Dependencies	RMT.0690, RMT.0230, RMT.0519, RES.0021, RES.0031, RES.0032		
Affected stakeho	olders	Pilots, aircraft operato	ors, NCAs, ANSPs, industry (e.g. avionics manufacturers)
Owner	EASA SM.1 Safety Intelligence & Performance Department		Safety Intelligence & Performance Department
		ЕХРЕ	ECTED OUTPUT
Deliverable(s)			Timeline
Promotional mate	erial		2020-2023
		CHANGES	SINCE LAST EDITION
List of SIs updated	d; reference	to related RES projects ad	lded in 'Dependencies'



Promote good practices in airspace design that reduce 'airspace complexity' and 'traffic congestion' with the aim of reducing the risk of airborne collisions involving uncontrolled traffic.

Status	Ongoing		
	SI-2025 Air	space infringement	
SIs/SRs	SI-4009 De	confliction between IFF	R and VFR traffic
	SI-4010 Air	borne separation	
Poforon so(s)	European <i>F</i>	Action Plan for Airspace	e Infringement Risk Reduction (EAPAIRR)
Reference(s)	BIS 'Airborı	ne collision risk'	
Dependencies	MST.0038		
Affected stakeho	olders	Pilots, aircraft operat	tors, NCAs, ANSPs, industry (e.g. avionics manufacturers)
Owner		EASA SM.1	Safety Intelligence & Performance Department
	<u>'</u>	EXP	ECTED OUTPUT
Deliverable(s)	•		Timeline
Promotional mate	erial		2020-2023
		CHANGES	SINCE LAST EDITION
SI list updated			

MST.0038 Airspace complexity and traffic congestion

Member States should consider 'airspace complexity' and 'traffic congestion' as safety-relevant factors in airspace changes affecting uncontrolled traffic, including the changes along international borders.

Status	Ongoing			
	SI-2025	Airspace infringement		
SIs/SRs	SI-4009	Deconfliction between IFR and VFR traffic		
	SI-4010 Airborne separation			
Poforonco(s)	Europea	nn Action Plan for Airspace Infringement Risk Reduction (EAPAII	RR)	
Reference(s)	BIS 'Airborne collision risk'			
Dependencies	SPT.0120 Promoting good practices in airspace design			
Affected stakeho	lders	Pilots, Aircraft operators - All, NCAs, ANSPs		
Owner		Member States		
		EXPECTED OUTPUT		
Deliverable(s)		Timelin	е	
Best practices	•	2023		



RES.0021 Research projects aiming to prevent mid-air collision risks

The following research activities are being addressed under the SESAR 2020 programme:

- enhanced rotorcraft and general aviation operations around airports (TMA) (PJ.01-06);
- the final report⁴³ for PJ.01-06 was issued on 17.03.2020;
- consolidation amongst the different concepts for maintaining traffic situational awareness in U-space and uncontrolled airspace;
- interoperability of the different technological solutions (incl. ground segment) in use.

Status	On hold
SIs/SRs	SI-8028 Inadequate airborne separation under VFR operation
Reference(s)	SESAR solution PJ.01-06 https://www.sesarju.eu/index.php/projects/ead
Dependencies	RES.0031

Affected stakeholders GA

Owner SESAR

	PLANNING MILESTONES	
Starting date	Interim Report	Final Report
2016	n/a	n/a*

CHANGES SINCE LAST EDITION

Task description, SI list and dependencies updated, status changed to 'on hold' (awaiting completion of RES.0031). SESAR activities on ACAS XP are cancelled. No final report will be available.

RES.0031 Interoperability of different iConspicuity devices/systems

EASA, with the support of technical partners, should demonstrate and validate the feasibility of achieving interoperability of different iConspicuity devices/systems through network of stations while respecting data privacy requirements.

Status	Ongoing			
SIs/SRs	SI-8028 Inadequate airborne separation under VFR operation			
	European Action Plan for Airspace Infringement Risk Reduction (EAPAIRR)			
Reference(s)	EASA BIS 'Airborne collision risk'			
Dependencies	RMT.0690, RMT.0230, RMT.0519, SPT.0119			
Affected stakeho	olders Pilots, Aircra	ft operators - All, NCAs, ANSPs,	, industry (e.g. avionics manufacturers)	
Owner	EASA CT.2	General Aviation & VTOL Department		
		PLANNING MILESTONI	ES	
Starting date	•	Interim Report	Final Report	
2021 Q1		2021 Q4	2023 Q3	
		CHANGES SINCE LAST EDI	TION	

8.1.5 Managing the flight

Issue/rationale

This section addresses subjects such as navigation, fuel management, terrain and obstacle awareness, and forced landings. Most accidents are the result of the pilot's actions, including decisions made while preparing the flight, or due to changing circumstances during the flight. Pilot decisions, including their ability to prioritise workload, affect the safety of the aircraft and the survival of its occupants.

What we want to achieve

Reduce the number of fatalities and serious injuries in GA.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolio for non-commercially operated small aeroplanes as well as for sailplanes and balloons (refer to ASR 2021 Tables 13, 30 and 27 respectively).

This concerns in particular the following safety issues:

- SI-4005 Approach path management on GA aeroplanes
- SI-4004 Training, experience and competence of individuals
- SI-4011 Fuel management
- SI-4001 Handling of technical failures
- SI-4003 Inflight decision making and planning
- SI-4021 Operational Communications

How we want to achieve it: actions

Following completion of the actions included under this section in EPAS 2018-2022, no further actions are included in this EPAS edition. The section is maintained as a placeholder for future actions.

8.2 Efficiency/proportionality

Issue/rationale

This section provides references to additional EPAS actions that are directly relevant to GA, where efficiency/ proportionality is the main driver. Detailed information for each of those actions is included in the domain-specific EPAS chapter.

This section also includes regular-update RMTs in the GA domain.

What we want to achieve

Reduce the regulatory burden and cost for GA while improving the level of safety.

How we monitor improvement

The key risk areas and underlying safety issues will continue to be monitored as part of the Safety Risk Portfolios for non-commercially operated small aeroplanes, sailplanes and balloons respectively.

The ABs regularly provide feedback on the effectiveness of the activities that aim at improving efficiency/proportionality and ensuring a level playing field.

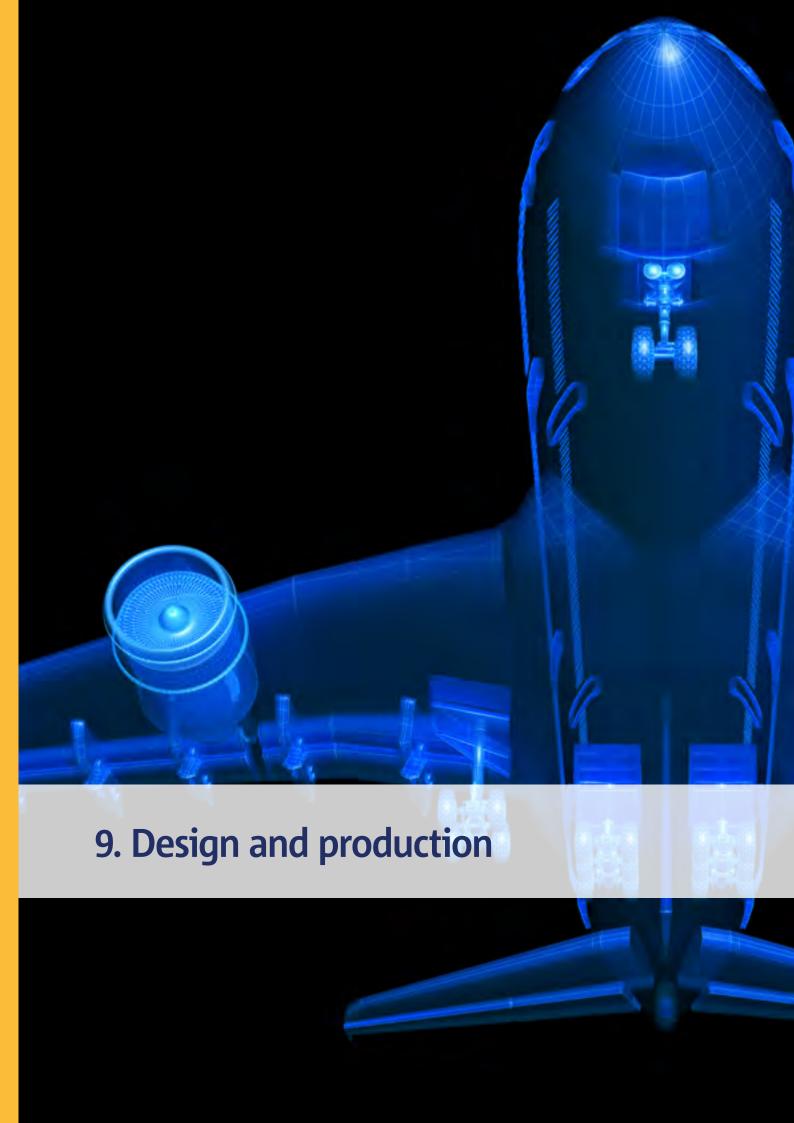
How we want to achieve it: actions

RMT.0678	Simpler, lighter and better flight crew licensing requirements for general aviation

The full description for this action is included in **Section 5.3**.

RMT.0502	Regular update of CS for balloons
RMT.0605	Regular update of CS-LSA
RMT.0690	Regular update of CS-STAN
RMT.0727	Alignment of Part 21 with Regulation (EU) 2018/1139 (including simple and proportionate rules for General Aviation)

The full description for these actions is included in **Chapter 9**.



9. Design and production

This chapter includes all the actions that are relevant to design and production, for the drivers safety, efficiency/proportionality and level playing field.

9.1 Safety

Issue/rationale

Design and production improvements may limit the probability and/or severity of technical failures. Many fatal accidents involve some sort of technical failure, in many cases not properly managed during flight, thus making it a precursor of other types of accident. This does not necessarily mean that the technical failure was the direct cause of the accident, but that a system component failure was identified in the sequence of events in a number of serious incidents and accidents over the past years. For example, the handling of technical failures ranks first in the list of safety issues identified in the CAT and NCC operations with aeroplanes data portfolio in 2020 (based on the aggregated ERCS score of those occurrences where this safety issue was present — see ASR 2021 Figure 24 and Table 7). Handling of technical failures in this context means the ineffective handling of a non-catastrophic technical failure by the flight crew. This could be an engine failure, an avionics system failure or some other recoverable technical failure. The cause of the accident is usually the result of a combination of circumstances and events that can only be understood after reading the investigation report. Specific analysis work is ongoing to identify the systemic safety issues that may be present in the domains of design and production. Non-accident data will be used for the analysis.

In terms of efficiency/proportionality, and with aircraft design evolving at a rapid pace, requirements for initial airworthiness and CSs need to be constantly reviewed and adjusted for cost-effectiveness and to keep pace with technological advancements.

In terms of level playing field, rules may need to be harmonised within the EU as well as with the main international trade partners in order to either ensure fair competition or facilitate the free movement of goods, persons and services.

What we want to achieve

Increase safety by continuously assessing and improving risk controls related to design and production. Ensure an efficient regulatory framework for manufacturers. Harmonise requirements where this ensures fair competition or facilitates the free movement of goods, persons and services.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and Safety Risk Portfolios for the different types of air operations (see ASR 2021 and EPAS Volume III). The EASA ABs regularly provide feedback on the effectiveness of actions in the area of efficiency/proportionality and level playing field.

RMT.0118 Analysis of on-ground wings contamination effect on take-off performance degradation

The objective of this task is to assess the need for an amendment of CS-25 to require applicants to perform an assessment of the effect of on-ground contamination of aircraft aerodynamic surfaces on take-off performance and on aircraft manoeuvrability and controllability.

Status	Ongoing				
SIs/SRs	SI-0002 Icing o SR FRAN-2009-	3	96; SR RUSF-2013-0	001; SR SWED-2011-016; SF	R UNKG-2003-060
Reference(s)	CS-25				
Dependencies	n/a				
Affected stakeh	olders	DOA holders			
Owner		EASA CT.5	Policy, Innovat	tion & Knowledge Departr	ment
Priority	Yes	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0118 21/03/2017	2022 Q1	n/a	n/a	2023
		CHANGES S	SINCE LAST EDIT	ION	
n/a					

RMT.0453 Aeroplane ditching survivability

The objective is to amend the certification specifications for large aeroplanes in order to improve the survivability after a ditching.

Amendments should be proposed in the structure and cabin safety areas. EASA will take into account the related recommendations issued by the TACDWG (Transport Aircraft Crashworthiness and Ditching Working Group) to the FAA in 2018

Those recommendations from the TACDWG that EASA is already using in certification projects will be incorporated in the next regular update of CS-25 (RMT.0673).

Status	Not started				
SIs/SRs	SR UNST-2010-09	91			
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DAHs			
Owner		EASA CT.5	Policy, Innova	Policy, Innovation & Knowledge Department	
Priority	No	RM Procedure	ST/RMG	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
tbd	tbd	n/a	n/a	n/a	tbd
		CHANGES S	SINCE LAST EDIT	ION	
n/a					

RMT.0586 Tyre pressure monitoring system

The specific objective of this RMT is to decrease the risk of a hazardous or catastrophic tyre failure of a large aeroplane that is caused by inadequate tyre inflation pressure. This can be achieved by requiring a means to minimise the risk that the inflation pressure of the tyres of large aeroplanes are below the minimum serviceable inflation pressure during operation.

For new designs, CS-25 has been amended to require applicants to provide a task in the instructions for continued airworthiness (ICA) that requires operators to perform tyre pressure checks at a suitable time interval, and/or by installing a system that monitors the tyre inflation pressures. Part-26 and CS-26 are also envisaged to be amended to require the same objective to be implemented by operators of large aeroplanes, i.e. either by including in the aeroplane maintenance programme (AMP) tyre inflation pressure checks at a suitable time interval, or by installing a system that monitors the tyre inflation pressures.

The Agency issued Decision 2020/024/R amending CS-25 (Subtask 2) and plans to issue an opinion proposing to the EC an amendment of Part-26 (Subtask 1). Once Part-26 is amended, the Agency will issue a second decision with the related CS-26 specifications to Part-26 (Subtask 1). Both subtasks are planned to be conducted in parallel (i.e. common NPA and the opinion on Part-26 in parallel with the Decision amending CS-25).

Status	Ongoing					
SIs/SRs	SR AUST-2013-0	008; SR UNKG-2002-14			•	
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	Aeroplane operato	ors			
Owner	EASA CT.5 Policy, Innovation & Knowledge Department					
Priority	No	RM Procedure	ST/RMG	Harmonisation	No	
		PLANN	ING MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
1	30/05/2017	2020-05 06/03/2020	2021 Q4	2022 Q4	2022 Q4	
2		n/a	n/a	n/a	2020/024/R 22/12/2020	
		CHANGES	SINCE LAST EDIT	ION		
Task description	undated					

RMT.0709 Prevention of catastrophic accidents due to rotorcraft hoist issues

The current certification specifications relating to the certification of rotorcraft hoists do not provide sufficient clarity on what is required to achieve certification and are not appropriately applied. In addition, some failure modes are not consistently taken into consideration, and this is reflected in in-service experience. A significant number of safety occurrences have been reported that are attributed to rotorcraft hoist issues.

Improved industry standards will address some existing design shortfalls that have been identified. It shall, therefore, be considered how to integrate these standards into the equipment standard (CS-ETSO). These improvements in the standards relating to the certification of rotorcraft are expected to significantly reduce the risk of catastrophic accidents in human external cargo operations.

This RMT will be to promote harmonisation with the FAA as far as practicable.

Status	Ongoing							
SIs/SRs	SI-8037 Hoist o	perations related issue	es					
Reference(s)	n/a							
Dependencies	n/a							
Affected stakeh	olders	DOA holders, POA	holders					
Owner		EASA CT.5	Policy, Innovat	Policy, Innovation & Knowledge Department				
Priority	No	RM Procedure	ST	Harmonisation	Yes			
		PLANNI	ING MILESTONES	5				
SubT	ToR	NPA	Opinion	Commission IR	Decision			
	30/10/2020	2021-10 13/08/2021	n/a	n/a	2022 Q4			
		CHANGES !	SINCE LAST EDIT	ION				
SI list updated		-	-					

RMT.0710 Improvement in the survivability of rotorcraft occupants in the event of a crash

The likelihood of survival of rotorcraft occupants in the event of a crash would significantly be improved through the retroactive application of the current improvements in fuel tank crash resistance and occupant safety for rotorcraft that were certified before the new certification specifications for type designs that entered into force in the 1980s and 1990s. SRs have been put forward by accident investigation boards on fuel tanks and occupant safety for helicopters certified before the upgrade of the rules for emergency landing conditions and fuel system crash resistance, for new type designs in the 1980s and 1990s. In November 2015, a new task was assigned by the FAA for the ARAC to provide recommendations regarding occupant protection rulemaking in normal and transport category rotorcraft for older certification basis type designs. EASA participates to the Working Group and should consider the application of the outcome of this activity for application to the existing European fleet.

EASA will address these issues in two subtasks.

- Subtask 1 will address crash-resistant fuel systems.
- Subtask 2 will address crash-resistant seats and structures. The decision to start this subtask is subject to an impact assessment.

Status	Not started							
SIs/SRs	SR PORT-2020-001; SR SWTZ-2017-530. SI-8039 Hazardous conditions following ditching							
Reference(s)	n/a	n/a						
Dependencies	n/a							
Affected stakeh	olders	DOA holders, POA	holders- Helicopt	ers				
Owner		EASA CT.5	Policy, Innovat	Policy, Innovation & Knowledge Department				
Priority	Yes	RM Procedure	ST	Harmonisation	No			
		PLANNI	NG MILESTONES	5				
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1	2021 Q4	2022 Q4	2023	2024	2024			
2	tbd	tbd	tbd	tbd	tbd			
		CHANGES S	SINCE LAST EDIT	ION				
SI list updated								



RMT.0711

Reduction in accidents caused by failures of critical rotor and rotor drive components through improved vibration health monitoring systems

The use of vibration health monitoring (VHM) systems to detect imminent failures of critical rotor and rotor drive components has been shown to greatly improve the level of safety of rotorcraft, particularly for offshore operations. However, there is a need to improve the current certification specifications to reflect the evolution of modern VHM systems in order to gain the associated benefits from these systems.

Improved certification specifications would drive and enable improvements in the fidelity of VHM systems and also foster the modernisation of these systems which would provide additional safety benefits when compared with the existing legacy systems.

Status	Ongoing							
SIs/SRs	SR UNKG-2018-007 SI-8001 Helicopter rotor and transmission system failures							
Reference(s)	n/a							
Dependencies	n/a							
Affected stakeh	olders	DOA holders, POA	holders					
Owner		EASA CT.5	Policy, Innovat	tion & Knowledge Departr	ment			
Priority	No	RM Procedure	ST	Harmonisation	No			
		PLANNI	NG MILESTONES	5				
SubT	ToR	NPA	Opinion	Commission IR	Decision			
	RMT.0711 05/03/2020	2022 Q2	n/a	n/a	2023			
		CHANGES S	SINCE LAST EDIT	ION				
SI list updated								
-								

RMT.0725 Rotorcraft chip detection system

Subtask 1:

CS-27 and CS-29 require the installation of chip detectors to detect particles of ferromagnetic material that are released by elements of the rotor drive system as a result of damage or wear. Chip detectors provide a warning to the crew when particles of a sufficient size (or accumulation of particles) are detected and allow the crew to check the correct operation of the relevant drive system components. However, there is no explicit provision in the CS, nor detailed AMC, for consistently demonstrating that the chip detectors perform their intended function (i.e. particles are collected at a sufficient rate to provide the intended means of detection).

Subtask 2:

The task will also consider proportionate retrospective application of the currently applicable CS-27 and CS-29 to existing fleets and types that are not compliant with the latest provisions. The decision to start this subtask is subject to an impact assessment.

Dependencies n/a	
Dependencies n/a	
Affected stakeholders DOA holders, POA holders	
Owner EASA CT.5 Policy, Innovation & Knowledge	e Department
Priority No RM Procedure ST Harmonis	ation No
PLANNING MILESTONES	
SubT ToR NPA Opinion Commissi	on IR Decision
1 RMT.0725 2021-01 n/a n/a n/a	2021 Q4
2 n/a tbd tbd tbd	tbd
CHANGES SINCE LAST EDITION	
SI list updated	

RMT.0726 Rotorcraft occupant safety in the event of a bird strike

Since the 1980s there have been an increasing number of accidents involving rotorcraft bird strikes where the rotorcraft was not certified in accordance with the latest bird-strike protection provisions. This has resulted in a number of occurrences where rotorcraft bird impacts have had an adverse effect on safety. The objective of this RMT is to improve rotorcraft occupant safety in the event of a bird strike. This will be achieved by considering the development of new CS-27 provisions for bird strike based on the recommendations of the ARAC Bird Strike WG (rev. B) and also considering proportionate retrospective application of the currently applicable CS-27 and CS-29 to existing fleets and types that are not compliant with the latest provisions.

The RMT is split into two subtasks:

- Subtask 1 will address the provisions in CS-27, and
- Subtask 2 will consider the retrospective application of the currently applicable CS-27 and CS-29 specifications. The decision to start this subtask is subject to an impact assessment.

Status	Ongoing								
SIs/SRs	SI-8030 Bird and other wildlife hazard								
Reference(s)	BIS Rotorcraft								
Dependencies	n/a								
Affected stakel	olders	DOA holders, POA	holders						
Owner		EASA CT.5	SA CT.5 Policy, Innovation & Knowledge Department						
Priority	No	RM Procedure	ST	Harmonisation	No				
		PLANN	ING MILESTONES	5					
SubT	ToR	NPA	Opinion	Commission IR	Decision				
1	RMT.0726 08/09/2020	2021-02 25/02/2021	n/a	n/a	2021 Q4				
2	n/a	tbd	tbd	tbd	tbd				
		CHANGES	SINCE LAST EDIT	ION					
n/a		CHANGES	SINCE LAST EDIT	ION					

RES.0010 Ice crystal detection

Ice crystal icing phenomenon is still posing a severe threat to high-altitude flying, in particular to new engine designs. Pilots have little or no means to detect and/or avoid it, especially at night. A research project is ongoing in order to better detect the presence of ice crystal icing and to develop equipment suitable to detect such a phenomenon.

Status	Ongoing				
SIs/SRs	SI-0001 Icing in flight				
Reference(s)	EU-funded project SE	NS4ICE https://www.sens4ice	-project.eu/		
Dependencies	RES.0017				
Affected stakeho	olders Aircraft opera	ators - CAT, DOA holders			
Owner	EASA SM.2	Strategy & Programmes De	epartment		
		PLANNING MILESTON	ES		
Starting date		Interim Report	Final Report		
2019 Q1	•	n/a	2022 Q4		
		CHANGES SINCE LAST EDI	TION		
Affected stakehol	ders updated				

RES.0014 Air data enhanced fault detection and diagnosis

Develop new methods for the verification and monitoring of complex flight control systems (e.g. flight control laws, air data sensors) and investigate new techniques for fault detection and diagnosis and fault control (e.g. model-based, model-free methods and their combination).

These will serve to improve EASA certification standards, and to prepare the evaluation of new designs proposed by the aircraft manufacturers.

Status	Planned			
CI-/CD-	SI-0001 Icing in flight			
SIs/SRs	SI-0002 Icing in grou	nd		
Reference(s)	n/a			
Dependencies	n/a	•		
Affected stakeho	olders DOA holders	, POA holders		
Owner	EASA SM.2	Strategy & Programmes De	partment	
		PLANNING MILESTONE	:S	
Starting date	•	Interim Report	Final Report	
2021 Q3	•	tbd	2023 Q3	
		CHANGES SINCE LAST EDI	TION	
Affected stakehol	ders updated	•		

RES.0017 Icing hazard linked to super cooled large droplet (SLD)

Characterisation of phenomena (SLD icing) and analysis of impact/mitigation for safety in order to develop relevant airworthiness standards and means of compliance.

The H2020-funded project ICE GENESIS shall provide the European aeronautical industry with a validated new generation of 3D icing engineering tools (numerical simulation tools and upgraded test capabilities), addressing App C, O and snow conditions for the design and certification of future regional, business and large aircraft, rotorcraft and engines. ICE GENESIS shall permit weather hazards to be more precisely evaluated and properly mitigated thanks to adapted design or optimised protection through either active or passive means. Furthermore, ICE GENESIS shall pave the way for 3D digital tools to be used in the future as acceptable means of compliance by the regulation authorities.

EASA is contributing to this research project in an advisory role.

Status	Ongo	Ongoing				
SIs/SRs	SI-00	SI-0001 Icing in Flight				
Reference(s)	EU-fu	EU-funded project ICE GENESIS, https://www.easa.europa.eu/research-projects/ice-genesis				
Dependencies	n/a					
Affected stakeho	olders	AOC holders (CAT), DOA holders			
Owner		EASA SM.2	Strategy & Programmes D	Department Department		
			PLANNING MILESTON	IES		
Starting date	***************************************	•	Interim Report	Final Report		
2019 Q1	•	•	n/a	2022 Q4		
			CHANGES SINCE LAST ED	ITION		
n/a	***************************************					

RES.0027 Sandwich structured composites

This research project shall help to develop further insight and guidance for the consistent and standardised design and safe use of sandwich structures in aviation. The results of the research shall be used to further complement the Composite Materials Handbook-17 and to refine regulatory material for initial and continuing airworthiness.

Status	Not st	arted			
SIs/SRs	n/a				
Reference(s)	Comp	osite Material H	andbook 17 (CMH-17)		
Dependencies	n/a				
Affected stakeho	olders	DOA holders,	MOs (Part-145)		
Owner		EASA SM.2	Strategy & Programmes De	partment	
			PLANNING MILESTONI	:S	
Starting date			Interim Report	Final Report	
2022 Q1			2022 Q4	2024 Q1	
			CHANGES SINCE LAST EDI	TION	
Task description a	djusted	***************************************			

RES.0037 Machine learning

The research results will be a set of methods and tools with which EASA shall be enabled to streamline certification and approval processes by identifying concrete means of compliance with the learning assurance objectives of EASA guidance for machine learning applications (level 1, 2 and 3 as defined in the EASA AI Roadmap), with a specific focus on Level 1B and Level 2.

The achieved medium-term effect shall be to alleviate some remaining limitations on the acceptance of machine learning applications in safety-critical applications.

Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a			•	
Affected stakeho	olders	DAHs			
Owner		EASA SM.2	Strategy & Programmes D	epartment	
			PLANNING MILESTON	ES	
Starting date	••••••		Interim Report	Final Report	
2021 Q2	•		n/a	2023 Q2	
			CHANGES SINCE LAST ED	TION	
n/a					

RES.0043 Flight control systems verification and air data fault detection

Develop new methods for the verification of complex flight control systems and for real-time error detection (via independent monitoring).

Assess new fault detection & diagnosis (FDD) and fault tolerant control (FTC) methods.

Status	New					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	DOA holders,	POA holders			
Owner		EASA SM.2	Strategy & Progran	nmes Department		
			PLANNING MIL	ESTONES		
Starting date			Interim Report		Final Report	
2021 Q3	•		n/a		2024 Q2	
			CHANGES SINCE LA	AST EDITION		
n/a						

RES.0050 Aircraft certification using modelling and numerical simulations

Assess the use of effective modelling and simulation methods and tools for certification compliance demonstration.

The action is realised through a series of projects funded by industry or by the EU Horizon 2020 programme. Further information is available at:

RoCs project for helicopters and tiltrotors: https://www.rocs-project.org/

Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DOA holders,	Aircraft operators - All, ATOs	(Aircrew), NCAs	
Owner		EASA SM.2	Strategy & Programmes De	epartment	
			PLANNING MILESTON	ES	
Starting date			Interim Report	Final Report	
2020			n/a	2023 Q2	
			CHANGES SINCE LAST EDI	TION	
Affected stakehol	ders upo	dated	***************************************	***************************************	

9.2 Level playing field

The section is maintained as a placeholder for future actions.



9.3 Efficiency/proportionality

RMT.0031 Regular update of AMC & GM to Part 21

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the AMC & GM to Part 21 are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate certification memoranda and other material supporting the application and interpretation of Part 21 as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

ETOPS: a single NPA will be published proposing to repatriate the airworthiness elements, currently included in AMC 20-6, in the AMC & GM to Part 21, CS-25, and CS-E.

Status	Ongoing	'			
SIs/SRs	SR NORW-2018	-007			
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	nolders	DAHs, POA holder	s, NCAs, the Agen	ncy (on a case-by-case basi	s)
Owner		EASA CT.5 Policy, Innovation & Knowledge Department			
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
DOA issues	RMT.0031 15/12/2016	2020-04 05/03/2020	n/a	n/a	2021/001/R 01/03/2021
DO 4 :		2022			2023
POA issues					
ETOPS		2022	n/a	n/a	2023

Affected stakeholders updated, SubT 'DOA issues' completed in 2021



RMT.0037 Regular update of CS-22

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective and can be implemented in practice. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and noncontroversial issues raised by stakeholders.

Status	Ongoing				
SIs/SRs	SR UNKG-2013-	008			
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders			anufacturers and other des es to sailplanes or powered	
Owner		EASA CT.5	Policy, Innovation & Knowledge Department		
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
Current	RMT.0037 14/01/2016	2020-13 14/12/2020	n/a	n/a	2021/013/R 15/09/2021
Next	n/a	tbd	n/a	n/a	tbd
		CHANGES S	SINCE LAST EDIT	ION	
The current cycle	was completed	in 2021.			

RMT.0128 Regular update of CS-27&29, and CS-VLR

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Ongoing				
n/a				
n/a				
n/a				
olders			other design organisation	is dealing with STCs
	EASA CT.5 Policy, Innovation & Knowledge Department			
No	RM Procedure	ST	Harmonisation	No
	PLANNI	NG MILESTONES	;	
ToR	NPA	Opinion	Commission IR	Decision
RMT.0128 29/09/2016	2021 Q4	n/a	n/a	2023
n/a	tbd	n/a	n/a	tbd
	CHANGES S	SINCE LAST EDIT	ION	
	n/a n/a n/a plders No ToR RMT.0128 29/09/2016	n/a n/a DAHs; rotorcraft m repairs or changes EASA CT.5 No RM Procedure PLANNI TOR NPA RMT.0128 29/09/2016 n/a tbd	n/a n/a DAHs; rotorcraft manufacturers and repairs or changes to rotorcraft. EASA CT.5 Policy, Innovation of the planning milestones Tor Planning milestones Tor NPA Opinion RMT.0128 29/09/2016 2021 Q4 n/a n/a tbd n/a	n/a n/a DAHs; rotorcraft manufacturers and other design organisation repairs or changes to rotorcraft. EASA CT.5 Policy, Innovation & Knowledge Departr No RM Procedure ST Harmonisation PLANNING MILESTONES TOR NPA Opinion Commission IR RMT.0128 29/09/2016 2021 Q4 n/a n/a



RMT.0180

Turbine engine endurance and initial maintenance inspection testing, and piston engine time between overhauls substantiation

The objective of this RMT is to modernise the engine certification test requirements to:

- upgrade the turbine engine endurance test specifications to take into account modern engine design characteristics;
- improve the level of confidence in the robustness of turbine engine designs prior to entry into service, as well as, in some cases, the definition of initial maintenance inspection (IMI) intervals;
- ensure that EASA exercises oversight of the IMI tests and benefits from the resulting knowledge;
- ensure the robust and harmonised substantiation of the TBO and of the maintenance programmes for piston engines; and
- ensure the greatest possible harmonisation with the related FAA regulations and certification policies.

Status	Ongoing				
SIs/SRs	SR AUST-2009-0	011			
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DAHs			
Owner		EASA CT.5	Policy, Innovat	ion & Knowledge Departr	nent
Priority	No	RM Procedure	ST	Harmonisation	Yes
		PLANNI	NG MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0180 07/05/2021	2022 Q3	n/a	n/a	2023
		CHANGES S	SINCE LAST EDITI	ON	

Task description and title updated



RMT.0184 Regular update of CS-E

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

The next update will address the following items: compressor and turbine blade failure, assumptions — oil consumption, instrument provision, piston engine failure analysis, approval of engine use with a thrust reverser, fuel specifications for compression-ignition piston engine, ice protection, damage tolerance of critical parts and Engine critical parts — static, pressure loaded parts.

ETOPS: a single NPA, under the RMT.0031, will be published proposing to repatriate the airworthiness elements, currently included in AMC 20-6, in the AMC & GM to Part 21, CS-25, and CS-E.

Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	Engine manufacti	urers			
Owner		EASA CT.5	Policy, Innovat	Policy, Innovation & Knowledge Department		
Priority	No	RM Procedure	ST	Harmonisation	No	
		PLANN	IING MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
Current	RMT.0184 27/07/2015	2021-13 20/11/2021	n/a	n/a	2023	
Next		tbd	n/a	n/a	tbd	
		CHANGES	SINCE LAST EDIT	ON		
n/a						

RMT.0457 Regular update of CS-ETSO

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	Design and produ	ction organisatior	ns	
Owner		EASA CT.5 Policy, Innovation & Knowledge Department			
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
Current	RMT.0457 21/08/2015	2021-07 15/04/2021	n/a	n/a	2022 Q3
Next		tbd	n/a	n/a	tbd
		CHANGES	SINCE LAST EDIT	ION	
n/a					

RMT.0499 Regular update of CS-MMEL

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	RMT.0400					
Affected stakeholders				otor-powered aircraft and or STCs to these aircraft	other design	
		Design organisations of other-than-complex motor-powered aircraft				
Owner		EASA CT.5 Policy, Innovation & Knowledge Department				
Priority	No	RM Procedure	ST	Harmonisation	No	
		PLANNI	NG MILESTONES	S		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
current	RMT.0499 09/04/2018	2018-08 22/08/2018	n/a	n/a	2020/012/F 17/08/2020	
next		tbd	n/a	n/a	tbd	
		CHANGES S	SINCE LAST EDIT	ION		
n/a						
	*					

RMT.0502 Regular update of CS for balloons

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective and can be implemented in practice. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

This standing task does not yet have sufficient candidate issues to plan the next cycle.

Status	Not started					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	Balloon DAHs				
Owner		EASA CT.5	Policy, Innovat	tion & Knowledge Departr	n & Knowledge Department	
Priority	No	RM Procedure	ST	Harmonisation	No	
		PLANNI	NG MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	tbd	tbd	n/a	n/a	tbd	
		CHANGES :	SINCE LAST EDIT	ION		
n/a						

RMT.0503 Regular update of CS-APU

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Not started				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DAHs			
Owner		EASA CT.5	Policy, Innovat	ion & Knowledge Departr	ment
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	;	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	tbd	tbd	n/a	n/a	tbd
		CHANGES :	SINCE LAST EDIT	ON	
n/a					

RMT.0508 Regular update of CS-CCD (Certification Specifications for Cabin Crew Data)

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

This standing task does not yet have sufficient candidate issues to plan the next cycle.

CL I	0				
Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	nolders	2 2		otor-powered aircraft and or STCs to these aircraft, o	_
Owner		EASA CT.5	Policy, Innovation & Knowledge Department		
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
current	RMT.0508 10/09/2019	NPA 2019-13 17/12/2019	n/a	n/a	2020/015/R 09/10/2020
next		tbd	n/a	n/a	tbd
		CHANGES S	SINCE LAST EDIT	ION	
n/a					

RMT.0519 Regular update of CS-ACNS

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing	'					
SIs/SRs	n/a						
Reference(s)	ATM Master Pla	TM Master Plan Level 3 – Plan (2019): ITY-SPI – Surveillance performance and interoperability					
Dependencies	n/a						
Affected stakeh	olders	Aircraft operators	, POA holders, DO	A holders, and NCAs			
Owner		EASA CT.5	EASA CT.5 Policy, Innovation & Knowledge Department				
Priority	No	RM Procedure	ST	Harmonisation	No		
		PLANN	ING MILESTONES	5			
SubT	ToR	NPA	Opinion	Commission IR	Decision		
Current	RMT.0519 12/09/2015	2021-04 15/03/2021	n/a	n/a	2022 Q1		
Next		tbd	n/a	n/a	tbd		
		CHANGES	SINCE LAST EDIT	ION			
n/a			······				

RMT.0605 Regular update of CS-LSA

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	LSA DAHs			
Owner		EASA CT.5	Policy, Innovat	tion & Knowledge Departr	ment
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0605 14/01/2016	tbd	n/a	n/a	tbd
Next	n/a	tbd	n/a	n/a	tbd
		CHANGES :	SINCE LAST EDIT	ION	
n/a					
•					

RMT.0643 Regular update of AMC-20

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Subtask 1:

AMC 20-152 on Airborne Electronic Hardware and AMC 20-189 on Management of Open Problem Reports; harmonised with the FAA

Subtask 2:

HIRF and lightning as well as multicore processors

ETOPS: a single NPA, under the RMT.0031, will be published proposing to repatriate the airworthiness elements, currently included in AMC 20-6, in the AMC & GM to Part 21, CS-25, and CS-E.

Status	Ongoing							
SIs/SRs	n/a	n/a						
Reference(s)	ATM Master Pla	ATM Master Plan Level 3 – Plan (2019): NAV10 – RNP Approach procedures to instrument RWY						
Dependencies	RMT.0673 (ST 3); RMT.0184 (ST 3); RMT.0031 (ST 3); RMT.0392 (ST 3)							
Affected stakeh	olders	Design and produ	ction organisatior	ns, MOs and aircraft opera	ators - All			
Owner		EASA CT.5 Policy, Innovation & Knowledge Department						
Priority	No	RM Procedure	ST	Harmonisation	SubT 1: Yes			
		PLANN	ING MILESTONES	3				
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1	RMT.0643 20/07/2015	2018-09 24/08/2018	n/a	n/a	2020/010/R 23/07/2020			
2		2020-09 02/10/2020	n/a	n/a	2022 Q2			
		CHANGES :	SINCE LAST EDIT	ON				
n/a								
	*							

RMT.0673 Regular update of CS-25

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

The currently ongoing Subtask proposes amendments in the following areas:

- Item 1: AMC 25 Subpart H: corrections of references in the correlation table;
- Item 2: Turbo-propeller vibrations;
- Item 3: Fabrication methods;
- Item 4: Windshield Failure conditions with structural effects;

Item 5: Cabin safety – references to FAA AC 25-17A 'Transport Airplane Cabin Interiors Crashworthiness Handbook'

ETOPS: a single NPA, under the RMT.0031, will be published proposing to repatriate the airworthiness elements, currently included in AMC 20-6, in the AMC & GM to Part 21, CS-25, and CS-E.

Status	Ongoing						
SIs/SRs	SR FRAN-2005-	001; SR NETH-2007-00	04; SR SWED-2016	-005			
Reference(s)	n/a						
Dependencies	n/a						
Affected stakeh	eholders DOA holders — large aeroplanes						
Owner		EASA CT.5 Policy, Innovation & Knowledge Department					
Priority	No	RM Procedure	ST	Harmonisation	No		
		PLANN	ING MILESTONES	5			
SubT	ToR	NPA	Opinion	Commission IR	Decision		
Current	RMT.0673 27/04/2015	2020-11 26/11/2020	n/a	n/a	2021/015/R 06/12/2021		
next		2023	n/a	n/a	2024		
		CHANGES	SINCE LAST EDIT	ION			
n/a							
. 7 =							

RMT.0684 Regular update of CS-P

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	Propeller DAHs			
Owner		EASA CT.5	Policy, Innovation & Knowledge Department		
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	tbd	tbd	n/a	n/a	tbd
		CHANGES !	SINCE LAST EDIT	ION	
n/a					

RMT.0687 Regular update of CS-23

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Under this RMT, EASA will regularly review the standards developed by ASTM for the application of CS-23 and incorporate into AMC & GM those which are considered to be suitable to provide means of compliance or guidance to the CS.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DAHs			
Owner		EASA CT.5	Policy, Innova	tion & Knowledge Departr	ment
Priority	No	RM Procedure	See SubT	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
1(DP)	RMT.0687 09/08/2017	2022 Q1 (DP)	n/a	n/a	2022 Q4
2(DP)		tbd	n/a	n/a	tbd
		CHANGES	SINCE LAST EDIT	ION	
n/a					

RMT.0688 Regular update of CS-SIMD (Certification Specifications for Simulator Data)

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice, and are in line with the latest ICAO SARPs. In particular, a regular update is used to incorporate SCs, certification memoranda and other material supporting the application and interpretation of existing CS as established by EASA during previous certification projects, and to address non-complex and non-controversial issues raised by stakeholders.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	nolders	makes use of appr	oved full flight sir d other applicants	tes for which the pilot type nulators (level B, C, D) or f s dealing with changes to arce data	light training devices
Owner		EASA CT.5	Policy, Innova	tion & Knowledge Departr	ment
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
current	RMT.0688 16/10/2019	2021-03 02/03/2021	n/a	n/a	2022 Q1
next		tbd	n/a	n/a	tbd
		CHANGES S	SINCE LAST EDIT	ION	
n/a				_	-

RMT.0690 Regular update of CS-STAN

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CS are fit for purpose, cost-effective, can be implemented in practice.

n/a					
n/a					
n/a					
olders	•	·		'art-M Subpart F),	
	EASA CT.5 Policy, Innovation & Knowledge Department				
No	RM Procedure	ST	Harmonisation	No	
	PLANNI	NG MILESTONES	3		
ToR	NPA	Opinion	Commission IR	Decision	
RMT.0690 09/06/2016	2021-06 07/04/2021	n/a	n/a	2022 Q1	
	tdb	n/a	n/a	tbd	
	CHANGES S	SINCE LAST EDIT	ON		
	n/a olders No ToR RMT.0690	n/a Olders Operators other the and maintenance of EASA CT.5 NO RM Procedure PLANNI Tor NPA RMT.0690 09/06/2016 07/04/2021 tdb	n/a Operators other than airlines, AMOs and maintenance engineers or mech EASA CT.5 Policy, Innovat No RM Procedure ST PLANNING MILESTONES TOR NPA Opinion RMT.0690 2021-06 07/04/2021 n/a tdb n/a	olders Operators other than airlines, AMOs (Part-145, Part-CAO and Fand maintenance engineers or mechanics EASA CT.5 Policy, Innovation & Knowledge Department of the procedure of the procedu	

RMT.0712 Enhancement of the safety assessment processes for rotorcraft designs

The safety assessment of the design of aircraft systems and equipment can help to identify shortfalls in the robustness of the design and also help aircraft designers to mitigate the risk of undesirable events by introducing means to reduce their likelihood. Ensuring robust safety assessment of rotorcraft designs can be considered to be even more critical due to the high number of single-point failures. Technology and techniques have evolved since the inception of formal safety assessment processes and therefore it is vital that CSs keep abreast with the latest thinking on safety assessment to maximise the potential that safety issues are identified during certification.

The safety requirements for equipment, systems and installations contained in the CSs should be improved for small and large rotorcraft to reflect the current best practices for safety assessment.

The FAA is also developing new rules for the safety assessment of rotorcraft and these changes will create significant standard differences between the EU and US regulations and are likely to result in a lower regulatory efficiency. The proposed RMT also aims at reviewing these changes to achieve harmonisation where possible.

Chatus	Ongoing					
Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeh	olders	DAHs and POA ho	lders			
Owner		EASA CT.5	Policy, Innova	Policy, Innovation & Knowledge Department		
Priority	No	RM Procedure	ST	Harmonisation	Yes	
		PLANNI	ING MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	RMT.0712 15/10/2018	2021-11 26/10/2021	n/a	n/a	2022 Q1	
		CHANGES !	SINCE LAST EDIT	ION		
n/a						

RMT.0727

Alignment of Part 21 with Regulation (EU) 2018/1139 (including simple and proportionate rules for General Aviation)

The objective of this RMT is to revisit Part 21 in view of the new and amended requirements introduced with the Basic Regulation. The focus of this task is to introduce simple rules that will allow the application of a proportionate approach for sport and recreational aircraft. It will take into account the various risk levels in GA in the initial airworthiness process, and is aiming at achieving a reduction of administrative burden and costs, while at the same time supporting GA innovation. The task will include the preparatory work done under RMT.0689 'Part 21 proportionality'.

Subtask 1:

In the <u>first phase</u> of this RMT, EASA will develop proposals required by Article 140 (3) of the Basic Regulation in relation to aircraft primarily intended for sport and recreational use.

Subtask 2:

In the <u>second phase</u>, EASA will develop proposals for the implementation of other amendments to Part 21 as required by the Basic Regulation, including rules required to ensure environmental compatibility.

Specific environmental requirements for novel technologies not covered by ICAO Annex 16 will be developed in a two-stage process, whereby the first stage will use environmental SCs, collecting the necessary information to progress towards stage two, leading to a regulatory update.

Subtask 3:

In a <u>third phase</u>, EASA will address all the other amendments required, including on the certification of non-installed equipment.

The regulatory approach for phases 2 and 3 is under development, thus no timelines are shown below.

EASA will use different means of consultation, which are shown under Subtasks 1 to 3 corresponding to these phases.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	DOA holders, POA	holders and NCAs		
Owner		EASA CT.5	Policy, Innovation & Knowledge Department		
Priority	Yes	RM Procedure	See field 'SubT'	Harmonisation	No
		PLANNI	NG MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
1: AP	RMT.0727 28/08/2019	16/09/2021	05/2021 21/10/2021	2022 Q4	2023
2: ST		tbd	tbd	tbd	tbd
3: ST		tbd	tbd	tbd	tbd

CHANGES SINCE LAST EDITION

The regulatory approach for phases 2 and 3 is under development, thus no timelines are shown. Change of task description for Subtask 2.

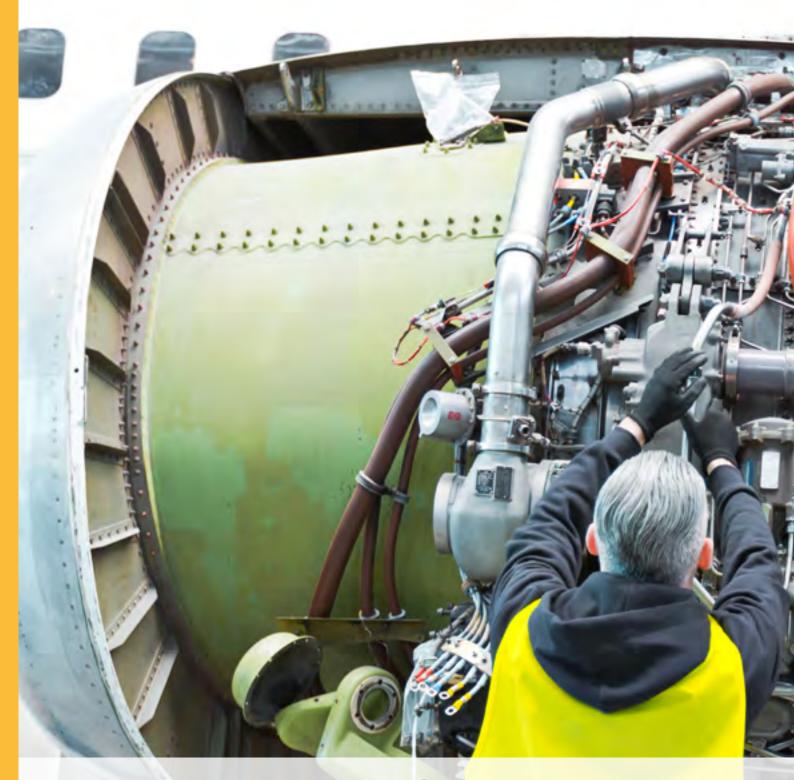


EVT.0007 Evaluation of Regulation (EU) No 748/2012 related to the airworthiness and environmental certification of aircraft and related products, parts and appliances, as well as for the certification of design and production organisations

The purpose of the EVT is to assess whether Regulation (EU) No 748/2012 is fit for the purpose it was designed for after experience through implementation has been gained.

It will entail the evaluation of several aspects of the Regulation, including continued validity of type certificates issued by Member States on the basis of bilateral agreements with third countries (Article 3 (a)(1) of Regulation (EU) No 748/2012).

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeholders EASA Part 21 organisations (DOA holders, POA holders, ETSOA holders, etc.),		sations (DOA holders, POA holders, ETSOA holders, etc.), NCAs	
Owner		EASA CT.5	Policy, Innovation & Knowledge Department
		EXP	ECTED OUTPUT
Deliverable(s)			Timeline
Evaluation report			tbd
		CHANGES	SINCE LAST EDITION
Change of task de	scription.		-



10. Maintenance and continuing airworthiness management



management





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10. Maintenance and continuing airworthiness

This chapter includes all the actions that are relevant to maintenance and continuing airworthiness management, for the drivers safety, efficiency/proportionality and level playing field.

Issue/rationale

As in the case of design and manufacture improvements, maintenance improvements may limit the probability and/or severity of technical failures. Many fatal accidents involve some sort of technical failure, in many cases not properly managed during flight, thus making it a precursor of other types of accident. This does not necessarily mean that the technical failure was the direct cause of the accident, but that a system component failure was identified in the sequence of events in a number of serious incidents and accidents over the past years. Handling of technical failures in this context means the ineffective handling of a non-catastrophic technical failure by the flight crew. This could be an engine failure, an avionics system failure or some other recoverable technical failure. The cause of the accident is usually the result of a combination of circumstances and events that can only be understood after reading the investigation report. Specific analysis work is ongoing to identify the systemic safety issues that may be present in the maintenance domain. Non-accident data will be used for the analysis.

Certain existing requirements are either not efficient or not proportionate to the risks involved.

In terms of level playing field, rules may need to be harmonised within the EU as well as with the main international trade partners in order to either ensure fair competition or facilitate the free movement of goods, persons and services.

What we want to achieve

Increase safety by continuously assessing and improving risk controls related to maintenance. Increase proportionality and efficiency in the continuing airworthiness field. Harmonise requirements where this ensures fair competition or facilitates the free movement of goods, persons and services.

How we monitor improvement

Continuous monitoring of safety issues identified in the data portfolios and the Safety Risk Portfolios for the different types of air operations (see ASR 2021 and Volume III). The EASA ABs regularly provide feedback on the effectiveness of the actions in terms of efficiency/proportionality and level playing field.





10.1 Safety

RMT.0097 Functions of B1 and B2 support staff and responsibilities

Introduce principles for increased robustness of the maintenance certification process eliminating potential 'safety gaps' by clarifying the roles and responsibilities of certifying staff, support staff and 'sign-off' staff, both in line and base maintenance.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	olders	Part-145 MOs			
Owner		EASA FS.1	Maintenance 8	Maintenance & Production Department	
Priority	No	RM Procedure	ST/RMG	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0097 02/11/2011	2014-11 13/05/2014	2023	2024	2024
		CHANGES S	SINCE LAST EDIT	ION	

n/a

RMT.0521 Airworthiness review process

Performance of a full review of the airworthiness review process to introduce an improved framework to mitigate the risks linked to a faulty airworthiness review with potential safety consequences where the actual airworthiness status of the aircraft is below the standard.

Affected regulations are Regulation (EU) No 1321/2014 and Regulation (EU) No 748/2012.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	ffected stakeholders Aircraft operators - All, CAMOs and NCAs				
Owner		EASA FS.1	Maintenance	& Production Department	
Priority	No	RM Procedure	ST/RMG	Harmonisation	No
		PLANNI	NG MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0521/2 07/05/2013	2015-17 05/11/2015	2022 Q1	2023	2023

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Information on affected regulations added





RMT.0588 Aircraft continuing airworthiness monitoring — review of key risk elements

Considering the implementation experience (including Standardisation feedback), the objective is to review the current principles specified in AMC3 M.B.303(b) 'Aircraft continuing airworthiness monitoring', and the related GM1 M.B.303(b) and Appendix III to GM1 M.B.303(b). In particular, to:

- assess whether the requirements adequately address the processing of key risk elements (KREs) requiring annual reviews to ensure that all regulatory references remain up to date;
- assess the appropriateness of each KRE;
- determine the need for additional KREs; and
- review the adequacy and pertinence of typical inspection items included.

Status	Not started						
SIs/SRs	n/a						
Reference(s)	AMC3 M.B.30	AMC3 M.B.303(b), GM1 M.B.303(b) and Appendix III to GM1 M.B.303(b)					
Dependencies	n/a				-		
Affected stakel	olders	NCAs, CAMOs					
Owner		EASA FS.1	Maintenance 8	& Production Department			
Priority	No	RM Procedure	ST	Harmonisation	No		
		PLANNI	NG MILESTONES				
SubT	ToR	NPA	Opinion	Commission IR	Decision		
	2023	2024	n/a	n/a	2025		
		CHANGES S	SINCE LAST EDIT	ON			
n/a							

SPT.0104 Develop new safety promotion material on high-profile maintenance safety issues

Develop new safety promotion material on high-profile safety issues in the maintenance domain. Such high-profile safety issues are to be determined from important risks identified from the SRM process, accidents/serious incidents and inputs from EASA stakeholders.

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		-
Affected stakeho	olders	Air operators, CAMOs a	and AMOs (Part-145, Part-CAO and Part-M Subpart-F)
Owner EASA SM.1		EASA SM.1	Safety Intelligence & Performance Department
	<u> </u>	EXPEC	CTED OUTPUT
Deliverable(s)	•••••		Timeline
Leaflets, videos, v	vebpages and	d/or applications	Continuous
		CHANGES S	INCE LAST EDITION
n/a			-





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10.2 Level playing field

RMT.0096 Amendments (IRs and AMC & GM) in line with the process of granting foreign Part-145 approvals

The objective of this RMT is to modify existing or adopt additional AMC to Part-145, in order to address current shortcomings and inconsistencies when dealing with foreign maintenance organisations, i.e. located outside the territories of the Member States. Some of these amended AMC may also be applicable to the approval of organisations within the Member States.

In most of the cases, these proposals cover issues that have already been discussed with accredited NCAs working on behalf of the Agency or issues where the Agency has provided interpretation.

	<u> </u>		
			•
AMOs (Part-145)	'		
EASA FS.1	Maintenance 8	& Production Department	
RM Procedure	ST	Harmonisation	No
PLANN	ING MILESTONES	5	
NPA	Opinion	Commission IR	Decision
2013-12 11/07/2013	n/a	n/a	2023
CHANGES	SINCE LAST EDIT	ION	
	CHANGES	CHANGES SINCE LAST EDITI	CHANGES SINCE LAST EDITION

n/a

RMT.0278 Importing of aircraft from other regulatory systems and Part 21 Subpart H review

Develop criteria for importing of aircraft from other regulatory systems and Part 21 Subpart H review, considering recommendations from the ICAO Airworthiness Panel.

Affected regulations are Regulation (EU) No 1321/2014 and Regulation (EU) No 748/2012.

Chahus	0					
Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	RMT.0521					
Affected stakeholders		Air operators, CAMOs and NCAs				
Owner		EASA FS.1	Maintenance & Production Department			
Priority	No	RM Procedure	ST/RMG	Harmonisation	No	
		PLANNI	NG MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
	RMT.0278 01/02/2013	2016-08 07/09/2016	2022 Q3	2023	2023	

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Affected regulations and dependencies added; affected stakeholders updated. This action was previously included in Section 6.1.2.





10.3 Efficiency/proportionality

RMT.0734 One continuing airworthiness management organisation (CAMO) for airline business groups

This RMT addresses barriers and inefficiencies that the current regulation creates to EU airline business groups. It would allow, in the case of operators forming part of a single airline group, to have one single CAMO managing the continuing airworthiness of all aircraft operated by the different AOC holders in the business group.

Status	Ongoing					
SIs/SRs	n/a					
Reference(s)	EASA BIS 'Single	CAMO for business gr	oup operators'			
Dependencies	n/a					
Affected stakeholders CAMOs, business group operators, NCAs						
Owner		EASA FS.1	Maintenance & Production Department			
Priority	Yes	RM Procedure	See SubT	Harmonisation	No	
PLANNING MILESTONES						
SubT	ToR	NPA	Opinion	Commission IR	Decision	
DP	RMT.0734 05/01/2021	2021 Q3(FoC ⁴⁴)	04/2021 16/09/2021	2022 Q3	2022 Q3	

CHANGES SINCE LAST EDITION

Title updated in accordance with the published ToR.

RMT.0735 Regular update of the CAW regulation

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the CAW regulation is fit for purpose, cost-effective, can be implemented in practice and is in line with the latest ICAO SARPs. This regular update RMT will also address the remaining open items from RMT.0217 'CAMOs' and Part-145 organisations' responsibilities'.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakel	nolders	NCAs, AMOs, CAN airworthiness orga		applicants and holders, co	ombined
Owner		EASA FS.1	Maintenance & Production Department		
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANNI	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	2022 Q2	2023	2024	2025	2025
Next	n/a	tbd	tbd	tbd	tbd
		CHANGES S	SINCE LAST EDIT	ION	
n/a					







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In addition to the above RMTs, the following RMT is directly relevant to maintenance and continuing airworthiness management:

RMT.0690	Regular update c	LF CC_CTAN
KIVII JUOSU	NEGULAL UDGALE C	

The full description for this action is included in **Chapter 9.**

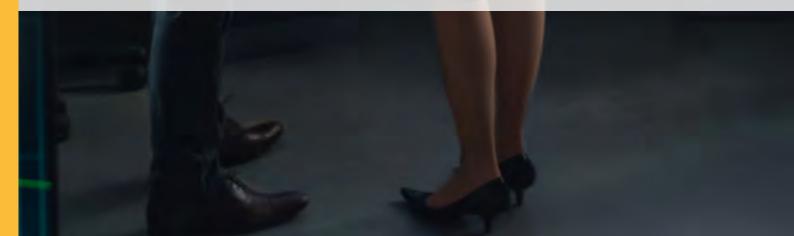
Finally, the below actions are directly relevant to maintenance and continuing airworthiness management:

SPT.0106	Prevention, detection and mitigation of fraud cases in Part-147 organisations		
MST.0035	Oversight capabilities/focus area: fraud cases in Part-147		

The full description for these actions is included in **Section 5.3.5.**



11. Air traffic management/ air navigation services (ATM/ANS)



11. Air traffic management/air navigation services (ATM/ANS)

Issue/rationale

The Agency is working towards harmonised rules based on ICAO SARPs, PANS and SUPPs that facilitates the compliance with the essential requirements for ATM/ANS.

In addition, the Agency is working on a proposal for a consistent framework that ensures the suitability for use of ATM/ANS systems and ATM/ANS constituents as well as aerodrome equipment and address it in a holistic manner the end-to end performance following the repeal of Regulation (EC) No 552/2004.

What we want to achieve

The complete framework for the provision of ATM/ANS will apply as from the beginning of 2022, when the amended Regulation (EU) 2017/373 as amended by Regulation (EU) 2020/469 will include the additional requirements concerning flight procedure design, ATS, AIS/AIM. Therefore, the Agency is working towards enhanced process to keep up-to-date rules with the ICAO provisions in a timely manner.

ATM/ANS systems and ATM/ANS constituents are key and integral elements to the safe, interoperable and efficient operations of the Single European Airspace System (SEAS)It should facilitate true compatibility with airborne and space-based systems through the appropriate allocation of performance requirements dependent upon the nature and risk of the particular activity concerned. The application of the new framework for ATM/ANS systems and ATM/ANS constituents would decrease burdens and enable savings for both the manufacturers and the ANSPs as well as for the competent authorities. This mostly stems from synergies, economies of scale, increased commonality and improved interoperability.

How we monitor improvement

The key risk areas and underlying safety issues will continue to be monitored as part of the Safety Risk Portfolio for ATM and ANS, with the support of the ATM CAG. The EASA ABs regularly provide feedback on the efficiency/proportionality of the actions.

11.1 Safety

The top three KRAs for ATM/ANS are listed below (refer to ASR 2021 Figure 132 and Table 36).

ATM/ANS		
KRA 1	KRA 2	KRA 3
Airborne collision	Runway collision	Runway excursion

Runway collision includes all occurrences involving actual or potential runway collisions between an aircraft and another aircraft, vehicle or person that occur on the runway of an aerodrome or other designated landing area. This includes occurrences involving the incorrect presence of an aircraft, vehicle or person on the protected area of a surface designated for the landing and take-off of aircraft. It does not include occurrences involving wildlife on the runway.

Airborne collision includes occurrences involving actual or potential airborne collisions between aircraft, and occurrences involving an aircraft and other controllable airborne objects, such as drones, thereby excluding birds.

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Therefore, it includes all separation-related occurrences regardless of the cause. It does not include false TCAS/ACAS alerts caused by equipment malfunctions or loss of separation with at least one aircraft on the ground, which may be coded as runway or movement area collision, if the occurrence meets the criteria.

Runway excursion includes occurrences involving a veer off or overrun off the runway surface.

The safety issues with higher risk scores, based on the occurrence data and their risk classification, are:

- Deconfliction of IFR and VFR flights with one or more traffic uncontrolled. This involves ineffective deconfliction of IFR and VFR flights in airspace classes where one or more traffic could be uncontrolled (i.e. class E, and G), potentially resulting in AIRPROX events and airborne collisions;
- Undetected occupied runway involves runway incursions by an aircraft landing or taking-off on an already occupied runway. This could be due to ATCO monitoring, aerodrome design or other organisational factors;
- High energy runway conflict covers runway incursions where the aircraft has already reached a high level of kinetic energy when ATC becomes aware of the runway conflict, and the time available to the ATCO to prevent the collision is very short. This includes instances where the landing aircraft is close to the runway threshold or is already lined-up, in the case of taking off;
- Airspace infringement involves both unauthorised entry into notified airspace by aircraft which did not request nor obtain clearance from the controlling authority of that airspace, and entry under conditions that were not contained in the clearance;
- ACAS RA not followed refers to encounters where one or both of the aircraft's flight crew did not follow the instruction given by the ACAS resolution advisory (RA) to resolve the conflict and avoid a potential mid-air collision.
- Deconfliction with aircraft operating without transponder (due to failure or malfunction) refers to occurrences involving an aircraft with no-operative transponder or a dysfunctional one operating in an airspace where aircraft must be equipped with secondary surveillance radar (SSR) transponder.

How we want to achieve it: actions

SPT.0103	Development of new safety promotion material on high-profile air traffic management
	safety issues

Develop new safety promotion material on high-profile safety issues for ATM. Such high-profile safety issues are to be determined from important risks identified from the SRM process, accidents/serious incidents and inputs from EASA stakeholders.

Status	Ongoing	9	
SIs/SRs	SI-2026	Effectiveness of Safety Mana	gement System
Reference(s)	n/a	***************************************	
Dependencies	n/a		
Affected stakeho	olders	CAT	
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPEC	TED OUTPUT
Deliverable(s)			Timeline
Leaflets, videos, w	vebpages a	and/or applications	Continuous
		CHANGES SI	NCE LAST EDITION
SI reference added	d.	-	

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RES.0032 Use of iConspicuity devices/systems in flight information services

EASA will investigate the use of iConspicuity devices/systems in ATM FIS, considering 'Net Safety Benefit' and 'Operational Safety Assessment' principles for the assessment of implementation issues.

Status	Ongo	ing		
SIs/SRs	SI-400	9 Deconfliction	between IFR and VFR flights	
Reference(s)		European Action Plan for Airspace Infringement Risk Reduction (EAPAIRR) EASA BIS 'Airborne Collision Risk'		
Dependencies	RES.O	031		
Affected stakeho	olders	Pilots, aircraft manufacturer		ustry (e.g. avionics and ATM systems
Owner		EASA ED.4	Air Traffic Department	
			PLANNING MILESTONE	ES
Starting date			Interim Report	Final Report
2021 Q4			2022 Q1	2022 Q2
			CHANGES SINCE LAST EDI	TION
n/a				



11.2 Efficiency/proportionality

RMT.0161 Conformity assessment

RMT.0161 concerns the development of a harmonised and mutually recognised mechanism to attest compliance of ground equipment (i.e. ATM/ANS systems and ATM/ANS constituents as well as safety-related aerodrome equipment used for the purpose of ATM/ANS) dependent upon their intended purpose (e.g. for the safe and seamless operation of the European air traffic management network (EATMN) for all phases of flight).

The task has been divided into three subtasks as follows:

Subtask 1: The objective of this subtask is to establish the EU regulatory framework and respective acts for conformity assessment of the ATM/ANS systems and ATM/ANS constituents as well as safety-related aerodrome equipment used for the purpose of ATM/ANS, in order to contribute to the safety and interoperability of the EATMN operation.

Subtask 2: The objective of this subtask is to review the SES interoperability rules (implementing the repealed Regulation (EC) No 552/2004, e.g. Automatic Systems for the exchange of flight data IR (EC) 1032/2006, Coordinated allocation and use of Mode S IR (EC) No 262/2009, Surveillance Performance and Interoperability (SPI) IR (EC) No 1207/2011, etc.) to update and adapt them to the EASA framework.

Subtask 3: This subtask intends to establish the AMC & GM supporting the Subtask 1 deliverables and the first set of EASA detailed specifications based on the existing interoperability rules and the Community Specifications (e.g. flight message transfer protocol).

Status	Ongoing				
SIs/SRs	SRs DENM-2010	D-003; NORW-2011-00)8		
Reference(s)	n/a				
Dependencies	RMT.0524; RMT	.0682; RMT.0519 ⁴⁵			
Affected stakeh	olders	maintenance of Al	ΓM/ANS systems, ATN	olved in the design, prod N/ANS constituents and rpose of ATM/ANS, NCA	safety-related
Owner		EASA ED.4	Air Traffic Depart	ment	
Priority	Yes	RM Procedure	See SubT/RMG	Harmonisation	No
		PLANN	ING MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
1(ST)	RMT.0161 14/02/2020	2022 Q1	2022 Q3	2023	n/a
2(AP)		2022 Q2*	2022 Q3	2023	2023
3(AP)		2022 Q2*	n/a	n/a	2023
		CHANGES :	SINCE LAST EDITIO	V	
Changes in the ta	ask description.				

⁴⁵ RMT.0161 is expected to be supplemented by RMT.0682 on the implementation of the regulatory needs in support of the SESAR deployment, which will allow the establishment of additional detailed specifications applicable to ground systems and their constituents, whenever necessary. As regards the airborne constituents, RMT.0519 on the regular update of CS-ACNS allows to set requirements and means of compliance for the aircraft manufacturing and modification industries with respect to ATM/ANS equipment to be installed on board the aircraft. In this case, RMT.0161 contributes to ensuring interoperability between the airborne and ground equipment and to the total system performance.

RMT.0476 Regular update of the standardised European rules of the air

This RMT concerns the maintenance of Regulation (EU) No 923/2012. For better traceability and to ensure the necessary consistency with the evolution of the EU and ICAO regulatory framework, the RMT activities should be split in four subtasks:

Subtask 1:

The objective is to amend the IR and the AMC & GM with the first 'regular updates' amendment containing the non-controversial modifications, which were initially consulted in late 2017 with the EASA ABs, and to address the wake turbulence separation in relation to PANS-ATM Amendment 9. This subtask will also ensure the necessary consistency with Annex IV 'Part-ATS' to Regulation (EU) 2017/373 at AMC & GM level.

Subtask 2:

The objective is to address amendments concerning the so-called controversial issues (radiocommunication failure and SID/STAR phraseologies).

Subtask 3:

The objective is to address 'AFIS phraseologies' as well as possibly revise the existing phraseology to be used in the so-called en-route FIS at AMC & GM level resulting from the introduction of AFIS-related requirements in the EU ATS regulatory framework stipulated in Regulation (EU) 2017/373 as amended by Regulation (EU) 2020/469.

Subtask 4:

The objective is to introduce speed restrictions to avoid supersonic flights over land in Europe in order to protect citizens from unacceptable sonic booms from supersonic transport aeroplanes (SSTs) operating at supersonic speed. Consultation methods are currently under discussion.

Status	Ongoing				
SIs/SRs	SR SPAN-2017-0)38			
Reference(s)		to PANS-ATM (ICAO Do reference AN 13/2.1-20		nce 20/27	
Dependencies	n/a				
Affected stakeh	olders	Member States, No operators), ADR op		NS providers, airspace use A	rs (e.g. aircraft
Owner		EASA ED.4	Air Traffic Dep	artment	
Priority	Yes	RM Procedure	See SubT	Harmonisation	No
		PLANNI	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
1 (ST)	RMT.0476 18/08/2017	2022 Q1	2022 Q3	2023	2023
2 (ST)		2022 Q1	2022 Q3	2023	2023
3 (ST)		2021-05 06/04/2021	n/a	n/a	2021/014/R 25/11/2021

CHANGES SINCE LAST EDITION

Change of rulemaking procedure for Subtask 1 and Subtask 4.

RMT.0719 Regular update of air traffic management/air navigation services rules (IRs and AMC & GM)

This RMT concerns the maintenance of Regulation (EU) 2017/373 and addresses the authority, organisational and technical requirements for the provision of ATM/ANS services. It contains six subtasks as follows:

Subtask 0

The objective is to maintain a high level of safety in the provision of air traffic management (ATM)/air navigation services (ANS).

Subtask 1:

The objective is to maintain the set of AMC & GM on Subpart-ATSEP up to date.

Subtask 2:

The objective is to introduce a set of additional AMC & GM, which are based on SESAR Safety Reference Material, as regards the scope of the change, the risk analysis process and the safety criteria determination by the providers of ATM/ANS.

Subtask 3

The objective is to:

- a) include the 'space weather advisory', revise the template for METAR, change the content of tropical cyclone advisory and assess the function of space weather centres (SWXCs) as proposed by Amendment 78 to ICAO Annex 3; and
- b) address the dissemination of world area forecast system (WAFS) SIGWX forecasts using the ICAO Meteorological Information Exchange Model (IWXXM), the training and competencies of personnel involved in the provision of aeronautical meteorological services and reflect the updated SIGMET examples based on Amendment 79 to ICAO Annex 3.

Subtask 4:

The objective is to maintain the set of ATS and AIS rules up to date, including alignment with the evolution of the ICAO regulatory framework (e.g. ICAO Annex 4, ICAO Annex 11, ICAO Annex 15 and PANS-ATM, and PANS-AIM). This subtask will be progressed in two steps:

- Subtask 4a will amend the AIS rules in order to address the AWO concept and facilitate the global reporting format (GRF) implementation. The resulting amendments will be published in the Opinion resulting from the RMT.0722 activities;
- Subtask 4b will aim at alignment with the evolution of the ICAO regulatory framework.

Subtask 5:

The objective is to maintain the set of CNS rules up to date, including alignment with the evolution of the ICAO provisions (e.g. ICAO Annex 10) and introduce a further set of implementing measures for NAV providers to demonstrate that their equipment is regularly maintained and, where required, calibrated. The main objectives of flight inspection/calibration are:

- to ensure quality of 'signal-in-space' parameters;
- to identify potential electromagnetic interference; and
- to confirm end-to-end interoperability.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	This RMT may be	affected by the recon	nmendations stemm	ing from the WPGR and	d the AAS.
Dependencies	RMT.0681				
Affected stakeh	olders	ATM/ANS service pr	oviders, Network M	anager, aircraft operato	ors, NCAs
Owner		EASA ED.4	Air Traffic Departn	nent	
Priority	No	RM Procedure	see SubT	Harmonisation	No

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RMT.0719		Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — continued					
		PLAN	NING MILESTONES				
SubT	ToR	NPA	Opinion	Commission IR	Decision		
0(AP)	18/08/2017	20/12/2017	02/2018 08/03/2018	2020/469 ⁴⁶ 14/02/2020	2020/008/R 02/07/2020		
1(AP)		01/07/2020	n/a	n/a	2020/020/R 07/12/2020		
2(ST)		2019-04 11/04/2019	n/a	n/a	2022 Q2		
3(AP)		08/05/2020	01/2021 22/02/2021	2021/1338 ⁴⁷ 11/08/2021	2022 Q1		
4a(AP)		2022 Q1	2022 Q2	2022 Q3	2022 Q3		
4b(ST)		2022 Q2	2023	2023	2023		
5(ST)		2022 Q2	2023	n/a	2023		
		CHANGE	S SINCE LAST EDITIC)NI			

CHANGES SINCE LAST EDITION

Change of RM procedure for Subtask 4.

RMT.0723 Regular update of the AMC & GM for SKPI (ATM performance IRs)

Reference Period 3 (2020 to 2024)

The objective of this RMT is to provide up-to-date technical material regarding the implementation and measurement of the SKPI at the level of ANSPs and the SPIs at both the State and ANSP level.

The material will be published as EC material, not as AMC & GM. Therefore, no Decision will be published by the Agency.

The timeline for the next reference period is not yet known.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	Commission Re	gulation (EU) 2019/31	17 of 11 February 2	2019	
Dependencies	n/a				
Affected stakeh	olders	ANSPs and NCAs			
Owner		EASA SM.1	Safety Intellige	ence & Performance Depa	rtment
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
Current	29/06/2018	2019-10 19/09/2019	n/a	n/a	n/a
Next		tbd	n/a	n/a	n/a
		CHANGES	SINCE LAST EDIT	ION	
n/a					

In addition to the above, the following RMTs are also relevant for ATM/ANS:

RMT.0668	Regular update of air traffic controller licensing rules (IRs and AMC & GM)
KIVI LUDDA	Requiar upgate of air traffic controller licensing rules liks and Alvic & Givi

The full description for this action is included in **Section 5.3**.

I

The full description for this action is included in **Section 9.3**.

RMT.0230	Introduction of a regulatory framework for the operation of drones
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The full description for this action is included in **Section 14.1**.

RMT.0524	Data link services
RMT.0624	Remote aerodrome air traffic services
RMT.0682	Implementation of the regulatory needs in support of SESAR deployment
RMT.0731	New air mobility
SPT.0108	Promotion of the new European provisions on performance-based navigation and the associated ATM Master Plan essential operational changes

The full description for these actions is included in **Chapter 15.1.3**.



12. Aerodromes

This chapter addresses aerodrome design and operations, as well as aerodrome (ADR) operators. Actions in this chapter address safety, as well as efficiency/proportionality in terms of developing and maintaining a legal framework commensurate with the complexity of ADR activities and management of potential risks. This chapter also includes actions to ensure a level playing field on the basis of the regulatory requirements stemming from the Basic Regulation.

Actions in this chapter aim at maintaining a high uniform level of safety in the Member States, ensuring compliance with the ICAO SAPRs and a harmonised approach, also with regards to an alignment of applicability dates. This will support the free movement of services within the Member States and ensure concurrent global convergence of rules.

How we monitor improvement

The key risk areas and underlying safety issues will continue to be monitored as part of the joint data portfolio and Safety Risk Portfolio for ADR and GH, with the support of the ADR CAG. The EASA ABs will provide feedback on the efficiency/proportionality of the actions.

12.1 Safety

The top three KRAs for aerodromes and groundhandling are listed below (refer to ASR 2021 Figure 117 and Table 33).

Aerodromes and groundhandling (ADR and GH)			
KRA 1	KRA 2	KRA 3	
Aircraft upset	Ground damage	Runway collision	

The most frequent key risk area for aerodrome and ground handling related accidents and serious incidents is aircraft upset, followed by ground damage and runway collision. In terms of aggregated risk, aircraft upset and ground damage are on a similar high level of aggregated risk, followed by runway collision.

How we want to achieve it: actions

RMT.0722 Provision of digital aeronautical data by the aerodrome operator

Revision and update of Regulation (EU) No 139/2014 and of the related AMC & GM in order to include the provisions of Chapter 2 of ICAO Annex 14 and the provisions of ICAO Annex 15 in regard to the provision of aeronautical data by the ADR operator.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	ATM Master Pla	ATM Master Plan Level 3 – Plan (2019): INF07 – Electronic Terrain and Obstacle Data (e-TOD) ATM Master Plan Level 3 – Plan (2019): ITY-ADQ – Ensure quality of aeronautical data and aeronautical information			
Dependencies	RMT.0719				
Affected stakeh	olders	ADR operators, AC	OC holders, ANSPs	and NCAs	
Owner		EASA FS.2	Air Operation	s Department	
Priority	No	RM Procedure	AP	Harmonisation	No
		PLANNI	NG MILESTONE	S	
SubT	ToR	NPA	Opinion	Commission IR	Decision
	RMT.0722 14/04/2021	2022 Q1(FoC ⁴⁸)	2023	2024	2024
		CHANGES !	SINCE LAST EDIT	ION	
n/a					

SPT.0102 Development of new safety promotion material on high-profile aerodrome and groundhandling safety issues

Develop new safety promotion material on high-profile safety issues for aerodromes and groundhandling. Such high-profile safety issues are to be determined from important risks identified from the SRM process, accidents/ serious incidents, inputs from EASA stakeholders and groundhandling safety topics that have been defined by the groundhandling roadmap, including groundhandling safety topics stemming from the Basic Regulation.

Status	Ongoin	g	
SIs/SRs	All SIs (r	nitigate) in the ADR & GH Sa	fety Risk Portfolio
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeho	olders	ADR operators, AOC ho	lders, ANSPs and NCAs
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPEC	TED OUTPUT
Deliverable(s)	•	•	Timeline
Leaflets, videos, w	vebpages i	and/or applications	Continuous
		CHANGES S	NCE LAST EDITION
n/a			

⁴⁸ Focused consultation.

MST.0029 Implementation of SESAR runway safety solutions

Member States should evaluate together with the ADR operators and ANSPs the needs for implementing the related SESAR solutions such as those related to ground situational awareness, airport safety net vehicles and enhanced airport safety nets⁴⁹.

These SESAR solutions (solutions #01, #02, #04, #26, #47, #48, #70), designed to improve runway safety, should be considered as far as it is feasible.

See SESAR Solutions Catalogue 2019 third edition:

https://www.sesarju.eu/sites/default/files/documents/reports/SESAR_Solutions_Catalogue_2019_web.pdf

Status	Ongoing			
SIs/SRs	n/a			
Reference(s)	GASP SEIs	GASP SEIs (States) – Mitigate contributing factors to the risks of RE and RI		
Dependencies	n/a			
Affected stakeho	olders	ADR operators, AOC holders, ANSPs and NCAs		
Owner	Member States			
		EXPECTED OUTPUT		
Deliverable(s)	•	-	Timeline	
SPAS 2021Q4			2021Q4	
SPAS reviewed	•		Q4 of each year starting 2022	

RES.0040 Runway micro texture

Runway surface micro texture is essential for good wet runway braking friction. Poor runway micro texture has resulted in numerous landing overruns occurrences on wet surfaces. There are currently no acceptable methods for airports to accurately assess the micro texture characteristics. The proposed research assesses the practical use and validity of high-resolution surface laser scanners to determine the runway micro texture characteristics. A better understanding of these characteristics can reduce the number of runway excursions.

Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeho	olders	ADR operator	s, aircraft operators (CAT, NCC	i, NCO, SPO), DAHs, NCAs	
Owner	Owner EASA SM.2 Str		Strategy & Programmes De	epartment	
			PLANNING MILESTONI	ES	
Starting date			Interim Report	Final Report	
2021 Q3			n/a	2024 Q3	
			CHANGES SINCE LAST EDI	TION	
n/a					

⁴⁹ https://www.atmmasterplan.eu/exec/operational-changes



RES.0045 Aerodrome 'Triple One' concept implementation

The 'Triple One' concept refers to ways and means to enhance the ground communication between pilots, ATC personnel and vehicle drivers during aircraft and vehicle operations in the manoeuvring area of aerodromes for the greater situational awareness of these actors.

Three recommendations originating from the latest version of the 'European Action Plan for the Prevention of Runway Incursions' (EAPRI, 3rd edition) taken together have come to be known as 'Triple One'. They are:

- Implement, monitor and ensure the use of the readback procedure (also applicable to manoeuvring area drivers and other personnel who operate on the manoeuvring area).
- (b) Where practicable, improve situational awareness by conducting all communications associated with runway operations using aviation English.
- When practicable, improve situational awareness, by implementing procedures whereby all communications associated with runway operations are on a common or cross-coupled frequency.

It is held that using a single frequency for communication purposes with respect to the operations on one runway (see recommendation (c) above) improves the situational awareness of the actors active on the airport movement area. However, this presupposes the use of a common language (see recommendation (b)) so that the use of a common frequency makes sense. Furthermore, this concept also assumes the possibility of interaction of vehicle drivers with the ATCO in charge of the runway (see recommendation a) on one common TWR frequency for that runway (see recommendation (c)), to avoid misunderstandings, prevent runway incursions and therefore enhance safety.

The working definition of 'Triple One' can be therefore abbreviated as: One Runway, One Frequency, One Language.

This new project will entail the following:

- A survey of the current situation at aerodromes in Europe regarding communication at aerodromes during aircraft and vehicle operations in the manoeuvring area, identifying the variations of the concept which are currently in use. Substantiation of the safety benefits and risks of the implementation of the 'Triple One' concept and identification of the prerequisites for its implementation.
- Identification and investigation of the operational or other reasons for the non-implementation of the 'Triple One' concept.

Status	New			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	ADR operator	s, ANSPs, NCAs	
Owner		EASA SM.2	Strategy & Programm	es Department
			PLANNING MILES	ONES
Starting date			Interim Report	Final Report
2022 Q2			n/a	2024 Q1
			CHANGES SINCE LAST	EDITION
n/a				

12.2 Level playing field

The section is maintained as a placeholder for future actions.

12.3 Efficiency/proportionality

RMT.0591 Regular update of aerodrome rules

The objective of this RMT is to regularly address miscellaneous issues of non-controversial nature, in order to ensure that the Aerodrome Regulation is fit for purpose, cost-effective and in line with the latest ICAO SARPs and the Basic Regulation.

The first stream (SubT 1) is for the first update of the aerodrome rules, while stream two is for the second one in order to follow the ICAO cycle, including the transposition of ICAO Annex 14, Vol II Heliports.

Subtask 1:

- The Opinion stemming from RMT.0591 will be published together with that stemming from RMT.0722 on aeronautical data.
- The stand-alone CS containing the technical certification specifications for aerodromes that are not dependent upon the IRs and the Opinion will be published as announced in the last EPAS edition in 2022 Q1, in the form of an EASA Decision.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	RMT.0681				
Affected stakeh	nolders	ADR operators, NO	CAs		
Owner		EASA FS.2	Air Operations	Department	
Priority	No	RM Procedure	ST	Harmonisation	No
		PLANN	ING MILESTONES	5	
SubT	ToR	NPA	Opinion	Commission IR	Decision
1	RMT.0591 29/07/2016	2020-10 17/11/2020	2023	2024	2022 Q1 (for CS) 2024 (for AMC & GM)
2		2022 Q3	2024	2025	2025
		CHANGES	SINCE LAST EDIT	ON	

Information on Opinion publication added for Subtask 1 $\,$

EVT.0012 Evaluation of Commission Regulation (EU) No 139/2014 (the 'Aerodrome Regulation')

Commission Regulation (EU) No 139/2014 (Aerodrome Regulation) was adopted in 2014. Since 2018, rules have been subject to monitoring through EASA Standardisation. An evaluation will be performed to assess the relevance, effectiveness and efficiency of the rules.

Status	Not started			
SIs/SRs	n/a			
Reference(s)	n/a		-	
Dependencies	n/a			
Affected stakeho	olders	ADR operators, NCAs		
Owner		EASA FS.2	Air Operations Department	
		EXPECTED	OUTPUT	
Deliverable(s)			Timeline	
Evaluation report			2024	
		CHANGES SINCE	LAST EDITION	
n/a	•		-	

In addition to the above, the following actions are also directly relevant for aerodrome operators:

RMT.0161	Conformity assessment
RMT.0476	Regular update of the standardised European rules of the air

The full description for these actions is included in **Chapter 11.2**.

Development of requirements for groundhandlin

The full description for this action is included in the next **Chapter 13**.

RMT.0230	Introduction of a regulatory framework for the operation of drones
RMT.0729	Regular update of Regulations (EU) 2019/945 and 2019/947 (drones in the 'open' and 'specific' categories)

The full description for these actions is included in **Chapter 14**.

RMT.0624	Remote aerodrome air traffic services
RMT.0682	Implementation of the regulatory needs in support of SESAR deployment
RMT.0731	New Air Mobility

The full description for these actions is included in **Chapter 15**.



13. Groundhandling

This chapter addresses all groundhandling related aspects, with the exception of aerodrome design and operations, as well as aerodrome operators, being dealt with in the previous chapter.

13.1 Safety

Issue/rationale

This risk area includes all groundhandling and apron-management-related issues (aircraft loading, de-icing, refuelling, ground damage, etc.) as well as collision of the aircraft with other aircraft, obstacles or vehicles while the aircraft is moving on the ground, either under its own power or being towed. It does not include collisions on the runway. Baggage and cargo loading in passenger aircraft is the top safety issue based on the number of occurrences in the ECR. The second issue that will be assessed in the European SRM process will be ground staff movement around aircraft (see ASR 2021).

What we want to achieve

Increase safety by continuously assessing and improving risk controls to mitigate the risks in the area of ground safety.

How we monitor improvement

The key risk areas and underlying safety issues will continue to be monitored as part of the joint data portfolio and Safety Risk Portfolio for ADR and GH (refer to ASR 2021 Figure 117 and Table 33), with the support of the Aerodromes and Groundhandling CAG. The EASA ABs regularly provide feedback on the efficiency/proportionality of the actions and on the effect on level playing field.

How we want to achieve it: actions

RMT.0728 Development of requirements for groundhandling

Develop IRs and AMC & GM to ensure compliance with the essential requirements contained in Annex VII to the Basic Regulation. This will consider operational requirements, organisational requirements and authority requirements, as deemed necessary. Detailed objectives and actions are defined by the Groundhandling Roadmap which was subject to a focused consultation in the first quarter of 2019.

In addition, the task includes the items previously addressed in RMT.0705.

Develop requirements for:

- the establishment of the methods for the delivery, storage, dispending and handling of dangerous goods at the ADR; and
- ADR operators to train their personnel in the handling of dangerous goods, in the case the ADR operator is acting as a subcontractor (handling agent) of air operators.

Status	Ongoing						
SIs/SRs	SI-1023 Operation of airbridges/passenger boarding bridges SI-5022 Impact of the pandemic on the ground handling industry – human factors						
Reference(s)	n/a						
Dependencies	n/a						
Affected stakeh	Affected stakeholders NCAs, groundhandling service providers, ADR operators, AOC holders and groundhandling staff						
Owner		EASA FS.2	Air Operation	s Department			
Priority	Yes	RM Procedure	AP	Harmonisation	No		
		PLANNI	NG MILESTONE	5			
SubT	ToR	NPA	Opinion	Commission IR	Decision		
1	RMT.0728 22/11/2019	2022 Q2	2023	2024	2024		
		CHANGES S	SINCE LAST EDIT	ION			

In addition to the above, the following SPTs are also directly relevant to groundhandling:

SPT.0102	Development of new safety promotion material on high-profile aerodrome and
	groundhandling safety issues

The full description for this action is included in **Chapter 12**.

List of SIs updated, list of affected stakeholders updated



14. Unmanned aircraft systems and manned eVTOL aircraft



14. Unmanned aircraft systems and manned eVTOL aircraft

RMT.0230 includes all the actions that are relevant to ensure the safe integration of UAS and eVTOL operated in the 'certified' and 'specific' (high-risk) category, including manned eVTOL aircraft operated in the 'certified' category into the aviation system.

14.1 Safety

Issue/rationale

Most of the EU Member States have adopted national regulations to ensure safe operations of UASs with MTOMs below 150 kg. With the extension of the scope of the EU competence through the Basic Regulation to regulate UASs with MTOMs below 150 kg and the recent applicability of the EU requirements for the operation of UASs in the 'open' and 'specific' categories (Commission Implementing Regulations (EU) 2019/947 and 2019/945), Member States are amending their national regulations. As of January 2023, all operations in the "open category" and all drone operators must fully comply with both regulations.

These EU Regulations need to be complemented with additional actions as explained in Volume I **Section 3.1**. These actions aim at completing this framework and thus enable harmonised rules at EU level. They are also linked with other actions in EPAS (such as RMT.0731) and aim at enabling standardised UAS operations as well as more complex operations of UASs such as operations in an urban environment (i.e. urban air mobility (UAM)).

In order to ensure safe UAS operations and to minimise and avoid risks, it is important to manage the safe integration of UASs into the airspace. On airspace integration, U-space⁵⁰ is a set of new services and specific procedures designed to support the safe, efficient and secure access to airspace for large numbers of drones. EASA has prepared a world's-first U-space/UTM regulatory package (Commission Implementing Regulations 2021/664, 2021/665 and 2021/666, adopted by the EC on 22 of April 2021. This package will become applicable in January 2023 and will enable the safe integration of UAS operations in urban environments.

What we want to achieve

To create a level playing field in all EU Member States, using an operation-centric concept, which is proportionate and risk- and performance-based, so that all companies can make best use of UAS technologies to create jobs and growth. At the same time, to enable the safe integration of drones in the European airspace while maintaining a high and uniform level of safety.

How we monitor improvement

The relevant EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

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RMT.0230 Introduction of a regulatory framework for the operation of drones

Development of IRs (including implementing and delegated acts) for UASs, implementing Articles 55 to 57 of and Annex IX to the Basic Regulation.

The ToR have been updated by publishing Issue 3 on 22/04/2021 to reflect the developments of the approach defined by EASA and agreed with the relevant stakeholders.

There are three categories of UAS defined:

- 'Open' category: low-risk operation not requiring authorisation or declaration before flight
- 'Specific' category: medium-risk operation requiring authorisation or declaration before flight
- 'Certified' category: high-risk operation requiring certification process

To implement an innovative new set of rules for the three categories and to address U-space, the following six subtasks have been identified:

- Subtask A: UAS operations in the 'open' and 'specific' category regulated by dedicated implementing and delegated acts⁵¹.
- Subtask B: U-space and airspace integration regulated by three implementing acts⁵². This task will also cover the development of AMC & GM to support the U-space regulation.
- Subtask C: UAS operations in the 'certified' category and UAM. This subtask includes amendments to IAW, CAW, FCL, OPS, ADR, ATM/ANS regulations for three types of operations:
 - Operations type #1: instrument flight rules (IFR) operations of UAS for the carriage of cargo in airspace classes
 A-C (ICAO airspace classification) and taking off from and/or landing at aerodromes falling under the Basic Regulation.
 - Operations type #2: operations of UAS taking off and/or landing in a congested (e.g. urban) environment
 using predefined routes in the U-space airspace (part of the operation could be in a non-congested, e.g. rural,
 environment). These include operations of unmanned VTOL aircraft carrying passengers (e.g. air taxis) or
 cargo (e.g. goods delivery services).
 - Operations type #3: same as for type #2 operations with VTOL aircraft with a pilot on board, including
 operations out of the U-space airspace. While this task will also consider emerging technologies such as
 electric and hybrid propulsion as integral part of the drones' design, the dedicated RMT.0731 will address in
 particular the CAW aspects related to these technologies.
 - In the context of FCL, Subtask C will also include a review of the ECQB for identifying those questions related to those subjects which will be usable also for examinations for the new pilot licences that will be introduced with this RMT.
- Subtask D: Certification Specifications for Unmanned Aircraft Systems (CS-UAS and CS-Light UAS), Certification Specifications for vertical take-off and landing aircraft (CS-VTOL), and CS-ETSO
- Subtask E: Airspace usage requirements and ATM/ANS interoperability requirements
- Subtask F: Environmental protection is planned to be addressed in a two-phased approach. EASA will use SCs to propose the first set of requirements. Once experience is acquired, the regulatory framework will be adapted as necessary. For the maintenance of the Regulation and the AMC & GM developed under Subtasks A and D, two RMTs have been created.

Please refer to RMT.0729 and RMT.0730.

Introduction of standard scenarios (STSs) by amending the implementing and delegated acts for the 'open' and 'specific' categories, covered by RMT 0729.

Status	Ongoing
a. /a-	SI-2014 Integration of RPAS/drones
SIs/SRs	SR ITAL-2017-001
Reference(s)	n/a
	RMT.0727, RMT.0731

- 51 Commission Implementing Regulation (EU) 2019/947 and Commission Delegated Regulation (EU) 2019/945 have been adopted.
- 52 Commission Implementing Regulations (EU) 2021/664, (EU) 2021/665 and (EU) 2021/666 have been adopted.



RMT.0230	Introduction	of a regulatory fram	nework for the ope	ration of drones - con	tinued
Affected stakeholders		MTOs; CAMOs; ma users (manned air (ATM/ANS) and otl (USSP) and commo	aintenance licence ho craft); providers of ai her ATM network fur on information servion	l); NCAs; flight crews; roblders; UAS manufactur r traffic management/a nctions (including U-spa ce (CIS) providers; air tra blic; model aircraft asso	ers; other airspace ir navigation services ice service providers affic services (ATS)
Owner		EASA ED.0.3	Executive Directo	or's Office – Drones Sec	tion
Priority	Yes	RM Procedure	See SubT/RMG	Harmonisation	No
		PLANN	ING MILESTONES		
SubT	ToR	NPA	Opinion	Commission IR	Decision
A(ST)	22/12/2016	2017-05 04/05/2017	01/2018 06/02/2018	2019/945 12/03/2019 ⁵³ 2019/947 24/05/2019 ⁵⁴	2019/021/R 10/10/2019
B(AP)		08/10/2019	01/2020 13/03/2020	2021/1338 11/08/2021 ⁵⁵	2021 Q4 (AMC &GM)
C(ST)		#1 2022 Q1 #2 2023 #3 2023 #4 2023 #5 2025	2023 2024 n/a n/a n/a	TBD TBD n/a n/a n/a	TBD TBD 2024 2024 2025
D(ST)		#1 2023 #2 2023 #3 2024 #4 2022 Q1	n/a n/a n/a n/a	n/a n/a n/a n/a	2024 2024 2024 2024 2022 Q4
E(ST)		#1 2023 #2 2023 #3 2024 #4 2024	2024 2024 n/a 2025	TBD TBD n/a TBD	2024 TBD 2025 TBD
F(ST)		#1 TBD #2 TBD #3 TBD	n/a n/a n/a	n/a n/a n/a	TBD TBD TBD

CHANGES SINCE LAST EDITION

Action description updated.

Redefinition of the subtasks and milestones in alignment with ToR RMT.0230 Issue 3, issued on 22 April 2021

Note: For a correlation between the NPA numbers in the respective sub-tasks, please refer to the Annex to the Terms of Reference (TOR) of RMT.0230.

⁵³ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019R0945

⁵⁴ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32019R0947

⁵⁵ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32021R1338

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RMT.0729 Regular update of Regulations (EU) 2019/945 and 2019/947 (drones in the 'open' and 'specific' categories)

Addition of STSs in Appendix 1 to the Annex to Regulation (EU) 2019/947, defining the conditions when a UAS operator can start an operation after having submitted a declaration to the competent authority. Moreover, the inclusion of new Parts in the Annex to Regulation (EU) 2019/945, including the technical requirements that UAS need to meet in order to be operated in the STSs, and establishing two UAS classes.

General improvements of Regulations (EU) 2019/947 and (EU) 2019/945.

Subtask 1:

It covers:

- two STSs:
 - VLOS (visual line of sight) in urban environment over controlled area;
 - BVLOS (beyond visual line of sight) in sparsely populated environment over controlled area using visual observers; and
- two new UAS classes C5 and C6.

AMC & GM are addressed under RMT 0730.

Subtask 2:

It will remove a few inconsistencies identified by the stakeholders during the application of Regulations (EU) 2019/945 and 947.

Status	Ongoing							
SIs/SRs	SI-2014 Integration of RPAS/drones							
Reference(s)	n/a							
Dependencies	n/a							
Affected stakeh	nolders	maintenance staff (manned aircraft); services (ATM/ANS	; design and product service providers of	al); CAs; flight crews; rer cion organisations; othe air traffic management cwork functions; ATS pe aft associations	r airspace users /air navigation			
Owner		EASA ED.0.3	Executive Directo	or's Office – Drones Sec	tion			
Priority	No	RM Procedure	see SubT/RMG	Harmonisation	No			
		PLANN	ING MILESTONES					
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1/AD)	RMT.0729	25/09/2019	202 /oc/2019 12/		. 1			
1(AP)	26/07/2019	25/09/2019	07/11/2019	2020/1058 27/04/2020 ⁵⁷	n/a			
2(AP)		2023	2024	2025	n/a			
		CHANGES :	SINCE LAST EDITIO	N				
n/a								

⁵⁶ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32020R0639

⁵⁷ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32020R1058

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RMT.0730 Regular update of the AMC & GM to Regulations (EU) 2019/945 and 2019/947 (drones in the 'open' and 'specific' categories)

Predefined risk assessment (PDRA) and recognition of industry standards in support of the specific operations risk assessment (SORA) methodology. General improvements of the AMC & GM to Regulations (EU) 2019/947 and (EU) 2019/945.

Considering the novelty of the topic and the need to gain experience while establishing harmonisation in the implementation of the UAS regulation, EASA will publish on the website guidelines providing useful information for the stakeholders. When the material will be considered mature, an NPA and the resulting Decision will be published.

Subtask 1:

Update of SORA to accommodate BVLOS operation in urban environment

Development of three PDRAs: two mirroring the STSs developed by RMT.0729 and one to cover BVLOS operations over sparsely populated areas at less than 150 m above the overflown surface and in uncontrolled airspace

Subtask 2:

Additional PDRAs, AMC & GM for STSs (Regulations⁵⁸ published under RMT.0729) and for the definition of geographical zones; general improvement of AMC & GM and recognition of industry standards.

Subtask 3:

Joint Authorities for Rulemaking on Unmanned Systems (JARUS) plans to publish in 2022 Q1 updates to SORA, following a JARUS external consultation. EASA will publish as direct publication (Art.15 of the RM procedure) the JARUS proposal unless a major objection will be raised by EASA or by an EU stakeholder during the JARUS consultation.

Subtask 4

This Subtask will create guidelines that will be published on the EASA website in 2022 to make material available in a timely manner to stakeholders. The NPA and the Decision will be published at a later date when the material will be considered mature. It will include additional PDRAs, general improvement of AMC & GM and recognition of additional industry standards.

CL 2014 Intogra								
31-2014 Integra	SI-2014 Integration of RPAS/drones							
n/a								
n/a								
olders	maintenance staff (manned aircraft); services (ATM/AN	; design and produ service providers S) and other ATM r	uction organisations; othe of air traffic management network functions; ATS pe	r airspace users /air navigation				
EASA ED.0.3 Executive Director's Office – Drones Section								
No	RM Procedure	ST	Harmonisation	No				
	PLANN	ING MILESTONES	;					
ToR	NPA	Opinion	Commission IR	Decision				
26/07/2019	2020-07 16/04/2020	n/a	n/a	2020/022/R 16/12/2020				
n/a	2021-09 14/07/2021	n/a	n/a	2021 Q4				
n/a	n/a	n/a	n/a	2022 Q2				
n/a	thd	n/a	n/a	tbd				
	n/a n/a nla nla nla nla nla nla	n/a UAS operators (primaintenance staff (manned aircraft); services (ATM/AN operators; general EASA ED.0.3 NO RM Procedure PLANN TOR NPA 26/07/2019 2020-07 16/04/2020 n/a 2021-09 14/07/2021 n/a n/a	DIDENTIFY TOR NPA OPINION 26/07/2019 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021 0/2021-09 14/07/2021	UAS operators (private and commercial); NCAs; flight crews; rumaintenance staff; design and production organisations; other (manned aircraft); service providers of air traffic management services (ATM/ANS) and other ATM network functions; ATS peroperators; general public; model aircraft associations EASA ED.0.3 Executive Director's Office – Drones Section No RM Procedure ST Harmonisation PLANNING MILESTONES TOR NPA Opinion Commission IR 26/07/2019 2020-07				



SPT.0091 European safety promotion on civil drones

- Coordinate European activities to promote safe operation of drones to the general public.
- Promote the safe use of drones and an understanding of the drone rules to those undertaking commercial drone operations.
- Promote the design and certification aspects of drones.
- Promote activities to minimise the risk of drones impacting airspace.

Status	Ongoing		
SIs/SRs	SI-2014 Inte	gration of RPAS/d	rones
Reference(s)	n/a		
Dependencies	RMT.0230		
Affected stakeho	olders	UAS operators (լ	private and commercial)
Owner		SPN	Safety Promotion Network
			EXPECTED OUTPUT
Deliverable(s)	•		Timeline
Safety promotion material		***************************************	Continuous
		CHAN	IGES SINCE LAST EDITION
Action description	n updated		

RES.0015 Vulnerability of manned aircraft to drone strikes

Assessment of the potential collision threats posed by drones to manned aircraft and evaluation of their estimated impacts; establishment of a risk model to support regulatory and operational stances to be validated by means of a comprehensive set of simulated impact tests.

Status	Ongoing						
SIs/SRs	SI-201	4 Integration of	RPAS/drones				
Reference(s)	https:	//www.easa.eur	opa.eu/research-projects/vul	nerability-manned-aircraft-drone-strikes			
Dependencies	n/a	n/a					
Affected stakeho	olders	Air operators	in CAT & NCC, SPO, HE, GA				
Owner		EASA SM.2 Strategy & Programmes Department					
			PLANNING MILESTON	ES			
Starting date	Interim Report Final Report						
2020 Q2	0 Q2 n/a 2023 Q2			2023 Q2			
			CHANGES SINCE LAST ED	ITION			
n/a							



RES.0022 SESAR 2020 research projects aiming to safely integrate drones in the airspace

The following research activities are being addressed under the SESAR 2020 programme: surface operations by UAS (PJ.03a-09); IFR UAS Integration (PJ. 10-05).

A first project for large-scale demonstrations (SESAR-VLD1-10-2016 (PODIUM project)) was launched in 2017, followed by Exploratory Research calls in 2019, SESAR-ER4-28-2019 and SESAR-ER4-29-2019.

The reports of the PODIUM project are available at https://www.sesarju.eu/projects/podium

Status	Ongo	ing	
SIs/SRs	SI-201	.4 Integration of RPAS/drones	
Reference(s)	SESAF	R solution PJ.03a-09, PJ.10-05 - https://www.se	sarju.eu/projects/podium
Dependencies	n/a	-	
Affected stakeho	olders	UAS, OEM	
Owner		SESAR	
		PLANNING MILESTONE	:S
Starting date		Interim Report	Final Report
2017	•	n/a	2022
		CHANGES SINCE LAST EDI	TION
n/a	***************************************	-	

RES.0023 SESAR exploratory projects on U-space

SESAR JU has launched the U-space exploratory research as a step towards realising the EC U-space vision for ensuring safe and secure access to airspace for drones.

Implemented through SESAR Call for proposal H2020-SESAR-2016-1 (CORUS project) and Exploratory Research call SESAR-ER4-31-2019.

The reports of the CORUS project are available at https://www.sesarju.eu/projects/corus

A consolidated report on SESAR U-Space research and innovation results is available at https://www.sesarju.eu/node/3691

Status	Ongoing				
SIs/SRs	SI-2014	Integration of RPAS/drones			
Reference(s)	SESAR ⁵⁹	- https://www.sesarju.eu/projects/corus			
Dependencies	n/a				
Affected stakeho	olders	UAS, OEM			
Owner	SESAR				
		PLANNING MILESTONE	ES .		
Starting date		Interim Report	Final Report		
2017 Q3		n/a	2022 Q4		
		CHANGES SINCE LAST EDI	TION		
Update of task de	escription ((addition of the link to the consolidated repo	ort)		

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RES.0038 UAS standards

The research will deliver the assessment of the technical content of the industrial standards listed in the Rolling Development Plan - UAS (RDP-U⁶⁰) and which are going to be recommended by the ongoing AW drone project⁶¹. In addition, it shall assess the new standards that will be added by the European UAS Standards Coordination Group (EUSCG), as part of the regular update of the RDP-U, up to 6 months before the date of expiration of the contract.

Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeho	olders	UAS operator:	s, UAS design organisations,	MOs, ANSPs, competent authorities	
Owner		EASA SM.2	Strategy & Programmes Department		
			PLANNING MILESTON	IES	
Starting date			Interim Report	Final Report	
2021 Q1	•	n/a 2023 Q1			
			CHANGES SINCE LAST ED	DITION	
n/a	***************************************				

In addition to the above, the following RMT is also relevant:

RMT.0731 New air mobility

The full description for this action is included in **Chapter 15**.



15. New technologies and concepts

15. New technologies and concepts

This chapter addresses the safe integration of new technologies and innovative solutions into the aviation system, with the exception of civil drones, which are addressed in the previous chapter.

While many of the technologies and innovations emerging in the aviation industry bear significant potential to further improve the level of safety and/or efficiency, EPAS gives due consideration to the safety issues deriving from new technologies, new operational concepts or novel business models.

In the ATM domain, SESAR covers the development of new technologies for a better management of Europe's airspace as well as their contribution to the achievement of the SES goals and safety targets.

What we want to achieve

Facilitate emerging technologies and innovative concepts, while ensuring their safe integration into the European aviation system.

15.1 Safety

15.1.1 New business models

Issue/rationale

This section addresses risks related to new and emerging business models arising from the increased complexity of the aviation industry, the number of interfaces between organisations, their contracted services and regulators. Some new business models are emerging: the increased demand for flying in the cities, UAM, the increased digitalisation in aviation systems, the introduction of more autonomous vehicles, platforms starting for single-pilot operations and completely autonomous cargo aircraft. These will challenge the way authorities regulate and oversee the aviation system. NCAs should work better together and EASA should evaluate whether the existing safety regulatory system adequately addresses current and future safety risks arising from new and emerging business models. Upon the request of Member States, EASA tasked a working group of NCAs to assess airlines' emerging 'new' business models and to identify related safety risks posed to the aviation system.

The same approach could be applied to monitor the development of UAM should the Member States request EASA to do so. So far, no actions have been foreseen in this EPAS update.

Managing current and future safety risks arising from new and emerging business models is a strategic priority.

What we want to achieve

Increase safety by continuously assessing and mitigating risks posed by new and emerging business models.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

framework



RES.0028 Extended minimum crew operations — single pilot operations risk assessment

Development of the risk assessment framework to assess the main hazards associated with the proposed concepts for reduced crew operations or single-pilot operations, investigation of hazard mitigations and means to perform compliance demonstrations.

Status	Ongo	ing		
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	Aircraft opera	itors (CAT), flight crew, cabin c	rew, POA holders, DOA holders
Owner	Dwner EASA SM.2 Strategy & Programmes Department and CT Certification Directorate			
			PLANNING MILESTONE	ES
Starting date			Interim Report	Final Report
2021 Q1		•	2022	2024
			CHANGES SINCE LAST EDI	TION
Affected stakehol	ders upo	dated	-	

15.1.2 New products, systems, technologies and operations

Issue/rationale

This section addresses the introduction of new designs, technologies or types of operation for which regulatory updates are needed, and highlights some of the most relevant trends that will influence aviation in the years to come.

What we want to achieve

Manage the safe introduction of new products, systems, technologies and operations and continuously assess and mitigate safety risks related to new designs, technologies or types of operation.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

RMT.0731 **New air mobility**

The current European regulatory framework for aviation safety has initially been designed for conventional fixed wing aircraft, rotorcraft, balloons and sailplanes. The existing framework relies on active contribution of human beings, increasingly assisted by automation, be it on board or on the ground. Propulsion is mostly provided by piston or turbine engines using fossil fuels.

The introduction of new technologies and air transport concepts (from multi-modal vehicles to autonomous vehicles) requires revisiting this framework. The purpose of this RMT is to develop rules or amend existing ones, where necessary, to address new technologies and operational air transport concepts, with the objective of adapting the regulatory framework in line with performance-based regulation (PBR) principles. A general principle that will govern this RMT is that future requirements should be technology-neutral where possible, while ensuring legal certainty.

This RMT leads to different streams of activities. A first stream was defined in 2019 in the field of continuing airworthiness requirements for electric and hybrid propulsion, indicated here below as Subtask 1. Based on current certification projects where the regulatory framework needs to be adapted (except for initial airworthiness), two other streams are now foreseen: gyroplanes and tilt rotors after the BIS consultations. Airships is a candidate for a future stream after the BIS consultation.

Potentially, more streams to cover other future projects will be added, including the development of CSs based on experience gained in certification projects applying SCs such as for VTOL or electric and hybrid propulsion.

Subtask 1:

Electric and hybrid propulsion: Continuing airworthiness requirements for electric and hybrid propulsion for all types of aircraft. It covers also conventional aircraft which are not addressed in the current CAW rules (gyroplanes, tilt rotors, airships). The activities in the context of this subtask are coordinated with those of RMT.0230.

Notes:

- * e-VTOL electric propulsion aspects related to ADR, ATM, FCL, OPS domains are addressed through RMT.0230.
- * A first set of FCL and OPS electric and hybrid propulsion-related requirements for other aircraft types are addressed through RMT.0678 (FCL) and RMT.0573 (OPS) respectively.

Subtask 2:

Gyroplanes: FCL and OPS regulations to be amended. Related to a current certification project of a gyroplane being also a road vehicle, this subtask will also cover the regulatory aspects of aircraft being multi-modal vehicles (road, sea).

Subtask 3:

Tilt rotors: FCL, FSTD and OPS regulations to be amended.

Subtask 3 is also planned to include the development of an ECQB for airship pilot licences.

Status	Ongoing				
SIs/SRs	n/a				
Reference(s)	BIS 'Electric and I	nybrid propulsion'; BI	S 'Road / gyrop	lanes'; BIS 'Tilt-rotors'	
Dependencies	RMT.0230; RMT.0	0678; RMT.0573.			
Affected stakeh	olders	All			
Owner		EASA SM.2	Strategy & Pr	ogrammes Department	
Priority	Yes	RM Procedure	ST	Harmonisation	No



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RMT.0731	New air mobility — continued							
	PLANNING MILESTONES							
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1	RMT.0731 09/09/2020	2021 Q4	2023	2024	2024			
2	n/a	2021-12 15/11/2021	2023	2024	2024			
3	n/a	tbd	tbd	tbd	tbd			

CHANGES SINCE LAST EDITION

Update of references. RMT.0266 and RMT.0300 are merged in this RMT.

Subtask 3 now also addresses the topics previously included within RMT.0587 as relevant to the development of ECQB for airship pilot licences.

Assessment for the provision of flight instruction outside FSTD (Off-board instructor OBIS)

Perform an independent assessment of the concept(s) for the provision of flight instruction outside FSTD, with a focus on the comparative analysis between traditional FSTD initial and recurrent training (flight instructor physically present) and when delivering such training from outside.

The study covers a literature review on the performance of delivering complex training tasks with emphasis on identifying any human factors issues.

The conduct of a series of initial and recurrent FSTD training sessions to support the comparative analysis involving an appropriate distribution of FSTD instructors (synthetic flight instructor (SFI) and type rating instructor (TRI)) with different levels of experience.

Status	New					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a			***************************************		
Affected stakeho	olders	ATOs (flight c	rew), aircraft operators (CA ⁻	T, NCC), NCAs		
Owner		EASA SM.2 Strategy & Programmes Department				
			PLANNING MILESTO	NES		
Starting date	•		Interim Report	Final Report		
2020 Q4		n/a 2022		2022		
			CHANGES SINCE LAST E	DITION		
n/a						
		.				

RES.0046 Digital transformation — case studies to prepare the evolution of aviation standards

Investigate the changes and evolutions of aviation standards required to support the entry into service of new digital technologies for aviation, through the performance of specific case studies.

Status	New			
SIs/SRs	n/a			
Reference(s)	n/a			
Dependencies	n/a			
Affected stakeho	olders	OEMs, solutio	n developers, aircraft and	drone operators, MOs, TOs, NCAs
Owner	wner EASA SM.2 Strategy & Programmes Department			
			PLANNING MILESTO	ONES
Starting date			Interim Report	Final Report
2022 Q1			n/a	2024 Q4
			CHANGES SINCE LAST	EDITION
n/a				

RES.0051 Electric aircraft and hybrid propulsion

Assess the feasibility, the environmental benefits and the certifiability of proposed designs for aircraft propulsion systems with integrated hybrid/electric engines and power generation architectures as well as sub-systems' enablers.

The action is realised through a series of projects funded by the EU Horizon 2020 programme; further information is available at:

IMOTHEP: https://cordis.europa.eu/project/id/875006 FUTPRINT50: https://cordis.europa.eu/project/id/875551 https://cordis.europa.eu/project/id/875504 EASIER: MAHEPA: https://cordis.europa.eu/project/id/723368 TRANSCEND: https://cordis.europa.eu/project/id/864089

Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeh	olders	Air operators,	design organisations, NCAs		
Owner		EASA SM.2	EASA SM.2 Strategy & Programmes Department		
			PLANNING MILESTON	IES	
Starting date		Interim Report		Final Report	
2022 Q4		n/a 2023 Q4		2023 Q4	
			CHANGES SINCE LAST ED	ITION	
n/a					

15.1.3 SESAR deployment

Issue/rationale

This section includes relevant EPAS actions to implement the regulatory needs supporting the modernisation of the Single European Sky ATM System, with the exception of SESAR items that are only relevant to UAS (and therefore are included in Chapter 14).

The European-wide harmonised implementation of the AAS architecture requires actions from many actors. The envisioned end-result can only be achieved if all actions are taken in the right order. Not only the synchronisation between regulatory evolution and technical/operational evolution is key, but also interdependencies between various actions need to be respected within the technical/operational evolution and Member States involvement.

What we want to achieve

The rationale behind the following actions is to cater for the regulatory and implementation needs of the SESAR essential operational changes and other new technological advancements (such as, but not limited to, U-space technological solutions, virtualisation, cloud-based architecture and remote tower operations) by enabling the use of new working methods, operational improvements and technologies developed by the SESAR project. Interoperability, civil-military cooperation and international compatibility (such as but not limited to ICAO GANP/ ASBUs and NextGen alignment) will form an integral part of EASA's work. In addition, consolidated and coordinated implementation support activities that facilitate the operational improvements and new ATM operational concepts need to be established.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.

RMT.0524

Data link services

The objective of RMT.0524 is to ensure that the operational improvements associated with the safety and efficiency of communication between ATCOs and pilots via data link are met. Considering the close link with RMT.0161 activities and to benefit from minimum changes to the data link regulation, the task has been divided into the following subtasks:

Subtask 0:

The objective is to update the reference to EUROCAE ED-120 'Safety and Performance Requirements Standard For Initial Air Traffic Data Link Services In Continental Airspace' within Annex III to Commission Regulation (EC) No 29/2009 on data link services (DLS) to take into account the recent ED-120 Change 3.

Subtask 1:

The objective of this Subtask is to address an amendment to CS-ACNS in relation to data link services.

Subtask 2:

The objective of this Subtask is to review the SES interoperability Regulation (EC) No 29/2009 (implementing the repealed Regulation (EC) No 552/2004) to update and adapt it to the EASA framework, including a development of a set of AMC & GM. The resulting regulatory proposal will be consulted jointly with Subtask 2 of RMT.0161.

Subtask 3:

This Subtask intends to establish a first set of EASA detailed specifications based on the existing interoperability DLS rules and the relevant DLS Community Specifications (e.g. based on ETSI EN 303 214). The resulting regulatory proposal will be consulted jointly with Subtask 3 of RMT.0161.

Status	Ongoing						
SIs/SRs	n/a						
Reference(s)	ATM Master Plan Level 3 – Plan (2019): ITY-AGDL – Initial ATC air-ground data link services						
Dependencies	RMT.0161; RMT.0519						
Affected stakeh	olders	NCAs, ANSPs, ADR organisations and		ators, design organisatio	ons, production		
Owner		EASA ED.4	Air Traffic Depart	ment			
Priority	Yes	RM Procedure	See SubT/RMG	Harmonisation	No		
		PLANN	ING MILESTONES				
SubT	ToR	NPA	Opinion	Commission IR	Decision		
O(DP)	RMT.0524 29/01/2018	17/10/2019	06/2019 09/12/2019	2020/208 14/02/2020	n/a		
1(ST)		2022 Q1	n/a	n/a	2023		
2(AP)		2022 Q2	2022 Q3	2023	2023		
3(AP)		2022 Q2	n/a	n/a	2023		

CHANGES SINCE LAST EDITION

Change of the rulemaking procedure for Subtask 2 and Subtask 3. Change of the task description.

RMT.0624 Remote aerodrome air traffic services

The development and introduction of new technologies enables the provision of aerodrome ATS (aerodrome ATC service or aerodrome FIS) from geographically independent locations/facilities that are equipped with visual surveillance systems instead of direct visual observation.

As a follow-up of the substantial work undertaken to produce, develop and further expand soft law on remote aerodrome ATS provision, EASA intends to maintain its regulatory framework up to date with the evolution of the remote/virtual tower concept. The purpose of RMT.0624 remains to support the safe implementation of the newest development of the provision for this type of ATS.

Status	Ongoing							
SIs/SRs	n/a	n/a						
Reference(s)	ATM Master Pla	ın (Level 3 Ed 2019) ac	tion AOP14 (Remo	ote Tower Services)				
Dependencies	n/a	n/a						
Affected stakeh	olders	NCAs, ANSPs and A	ADR operators					
Owner		EASA ED.4	Air Traffic Dep	artment				
Priority	Yes	RM Procedure	ST/RMG	Harmonisation	No			
		PLANNI	NG MILESTONES	5				
SubT	ToR	NPA	Opinion	Commission IR	Decision			
1	RMT.0624 11/12/2019	2022 Q2	n/a	n/a	2023			
		CHANGES S	SINCE LAST EDIT	ION				
n/a		-						

RMT.0682 Implementation of the regulatory needs in support of the SESAR deployment

The objective of the task is the development of the regulatory enablers and promotion material, as required to facilitate the safe, efficient, interoperable and timely deployment of the operational improvements based on SESAR solutions stemming from the European ATM MP, the AAS as well as the associated recommendations from the WPGR.

For this purpose, this task addresses those issues which are not covered by other specific RMTs.

The objective of the initial subtask is detailed as follows:

Subtask 1:

An amendment to Regulation (EC) No 1322/2011 (ACAS IR) to permit the operation of aeroplanes equipped with either ACAS II version 7.1 or ACAS Xa within the European airspace and an amendment to Regulation (EU) 2018/1048 'PBN IR' to potentially address:

- provision of LNAV/VNAV, LPV and LNAV Minima at aerodromes to which the only aircraft operating there are not capable of LNAV/VNAV operations;
- operations in 'oceanic' airspace associated with the use of a navigation specification that has been developed specifically for use in oceanic and remote applications in lieu of the RNAV 5 specification.

Status	Ongoing						
SIs/SRs	n/a	n/a					
Reference(s)		This RMT considers the recommendations stemming from the WPGR and the AAS and supports eight of the EOCs of the ATM MP fourth edition.					
Dependencies	RMT.0161						
Affected stakeh	nolders		, ,,	t operators; ADR operato ember States (MSs); NCA:			
Owner		EASA ED.4	Air Traffic Depa	rtment			
Priority	No	RM Procedure	Accelerated	Harmonisation	No		
		PLANNI	ING MILESTONES				
SubT	ToR	NPA	Opinion	Commission IR	Decision		
(1)AP	RMT.0682 10/12/2019	2022 Q2	2023	2024	2024		
		CHANGES !	SINCE LAST EDITIO)N			
Update of the ta	sk description. Cl	hange in RM procedur	e.				

SPT.0108 Promotion of the new European provisions on performance-based navigation and the associated ATM Master Plan essential operational changes

The objective is to complement Regulation (EU) 2018/1048 with respect to airspace usage requirements and operating procedures concerning performance-based navigation with relevant promotion material.

The task is supported with the following publication:

https://www.easa.europa.eu/community/topics/performance-based-navigation

Status	Ongoing		
SIs/SRs	n/a		
Reference(s)	n/a		
Dependencies	n/a		
Affected stakeholders		ANSPs, ADR operator	s, aircraft operators, procedure designers, Network Manager
Owner		EASA ED.4	Air Traffic Department
		EXP	ECTED OUTPUT
Deliverable(s)	•		Timeline
Safety promotion	material	•	2022
		CHANGES	SINCE LAST EDITION
n/a			

15.1.4 All-weather operations (AWOs)

Issue/rationale

AWOs are currently addressed by regulations in the following aviation domains: airworthiness, air operations, aircrew, aerodromes, ATM/ANS as well as in the standardised European rules of the air (SERA). The existing rules in these domains have a number of deficiencies that need to be addressed. Work on AWOs will allow to sufficiently address technological advancements, align with the ICAO SARPs (e.g. ICAO Annex 6 amendments introducing lower category (CAT) II and CAT III minima and the concept of operational credits, in particular for operations with vision systems), increase consistency of rules across different domains, carry out cross-domain risk assessments, ensure that better weather information is provided to pilots, as well as harmonise with the FAA and other regulators.

What we want to achieve

The European industry should be enabled to take full advantage of safety and economic benefits generated through new technologies and operational experience.

How we monitor improvement

Continuous monitoring of safety issues related to AWOs will be ensured on the basis of the CAT Safety Risk Portfolio for CAT by aeroplane & NCC operations. The EASA ABs regularly provide feedback on the effectiveness of the activities.

How we want to achieve it: actions

RMT.0379 All-weather operations

Subtask 1a reviews and updates the AWO rules in all aviation domains, as regards:

- possibility of applying safety performance principles in the redrafting of current rules with the aim of allowing a better integration of new and future technologies supporting AWOs, as e.g. enhanced flight vision systems (EFVSs), synthetic vision systems (SVSs), synthetic vision guidance systems (SVGSs), combined vision systems (CVSs), head-up displays (HUDs);
- conventional low-visibility operations (LVOs), such as instrument landing system (ILS)-based CAT II and CAT III approach operations or low-visibility take-offs (LVTOs);
- operations other than LVOs, such as CAT I operations using ILS, GLS or SBAS, or approach operations to higher minima using area navigation (RNAV)(GNSS), non-directional beacons (NDBs) or very high frequency (VHF) omnidirectional ranges (VORs);
- miscellaneous items, such as the improvement of existing rules text and the transposition of the new ICAO approach classification;
- harmonisation with bilateral partners (e.g. FAA) to the extent possible;
- introduction of operations with operational credits such as the newly introduced SA CAT I⁶² that are not yet part of the ICAO regulatory system.

Recommendations and consequent follow-up actions to the Weather Information to Pilots Strategy Paper, also an outcome of RMT.0379, are now being taken forward as a stand-alone project.

Subtask 1b will address CS-AWO.

Subtask information reviewed

Subtask 2 will address AWOs for helicopters.

Subtask 3 will address AWO changes to Part-NCO.

Status	Ongoing	Ongoing							
SIs/SRs	SR FRAN-2013-0	SR FRAN-2013-032; SR NETH-2014-003							
Reference(s)	n/a	n/a							
Dependencies	n/a								
Affected stakeholders POA holders, air operators, ATOs, ADR operators and ATM/ANS providers									
Owner	Owner EASA FS.2			Department					
Priority	Yes	RM Procedure	ST	Harmonisation	Yes				
		PLANNI	NG MILESTONES						
SubT	ToR	NPA	Opinion	Commission IR	Decision				
1a	RMT.0379 09/12/2015	2018-06 13/07/2018	02/2021 28/05/2021	2022 Q2	2022 Q2				
1b		n/a	n/a	n/a	2021 Q4				
2		2019-09 12/09/2019	02/2021 28/05/2021	2022 Q2	2022 Q2				
3		2020-02 07/02/2020	02/2021 28/05/2021	2022 Q2	2022 Q2				
CHANGES SINCE LAST EDITION									

62 Special authorisation CAT I represents a type of LVOs with operational credits with the following provisions:

the decision height (DH) of an SA CAT I operation should not be lower than the highest of the minimum DH specified in the AFM (if stated), the applicable obstacle clearance height (OCH) for the category of aeroplane, the DH to which the flight crew is qualified to operate; or 150 ft; and

[—] the lowest RVR minima to be used are specified versus the approach lighting system used and are typically between 400 and 700 m.



SPT.0114 Promote the availability of enhanced meteorological information and up-link connectivity

Help to mitigate the risks of weather-related occurrences through the promotion of the availability of enhanced meteorological information and up-link connectivity to support in-flight updates of meteorological information to airlines, ANSPs and other relevant organisations.

Status	Ongoing	}	
CI-/CD-	SI-0001	Icing in flight	
SIs/SRs	SI-4008	Intentional low flying	
Reference(s)	EASA BIS	6 'Weather Information to Pilots (CAT-Fixed Wing)'
Dependencies	SPT.0119)	
Affected stakeho	olders	Aircraft operators, pilots, AN	ISPs
Owner		EASA SM.1	Safety Intelligence & Performance Department
		EXPECTED	ОИТРИТ
Deliverable(s)	•		Timeline
Web material, vid	eos, social	media and outreach events	2022 Q4
		CHANGES SINCE	LAST EDITION
n/a		***************************************	

15.2 Efficiency/proportionality

Digital licence for aviation pilots (dLAP) **RMT.0737**

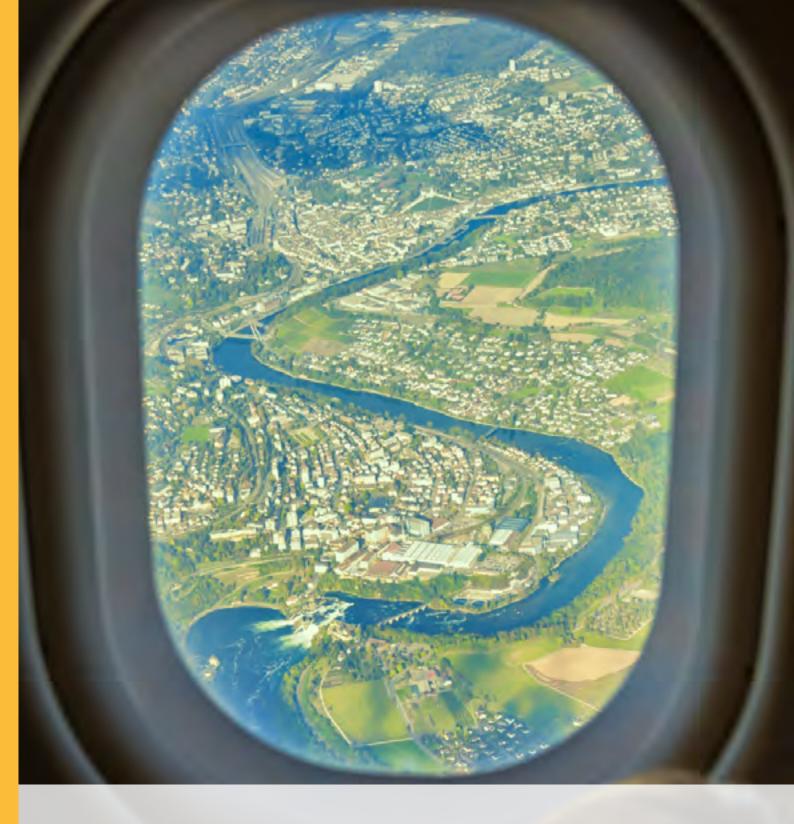
The main objective of this task is to develop the requirements for the introduction of a digital licence for aviation pilots ('dLAP') into Regulation (EU) No 1178/2011 ('the Aircrew Regulation'). RMT.0737 incorporates the upcoming amendment to ICAO Annex 1 regarding implementing an electronic personnel licensing system which is envisaged for applicability from 3 November 2022.

RMT.0737 will also:

- mitigate the uncertainties on the financing of the introduction of dLAP by building a financially sustainable solution, to the benefit of NCAs, industry, pilots and EASA;
- propose rule changes to the Aircrew Regulation to ensure the establishment of a common single EU digital licensing format, based on the proposed ICAO electronic pilot licence (EPL) format, with international recognition and displaying the issuing NCA;
- combine pilot licences and medical certificates issued from all EASA Member States into the display of a common and unique EU digital pilot licensing format, instantly updatable on self-contained mobile electronic devices:
- interface with the national pilot licensing systems from EASA Member States to ensure data integrity and immediate enforcement of NCAs' decisions and approvals;
- quarantee interoperability of the EU digital pilot licence between different issuing and verifying NCAs, including their examiners and training organisations, and enhance the standardisation of examiners;
- provide a single EU digital pilot licence verification system which is accessible in both online and offline modes, while protecting the confidentiality and privacy of user data;
- maintain a competitive EU market for digital solutions and support efficient e-administration.

This RMT is coordinated with ICAO.

Status	New					
SIs/SRs	n/a					
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeholders Pilots, ATOs, DTOs, aircraft operators, examiners, AMEs, AeMCs, NCAs						
Owner		EASA FS.3	Aircrew & Med	dical Department		
Priority	Yes	RM Procedure	ST Harmonisation Yes			
		PLANNI	NG MILESTONES	5		
SubT	ToR	NPA	Opinion	Commission IR	Decision	
1	2022 Q1	2022 Q3	2023	2024	2024	
		CHANGES S	SINCE LAST EDIT	ION		
Affected stakeho	lders defined					



16. Environmental protection

16. Environmental protection

Environmental protection and sustainability are key challenges for the aviation industry, Member States, the EC and EASA. Sustainable aviation is about combatting climate change and reducing the health effects from aircraft noise and air pollution. This needs to be considered in the global context in order to ensure a level playing field such that European industry remains competitive in a rapidly changing world. Environmental standards are key to achieving this.

EASA is helping tackle the challenge of ensuring a cleaner, quieter and more sustainable future for the aviation system, including supporting the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA).

The information below reports on the status of environmental standards. For the full picture, including stakeholder actions and market-based measures, see the European Aviation Environmental Report (EAER), which provides an overview of the historic, current and forecasted environmental performance of the European aviation sector.

In February 2019 the ICAO Committee on Aviation Environmental Protection (CAEP) agreed on a new nvPM emissions standard and proposed improvements to the existing noise, aircraft engine emissions and aeroplane CO_2 emissions standards and guidance. As European environmental standards are defined by reference to ICAO standards, the agreed updates to the environmental standards as well as guidance will need to be incorporated into the European regulatory framework in order to be implemented in Europe.

The actions to implement ICAO standards in Europe will be adjusted and detailed once the outcome of the ICAO adoption process is communicated in the final version of the ICAO State Letters.

16.1 Noise, local air quality and climate change standards

Issue/rationale

Implement the ICAO Annex 16 Volume I, Volume II and Volume III standards in Europe.

What we want to achieve

Align the:

- Basic Regulation;
- Implementing Rules (Regulation (EU) No 748/2012);
- AMC & GM to the Implementing Rules; and
- CS-34, CS-36 and CS-CO₃.

with the ICAO SARPs and guidance material resulting from the latest CAEP work cycle.

How we monitor improvement

Continuous monitoring of the ICAO adoption process.

Continuous monitoring of the ICAO/CAEP work related to Annex 16 Volume I, Volume II and Volume III.

Monitoring of the aviation environmental impact through the EAER.

How we want to achieve it: actions

RMT.0514 Implementation of the CAEP amendments

This task deals with the implementation of the CAEP/11 ICAO SARPs (started in 2020 (Subtask 1)) and will align the:

- Basic Regulation;
- Implementing Rules (Regulation (EU) No 748/2012);
- AMC & GM to the Implementing Rules; and
- CS-34, CS-36 and CS-CO₂,

with the ICAO SARPs and guidance material resulting from the CAEP/11 work cycle. This Subtask was finalised though Decision 2021/011/R.

Under Subtask 2 EASA will address the implementation of the CAEP/12 ICAO SARPs.

The implementation of the CAEP/10 ICAO SARPs (RMT.0513 and RMT.0514) was finalised under Subtask 0 for the AMC & GM to Part 21 and for CS-34, CS-36 and CS-CO₂ through Decisions 2019/014/R, 2019/015/R and 2019/016/R.

Status	Ongoing							
SIs/SRs	n/a							
Reference(s)	Basic Regulatio CS-CO ₂	Basic Regulation Article 9, Regulation (EU) No 748/2012, AMC &GM to Part 21, CS-34, CS-36 and CS-CO ₂						
Dependencies	n/a							
Affected stakeh	olders	olders DOA holders, POA holders						
Owner		EASA CT.4	Environment &	Propulsion Systems Depa	artment			
Priority	Yes	RM Procedure	ST	Harmonisation	No			
		PLANNI	NG MILESTONES					
SubT	ToR	NPA	Opinion	Commission IR	Decision			
0	RMT.0514 13/06/2016	2017-01 17/01/2017	09/2017 07/11/2017	2019/897 ⁶³ 12/03/2019	2019/014/R 2019/015/R 2019/016/R 29/07/2019			
1		2020-06 16/03/2020	03/2020 09/10/2020	2021/1087; 2021/1088 ⁶⁴ 07/04/2021	2021/011/R 14/07/2021			
2	n/a	2023	2024	2025	2025			
		CHANGES S	SINCE LAST EDITIO	ON				
n/a								

⁶³ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32019R0897&qid=1608114728978

⁶⁴ https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32021R1088

VOLUME II - 16. ENVIRONMENTAL PROTECTION

RMT.0733 Environmental protection requirements for supersonic transport aeroplanes

This RMT will deal with the development of environmental protection certification requirements for SSTs, including landing-and-take-off (LTO) noise requirements and CO, emission requirements. In the absence of environmental protection standards from ICAO for those areas mentioned above, the definition of environmental protection certification requirements for SSTs is based on the essential requirements for environmental compatibility set out in Article 9(2) of and Annex III to the Basic Regulation.

EASA will publish an advance NPA (A-NPA) in 2022 to present the approach to measure landing/take-off noise and emissions and gather feedback from stakeholders. Once the concept matures, the regulatory framework will be adapted as necessary. Based on the outcome of the A-NPA, timelines on deliverables for this task will be established and communicated.

Status	Ongoing				
SIs/SRs	n/a				***************************************
Reference(s)	n/a				
Dependencies	RES.0025, RMT.07	² 7			
Affected stakeholders SST airframe and engine manufacturers, Member States					s, SST operators
Owner		EASA CT.4	Environment	& Propulsion Systems Depa	artment
Priority	Yes	RM Procedure	ST	Harmonisation	No
		PLANNII	NG MILESTONE	:S	
SubT	ToR	NPA	Opinion	Commission IR	Decision
1	2021 Q4	2022 Q2 (A-NPA)	tbd	tbd	tbd
		CHANGES S	INCE LAST EDI	TION	
n/a					

RES.0024 Assessment of environmental impacts — engine emissions

Development of extended and more robust standards for the purpose of supporting the assessment of engine emissions. The emphasis shall be on robust methods for nvPM mass and number determination including, notably, particle size measurement and sampling techniques, consideration of the effect of both ambient conditions and volatile PM, and sensitivity and uncertainty analyses. The research action will be funded through H2020; contracting and technical management has been delegated to EASA by the EC.

Status	Ongo	ing			
SIs/SRs	n/a				
Reference(s)	Enviro	onmental Resear	rch - Engine Emissions EASA	(europa.eu)	
Dependencies	n/a		***************************************	***************************************	
Affected stakeho	lders	DOA holders,	air operators (CAT)		
Owner		EASA SM.2	Strategy & Programmes D	epartment	
			PLANNING MILESTON	ES	
Starting date	•	•	Interim Report	Final Report	
2020 Q3	•		n/a	2024 Q3	
			CHANGES SINCE LAST ED	ITION	
Addition of refere	nce	***************************************	-		

RES.0025 Assessment of environmental impacts — rotorcraft noise

Development of extended and more robust standards for the purpose of supporting the assessment of aircraft noise footprints.

The focus will be to:

- extend Noise Related Annoyance, Cognition, and Health (NORAH) noise propagation modelling capabilities, e.g. to account for urban environment, for varied terrain and vegetation, and weather effects;
- enhance NORAH source modelling capabilities, covering a wider range of flight conditions than that available in the noise database;
- prepare for the rotorcraft noise tests, including optimisation and update of the generic noise test plan to cover additional flight modes (e.g. hover), identification and prioritisation of the rotorcraft for the noise tests (including EVTOL) ensuring a good coverage of the European fleet, investigation of the availability and costs for renting rotorcraft and test sites;
- expand the helicopter types in the NORAH hemisphere repository by dedicated noise testing;
- implement the revised noise modelling methodology into a new software;
- validate the NORAH modelling method against benchmark data.

Status	Ongoi	ing		
SIs/SRs	n/a			
Reference(s)	https:/	//www.easa.eur	opa.eu/research-projects/env	ironmental-research-rotorcraft-noise
Dependencies	n/a		•	
Affected stakeho	olders	DOA holders	and organisations intending to	o develop new aircraft concepts (VTOL, SST, etc.)
Owner		EASA SM.2	Strategy & Programmes De	epartment
			PLANNING MILESTONI	ES
Starting date			Interim Report	Final Report
2020 Q2	•		n/a	2024 Q2
			CHANGES SINCE LAST EDI	TION
Addition of refere	nce			

RES.0049 Non-CO₂ emissions: assessment of climate impact and policy options

- Consolidation of scientific knowledge and reduction in uncertainties related to the climate impact of aviation non-CO, emissions
- Support the coordination of ongoing and planned research initiatives addressing the scientific knowledge gaps and the identified mitigations to the climate impact

Enhanced quantification methods and tools used for non-CO₂ emission inventories, environmental impact assessment and policy option evaluation.

Status	New					
SIs/SRs	n/a			•		
Reference(s)	n/a					
Dependencies	n/a					
Affected stakeho	olders	Aircraft manu	facturers and OEMs, a	ir operators, ANSPs,	CAs	
Owner		EASA SM.2	Strategy & Program	mes Department		
			PLANNING MILI	STONES		
Starting date			Interim Report	Fi	inal Report	
2022 Q4		n/a		2	027 Q1	
			CHANGES SINCE LA	ST EDITION		
n/a						

RES.0052 Noise / emission standards for supersonic aircraft

Develop deepened understanding and detailed modelling for the emissions, the noise levels including sonic boom, landing and take-off phases, and the global environmental impact of supersonic aircraft.

Contribute to the development of international standards for supersonic flights.

The action is realised through a series of projects funded by the EU Horizon 2020 programme; further information is available at:

SENECA project: https://cordis.europa.eu/project/id/101006742 MOREandLESS: https://cordis.europa.eu/project/id/101006856

		·			
Status	New				
SIs/SRs	n/a				
Reference(s)	n/a				
Dependencies	n/a				
Affected stakeholders		Aircraft manu	facturers and OEMs, air oper	ators, NCAs	
Owner		EASA SM.2	Strategy & Programmes D	epartment	
			PLANNING MILESTON	ES	
Starting date			Interim Report	Final Report	
2021 Q1			n/a	2024 Q3	
			CHANGES SINCE LAST ED	ITION	
n/a	•				

In addition to the above, the following RMT is also relevant:

RMT.0727

Alignment of Part 21 with Regulation (EU) 2018/1139 (including simple and proportionate rules for General Aviation)

The full description for this action is included in **Chapter 9**.

16.2 Market-based measures

Issue/rationale

The adoption of the Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA) by ICAO in 2016 was the first time a single industry sector agreed to a global market-based measure in the field of climate action. It is forecast that CORSIA will mitigate around 2.5 billion tonnes of CO_2 between 2021 and 2035, making CORSIA one of the largest carbon pricing instruments in the world in terms of greenhouse gas emissions coverage.

The CORSIA monitoring, reporting and verification system, which started on 1 January 2019, is important as it will establish the emissions baseline from which growth will be measured for the first carbon offsetting obligations in 2021.

At the time of writing 88 States have volunteered to start offsetting their CO_2 emissions under CORSIA from January 2021⁶⁵; others will follow in 2027 when the scheme becomes mandatory.

What we want to achieve

Support the preparation of the CORSIA implementation through the development of standard methods and tools for the assessment of global emission units and the related offsetting requirements.

How we monitor improvement

The EASA ABs regularly provide feedback on the effectiveness of the activities.



How we want to achieve it: actions

RES.0026 Market-based measures (ETS⁶⁶ and CORSIA)

Extension and update of existing capabilities for assessment of market-based measures (e.g. EU Emissions Trading System (ETS) and ICAO CORSIA), notably to cater for new traffic data and forecasts, handling of novel scenarios and measures, ensuring their fitness for purpose and credibility for supporting critical policy-making both at European (EC, Member States) and international (ICAO) level.

Status	Ongo	ing		
SIs/SRs	n/a			
Reference(s)	https:	//www.easa.eurc	pa.eu/research-projects	/environmental-research-market-based-measures
Dependencies	n/a			
Affected stakeho	olders	Air operators		
Owner		EASA SM.2	Strategy & Programm	es Department
			PLANNING MILES	TONES
Starting date			Interim Report	Final Report
2020 Q2			n/a	2024 Q2
			CHANGES SINCE LAST	EDITION
Addition of refere	nce			-

Appendix A: Deliverables published in 2021

Opinions and Decisions delivered in 2021.

Title of official publication	Date	Task Number	Task Title
Opinion No 01/2021	22/02/2021	RMT.0719 & RMT.0681	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — Occurrence-reporting requirements and requirements for meteorological services & Alignment of implementing rules and AMC & GM with Regulation (EU) No 376/2014
Opinion No 02/2021	28/05/2021	RMT.0379	All-weather operations
Opinion No 02/2021	28/05/2021	RMT.0599	Update of Subpart FC of Part-ORO (evidence-based training)
Opinion No 03/2021	11/06/2021	RMT.0720	Management of information security risks
Opinion No 04/2021	16/09/2021	RMT.0734	One continuing airworthiness management organisation (CAMO) for airline business groups
Opinion No 05/2021	21/09/2021	RMT.0727	Alignment of Part 21 with Regulation (EU) 2018/1139 (including simple and proportionate rules for General Aviation) — 'Part 21 Light' (Phase I)

ED Decision 2021/001/R	02/03/2021	RMT.0031	Update of the AMC and GM to Part 21 — Issue 2, Amendment 11
ED Decision 2021/002/R	02/03/2021	RMT.0599	Update of the AMC & GM to Subpart FC of Part-ORO (evidence-based training (EBT))
ED Decision 2021/003/R	04/03/2021	RMT.0703	AMC & GM to Regulation (EU) No 139/2014 — Issue 1, Amdt 5 Runway safety
ED Decision 2021/004/R	04/03/2021	RMT.0703	CS-ADR-DSN – Issue 5 Runway safety
ED Decision 2021/005/R	23/04/2021	RMT.0249 RMT.0271 RMT.0276 RMT.0296	Update of the Acceptable Means of Compliance and Guidance Material to Regulation (EU) No 965/2012 — Aeroplane performance, PBS, oxygen equipment, medical equipment, recorders, technical records, non-ETOPS operations, ground de-icing/anti-icing procedures
ED Decision 2021/006/R	23/04/2021	RMT.0695	AMC-20 Amendment 21 — Extended range operation with two- engine aeroplanes ETOPS certification and operation

VOLUME II - APPENDIX A: DELIVERABLES PUBLISHED IN 2021

Title of official publication	Date	Task Number	Task Title
ED Decision 2021/007/R	28/05/2021	RMT.0018 RMT.0225 RMT.0252	ICAs — Installation of parts and appliances that are released without an EASA Form 1 or equivalent — Ageing aircraft structures
ED Decision 2021/008/R	31/05/2021	RMT.0400	Amendment of requirements for flight recorders and underwater locating devices — Certification specifications, acceptable means of compliance, and guidance material for locating an aircraft in distress
ED Decision 2021/009/R	15/06/2021	RMT.0018 RMT.0252	ICAs — Installation of parts and appliances that are released without an EASA Form 1 or equivalent
ED Decision 2021/010/R	16/06/2021	RMT.0249 RMT.0713	CS-27 Amendment 8 & CS-29 Amendment 9 'Installation and maintenance of recorders — certification aspects' & 'Human factors in rotorcraft design'
ED Decision 2021/011/R	14/07/2021	RMT.0514	Implementation of the CAEP amendments to ICAO Annex 16 Volumes I, II, and III — CAEP/11
ED Decision 2021/012/R	16/09/2021	RMT.0509	Regular update of CS-FCD — CS-FCD Issue 2
ED Decision 2021/013/R	16/09/2021	RMT.0037	Regular update of CS-22 — CS-22 Amendment 3
ED Decision 2021/014/R	25/11/2021	RMT.0476	Regular update of the standardised European rules of the air - Introduction of radiotelephony phraseologies for the provision of aerodrome flight information service
ED Decision 2021/015/R	06/12/2021	RMT.0296 RMT.0673	Review of aeroplane performance requirements for air operations and Regular update of CS-25

Appendix B: Deliverables expected in 2022

ToR:

Driver	Baseline Quarter	Task Number	Task Title	No
	1	RMT.0737	Digital licence for aviation pilots (dLAP)	1
	2	RMT.0735	Regular update of the CAW regulation	1
TOTAL				2

Art.15 (direct publication) / Art.16 (accelerated procedure):

Driver	Baseline Quarter	Task Number	Task Title	No
	1	RMT.0720	Management of information security risks – SubT 2	1
	1	RMT.0722	Provision of digital aeronautical data by the aerodrome operator	1
	2	RMT.0682	Implementation of the regulatory needs in support of the SESAR deployment	1
\ <u>\</u>	2	RMT.0728	Development of requirements for groundhandling	1
	3	RMT.0732	Repository of aviation-related information (Article 74 of the Basic Regulation)	1
	1	RMT.0287	Updating Part-MED and related AMC & GM — SubT 2b	1
	1	RMT.0476	Regular update of the standardised European rules of the air (stemming from ICAO SL) – SubT 4	1
	1	RMT.0587	Regular update of regulations regarding pilot training, testing and checking and the related oversight	1
	1	RMT.0719	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — SubT 4a	1
	1	RMT.0736	Regular update of the Third-Country Operator Regulation	1
	2	RMT.0161	Conformity assessment – SubT 2 & 3	1

TOTAL 11

NPA / A-NPA:

Driver	Task Number	Task Title
	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT C1
	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT D3
	RMT.0524	Data link services – SubT 1 & 2
	RMT.0544	Review of Part-147
	RMT.0624	Remote aerodrome air traffic services
	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT F1
	RMT.0710	Improvement in the survivability of rotorcraft occupants in the event of a crash
	RMT.0711	Reduction in accidents caused by failures of critical rotor and rotor drive components through improved vibration health monitoring systems
	RMT.0161	Conformity assessment – SubT 1
	RMT.0476	Regular update of the standardised European rules of the air (stemming from ICAO SL) — SubT 1 & 2
	RMT.0180	Turbine engine endurance and initial maintenance inspection testing, and piston engine time between overhauls substantiation
	RMT.0392	Regular update of air operation rules
	RMT.0591	Regular update of aerodrome rules
	RMT.0668	Regular update of air traffic controller licencing rules (IRs and AMC $\&$ GM) – SubT 3 $\&$ 4
	RMT.0719	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — SubT 4b & 5
	RMT.0031	Regular update of AMC & GM to Part 21
	RMT.0184	Regular update of CS-E
	RMT.0673	Regular update of CS-25
	RMT.0737	Digital licence for aviation pilots (dLAP)
	RMT.0733	Environmental protection requirements for supersonic transport aeroplanes

VOLUME II - APPENDIX B: DELIVERABLES EXPECTED IN 2022

Decision:

Driver	Baseline Quarter	Task Number	Task Title	No
	1	RMT.0709	Prevention of catastrophic accidents due to rotorcraft hoists issues	1
	2	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT B	1
	4	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT D3	1
	4	RMT.0230	Introduction of a regulatory framework for the operation of drones – SubT E1	1
	1	RMT.0457	Regular update of CS-ETSO	1
	1	RMT.0519	Regular update of CS-ACNS	1
	1	RMT.0591	Regular update of aerodrome rules	1
	1	RMT.0687	Regular update of CS-23	1
	1	RMT.0688	Regular update of CS-SIMD	1
	1	RMT.0690	Regular update of CS-STAN	1
	2	RMT.0643	Regular update of AMC-20	1
	2	RMT.0719	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — SubT 2	1
	4	RMT.0719	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) — SubT 4b	1
TOTAL				13

Opinion:

Opinion	Domain	Task Number	Task Title Affected regulation(s)
1	0	RMT.0255	Review of Part-66 Affected regulation: No 1321/2014
2		RMT.0719	Regular update of air traffic management/air navigation services rules (IRs and AMC & GM) – (SubT 4a: ATS and AIS rules) Affected regulation: 2017/373; possibly also No 923/2012
3		RMT.0668	Regular update of air traffic controller licencing rules (IRs and AMC & GM) — military ATCOs - SubT 1 & 2 Affected regulation: 2015/340
4		RMT.0161	Conformity assessment SubT 1: establish EU regulatory framework & SubT 2: SES interoperability rules) Affected regulations: No 552/2004; No 1032/2006; No 262/2009; No 1207/2011
		RMT.0524	Data link services – (SubT 2: SES interoperability) Affected regulation: No 29/2009
5		RMT.0476	Regular update of the standardised European rules of the air (stemming from ICAO SL) — SubT 1: amend the IRs and AMC & GM & SubT 2: SID/STAR phraseologies & SubT 4: SST Affected regulations: No 923/2012; 2017/373
6		RMT.0736	Regular update of the Third-Country Operator regulation Affected regulation: No 452/2014
7		RMT.0278	Importing of aircraft from other regulatory systems and Part 21 Subpart H review **Affected regulation: No1321/2014; No 748/2012**
7	5000	RMT.0521	Airworthiness review process Affected regulation: No 1321/2014; No 748/2012

Opinion: - continued

Opinion	Domain	Task Number	Task Title Affected regulation(s)
		RMT.0190	Requirements for relief pilots Affected regulation: No 1178/2011, No 965/2012
0		RMT.0678	Simpler, lighter and better flight crew licensing requirements for general aviation Affected regulation: Regulation: No 1178/2011
8 -		RMT.0196	Update of flight simulation training device requirements Affected regulation: 2018/1974
		RMT.0587	Regular update of regulations regarding pilot training, testing and checking and the related oversight Affected regulation: No 1178/2011

Decision following IR:

Driver	Baseline Quarter	Task Number	Task Title	No
	1	RMT.0573	Fuel/energy planning and management	1
	2	RMT.0251	Embodiment of safety management system requirements into Commission Regulations (EU) Nos 1321/2014 and 748/2012	1
	2	RMT.0379	All-weather operations	1
	3	RMT.0586	Tyre pressure monitoring system	1
	3	RMT.0720	Management of information security risks	1
	4	RMT.0120	Helicopter ditching and water impact occupant survivability	1
	3	RMT.0734	One continuing airworthiness management organisation (CAMO) for airline business groups	1
	4	RMT.0476	Regular update of the standardised European rules of the air (stemming from ICAO SL)	1
TOTAL				8

Appendix C: Overview of new actions, deleted actions, actions on hold and completed actions

New:

Driver	Task Number	Task Title
	RMT.0737	Digital licence for aviation pilots (dLAP)
	SPT.0122	Safe return to operations — Ramp up safely
	SPT.0123	Reinforce the appropriate reactions of flight crew in response to an airborne collision avoidance system (ACAS) resolution advisories (RA)
	SPT.0125	Promotion of the most important safety issues for General Aviation
	MST.0039	Safety promotion to support ramp-up / safe return to operations
	MST.0040	Safety and security reporting coordination mechanism
	RES.0034	Assessment for the provision of flight instruction outside FSTD (off-board instructor OBIS)
	RES.0035	Helicopter under water evacuation
	RES.0036	Risk assessment tool
	RES.0037	Machine learning
	RES.0038	UAS standards
	RES.0039	Vortex ring state prediction and recovery
	RES.0040	Runway micro texture
	RES.0041	Mental health for pilots and ATCOs
	RES.0042	Pilot and ATCO fitness
	RES.0043	Flight control systems verification and air data fault detection
	RES.0044	PED — fire risks when transported in aircraft cabin
	RES.0045	Aerodrome 'Triple One' concept implementation
	RES.0046	$\hbox{Digital transformation} -\hbox{case studies to prepare the evolutions of aviation standards}$
	RES.0047	Fitness to fly in commercial air transport operations of people living with HIV
	RES.0048	Impact of security requirements on operational safety and performance
	RES.0049	Non-CO ₂ emissions: assessment of climate impact and policy options
	RES.0050	Aircraft certification using modelling and numerical simulations
	RES.0051	Electric aircraft and hybrid propulsion
	RES.0052	Noise / emission standards for supersonic aircraft

Deleted:

Driver	Task Number	Task Title	Reason
	RES.0012	Cybersecurity: common aeronautical vulnerabilities database	The research activity had initially been proposed in the EPAS 2019-2023 edition, primarily with the aim of providing a tool for manufacturers and operators to support their analysis and considerations about the airworthiness security aspects of aviation products. In light of the recent progress in the regulatory development (the Part-IS Opinion as a deliverable of RMT.0720), both the scope and the objective of this research activity should be reassessed. In particular, the objective should take into consideration further elements currently under discussion stemming from the Part-IS Opinion, such as the vulnerability scoring and the so-called threshold for reporting. However, due to the still ongoing discussion about the scoring of vulnerabilities, this task is removed from this EPAS edition. The topic will be re-evaluated and an updated version proposed when a consolidated position on the matter will be available and a clear connection to the rule can be made.
	RMT.0686	HP rotor integrity and loss-of-load (due to shaft failure)	This topic has been addressed in the published SC E-20. It is planned to incorporate the content of this SC in CS-E later on, once it is mature via the regular update of CS-E.

On-hold:

Driver	Task Number	Task Title	Domain
	RMT.0706	Update of authority and organisation requirements	Cross- domain
	RES.0021	Research projects aiming to prevent mid-air collision risks	
	RES.0011	Helicopter, tilt rotor and hybrid aircraft gearbox health monitoring — in-situ failure detection	

Completed:

Driver	Task Number	Task Title
	RMT.0271	In-flight recording for light aircraft
	RMT.0296	Review of aeroplane performance requirements for operations
	RMT.0400	Amendment of requirements for flight recorders and underwater locating devices
	RMT.0713	Human factors in rotorcraft design
	RMT.0018	Installation of parts and appliances that are released without an EASA Form 1 or equivalent
(Å Å)	RMT.0252	Instructions for continued airworthiness (ICA)
	RMT.0695	Non-ETOPS operations using performance class A aeroplanes with an MOPSC of 19 or less
	SPT.0109	Raise of awareness of the risk posed by icing in-flight and potential mitigations
	RES.0003	Research study on cabin and cockpit air quality
	EVT.0010	Evaluation on helicopter operations

Merged:

Driver	Task Number	Task Title	Reason
	RMT.0266	Powered lift (tilt rotor) applicable requirements (pilot licensing with synthetic training devices, air operations and maintenance)	As an outcome of the BIS on tilt rotors, the elements for RMT.0266 are transferred into RMT.0731 Subtask 3.
RMT.0300 Operations wit	Operations with airships	As an outcome of AB consultation of the draft EPAS 2022–2026, the elements of RMT.0300 are transferred to RMT.0731.	

Appendix D: Key indicators in terms of EPAS actions

The information provided in this Appendix was previously included in Volume I Section 4.1.

This Appendix presents an overview on the number of actions detailed in Volume II, illustrating the distribution by EPAS action type, as well as by domain affected by these actions.

It encompasses 183 actions. The majority of actions are rulemaking tasks (45 %), followed by research tasks (21 %).

10 EPAS actions were completed in the course of 2021. With most of those being rulemaking tasks (7), the backlog of rulemaking tasks continues to be resorbed. Finally, this EPAS proposes 25 new actions, including 1 new rulemaking task, 19 new research projects, 3 new safety promotion tasks and 2 new actions for Member States. An overview of all new actions is included in Volume II Appendix C.

Most of the EPAS actions are in the domains 'Design and production' and 'Systemic safety (HF, SEC, STD, MISC).

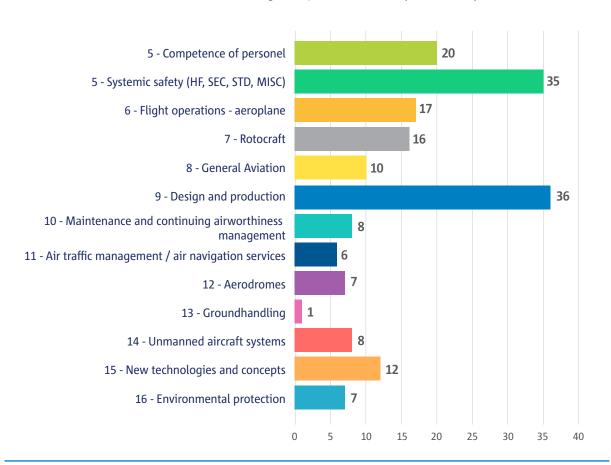


Figure 1: Distribution of EPAS actions by domain

Most of the actions in EPAS are rulemaking projects.

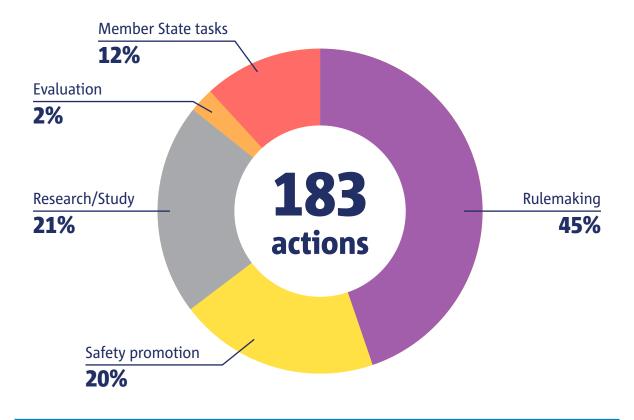


Figure 2: Distribution of EPAS actions per action type

Average duration of rulemaking tasks and adoption process

The table below shows the average duration of RMTs for Opinions and Decisions published by EASA in 2021 (meaning from ToR publication to Opinion/Decision publication), as well as the average duration of the adoption process for Opinions adopted in 2021 (meaning from Opinion publication to the vote in the EASA Committee).

Average duration —	Average duration —	Average duration —
Decisions published by EASA in 2021	Opinions published by EASA in 2021	Opinions adopted by the EC in 2021
1,7 years	3,3 years	1,1 years

VOLUME II - APPENDIX D: KEY INDICATORS IN TERMS OF EPAS ACTIONS

Development of EPAS actions between 2018 and 2022

In the below graph, the line shows the overall number of actions in the respective EPAS edition and the coloured bars are showing the breakdown by activity type. The trend shows a constant decrease of ongoing rulemaking actions whereas research actions and safety promotion actions have significantly increased.

Over the past 5 years, the number of active rulemaking tasks has decreased by 42 %.

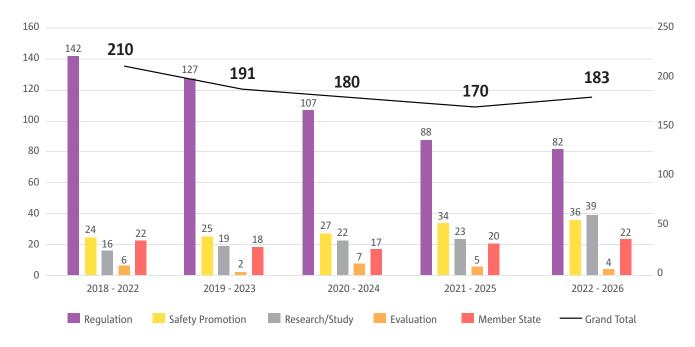


Figure 3: Trend of total number of actions per EPAS edition from 2018 to 2022

VOLUME II - APPENDIX D: KEY INDICATORS IN TERMS OF EPAS ACTIONS

Rulemaking output

The graph shows the total rulemaking output of EASA.

These graphs do not reflect Decisions (AMC & GM) that are waiting for the adoption of the related Opinions.

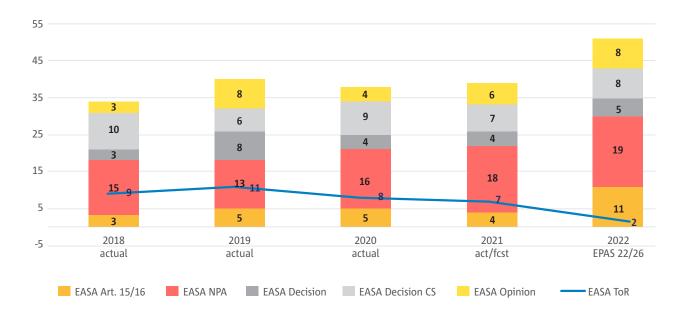


Figure 4: Rulemaking activity EASA 2018–2022 — total rulemaking output⁶⁷

⁶⁷ The actions mentioned in Appendix C as 'on hold' and 'merged' are not included in this graph.

Appendix E: Best Intervention Strategies overview

This table provides an overview of the status of the BIS being consulted in 2020/2021 or in preparation.

BIS title	Short description	Status for EPAS
BIS addressing cross	s-domain issues	
Weather information to pilots — GA and Rotorcraft	The actions identified in this BIS are intended to encourage MS, users, and service providers to support and implement data and infrastructure solutions to facilitate the increased use of weather information devices and to consider such developments holistically with, for example, technology for sharing of 'conspicuity' information.	No new actions for the EPAS 2022-2026
Airborne collision risk	The BIS addressed the safety issue on airborne collision risk. The outcome of the assessment is that a broader use of iConspicuity solutions and the improvement of their interoperability together with a better airspace utilisation and design, while ensuring compatibility with the U-space regulatory framework, should be at the heart of the strategy to define future actions.	No new actions for the EPAS 2022-2026
Emergency evacuation	The BIS will review several studies and recommendations and, if needed, propose actions for operations and certification aspects.	Work in progress
Language Proficiency oversight and assessment	The BIS assesses the feasibility and benefits of establishing a common set of minimum criteria for language proficiency assessment and oversight of language assessment bodies, both	No new actions for the EPAS 2022-2026.
	for flight crew and ATCOs.	AB consultation from 20 August to 20 October 2021
Human factors — competence for regulatory staff	The BIS addresses the need of regulatory staff to have specific HF competencies to be able to perform their duties in overseeing how effectively human factors are addressed within organisations, as this is a significant contributor in assuring a	The actions resulting from this BIS (SPT.0115 and MST.0037) are in place.
	high level of safety.	No new actions for the EPAS 2022-2026
Human factors — design and use of procedures	The BIS analyses the safety issues with regard to the design, use and management of procedures in the aviation industry.	AB consultation in Q4 2021
Safety management	The BIS was updated in 2021; it focuses on better implementation support as well as oversight of the SSP and SMS.	No new actions for the EPAS 2022-2026
Aircrew		
Flight crew licences — flight instructors	The assessment addresses the supply of competent flight instructors.	No new actions for the EPAS 2022-2026
	Outcome: RMT.0194 Modernisation and simplification of the European pilot licensing and training system and improvement of the supply of competent flight instructors	
Flight crew licences — pilot age	The assessment comes from the scientific study which recommends increasing the pilot age for commercial single-pilot operations for aeroplanes and helicopters from 60 to 65 years.	No new actions for the EPAS 2022-2026
	Outcome: RMT.0287 Regular update of Part MED of the Aircrew Regulation. The pilot age scope is limited to helicopters.	
Flight crew licences — competence-based training	The assessment focused on competence-based training for the appropriate pilot licences and ratings.	RMT.0194 is ongoing and addresses the competency-based training for the appropriate pilot licences and ratings. The impact assessment will be part of the NPA. Therefore, this BIS activity is closed.

VOLUME II - APPENDIX E: BEST INTERVENTION STRATEGIES OVERVIEW

BIS title	Short description	Status for EPAS
Aircrew fatigue (flight time limitation)	The BIS on aircrew fatigue has three main purposes: 1. Follow up on a scientific evaluation on the rules regulating flight time limitation.	No new actions for the EPAS 2022-2026
	Strengthen fatigue risk management by operators and aircrew.	
	3. Raise awareness of shared responsibilities.	
Commercial Air Trai	nsport	
Crew interoperability	The BIS will analyse the opportunity for AOC holders to exchange air crew among the same holding/parent companies, in EASA Member States.	Work in progress, no new actions for the EPAS 2022-2026
Erroneous take-off parameters	The BIS will analyse the safety issue related to the use of erroneous take-off parameters.	Work in progress, no new actions for the EPAS 2022-2026
Ice in flight (CAT FW)	The BIS will analyse the safety issue 'Flight in adverse weather conditions for CAT FW'.	Work in progress, no new actions for the EPAS 2022-2026
Weather information to pilots — CAT FW	This BIS includes actions to promote availability of enhanced meteorological information, the up-link of that information to the cockpit and to increase pilot awareness of the typespecific icing characteristics, and of the meteorological regimes in which the type may be more susceptible to icing.	No new actions for the EPAS 2022-2026
Rotorcraft		
Rotorcraft	The updated BIS Rotorcraft will focus on small helicopter operators, integrating the results of the evaluation on the administrative burden on small helicopter operators from the Air	AB consultation from 22 November 2021 to 28 February 2022
	OPS Regulation and the related soft law (EVT.0010). This BIS will address the evaluation recommendations in the context of existing and determine the need for new EPAS actions.	Note: RMT.0318 Single- engine helicopter operations to operate over hostile and congested environment will resume in 2022, without further analysis after an internal EASA review.
General Aviation		
GA strategy recovery from COVID-19	Within the context of the RNO project, due to the COVID-19, this BIS aimed at proposing actions, in various GA domains.	The GA COVID-19 RNO group decided to close this BIS based on the COVID-19 limited impacts on GA.
Parachuting operations	A new BIS is planned on the safety in parachuting aircraft operations.	A safety issue assessment is being performed and the safety issue will then be taken further in a dedicated BIS.
Maintenance and co	ontinuing airworthiness management	
Single CAMO for business group operators	The BIS assessed the case of operators forming part of a single business group, having one CAMO organisation managing the continuing airworthiness of all (or some) aircraft of all (or some) AOC holders in the group.	With RMT.0734 being now in progress, this BIS activity is closed.
	Outcome: RMT.0734 One CAMO for airline business groups (Opinion No 04/2021 published on 16/09/2021).	

VOLUME II - APPENDIX E: BEST INTERVENTION STRATEGIES OVERVIEW

BIS title	Short description	Status for EPAS	
New products, syst	tems, technologies and operations	•	
Electric and hybrid propulsion	The BIS addresses electric and hybrid propulsion systems and the regulatory gap with the current regulations, certification specifications and procedures.	This BIS activity is closed.	
	Outcome: RMT.0731 New air mobility		
	Sub-Task 1 on continuing airworthiness related to introduction of new designs, technologies, and types of operation for which regulatory updates are needed (ToR published)		
Road / gyroplanes	The BIS addresses the issue of regulatory gap in the continuous airworthiness, flight crew licensing and OPS rules for gyroplane operations.	Work in progress on the flying cars (dual transport mode aircraft) and the rules to enable CAT/SPO gyroplanes' operations. AB consultation planning not yet decided.	
	Outcome: RMT.0731 New air mobility Sub-task 2 'gyroplanes' (ToR published, scope: FCL requirements for private pilot licence and non-commercial operations)		
Tilt rotors	Similarly to gyroplanes, the current rules need to be updated to provide flight crew licensing and air operations requirements for tilt rotor.	This BIS activity is closed.	
	Outcome: RMT.0731 New air mobility Sub-task 3 'tilt rotors' (ToR published).		
Airships	Similarly to gyroplanes and tilt rotors, the current regulatory framework needs to be updated to enable operations.	AB consultation from 19 July to 17 September 2021	
New business mod	els		
SIPO/eMCO	This BIS assesses the main challenges associated with the proposed concepts for extended minimum crew operations or single-pilot operations, investigating hazard mitigations and means to perform compliance demonstrations	Work in progress, no new actions for the EPAS 2022-2026	

Appendix F: Transposition of ICAO SARPs in 2021

The overview of ICAO SL Type II covers the period 01/01/2021 - 30/10/2021

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
4/1.2.29, AN 2/2.7, AN 13/2.1, AN 4/27 and AN 2/33 – 20/73	21/1	Consultation on the proposed recommendations of the Ad Hoc USOAP CMA AG	n/a	15/01/2021	n/a (superseded by AN 19/51-21/24)	n/a	n/a
AN 12/1.1.25-21/15	21/15	Adoption of Amendment 177 to Annex 1	II	26/03/2021	26/01/2026	in progress	tbd
AN 7/66.2.2-21/17	21/17	Adoption of Amendment 90 to Annex 10, Volume V	II	31/03/2021	26/01/2026	in progress	tbd
AN 7/67.2-21/18	21/18	Adoption of the first edition of Volume VI to Annex 10	II	31/03/2021	26/01/2026	in progress	tbd
AN 13/1.1-21/19	21/19	Adoption of Amendment 47 to Annex 2	II	31/03/2021	26/01/2026	in progress	tbd
AN 3/5.12-21/20	21/20	Adoption of Amendment 108 to Annex 8	II	31/03/2021	26/01/2026	in progress	tbd
AN 19/51-21/24	21/24	Recommendations of the Ad Hoc USOAP CMA AG (Supersedes State letter AN 19/51-21/1 dated 15 January 2021)	n/a	19/03/2021	30/07/2021	n/a	n/a

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 11/55- 21/27	21/27	End of the CCRD system for recording differences related to the COVID-19 pandemic, and establishment of the Targeted Exemptions (TE) system for exceptional circumstances	n/a	31/03/2021	n/a	n/a	n/a
AN 7/62.1.4-21/41	21/41	Proposals for the amendment of Annex 10, Volume I to: a) support the introduction of dual-frequency, multi-constellation (DFMC) global navigation satellite system (GNSS) by adding provisions for additional frequencies of operation for the global positioning system (GPS), the global navigation satellite system (GLONASS) and the satellite-based augmentation system (SBAS), and by introducing provisions for the new BeiDou Navigation Satellite System (BDS) and Galileo system; and b) support ionospheric gradient mitigation for the ground-based augmentation system (GBAS).	1	07/06/2021	01/06/2022	in progress	tbd
AN 11/1.1.35-21/50	21/50	Proposed amendments to Annex 6, Part I and PANS-OPS, Volumes I and III, related to the use of RNAV on conventional routes and procedures and flight data analysis programmes (FDAP) arising from the seventh meeting of the Flight Operations Panel (FLTOPSP/7)	I	17/08/2021	17/11/2021	in progress	tbd

Update on the Transposition of ICAO SARPs in 2020 (to cover the full year 2020)

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 10/1.1-20/16	2020/16SL	Adoption of Amendment 79 to Annex 3	II	4/2/2020	10/5/2020	Amendment to Commission Regulation (EU) 2017/373 'Working methods and operating procedure for providers of communication, navigation or surveillance services' through RMT.0476 and other future rulemaking activities.	RMT.0476 RMT.nnnn*
AN 6/1.1-20/17	2020/17SL	Adoption of Amendment 18 to Annex 13	II	4/3/2020	n/a	Not in the EASA remit	Not in the EASA remit
AN 11/1.2.32-20/18	2020/18SL	Adoption of Amendment 44 to Annex 6, Part I	II	4/7/2020	10/5/2020	Amendment to Commission Regulation (EU) No 965/2012 laying down technical requirements and administrative procedures related to air operations, through RMT.0392.	RMT.0392

^{*}RMT.nnnn - Future rulemaking activities, still to be identified and subsequently captured in future EPAS editions.

^{**} The planning milestones of all Rulemaking Actions are reflected in the Volume II.

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 12/1.1.24-20/19	2020/19SL	Adoption of Amendment 176 to Annex 1	II	4/1/2020	10/5/2020	Amendment to Commission Regulation (EU) 1178/2011 'Regular update of regulations regarding pilot training, testing and checking and the related oversight', through RMT.0587. Amendment to Commission Regulation (EU) 2015/340 'Technical Requirements and Administrative Procedures relating to Air Traffic Controllers' Licences', through	RMT.0587 RMT.0668
AN 7/62.2.3-20/20	2020/20SL	Adoption of Amendment 92 to Annex 10, Volume I	II	4/14/2020	10/5/2020	RMT.0668. Amendment to Commission Regulation (EU) 2017/373 "Working methods and operating procedure for providers of communication, navigation or surveillance services', through RMT.0719.	RMT.0719
AN 7/63.2.3-20/21	2020/21SL	Adoption of Amendment 92 to Annex 10, Volume II	II	4/3/2020	10/5/2020	Amendment to Commission Regulation (EU) 2017/373 'Working methods and operating procedure for providers of communication, navigation or surveillance services', through RMT.0719.	RMT.0719
AN 4/16.10-20/22	2020/22SL	Adoption of Amendment 9 to Annex 14, Volume II 'Heliports'	II	4/6/2020	10/5/2020	Amendment to Commission Regulation (EU) 139/2014 'Requirements and administrative procedures related to aerodromes', through RMT.0722 and other future rulemaking activities.	RMT.0722 RMT.nnnn
AN 9/1.5-20/23	2020/23SL	Adoption of Amendment 61 to Annex 4	II	4/6/2020	10/4/2021	Amendment to Commission Implementing Regulation (EU) 2017/373 'Working methods and operating procedure for providers of communication, navigation or surveillance services', by Commission Regulation (EU) 2020/469 as regards requirements for air traffic management/air navigation services, design of airspace structures and data quality, runway safety, in its point AIS.OR.325. The associated AMC1 AIS.OR.325 is going to specify to follow the provisions of ICAO Annex 4 up to and including Amendment 6.	RMT.0719

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 2/2.6-20/24	2020/24SL	Adoption of Amendment 41 to Annex 15	II	4/3/2020	10/5/2020	Amendment to Commission Regulation (EU) 2017/373 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight.	RMT.nnnn
AN 4/27-20/25	2020/25SL	Approval of Amendment 3 to the PANS-Aerodromes	II	6/10/2020	11/5/2020	Amendment to Commission Regulation (EU) 139/2014 'Implementing rules – Aerodromes' to be considered in future rulemaking activities.	RMT.nnnn
AN 2/33.1-20/26	2020/26SL	Approval of Amendment 1 to the Procedures for Air Navigation Services — Aeronautical Information Management (PANS-AIM)	II	6/8/2020	04/11/2021 and 28/11/2024	Amendment to Commission Regulation (EU) 2017/373 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight, through RMT.0719.	RMT.0719
AN 13/2.1-20/27	2020/27SL	Approval of Amendment 9 to the PANS-ATM	II	15/06/2020, corrigendum 1 16/09/2020	11/5/2020	Amendment to Commission Regulation (EU) 923/2012, Item 9 of Section 2 of Point 3, through RMT.0476. Section 2 'Instructions for the completion of the flight plan form' and Section 7 'Instructions for the completion of the repetitive flight plan (RPL)' listing form of Appendix 2 of PANS-ATM are not transposed into European rules. EASA is not intending to change this decision. Repetitive flight plans are no longer in use in Europe since March 2020. Appendix 3 'Air Traffic Services Messages' of PANS-ATM is not transposed into European rules. EASA is not intending to change this decision.	RMT.0476

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 1/17.14 – 20/28	2020/28SL	Adoption of Amendment 13 to Annex 16, Volume I	II	4/9/2020	12/1/2020	a) In order to implement Amendment 13 to Annex 16 Volume I, the references to the provisions of the Chicago Convention in the first sub-paragrpah of Article 9(2) of Regulation (EU) 2018/1139 must be amended. To initiate this procedure the Agency will provide the European Commission with an Opinion to this end using the Agency's rulemaking procedure. b) According to the ICAO State Letter the date of applicability of Amendment 13 to Annex 16 Volume I is 1 January 2021. The Agency is expediting the rulemaking process such that the implementation of Amendment 13 to Annex 16 Volume I into Regulation (EU) 2018/1139, as referred to in point (a) above, can be finalised one year after the ICAO applicability date, that is within the Q1 2022.	RMT.nnnn

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 1/17.14 – 20/29	2020/29SL	Adoption of Amendment 10 to Annex 16, Volume II	II	4/15/2020	12/1/2020	a) In order to implement Amendment 13 to Annex 16 Volume I, the references to the provisions of the Chicago Convention in the first sub-paragrpah of Article 9(2) of Regulation (EU) 2018/1139 must be amended. To initiate this procedure the Agency will provide the European Commission with an Opinion to this end using the Agency's rulemaking procedure. b) According to the ICAO State Letter the date of applicability of Amendment 13 to Annex 16 Volume I is 1 January 2021. The Agency is expediting the rulemaking process such that the implementation of Amendment 13 to Annex 16 Volume I into Regulation (EU) 2018/1139, as reffered to in point (a) above, can be finalised one year after the ICAO applicability date, that is within the Q1 2022.	RMT.nnnn

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 1/17.14 – 20/30	2020/30SL	Adoption of Amendment 1 to Annex 16, Volume III	II	4/9/2020	12/1/2020	a) In order to implement Amendment 13 to Annex 16 Volume I, the references to the provisions of the Chicago Convention in the first sub-paragrpah of Article 9(2) of Regulation (EU) 2018/1139 must be amended. To initiate this procedure the Agency will provide the European Commission with an Opinion to this end using the Agency's rulemaking procedure.	RMT.nnnn
						b) According to the ICAO State Letter the date of applicability of Amendment 13 to Annex 16 Volume I is 1 January 2021. The Agency is expediting the rulemaking process such that the implementation of Amendment 13 to Annex 16 Volume I into Regulation (EU) 2018/1139, as reffered to in point (a) above, can be finalised one year after the ICAO applicability date, that is within the Q1 2022.	
AN 11/6.3.31-20/31	2020/31SL	Adoption of Amendment 37 to Annex 6, Part II	II	4/8/2020	10/5/2020	Amendment to Commission Regulation (EU) 965/2012 laying down technical requirements and administrative procedures related to air operations, through RMT.0379.	RMT.0379
AN 11/32.3.15-20/32	2020/32SL	Adoption of Amendment 23 to Annex 6, Part III	II	4/7/2020	10/5/2020	Amendment to Commission Regulation (EU) 965/2012 laying down technical requirements and administrative procedures related to air operations, through RMT.0379.	RMT.0379
AN 4 /1.2.28-20/35	2020/35SL	Adoption of Amendment 15 to Annex 14, Volume I	II	4/3/2020	10/5/2020	Amendment to Commission Regulation (EU) 139/2014 'Implementing rules – Aerodromes' with certain certifications specifications (CSs) to be considered in future rulemaking activities.	RMT.nnnn

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 13/13.1-20/39	2020/39SL	Adoption of Amendment 52 to Annex 11	II	4/3/2020	10/5/2020	Amendment to Commission Regulation (EU) 2017/373 'Working methods and operating procedure for providers of communication, navigation or surveillance services' through RMT.0719. Amendment of Commission Implementing Regulation (EU) 923/2012 laying down the common rules of the air and operational provisions regarding services and procedures in air navigation, through RMT.0476.	RMT.0719 RMT.0476
EC 6/3 - 20/71	20/71SL	Adoption of Amendment 28 to Annex 9	II	7/17/2020	n/a	Not in the EASA remit	Not in the EASA remit

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 2/33 – 20/73	20/73SL	Changes to applicability dates of SARPS and PANS related to the enhanced global reporting format for assessing and reporting runway surface conditions (GRF) due to the COVID-19 pandemic. Adoption of Amendments: 80 to Annex 3; 45 to Annex 6, Part I; 38 to Annex 6, Part II; 107 to Annex 8; 16 to Annex 14, Volume I; and 42 to Annex 15, and approval of Amendments: 10 to PANS-ATM; 4 to PANS-Aerodromes; and 2 to PANS-AIM	II.	7/30/2020	11/4/2021	Commission Implementing Regulations (EU) 2019/1387 and (EU) 2020/469, in regard to Air Operations and Air Traffic Management/Air Navigation Services (ATM/ANS) respectively, have adopted the GRF-relevant provisions with the applicability date of 5 November 2020. However, due to COVID-19 pandemic and in order to alleviate the burden to the Member States, the EU adopted Commission Implementing Regulations (EU) 2020/1176 and (EU) 2020/1177 in regard to Air Operations and ATM/ANS respectively to postpone the applicability date of the GRF-relevant provisions until 12 August 2021. In regard to the provisions related to aerodrome, EASA published Opinion 3/2019 on Runway Safety which contains the relevant GRF provisions for aerodromes, which aligns with the applicability date contained in Commission Implementing Regulations (EU) 2020/1176 and (EU) 2020/1177. The formal adoption of Opinion 3/2019 is expected in the coming months with the applicability date for GRF aligned with Air Operations and ATM/ANS rules of 12 August 2021. In regard to the publication of differences to Annexes, along with the differences from the related provisions of PANS-ATM, PANS-Aerodromes and PANS-AIM to be published in the AIP of each State, once all relevant EU rules are adopted, EASA will update the relevant compliance checklists (CCs) in the electronic filing of differences (EFOD) online framework (OLF) and dispatch a new recommendation addressing the differences to the PANS prior to 12 August 2021. In relation to the proposed amendments to ICAO Annexes it is recommended that the Member States do not disapprove them, therefore no action is required. The recently adopted European Regulations (EU) 2020/1176 and 2020/1177 foresee an applicability date of the GRF relevant SARPS by 12 August 2021, which is three months earlier than the ICAO applicability date.	not applicable

ICAO Reference	EASA Reference	Title	SL Type	Date (m/d/y)	ICAO Deadline	Transposition into EU rules	EPAS Rulemaking Action (RMT)
AN 11/6.3.32 and AN 11/6.3.31-20/123	20/123SL	Adoption of Amendments 46 and 39 to Annex 6, Parts I and II, respectively	II	17/11/2020	25/02/2021	Commission Implementing Regulation (EU) 2020/2036, postponing the applicability date to 1 January 2022 in line with the said ICAO amendments, has been recently adopted by the European Commission and entered into force in December 2020. Therefore, no differences need to be filed for those changes. No differences will exist on 15 February 2021 between Regulation (EU) No 965/2012 and the provisions of amendment 46 to Annex 6 Part II.	n/a
AN 7/64.2.2-20/127	20/127SL	Adoption of Amendment 91 to Annex 10, Volume III	II	9/12/2020	22/03/2021	SELCAL is only mentioned once in the EASA guidance material, in an enumeration of possible solutions, to Commission Regulation (EU) No 923/2012 and in the amended Annex IV - Part-ATS of Regulation (EU) 2017/373 applicable from 27 January 2022. Point (c) of CNS.TR.100 'Working methods and operating procedures for providers of communication, navigation or surveillance services' of Regulation (EU) 2017/373 is referring to	n/a
						ICAO Annex 10, Volume III up to and including Amendment 89, which will be amended before the ICAO amendment becomes applicable.	
						This amendment was supported in the ICAO Council in accordance with Article 1(2) of Council Decision (EU) 2020/767 of 8 June 2020.	
						No differences will exist on 03 November 2022 between the European regulations and the provisions of Annex 10, Volume III, including all amendments up to and including Amendment 91.	

Appendix G: Index

EValuation Tasks



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