

SESAAR		Active							LOC	
SAF11.1		Improve Runway Safety by Preventing Runway Excursions								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

Subject matter and scope

The rate and number of runway excursions worldwide remained steady in the last decade. Data show the industry has reduced the rate of commercial aviation runway excursion accidents, but the absolute number of accidents and incidents and their severity still indicate a very high risk.

In a study of incident and accident data dedicated to this action plan process, the International Air Transport Association (IATA) reported that between 2005 and the first half of 2019, 23 percent (283) of accidents in IATA's global accident database involved a runway excursion. This was the most frequent end state, followed by gear-up landing/gear collapse (15 percent) and ground damage (12 percent).

Runway excursion risk is a complex combination of factors involving different aviation segments. To address the risk of runway excursions an industry initiative produced the Global Action Plan for the Prevention of Runway Excursions (GAPPRE), which was published in 2021. GAPPRE was developed by an international working group led by representatives from IATA, CANSO, the U.K. Civil Aviation Authority, Gulfstream, Paris Charles de Gaulle Airport and the Royal Netherlands Aerospace Centre (NLR). The work was coordinated by Flight Safety Foundation and EUROCONTROL. GAPPRE was reviewed and validated by EASA, IATA, Civil Air Navigation Services Organisation (CANSO) and Airports Council International World.

GAPPRE contains 101 consensus based recommendations that define actions beyond regulatory compliance for regulators and ICAO, aircraft manufacturers, airports, ANSPs, aircraft operators and research organisations. Additionally, GAPPRE includes guidance and explanatory material that provides further context to the targeted audience in order to facilitate the implementation of the recommendations.

GAPPRE asks organisations to which the action plan is addressed to:

- Organise a review of the respective recommendations and assess their relevance against their local conditions and specific context.
- Consult the best practices for implementing the selected recommendations and seek support, if needed, from the GAPPRE coordinating partners.
- Conduct an appropriate impact assessment (including safety assessment) when deciding on the specific action to implement the recommendations.
- Implement the specific action/change and monitor its effectiveness.
- Share the lessons learnt with the industry.

The EASA European Plan for Aviation Safety (EPAS 2022-2026) supports GAPPRE implementation/ Within the key actions for the most important risk areas for CAT aeroplanes, EPAS defines: "Promote and implement the Global Action Plans for the Prevention of Runway Incursions (GAPPRI) and Excursions (GAPPRE), in support of Regulation (EU) 2020/2148."

Applicability Area(s) & Timescale(s)

Applicability Area (Subject to local needs)	All ECAC+ States except: Maastricht UAC, Sweden		
Timescales:	From:	By:	Applicable to:
IOC used for Analytics functioning only - not for implementation planning	01/07/2022		Applicability Area
FOC used for Analytics functioning only - not for implementation planning		31/12/2030	Applicability Area

References

European ATM Master Plan

OI step -	None									
Enablers -										

Legend:	WXYZ-001	Covered by SLoA(s) in this objective	WXYZ-002 zzz	Covered by SLoA(s) in another objective Objective covering the enabler	WXYZ-003	Not covered in the Implementation Plan
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Applicable legislation

None

Essential Operational Changes

- none -

SESAR Solution

ICAO GANP - ASBUs

- none -

Deployment Programme

- none -

European Plan for Aviation Safety

MST.007	Include runway excursions in national SSPs
RMT.0570	Reduction of runway excursions
RMT.0703	Runway Safety

Operating Environments

Airport

Stakeholder Lines of Action (SLoAs)

SLoA ref.	Title	From	By
SAF11.1-REG01	Assess all safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context together with the local stakeholders		
SAF11.1-REG02	Implement the selected recommendations for regulators and monitor the Implementation of the appropriate parts of the Global Action Plan for the Prevention of Runway Excursions, selected in SAF11.1-REG01		
SAF11.1-ASP01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations		
SAF11.1-APO01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations		
SAF11.1-USE01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations		

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip_objectives

Expected Performance Benefits

Safety:	Significant improvement, through reduced risk of incidents and accidents on runways.
Capacity:	-
Operational Efficiency:	-
Cost Efficiency:	-
Environment:	-
Security:	-

Detailed SLoA Descriptions

SAF11.1-REG01	Assess all safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context together with the local stakeholders	From:	By:
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Action by:	State Authorities		

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Description & purpose:	Together with the local stakeholders, organise a review and determine which of the recommendations are relevant for the local circumstances. .Create subset of the selected relevant recommendations to be implemented and monitored nationally.		
Supporting material(s):	EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 Url : https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre		
Finalisation criteria:	1 - Documented explanation/decision per recommendation to implement or not.		
SAF11.1-REG02	Implement the selected recommendations for regulators and monitor the implementation of the appropriate parts of the Global Action Plan for the Prevention of Runway Excursions, selected in SAF11.1-REG01	From: -	By: -
Action by:	State Authorities		
Description & purpose:	- Ensure that the selected recommendations for regulator are implemented. - Monitor the implementation of the selected recommendations for the local stakeholders.		
Supporting material(s):	EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 Url : https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre		
Finalisation criteria:	1 - Monitoring arrangements, including the local stakeholders, are established. 2 - Monitoring report addressing selected GAPPRE recommendations is published.		
SAF11.1-ASP01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations	From: -	By: -
Action by:	ANS Providers		
Description & purpose:	- Review and determine which of the recommendations are relevant for the local circumstances. .Create subset of the selected relevant recommendations to be implemented and monitored. - Ensure that the selected recommendations for ANSP are implemented.		
Supporting material(s):	EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 Url : https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre		
Finalisation criteria:	1 - Documented explanation/decision per recommendation to implement or not. 2 - GAPPRE recommendations annual implementation report.		
SAF11.1-APO01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations	From: -	By: -
Action by:	Airport Operators		
Description & purpose:	- Review and determine which of the recommendations are relevant for the local circumstances. Create subset of the selected relevant recommendations to be implemented and monitored. - Ensure that the selected recommendations for Airport Operators are implemented.		
Supporting material(s):	EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 Url : https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre		
Finalisation criteria:	1 - Documented explanation/decision per recommendation to implement or not. 2 - GAPPRE recommendations annual implementation report.		
SAF11.1-USE01	Assess relevant safety recommendations from the Global Action Plan for the Prevention of Runway Excursions for their relevance against the local conditions and specific context and implement the selected recommendations	From: -	By: -
Action by:	Airspace Users		
Description & purpose:	- Review and determine which of the recommendations are relevant for the local circumstances. .Create subset of the selected relevant recommendations to be implemented and monitored. - Ensure that the selected recommendations for Airspace Users are implemented.		
Supporting material(s):	EUROCONTROL - GAPRE - Global Action Plan for the Prevention of Runway Excursions (GAPPRE) 05/2021 Url : https://skybrary.aero/articles/global-action-plan-prevention-runway-excursions-gappre EASA - European Plan for Aviation Safety 2021 – 2025, Volume III Url : https://www.easa.europa.eu/downloads/123564/en		
Finalisation criteria:	1 - Documented explanation/decision per recommendation to implement or not. 2 - GAPPRE recommendations annual implementation report.		