SESAR	Active	LOC/APT
AOP18	Runway Status Lights (RWSL)	
REG ASP	MIL APO USE INT IND NM MET	AIS USP

Subject matter and scope

Runway Status Lights (RWSL) system is an automatic independent system based on aerodrome surveillance data that can be used on airports to increase safety by preventing runway incursions. The RWSL will provide an independent system that uses A-SMGCS surveillance data to dynamically switch on and off additional and dedicated airfield lights on RWY and on the runway entry TWY.

It will directly inform the flight crews / vehicle drivers about the instantaneous runway usage. Runway status lights switched "on" is an indication that the runway is unsafe for entering (for line-up or crossing) or for taking-off.

The new airfield lights, can be composed of:

Runway Entrance Lights (REL): sets of red lights illuminating runway entrances when it is not safe to enter or cross the runway;
Take-off Hold Lights (THL): sets of red lights illuminating along the axis of a runway in front of a departing aircraft when it is unsafe

to take-off from that runway due to an obstacle (vehicle or aircraft) already occupying or entering the runway ahead;

• Runway Intersection Lights (RIL): sets of red lights illuminating along the axis of a runway near the intersection with another runway (crossing runways only) when it is not safe to go through the intersection. Note that no validation could be performed on the operational requirements related to crossing runways (RIL) within associated SESAR R&D project.

The system is meant to be compatible with airport operations and independent of ATC clearances, even if TWR will have access to the status of the REL and THL, with no change in their operating methods, except in case of flight crew request or failure of the system.

The purpose of the RWSL system is to act as a safety net for flight crew and vehicle drivers, thus reducing the number of runway incursions without interfering with normal runway operations.

It is recommended to implement RWSL at medium to highly utilized airports with complex runway and taxiway lay-out.

NOTE: In ICAO Annex 14, Volume I, RWSL is designated under the term "Autonomous Runway Incursion Warning System (ARIWS).

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Applicability Area(s) & Timescale(s)

Applicability Area				
(Subject to local needs)				
Timescales:		From:	By:	Applicable to:
IOC used for Analytics functioning only - not for planning	or implementation	31/05/2019		Applicability Area
FOC used for Analytics functioning only - not f planning	or implementation		01/01/2030	Applicability Area

References

European ATM Master Plan

OI step - [AO-0209]-Enhanced Runway Usage Awareness								
	Enablers -	AERODROME AERODRO -ATC-66 -ATC-8	OME AIRPORT-	49 PRO-246	REG-0201 AOP16			
		Covered by SLoA(s) in	WXYZ-002	Covered by SLoA	(s) in another c	hiactiva	WXYZ-	Not covered in the
Legend:	WXYZ-001	this objective	ZZZ	Objective coverin	. ,	bjeenve	003	Implementation Plan

Applicable legislation

ICAO Annex 14 (Aerodromes), Volume I

Essential Operational Changes

Airport and TMA performance

AOP18

Runway Status Lights (RWSL)

SESAR Solution

#01 - RunWay Status Lights

ICAO GANP - ASBUs

SURF-B2/2	Comprehensive vehicle driver situational awareness on the airport surface
SURF-B2/3	Conflict alerting for pilots for runway operations

Deployment Programme

- none -

European Plan for Aviation Safety

MST.029 Implementation of SESAR Runway safety solutions

Operating Environments

Airport

Stakeholder Lines of Action (SLoAs)

SloA ref.	Title From	m	Ву
AOP18-REG01	Promulgate the procedures for use of RWSL		
AOP18-ASP01	Install RWSL management tool		
AOP18-ASP02	Upgrade TWR CWP to interface with RWSL management tool		
AOP18-ASP03	Develop and implement procedures for the use of RWSL		
AOP18-ASP04	Develop safety assessment of the changes imposed by RWSL		
AOP18-ASP05	Train all relevant staff in the use of RWSL		
AOP18-APO01	Upgrade Airfield Ground Lighting system to provide the Runway Status Lights		
AOP18-APO02	Install RWSL management tool		
AOP18-APO03	Develop and implement procedures for the use of RWSL		
AOP18-APO04	Develop safety assessment of the changes imposed by RWSL		
AOP18-APO05	Train all relevant staff in the use of RWSL		
AOP18-USE01	Develop the procedures for use of RWSL		
AOP18-USE02	Train all relevant staff in the use of RWSL		
AOP18-INT01	Develop the standards for operational use of RWSL		
AOP18-INT02	Develop the standards for RWSL design and approval		
AOP18-INT03	Develop standard interfaces and information exchanges of RWSL Management Tool	nl/essin object	tives

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

Expected Performance Benefits

timely indication of runway occupancy.	
Capacity: -	
Operational Efficiency: More efficient control of surface traffic.	
Cost Efficiency:	
Environment: -	
Security:	

Detailed SLoA Descriptions

	Promulgate the procedures for use of RWSL	From:	By:	
AOP18-REG01		-	-	
Action by:	Regulatory Authorities			
Description & purpose:	Establish and promulgate the procedures for use of RWSL applicable to flight crews, vehicle drivers and aerodrome TWR.			

AOP18

Runway Status Lights (RWSL)

Supporting material(s):	ICAO - Annex 14 - Aerodromes, Volume I and II					
	Url : <u>https://store.icao.int/</u>					
	ICAO - Annex 11 - Air Traffic Services					
	Url : https://store.icao.int/					
	SJU - SESAR Solution 01: Data Pack for Runway status lights					
	Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights					
ATM Master Plan elationship:	[PRO-246]-Procedures for standardised response to Runway Status Lights					
inalisation criteria:	1 - The procedures for use of RWSL applicable to flight crews, vehicle drivers and aerodrome TWR have been promulgated					
AOP18-ASP01	Install RWSL management tool	From:	By:			
		-	-			
ction by:	ANS Providers					
Description & purpose:	This action is applicable to ANSP only, where ANS Provider is in charge system at the aerodrome. Otherwise the action is on Airport Operator.					
	An RWSL management processor (tool) will be needed to implement t surveillance data as input to switch on and off the Runway Status Ligh		gic, using the A-SMGCS			
Supporting material(s):	ICAO - Annex 14 - Aerodromes, Volume I and II					
	Url : https://store.icao.int/					
	EASA - EASA deliverable of SLoA INT02.					
	EUROCAE - EUROCAE deliverable of SLoA INT03					
	SJU - SESAR Solution 01: Data Pack for Runway status lights					
	Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights					
TM Master Plan elationship:	[AERODROME-ATC-87]-RWSL management tool fed with airport surv	veillance data to de	termine runway usage and to			
•	control the airfield Runway Status Lights					
inalisation criteria:	1 - The RWSL management tool has been installed	F rom i	Dun			
AOP18-ASP02	Upgrade TWR CWP to interface with RWSL management tool By:					
ction by:	ANS Providers		· · · · · · · · · · · · · · · · · · ·			
Description & purpose:	Although the RWSL are provided as a safety net to pilots and vehicle drivers, status information and service co be needed in TWR. For that purpose, the Tower CWP needs to be interfaced to the RWSL management tool to the appropriate status information and provide the appropriate control functions.					
	be needed in TWR. For that purpose, the Tower CWP needs to be inte	erfaced to the RWS				
	be needed in TWR. For that purpose, the Tower CWP needs to be inte	erfaced to the RWS functions. to ensure that the	SL management tool to display			
	be needed in TWR. For that purpose, the Tower CWP needs to be interested the appropriate status information and provide the appropriate control An enhanced A-SMGCS Core Surveillance function might be required	erfaced to the RWS functions. to ensure that the	SL management tool to display			
	be needed in TWR. For that purpose, the Tower CWP needs to be inter the appropriate status information and provide the appropriate control An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capa ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/	erfaced to the RWS functions. to ensure that the acity.	SL management tool to display Runway Status Lights are			
	be needed in TWR. For that purpose, the Tower CWP needs to be interested in TWR. For that purpose, the Tower CWP needs to be interested appropriate status information and provide the appropriate control. An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capacitation. ICAO - Annex 14 - Aerodromes, Volume I and II	erfaced to the RWS functions. to ensure that the acity.	SL management tool to display			
	be needed in TWR. For that purpose, the Tower CWP needs to be interested in TWR. For that purpose, the Tower CWP needs to be interested appropriate status information and provide the appropriate control. An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capacitor of the transmission of the second statement o	erfaced to the RWS functions. to ensure that the acity. vanced-Surface M	SL management tool to display Runway Status Lights are			
	be needed in TWR. For that purpose, the Tower CWP needs to be interested in TWR. For that purpose, the Tower CWP needs to be interested appropriate status information and provide the appropriate control. An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capacitor. Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020	erfaced to the RWS functions. to ensure that the acity. vanced-Surface M	SL management tool to display Runway Status Lights are			
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Supporting material(s): Supporting material(s): ATM Master Plan elationship: Finalisation criteria: AOP18-ASP03 Action by: Description & purpose:	be needed in TWR. For that purpose, the Tower CWP needs to be inter the appropriate status information and provide the appropriate control An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capa ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-s EASA - EASA deliverable of SLoA INT02. EUROCAE - EUROCAE deliverable of SLoA INT03 SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights [AERODROME-ATC-66]-Tower A-CWP interfaced to the Runway Stat 1 - The TWR systems have been upgraded Develop and implement procedures for the use of RWSL ANS Providers The procedures specifying responsibilities and actions that should be to the handling of conflicts between RWSL warnings and ATC clearanced be developed and implemented. EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020	erfaced to the RWS functions. to ensure that the acity. vanced-Surface M mgcs-services tus Lights manager From: - taken by TWR in re s issued to vehicle vanced-Surface M mgcs-services	SL management tool to display Runway Status Lights are ovement Guidance and Contre nent tool By: - slation to RWSL warnings and drivers and flight crews, shou			
Supporting material(s): ATM Master Plan elationship: Finalisation criteria: AOP18-ASP03 Action by:	be needed in TWR. For that purpose, the Tower CWP needs to be inter the appropriate status information and provide the appropriate control An enhanced A-SMGCS Core Surveillance function might be required switched on/off at the right time, without downgrading the runway capa ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-s EASA - EASA deliverable of SLoA INT02. EUROCAE - EUROCAE deliverable of SLoA INT03 SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights [AERODROME-ATC-66]-Tower A-CWP interfaced to the Runway Stat 1 - The TWR systems have been upgraded Develop and implement procedures for the use of RWSL ANS Providers The procedures specifying responsibilities and actions that should be to the handling of conflicts between RWSL warnings and ATC clearances be developed and implemented. EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020 Url : https://www.eurocontrol.int/publication/eurocontrol-specification-s	erfaced to the RWS functions. to ensure that the acity. vanced-Surface M mgcs-services tus Lights manager From: - taken by TWR in re s issued to vehicle vanced-Surface M mgcs-services	SL management tool to display Runway Status Lights are ovement Guidance and Contro ment tool By: - Plation to RWSL warnings and drivers and flight crews, shoul			

AOP18	Runway Status Lights (RWSL)				
ATM Master Plan relationship:	[PRO-246]-Procedures for standardised response to Runway Status Lig	<u>ghts</u>			
Finalisation criteria:	 1 - The procedures specifying responsibilities and actions that should be taken by TWR in relation to RWSL have been published in the Operations Manual applicable to the TWR controllers 2 - RWSL is in operational use 				
		From:	By:		
AOP18-ASP04	Develop safety assessment of the changes imposed by RWSL				
Action by:	ANS Providers				
Description & purpose:	 Develop safety assessment of the changes, notably upgrades of airport and ATS systems to support RWSL. The tasks to be done are as follows: Conduct hazard identification, risk assessment in order to define safety objectives and safety requirements mitigating the risks; Develop safety assessment; Deliver safety assessment to the NSA, if new standards are applicable or if the severity class of identified risks is 1 or 2. 				
Supporting material(s):	This safety assessment shall be based on fully validated/recognised method. ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on RWSL. SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWSL) available upon request (nm. airports@eurocontrol.int)				
Finalisation criteria:	 The safety argument for all changes, generated by the deployment of ANS Provider to the NSA. 	of this functionality	y, has been delivered by the		
AOP18-ASP05	Train all relevant staff in the use of RWSL	From: -	By: -		
Action by:	ANS Providers				
Description & purpose:	Train TWR controllers in the responsibilities and actions (including phraseology) that should be taken in relation to RWSL warnings and the handling of conflicts between RWSL warnings and ATC clearances issued to vehicle drivers and flight crew.				
Supporting material(s):	ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on RWSL. SJU - SESAR Solution 01: Data Pack for Runway status lights				
Finalisation criteria:	Url : <u>https://www.sesarju.eu/sesar-solutions/runway-status-lights</u> 1 - TWR controllers training in accordance with agreed training requirer	nents and program	mme has been completed		
AOP18-APO01	Upgrade Airfield Ground Lighting system to provide the Runway Status Lights	From: -			
Action by:	Airport Operators				
Description & purpose:	The Airfield Ground Lighting system should be upgraded to provide the Lights (THL) and Runway Entrance Lights (REL).	Runway Status L	ights, i.e. the Take-off Hold		
Supporting material(s):	Lights (THL) and Runway Entrance Lights (REL). ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ EASA - EASA deliverable of SLoA INT02. SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights				
ATM Master Plan relationship:	[AIRPORT-49]-Airfield Ground Lighting system upgraded to provide the	Runway Status L	<u>_ights</u>		
Finalisation criteria:	1 - Runway Status Lights installed within Airfield Ground Lighting syste	m			
AOP18-APO02	Install RWSL management tool	From: -	By: -		
Action by:	Airport Operators				
Description & purpose:					
Supporting material(s):	ICAO - Annex 14 - Aerodromes, Volume I and II Url : <u>https://store.icao.int/</u> EASA - EASA deliverable of SLoA INT02. EUROCAE - EUROCAE deliverable of SLoA INT03 SJU - SESAR Solution 01: Data Pack for Runway status lights	g,			
	Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights				

Runway Status Lights (RWSL)

relationship:	[AERODROME-ATC-87]-RWSL management tool fed with airport surv control the airfield Runway Status Lights	veillance data to de	etermine runway usage and to		
Finalisation criteria:	1 - Controllers training in accordance with agreed training requirement	s and programme	has been completed.		
AOP18-APO03	Develop and implement procedures for the use of RWSL	From: -	By: -		
Action by:	Airport Operators				
Description & purpose:	The procedures specifying responsibilities and actions that should be taken by vehicle drivers in relation to RWSL warnings and the handling of conflicts between RWSL warnings and ATC clearances should be developed and implemented.				
Supporting material(s):	ICAO - Annex 14 - Aerodromes, Volume I and II Url : <u>https://store.icao.int/</u> EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Ad System (A-SMGCS) Services - Edition 2.0 / 04/2020 Url : <u>https://www.eurocontrol.int/publication/eurocontrol-specification-s</u> ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on	mgcs-services	lovement Guidance and Contro		
	SJU - SESAR Solution 01: Data Pack for Runway status lights				
	Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights				
ATM Master Plan relationship:	[PRO-246]-Procedures for standardised response to Runway Status L	<u>ights</u>			
Finalisation criteria:	 1 - The procedures specifying responsibilities and actions that should be taken by vehicle drivers in relation to RWSL have been published in the Operations Manual applicable to the drivers. 2 - RWSL is in operational use 				
AOP18-APO04	Develop safety assessment of the changes imposed by RWSL	From: -	By: -		
Action by:	Airport Operators	1			
	 Conduct hazard identification, risk assessment in order to define safety objectives and safety requirements mitigating the risks; Develop safety assessment; Deliver safety assessment to the NSA, if new standards are applicable or if the severity class of identified risks is 1 2. This safety assessment shall be based on fully validated/recognised method. ICAO - Annex 14 - Aerodromes, Volume I and II 				
Supporting material(s):	- Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II		class of identified risks is 1 or		
Supporting material(s):	- Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : <u>https://store.icao.int/</u> ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : <u>https://www.sesarju.eu/sesar-solutions/runway-status-lights</u> EUROCONTROL - Safety Assessment of Runway Status Lights (RWS	nethod. RWSL.			
	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 	nethod. RWSL. SL) available upon	request (nm.		
	- Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : <u>https://store.icao.int/</u> ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : <u>https://www.sesarju.eu/sesar-solutions/runway-status-lights</u> EUROCONTROL - Safety Assessment of Runway Status Lights (RWS	nethod. RWSL. SL) available upon	request (nm.		
	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment 	nethod. RWSL. SL) available upon	request (nm.		
Finalisation criteria:	- Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL	nethod. RWSL. SL) available upon of this functionalit	request (nm. y, has been delivered by the By:		
Finalisation criteria: AOP18-AP005 Action by:	- Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin	nethod. RWSL. SL) available upon of this functionalit From: - ng phraseology) that	request (nm. y, has been delivered by the By: - at should be taken in relation to		
Finalisation criteria: AOP18-AP005 Action by: Description & purpose:	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin RWSL warnings and the handling of conflicts between RWSL warning: ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLOA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights 	nethod. RWSL. SL) available upon of this functionalit From: - ng phraseology) that s and ATC clearar	request (nm. y, has been delivered by the By: - at should be taken in relation to		
Finalisation criteria: AOP18-AP005 Action by: Description & purpose: Supporting material(s):	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin RWSL warnings and the handling of conflicts between RWSL warning ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights 	nethod. RWSL. SL) available upon of this functionalit From: - ig phraseology) that s and ATC clearar RWSL.	request (nm. y, has been delivered by the By: - at should be taken in relation to nces.		
Finalisation criteria:	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin RWSL warnings and the handling of conflicts between RWSL warning: ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLOA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights 	nethod. RWSL. SL) available upon of this functionalit From: - ig phraseology) that s and ATC clearar RWSL.	request (nm. y, has been delivered by the By: - at should be taken in relation to nces.		
Finalisation criteria: AOP18-APO05 Action by: Description & purpose: Supporting material(s): Finalisation criteria: AOP18-USE01	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operators Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin RWSL warnings and the handling of conflicts between RWSL warning; ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights 1 - Vehicle drivers training in accordance with agreed training requirem Develop the procedures for use of RWSL 	nethod. RWSL. SL) available upon of this functionalit From: - rg phraseology) that s and ATC clearar RWSL. RWSL.	request (nm. y, has been delivered by the By: - at should be taken in relation to nces. me has been completed By:		
Finalisation criteria: AOP18-APO05 Action by: Description & purpose: Supporting material(s): Finalisation criteria:	 Deliver safety assessment to the NSA, if new standards are applicab 2. This safety assessment shall be based on fully validated/recognised m ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights EUROCONTROL - Safety Assessment of Runway Status Lights (RWS airports@eurocontrol.int) 1 - The safety argument for all changes, generated by the deployment Airport Operator to the NSA. Train all relevant staff in the use of RWSL Airport Operators Train airport vehicle drivers in the responsibilities and actions (includin RWSL warnings and the handling of conflicts between RWSL warning ICAO - Annex 14 - Aerodromes, Volume I and II Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://store.icao.int/ ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on SJU - SESAR Solution 01: Data Pack for Runway status lights Url : https://www.sesarju.eu/sesar-solutions/runway-status-lights 1 - Vehicle drivers training in accordance with agreed training requirem 	nethod. RWSL. SL) available upon of this functionalit From: - rg phraseology) that s and ATC clearar RWSL. Nents and program From: -	request (nm. y, has been delivered by the By: - at should be taken in relation to nces. me has been completed By: -		

drivers and aerodrome ATC in reliation to RWSL warnings and the handling of conflicts between RWSL warning ATC clearances. Publish the procedures in ICAO PANS-ATM. Supporting material(s): EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance and System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf : https://www.eurocontrol.in//publication/eurocontrol-specification-smgcs-services SUJ - SESAR Solution 01: Data Pack for Runway status lights Uf : https://www.sesariu.eu/sesar.solutions/runway-status-lights ATM Master Plan [PRO-246].Procedures for standardised response to Runway Status Lights IFIGE-HINA-20]-Regulatory provisions for RWSL From: By: - AOP18-INT02 Develop the standards for RWSL design and approval Action by: EASA Description & purpose: Amend regulatory material by aligning ADR.OPS and CS-ADR-DSN with ICAO Annex 14 Amdt. 13A. Include under ADR.OPS. The operational requirements of ARINS, as described in ICAO Annex 14; Include under ADR.OPS. Note and III Uf : https://www.sesariu.eu/sear.solutions/runway-status-lights - ATM Master Plan IREG-HINA-201-Regulatory provisions for RWSL Supporting material(s): ICAO - Annex 14 - Aerodromes, Volume 1 and II Uf : https://www.sesariu.eu/sear.solutions/runway-status-lights - ATM Master Plan IR	AOP18	Runway Status Lights (RWSL)				
Perfectionality: Interfection of the procedures specifying responsibilities and actions that should be taken by flight crew in relation to RWSL From: By: AOP18-USE02 Train all relevant staff in the use of RWSL From: By: Action by: Arspace Users Train flight crew in the responsibilities and actions (including phraseology) that should be taken in relation to R Supporting material(s): ICAO - Deliverable of SLoA INTO1, ICAO PANS ATM Amendment on RWSL. SU Supporting material(s): ICAO - Deliverable of SLoA INTO1, ICAO PANS ATM Amendment on RWSL. By: Finalisation criteria: 1 - Flight crew in a coordance with agreed training requirements and programme has been completed. AOP18-INTO1 Develop the standards for operational use of RWSL From: By: Action by: ICAO Establish standard proadures specifying responsibilities and actions that should be taken by flight crews, veh first weak weak of the relation to RWSL warnings and the handling of conflicts between RWSL warning and the handling of conflicts between RWSL warning and the handling of conflicts between RWSL warning and conflicts between RWSL warning and conflicts between RWSL warning and the handling of conflicts between RWSL warning and actions that should be taken by flight crews, veh first warning and the famotion of RWSL warning and actions that should be taken by flight crews in ACO PANS-ATM. Bupporting material(s): Establish endard procadures specifying responsibilities and actions for	Supporting material(s):	SJU - SESAR Solution 01: Data Pack for Runway status lights				
Finalisation criteria: 1-The procedures specifying responsibilities and actions that should be taken by flight crew in relation to RW been published in the Operations Manual applicable to the flight crew Prom: By: AOP18-USE02 Train all relevant staff in the use of RWSL From: By: Action by: Airspace Users Train fight crew in the responsibilities and actions (including phraseology) that should be taken in relation to RW warnings and the handling of conflicts between RWSL warnings and ATC clearance. Image: Clearance. Supporting material(5): EXO- Deliverable of SLo INTO1, LOAD PANS TM Mandment on RWSL. By: Supporting material(5): EXO- Deliverable of SLo INTO1, CAO PANS TM Mandment on RWSL. By: Finalisation criteria: 1 - Flight crew training in accordance with agreed training requirements and programme has been completed. AOP18-INT01 Develop the standards for operational use of RWSL. From: By: Action by: ICAO Establish standard procedures specifying responsibilities and actions that should be taken by flight crew, we have a deardorme ATC in relation to RWSL warning and the handling of conflicts between RWSL warning and the procedures in ICAO PANS-ATM. Supporting material(s): EUROCONTROL = SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A:SMGCS) Services - Edition 2.0 / 04/2020 Uri : https://www.ascarendu.ml/bindicatand/soft responsions for RWSL						
AOP18-USE02 Train all relevant staff in the use of RWSL From: Pr	•					
AOP18-USE02 Train all relevant staff in the use of RWSL - - Action by: Airspace Users - - Description & purpose: Train fight craw in the responsibilities and actions (including phraseology) that should be taken in relation to R Supporting material(s): ICAO - Deliverable of SLoA INTOT, ICAO PANS ATM Amendment on RVSL. - SUP SESAR Solution 01: Data Pack for Runway status lights - - W1: https://www.asaariu.eu/essar-solutions/turway-status.lights From: By: AOP18-INTO1 Develop the standards for operational use of RWSL From: By: AOP18-INTO1 Develop the standards for operational use of RWSL From: By: Action by: ICAO Edablish standard procedures specifying responsibilities and actions that should be taken by flight crews, weh drivers and aerodome ATC in relation to RVSL warnings and the handling of conflicts between RVSL warning Status (SUCONTROL SPECI-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (SSRA Solution 10: Data Pack for Runway status lights U1: https://www.sesariu.eu/essar-solutions/runway-status lights U1: https://www.sesariu.eu/essar-solutions/runway-status-lights Supporting material(s): EUROCONTROL SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (SSRA Solution 01: Data Pack for Runway status lights <td< td=""><td>Finalisation criteria:</td><td colspan="5">been published in the Operations Manual applicable to the flight crew</td></td<>	Finalisation criteria:	been published in the Operations Manual applicable to the flight crew				
Description & purpose: Train flight crew in the responsibilities and actions (including phraseology) that should be taken in relation to R warnings and the handling of conflicts between RWSL warnings and ATC clearances. Supporting material(s): ICAO - Deliverable of SLoA INTO1, ICAO PANS ATM Amendment on RWSL. SU - SESAR Solution 01: Data Pack for Rurway status lights Image: Clearances. Finalisation criteria: 1 - Flight crew training in accordance with agreed training requirements and programme has been completed. AOP18-INTO1 Develop the standards for operational use of RWSL From: By: - By: - CAO Celo Description & purpose: Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, veh drivers and auroform ATC in relation to RWSL warnings and the handling of conflicts between RWSL warning ATC clearances. Publish the procedures in ICAO PANS-ATM. EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance an System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf: https://www.europarticl.nt/publication/wurport/status-lights If into://www.europarticl.nt/publication/wurport/status-lights ATM Master Plan [PRO-246]-Procedures for RWSL design and approval From: - By: - By: - AOP18-INT02 Develop the standards for RWSL design and approval From: - By: - By: -	AOP18-USE02	Train all relevant staff in the use of PWSI				
warnings and the handling of conflicts between RWSL warnings and ATC clearances. Supporting material(s) ICAO - Deliverable of SLAO INTO1, ICAO PANS ATM Amendment on RWSL. SU - SESAR Solution 01: Data Pack for Runway status lights Image: Conflicts Deliverable of SLAO RADE ATM Amendment on RWSL. AOP18-INT01 Develop the standards for operational use of RWSL From: By: AOP18-INT01 Develop the standards for operational use of RWSL From: By: AOP18-INT01 Clearances. From: By: ACC Clearances. Full From: By: Publish the procedures in ICAO PANS-ATM. EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance at System (ASMGCS) services - Edition 2 / 04/202 Ut : https://www.eurocontrol.in/publication/eurocontrol-specification-smgcs-services SU = SEAR Solution 01: Data Pack for Runway status lights VITM Master Plan [PRO-246]-Procedures for standards dr containing the procedures has been published Imaliastion criteria 1 The amendment to ICAO PANS-ATM. Prom: By: Continue trip: [PRO-246]-Procedures for standards dr Romos sto Runway Status Lights Ut : https://www.eurocontrol.in/publication/eurocedures has been published TTM Master Plan [PRO-246]-Procedures for RWSL design and approval From: By:	Action by:	Airspace Users	·			
Supporting material(s): ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on RWSL. SUJ - SESAR Solution 01: Data Pack for Ruway status lights	Description & purpose:			e taken in relation to RWSL		
Finalisation criteria: 1 - Flight crew training in accordance with agreed training requirements and programme has been completed. From: By: Crown in the image of RWSL in the there	Supporting material(s):	ICAO - Deliverable of SLoA INT01, ICAO PANS ATM Amendment on R SJU - SESAR Solution 01: Data Pack for Runway status lights				
AOP18-INT01 Develop the standards for operational use of RWSL From: By: Action by: ICAO Description & purpose: Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, veh drivers and aerodrome ATC in relation to RWSL warnings and the handling of conflicts between RWSL warnin ATC clearances. Publish the procedures in ICAO PANS-ATM. Publish the procedures in ICAO PANS-ATM. Supporting material(s): EVRCONTROL SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf : https://www.sesariu.eu/seear-solution/fum/way-status-lights Uf : https://www.sesariu.eu/seear-solution/fum/way-status-lights SUP-SESAR Solution 01: Data Pack for Runway status lights IFRG-HNA-20/Regulatory provisions for RWSL Finalisation criteria: 1 - The amendment to ICAO PANS-ATM containing the procedures has been published AOP18-INT02 Develop the standards for RWSL design and approval From: By: Action by: EASA Action de purpose: Amend regulatory material by aligning ADR.OPS and CS-ADR-DSN with ICAO Annex 14, Amd. 13A. Include under ADR.OPS. The operational requirements of ARIWS, as described in ICAO Annex 14; Include in the Certification Specifications for aerodrome design the technical specifications of RWSL; Supporting material(s): ICAO - Annex 14 - Aerodromes,	inalisation criteria:		and programme	has been completed.		
Action by: ICAO Description & purpose: Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, veh drivers and aerodrome ATC in relation to RWSL warnings and the handling of conflicts between RWSL warnin ATC clearances. Publish the procedures in ICAO PANS-ATM. Supporting material(s): EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A-SMGCS) Services - Edition 2.0 / 04/2020 UI: https://www.sesariu.eu/csear-solutions/rurway-status-lights TATM Master Plan relationship: (REC-HNA-20]-Regulatory provisions for RWSL Finalisation criteria: 1 - The amendment to ICAO PANS-ATM containing the procedures has been published AOP18-INT02 Develop the standards for RWSL design and approval Finalisation criteria: 1 - The amendment to ICAO PANS-ATM containing the procedures has been published AOP18-INT02 Develop the standards for RWSL design and approval Finalisation criteria: 1 - The amendment to ICAO PANS-ATM containing the procedures has been published Supporting material(s): EASA Action by: EASA ICAO - Annex 14 - Aerodromes, Volume I and II Uri : https://store.leao.int/ Supporting material(s): ICAO - Annex 14 - Aerodromes, Volume I and II			1			
Description & purpose: Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, veh drivers and aerodrome ATC in relation to RWSL warnings and the handling of conflicts between RWSL warnin ATC clearances. Publish the procedures in ICAO PANS-ATM. Supporting material(s): EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf: https://www.eurocontrol.in/publication/eurocontrol-specification-smgcs-services SJU - SESAR Solution 01: Data Pack for Runway status lights Uf: https://www.eurocontrol.in/publication/eurocontrol-specification-smgcs-services SJU - SESAR Solution 01: Data Pack for Runway status lights Uf: https://www.eurocontrol.in/publication/eurocontrol-specification-smgcs-services SJU - SESAR Solution 01: Data Pack for Runway status lights Uf: https://www.eurocontrol.in/publication/eurocontrol-specifications of RWSL REG - HNA-20] Regulatory provisions for RWSL AOP18-INT02 Develop the standards for RWSL design and approval From: By: Include under ARD RO-PS. Hog approximents of ARWSL adscriptions of RWSL; Include under ARD RO-PS. EASA Description & purpose: Include under ARD RO-PS. Hog areadome design the technical specifications of RWSL; SUP - SESAR Solution 01: Data Pack for Runway status lights Ur: h	AUP 10-INTUT	Develop the standards for operational use of RWSL	-	-		
Description & purpose: Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, veh drivers and aerodrome ATC in relation to RWSL warnings and the handling of conflicts between RWSL warnin ATC clearances. Publish the procedures in ICAO PANS-ATM. Supporting material(s): EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf : https://www.eurocontrol.infpublication/eurocontrol-specification-smgcs-services SJU - SESAR Solution 01: Data Pack for Runway status lights Uf : https://www.eurocontrol.infpublication/eurocontrol-specification-smgcs-services SJU - SESAR Solution 01: Data Pack for Runway status lights Uf : https://www.eurocontrol.infpublication/eurocontrol-specification services AOP18-INT02 Develop the standards for RWSL design and approval From: By: include under ARO RO-PS. the operational requirements of ARIWS, as described in ICAO Annex 14 Amdt. 13A. Include in the Certification Specifications for aerodrome design the technical specifications of RWSL; Supporting material(s): ICAO - Annex 14 - Aerodromes, Volume I and II Uf : https://store.icao.int/ SJU - SESAR Solution 01: Data Pack for Runway status lights Uf : https://store.icao.int/ SJU - SESAR Solution 01: Data Pack for Runway status lights Uf : https://store.icao.int/	Action by:	ICAO	1			
Supporting material(s): EUROCONTROL - SPEC-171 - EUROCONTROL Specification for Advanced-Surface Movement Guidance ar System (A-SMGCS) Services - Edition 2.0 / 04/2020 Uf: https://www.eurocontrol.int/publication/eurocontrol-specification-smgcs-services Supporting material(s): SU - SESAR Solution 01: Data Pack for Rumay status lights Uf: https://www.eurocontrol.int/publication/eurocontrol-specification-smgcs-services ATM Master Plan [PRC-246]-Procedures for standardised response to Rumway Status Lights elationship: If REG-HNA-20]-Regulatory provisions for RWSL Prom: By: AOP18-INT02 Develop the standards for RWSL design and approval Action by: EASA Addition of regulatory material by aligning ADR.OPS and CS-ADR-DSN with ICAO Annex 14 Amdt. 13A. Include under ADR.OPS, the operational requirements of ARIWS, as described in ICAO Annex 14; Include in the Certification Specifications for aerodrome design the technical specifications of RWSL; Supporting material(s); ICAO - Annex 14 - Aerodromes, Volume I and II Uf : https://store.icao.int/ SU - SESAR Solution 01: Data Pack for Rumay status lights Uf : https://www.sesariu.eu/sesar.solutions/rumway-status-lights From: Finalisation criteria: 1 - Amendment to ADR.OPS containing the operational requirements of ARIWS has been published Z - Amendment to ADR.OPS Containing the operational r	•	Establish standard procedures specifying responsibilities and actions that should be taken by flight crews, vehicle drivers and aerodrome ATC in relation to RWSL warnings and the handling of conflicts between RWSL warnings and				
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