

Deployment Scenario Title	Enhanced airport safety nets
Deployment Scenario Description	Enhanced airport safety nets: this includes Runway Status Lights, a fully automatic system based on Advanced Surface Movement Guidance and Control System (A-SMGCS) surveillance and associated operational procedures; it increases safety at airports by preventing runway incursions.
Essential Operational Change	Airport and TMA performance
Maturity	In deployment phase: Key SESAR Solution

Applicable Operating Environment			
Airport	Terminal Airspace	En-Route	Network

Timeline																						
2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	
				Deployment																		
								Benefit														

Performance Contribution of the DS				
Capacity	Safety	Environment	Cost-efficiency	Operational efficiency

Stakeholders affected (at least one enabler to be deployed)						
ANSP		AO		AU		Network Manager
Civil	Military	Civil	Military	Civil	Military	
TWR	TWR	APT Operator	APT Operator	Scheduled, BA Fixed, GA	Transport, Fighter, Light	

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
#01	RunWay Status Lights	RWSL (RunWay Status Lights), a fully automatic system based on A-SMGCS surveillance that can be...	OI OBJ DS EOC ICAO

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AO-0209	Enhanced Runway Usage Awareness	The runway usage awareness is enhanced thanks to implementation of the Runway Status Light (RWSL)...	SOL EN OBJ DS ICAO A

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			AERODROME-ATC-66	Tower A-CWP interfaced to the Runway Status Lights management tool	Although the Runway Status Lights are provided as a safety net to pilots and vehicle drivers,...	STK OI EN DS
🔒			AERODROME-ATC-87	RWSL management tool fed with airport surveillance data to determine runway usage and to control the airfield Runway Status Lights	The Runway Status Lights (RWSL) is a surveillance driven system that manages automatically new...	STK OI EN DS
🔒			AIRPORT-49	Airfield Ground Lighting system upgraded to provide the Runway Status Lights	The Runway Status Lights (RWSL) is a surveillance driven system that manages automatically new...	STK OI EN DS
🔒			PRO-246	Procedures for standardised response to Runway Status Lights	Procedures applicable to both pilots and vehicle drivers for standardised response to Runway...	STK OI DS
➔			AERODROME-ATC-23a	Enhanced A-SMGCS Core Surveillance function for new A-SMGCS Services	Enhanced A-SMGCS Surveillance function (improved Surveillance performance regarding the coverage...	STK OI
➔			REG-0200	Safety Targets in Relation to Reductions of Runway Incursions	Formal requirements for safety targets in relation to reductions of runway incursions to be met...	OI