

Deployment Scenario Title	Integrated surface management
Deployment Scenario Description	Integrated surface management: this Solution provides enhanced guidance assistance to mobiles (aircraft and vehicles) based on automated operation of taxiway lights and stop bars in accordance with the airfield ground lighting (AGL) operational service. Additional guidance is provided to flight crew members and vehicle drivers based on coupling of taxi route management with AGL.
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		APT Operator				

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
#47	Guidance Assistance through Airfield Ground Lighting	Enhanced Guidance Assistance to mobiles based on the automated switching of Taxiway lights and...	

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
AO-0222-A	Enhanced Guidance Assistance to mobiles based on the automated switching of Taxiway lights and Stop bars according to the 'Airfield Ground Lighting' operational service	Using Airfield Ground Lighting, mobiles will be guided along their cleared route, taking into...	

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			AERODROME- ATC-50	Advanced Airport Tower Controller Working Position (A- CWP)	Advanced Airport Tower CWP integrating updates on current HMI functionalities (Configuration,...	STK OI EN DS PCP
🔒			AERODROME- ATC-61	Enhanced surface guidance management services to process the automatic triggering of airport ground signs according to the route issued by ATC	Surface guidance management services enhanced to process the automatic triggering of airport...	STK OI EN DS
🔒			REG-0201	Means of Compliance for A- SMGCS Routing and Planning	Update of the ETSI Community Specifications and/or development of a new one and/or EASA Means of...	OI DS PCP
➔			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