

<b>Deployment Scenario Title</b>	Enhanced airborne collision avoidance for commercial air transport normal operations (ACAS Xa)
<b>Deployment Scenario Description</b>	Enhanced airborne collision avoidance for commercial air transport normal operations (ACAS Xa): this is an airborne collision avoidance system that takes advantage of optimised resolution advisories and additional surveillance data but will not change the cockpit interface (i.e. it uses the same alerts and presentation as the current traffic collision avoidance system).
<b>Essential Operational Change</b>	CNS Infrastructure and Services
<b>Maturity</b>	In development phase: Key Solutions Approaching Maturity

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	
				Scheduled, BA Fixed	Transport	

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
PJ.11-A1	Enhanced Airborne Collision Avoidance for Commercial Air Transport normal operations - ACAS Xa	Enhanced Airborne Collision Avoidance for Commercial Air Transport normal operations- ACAS Xa...	<span style="background-color: #d9534f; color: white; padding: 2px;">SOL</span> <span style="background-color: #d9534f; color: white; padding: 2px;">PJ</span> <span style="background-color: #d9534f; color: white; padding: 2px;">OI</span> <span style="background-color: #d9534f; color: white; padding: 2px;">DS</span> <span style="background-color: #5cb85c; color: white; padding: 2px;">EOC</span> <span style="background-color: #337ab7; color: white; padding: 2px;">ICAO</span>

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
CM-0808-a	Improved Collision Avoidance for commercial air transport in standard operations (ACAS Xa)	Airborne Collision Avoidance for commercial air transport in standard operations, taking...	<span style="background-color: #d9534f; color: white; padding: 2px;">SOL</span> <span style="background-color: #d9534f; color: white; padding: 2px;">OI</span> <span style="background-color: #d9534f; color: white; padding: 2px;">EN</span> <span style="background-color: #d9534f; color: white; padding: 2px;">DS</span> <span style="background-color: #337ab7; color: white; padding: 2px;">ICAO</span>

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			A/C-54a	Enhanced Airborne Collision Avoidance (ACAS)	Enhanced Airborne Collision Avoidance System with reduced RA thresholds, use of ADS-B horizontal...	<span>STK</span> <span>OI</span> <span>EN</span> <span>DS</span>