

<b>Deployment Scenario Title</b>	<b>Virtual centre concept</b>
<b>Deployment Scenario Description</b>	Virtual-centre concept: work station, service interface definition and virtual-centre concepts will provide an operating environment in which different ATS units, across different ANSPs, will appear as a single unit and will be subject to operational and technical interoperability. This will include development of the ATSU architecture, taking a service-oriented approach, with a focus on technical services and common interfaces.
<b>Essential Operational Change</b>	Virtualisation of Service Provision
<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	
APP, ENR	APP, ENR					

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
PJ.16-03	Enabling rationalisation of infrastructure using virtual centre based technology	A virtual centre is a single Air Traffic Service Unit (ATSU) or a grouping of collaborative ATSUs...	<b>PJ</b> <b>OI</b> <b>DS</b> <b>EOC</b>

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
POI-0002-SDM	Supporting rationalisation of infrastructure by using the Virtual Centre concept	A virtual centre is a single Air Traffic Service Unit (ATSU) or a grouping of collaborative ATSUs...	<b>SOL</b> <b>EN</b> <b>DS</b>

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
			ER APP ATC 184	ATM Data Service Provider for ATC services in a Virtual Centre context	The ADSP for ATC acts as the source of data for operating remotely ATC operations. It implements...	<b>STK</b> <b>OI</b> <b>DS</b>

Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			ER APP ATC 185	ATM Data Service Provider for Voice services in a Virtual Centre context	The ADSP Voice implements the functional blocks associated with G/G and A/G voice communications....	STK OI DS
🔒			ER APP ATC 186	Virtual Centre ATSU	The VC ATSUs contain the remote HMI for both ATC and Voice ADSPs. It represents the ATSU...	STK OI DS
🔒			SVC-008	Provision and Consumption of FlightDataDistribution Service in the context of Virtual Centres.	Service Interface for Flight Data Distribution (FDD) for decoupling Air Traffic Service Unit...	STK OI DS
🔒			SVC-009	Provision and Consumption of FlightDataManagement Service in the context of Virtual Centres	Service interface for Flight Data Management (FDM) for decoupling Air Traffic Service Unit (ATSU)...	STK OI DS
🔒			SVC-010	Provision and Consumption of CoordinationAndTransferManagement Service in the context of Virtual Centres	Service interface for Coordination and Transfer Management (C&TM) for decoupling Air Traffic...	STK OI DS
🔒			SVC-013	Provision and Consumption of Airspace Status Distribution Service	Introduction of a new service interface for Airspace Status Distribution for decoupling Air...	STK OI DS
🔒			SVC-014	Provision and Consumption of Arrival Sequence Distribution Service	Introduction of a new service interface for Arrival Sequence Distribution for decoupling Air...	STK OI DS
🔒			SVC-015	Provision and Consumption of Arrival Sequence Management Service	Introduction of a new service interface for Arrival Sequence Management for decoupling Air...	STK OI DS
🔒			SVC-016	Provision and Consumption of Correlation Distribution Service	Introduction of a new service interface for Correlation Distribution for decoupling Air Traffic...	STK OI DS
🔒			SVC-017	Provision and Consumption of Correlation Management Service	Introduction of a new service interface for Correlation Management for decoupling Air Traffic...	STK OI DS
🔒			SVC-018	Provision and Consumption of Medium Term Conflict Detection Distribution Service	Introduction of a new service interface for Medium Term Conflict Detection (MTCD) Distribution...	STK OI DS
🔒			SVC-019	Provision and Consumption of Medium Term Conflict Management Service	Introduction of a new service interface for Medium Term Conflict Management (MTCM) for decoupling...	STK OI DS
🔒			SVC-020	Provision and Consumption of Monitoring Aids Distribution Service	Introduction of a new service interface for Monitoring Aids Distribution for decoupling Air...	STK OI DS
🔒			SVC-021	Provision and Consumption of Operational Configuration Distribution Service	Introduction of a new service interface for Operational Configuration Distribution for decoupling...	STK OI DS

Enablers						
Required/ Optional	New/ Inherited	Develop/ Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
🔒			SVC-022	Provision and Consumption of Operational Configuration Management Service	Introduction of a new service interface for Operational Configuration Management for decoupling...	STK OI DS
🔒			SVC-023	Provision and Consumption of Safety Net (SNET) Alert Distribution Service	Introduction of a new service interface for Safety Net (SNET) Alert Distribution for decoupling...	STK OI DS
🔒			SVC-024	Provision and Consumption of SSR Code Distribution Service	Introduction of a new service interface for SSR Code Distribution for decoupling Air Traffic...	STK OI DS
🔒			SVC-025	Provision and Consumption of SSR Code Management Service	Introduction of a new service interface for SSR Code Management for decoupling Air Traffic...	STK OI DS
🔒			SVC-028	Provision and Consumption of Surveillance Data Distribution Service	Introduction of a new service interface for Surveillance Data Distribution for decoupling Air...	STK OI DS
🔒			SVC-031	Provision and Consumption of Time-based Separation Distribution Service	Introduction of a new service interface for Time-based Separation Distribution for decoupling Air...	STK OI DS
🔒			SVC-032	Provision and Consumption of Time-based Separation Management Service	Introduction of a new service interface for Time-based Separation Management for decoupling Air...	STK OI DS
🔒			SVC-033	Provision and Consumption of Voice Comm Information Distribution Service	Introduction of a new service interface for Voice Comm Information Distribution for decoupling...	STK OI DS
🔒			SVC-034	Provision and Consumption of Voice Comm Management Service	Introduction of a new service interface for Voice Comm Management for decoupling Air Traffic...	STK OI DS