

<b>Deployment Scenario Title</b>	<b>U-space U2 — initial services</b>
<b>Deployment Scenario Description</b>	U-space U2 — initial services: this deployment scenario relates to an initial set of services designed to support the safe management of beyond the visual line of sight (BVLOS) operations and a first level of interface and connection with ATM/ATC and manned aviation. This phase includes the establishment of U-space service providers within a distributed and connected architecture. Where appropriate, U2 will make use of the existing infrastructure for ATM; new opportunities for drone operations will be enabled through the exploitation of technologies from other sectors. The range of operations at low levels will increase, including some operations in controlled airspace. Drone flights will no longer be considered on a case-by-case basis, and some BVLOS operations will become routine. The U-space initial services will include at minimum the following: tactical geo-fencing, emergency management, strategic deconfliction, weather information services, tracking, flight planning management, monitoring, traffic information, drone aeronautical information management and procedural interface with ATC.
<b>Essential Operational Change</b>	U-space services
<b>Maturity</b>	In development phase: Key Solutions Approaching Maturity

<b>Applicable Operating Environment</b>			
<b>Airport</b>	<b>Terminal Airspace</b>	<b>En-Route</b>	<b>Network</b>

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

<b>Performance Contribution of the DS</b>				
<b>Capacity</b>	<b>Safety</b>	<b>Environment</b>	<b>Cost-efficiency</b>	<b>Operational efficiency</b>

<b>Stakeholders affected (at least one enabler to be deployed)</b>						
<b>ANSP</b>		<b>AO</b>		<b>AU</b>		<b>Network Manager</b>
<b>Civil</b>	<b>Military</b>	<b>Civil</b>	<b>Military</b>	<b>Civil</b>	<b>Military</b>	

SESAR Solutions			
Solution Code	Solution Title	Solution Description	Related Elements
U2S-01	Tactical geo-fencing service	Compared to U1 pre-tactical geo-fencing, tactical geo-fencing brings the possibility to update...	PJ DS EOC
U2S-02	Emergency Management Service	The service receives emergency alerts from operators (e.g. loss of control), and informs relevant...	PJ DS EOC
U2S-03	Strategic de-confliction service	The service provides de-confliction assistance to a drone operator at strategic level (when the...	PJ DS EOC
U2S-04	Weather information service	The weather information service provides drone operators with forecast and actual weather...	PJ DS EOC
U2S-05	Tracking service	This refers to the service provider using cooperative and non cooperative surveillance data to...	PJ DS EOC
U2S-06	Flight planning management service	This service covers the receipt of a flight notification or a flight plan and provides the...	PJ DS EOC
U2S-07	Monitoring service	Subject to appropriate data-quality requirements, this service retrieves data from the tracking...	PJ DS EOC
U2S-08	Traffic information service	The traffic information service provides the drone operator with traffic information coming from...	PJ DS EOC
U2S-09	Drone aeronautical information management service	This service provides the operator with relevant aeronautical information for drone operations...	PJ DS EOC
U2S-10	Procedural Interface with ATC service	The service consists of a set of defined procedures for some mission types where there may be an...	PJ DS EOC

Operational Improvement Steps			
OI Step Code	OI Step Title	OI Step Description	Related Elements
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Enablers						
Required/Optional	New/Inherited	Develop/Use	Enabler Code	Enabler Title	Enabler Description	Related Elements
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