

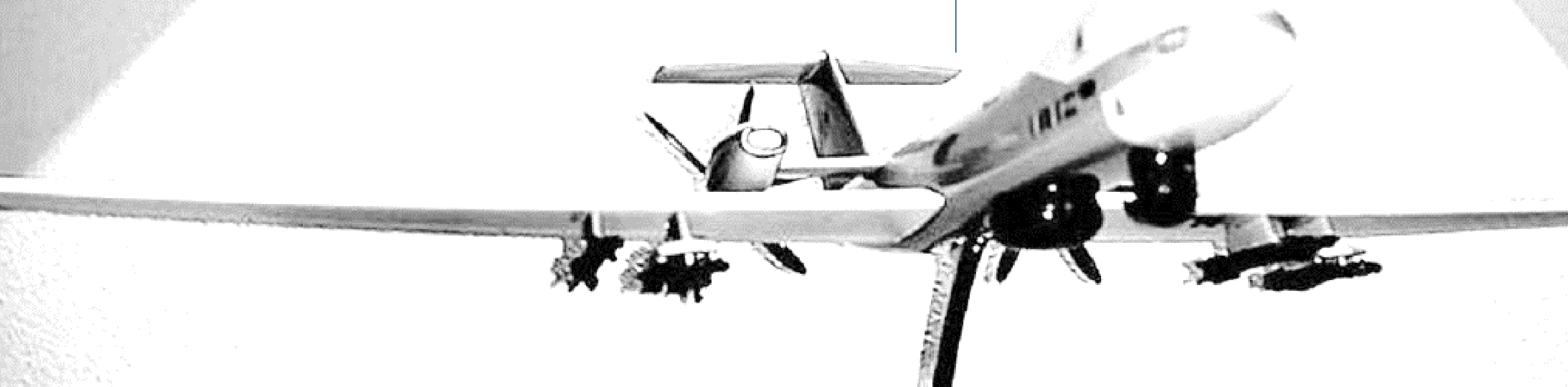


USSP for Drone Operations Military Perspective

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Agenda

- The EDA – Who we are and what we do 01
- The Military & U-space 02
- Proposed Common Military Position 03
- Other UAS Activities 04







THE EDA WHO WE ARE WHAT WE DO



THE ROLE OF EDA (28MAY2024)



*LEVERAGING SYNERGIES WITH
EU STAKEHOLDERS*



*DEVELOPING COOPERATION
WITH THIRD PARTIES & NATO*



The screenshot shows the EDA website page for 'UAS Integration'. The page features a navigation menu at the top with options like 'News and Events', 'What we do', 'Who we are', 'Publications & Data', 'Careers', 'Procurement', and 'Portals'. Below the navigation is a breadcrumb trail: 'Home > What we do > All activities > UAS Integration'. The main content area has a large blue header with the text 'UAS INTEGRATION' and a background image of a military aircraft flying over a globe with a network overlay. Below the header is a 'SUMMARY' section with a paragraph of text. To the right of the summary are three metadata fields: 'Since July/2016', 'Participating Countries All member states', and 'Partners N/A'. Below the summary is a 'Goals' section with a list of six bullet points.

UAS INTEGRATION

SUMMARY

As important as UAS are today, their integration into the Airspace is still underway, with the overall goal of full integration by 2030. As a result, a number of initiatives are in place at EDA, under the Single European Sky Unit, that range from expert group management to budget allocation and project launches. These aim at ensuring that the goals set below are accomplished.

Since
July/2016

Participating Countries
All member states

Partners
N/A

Goals

- » Ensuring its mandate, emanated by Ministerial agreement, to reinforce EDA's position as the preferred cooperation and management structure at EU level ([here](#)), the European Defence Agency's work in the field UAS aims at:
- » Promoting the Integration of military UAS in non-segregated airspace in the context of the Single European Sky (for more information, please consult the [page on SES](#))
- » Promoting synergies among Member States operating large military RPAS
- » Support to the development of a European medium-altitude long endurance (MALE) Remotely Piloted Aircraft System (RPAS)
- » Support the development of defence capabilities and military cooperation and harmonisation in the use of UAS among Member States
- » Stimulate Research and Technology (R&T) and strengthening the European defence industry in UAS and Counter-UAS technology, processes and procedures
- » Act as an interface between the military and other stakeholders, e.g., EASA, EUROCONTROL, SESAR Joint Undertaking



Integration of military RPAS into the European ATM:

- ✓ **Accommodation (today - 2025)**
- ✓ **Full integration (2025 - 2030)**



The Military and U-space

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D1 – U-SPACE EVALUATION
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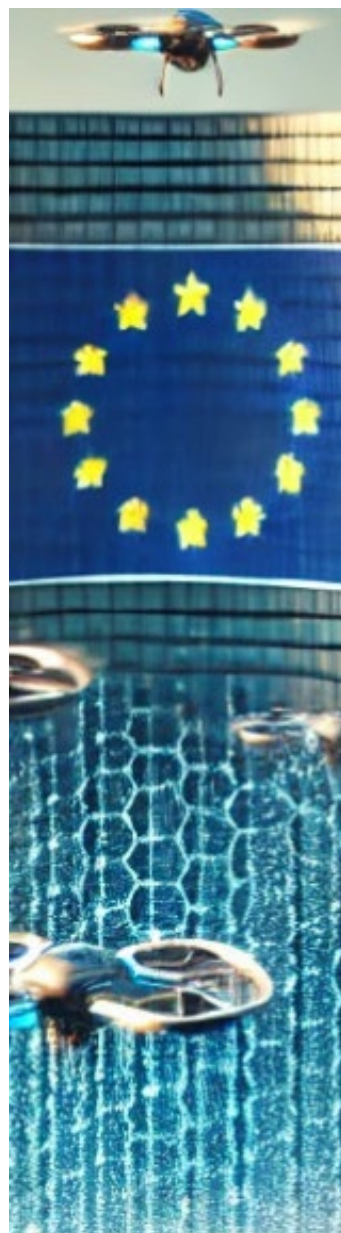
STATE OF THE ART AT NATIONAL LEVEL



- **Safety** for Military (low-level) operations
- **Security** of (Military) infrastructures, assets and operations
- **Financial impacts** of U-space implementation on the Military



CONSIDERATIONS FOR STAKEHOLDERS



- Military aircraft will need access to U-space.
- More actors, more complexity -> more time to schedule military missions.
- E-conspicuity: clear benefit but risk of confidentiality for certain missions.
- Increasing threat within EU of state-sponsored sabotage and hybrid warfare reduces military willingness to become conspicuous (e.g. Strava geolocation attacks).
- Military will benefit from the Recognised Air Picture offered by U-space which will improve Air Surveillance & Defence.

- **Scenario 1:** consumer of U-space services;
- **Scenario 2:** consumer and provider of information to CIS;
- **Scenario 3:** national military USSP;
- **Scenario 4:** pan-European military USSP.

SWOT and other analyses were conducted for each Scenario.



Scenario 2: consumer and provider of information to CIS;



- **MIL have experience** in civ-mil cooperation;
 - **CIV-MIL harmonisation** of processes and procedures
 - **Efficient** ATM/U-space interface
 - **Efficient** DAR
-
- Single CISP and military invited to define services for the MIL, based on information shared MIL (and collected by the CISP)
 - In MS where no CISP will be designated, MIL should be involved in the CIS
 - Depending on national importance, it could be a first step to Scenario 3 (military USSP)

- **Military authorities in U-space services shall follow Member State regulation.**
Source EASA
- **Geographical zones**, e.g., Helicopter Training Areas and Low Flying Areas need to be provided to drone operators to protect against conflicts with unmanned traffic.
- **Dynamic Airspace Configuration (DAC)** – EU IR2021/665 requires DAC within controlled airspace – the study recommends extending this to any type of U-space (controlled or uncontrolled) to protect UAS operators and military.
- **National Air Operations Center** could act as **interface** between military ATC and USSPs for implementing DAC.





Proposed Common Military Position Under Review By Member States Experts

- Governance

- Every action/decision shall be assessed for its potential to impact on the military

- Financial

- Information sharing should not charge the military as they provide critical security to all U-space stakeholders

- Operational

- CISPs and USSPs should facilitate the access to State aircraft and UAS without delay
- Temporarily close portion U-space for high priority missions (e.g., loss of life, public security)

- Technical

- What data are the military willing to share
- Data confidentiality

- International

- EDA Member States and NATO



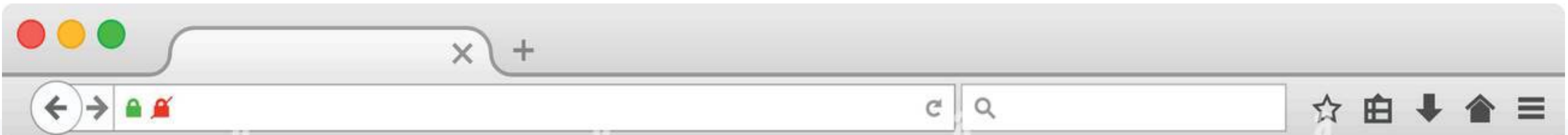


Other UAS Activities of Interest (to you)

MILITARY UAS RISK ASSESSMENT TOOL



MILITARY UAS RISK ASSESSMENT TOOL



MIL-UAS Risk Assessment UAS Fleet Admin Management Methodology Log-out

General Info	Drone Selection	Scenario Definition	MDARC	DIAC	Operational Checklist	CAC	Final Summary
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UAS Selection

Choose a drone for your safety evaluation. Only one drone can

Proceed with selected drone

Create UAS

	Model	Engine	Dimension	Cruise Speed
<input checked="" type="radio"/>	MALE 1	Combu	20	200



CLUE UTM: Deployed and Poised to Scale - Inside Unmanned Systems

- Collaborative Low-Altitude Unmanned Aircraft System Integration Effort (CLUE)- TRL7
- UTM within controlled airspace – DOD ATCOs
- Integrated manned and unmanned air ops (3D view)
- Sensor agnostic integrator for detect, track and identify
- Handles flight requests and authorisations and live tracking
- BVLOS ops enabled
- Challenges : FAA Certification Standards and access to UAS Sensor suites



THANK YOU!

More Info visit EDA SES website  [Activities Search \(europa.eu\)](#)

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