

Position Description

Version: 1.0

Uncrewed Aircraft Systems (UAS) Traffic Management (UTM) Specialist

Position detail

Reports to	UTM Program Manager
Classification	MRP1
Group	Chief Customer and External Relations
Location	All, Canberra/Brisbane/Melbourne Preferred

Organisational environment

Airservices is a government-owned organisation providing safe, secure, efficient and environmentally responsible services to the aviation industry.

Each year we manage over four million aircraft movements carrying more than 156 million passengers, and provide air navigation services across 11 per cent of the world's airspace.

Airservices has two major operating centres in Melbourne and Brisbane and a corporate office in Canberra. We operate 29 air traffic towers at international and regional airports, and provide aviation rescue fire fighting services at 26 Australian airports.

Airservices is currently undergoing a transformation. We have ten, large-scale and exciting change programs being delivered to meet the needs of the ever-changing airspace environment and our customers. To address these evolving needs, Airservices has established the Uncrewed Services Change Program to deliver cutting-edge services to our emerging airspace users, including Uncrewed Aircraft Systems (UAS) operators (or 'drones') and Advanced Air Mobility (including 'air taxis'). Airservices is delivering digital and automated capabilities that will underpin Australia's UAS Traffic Management (UTM) system, providing new services to our emerging customers, and leveraging newly built capabilities to transform the delivery of air traffic management sustainably into the future.

We are committed to continuing to improve our business by providing our customers with services they value, and embedding new ways of working and technology investments to further innovate and optimise.

Primary purpose of position

The Uncrewed Aircraft Systems (UAS) Traffic Management (UTM) Specialist plays a key role in designing and delivering the UTM program within Uncrewed Services. The role will provide UTM and/or complex UAS knowledge and expertise to support the successful delivery of the UTM program.

You will report to the UTM Program Manager and support the UTM program by leveraging your expertise in domestic and international UTM and UAS developments. Your role will include contributing to the strategy, ensuring compliance with evolving regulatory standards, navigating uncertain assurance and certification processes, and effectively communicating with diverse stakeholders.

You will work closely with internal and external project teams, to support the realisation of program benefits and support the safe growth of the UAS industry in Australia. Your role will involve staying informed on UAS industry developments, as well as international approaches to UTM and industry standards.

Accountabilities and responsibilities

Position Specific

- Use your extensive experience and deep understanding of uncrewed aircraft operations to co-develop and implement strategies for delivering UTM capabilities in Australia, ensuring they support

organisation and government objectives for the safe operation and growth of UAS and emerging aviation technologies.

- Define and develop technical requirements for Airservices' UTM projects, including the Flight Information Management System (FIMS), and integration with UTM Service Suppliers (USS) and other components of the UTM ecosystem.
- Work closely with the FIMS Program Manager, project managers, and the FIMS vendor to deliver UTM capabilities, identifying and advising on scope changes, quality assurance and other technical aspects to meet project objectives.
- Drawing on your technical expertise and domain knowledge, help navigate the FIMS project through unclear regulatory approval, assurance and certification pathways.
- Monitor regulatory, policy and other external developments affecting the UTM program, assess their impact, and incorporate relevant activities into project planning in consultation with the Program Manager.
- Work across the business, as well as vendors, USS suppliers, and other government agencies, to develop and operationalise technical capabilities to achieve program objectives.
- Provide technical input and advice on a range of supporting activities, including procurement, engagement, system integration, future airspace management, safety, and expanding UTM capabilities for new airspace users.
- Create, review and oversee technical documents including Concepts of Operation, technical artefacts, implementation plans, and operational materials.
- Translate complex technical details into clear, accessible content for audiences with varying levels of technical knowledge and expertise in uncrewed systems and UTM.
- Stay informed about global trends and advancements in the UTM industry to ensure the program remains current and effective.
- Leverage industry knowledge and relationships to help develop UTM strategies that support the safe growth of UAS and emerging aviation operations in the Australian market.
- Engage in technical working groups and attend workshops and conferences, domestically and internationally where appropriate.
- Travel to attend workshops and conferences where required.

People

- Build and maintain effective working relationships across Airservices to ensure activities are aligned with organisational objectives and program timelines, and to identify and resolve issues that may impact program deliverables.
- Collaborate with cross functional and diverse technical teams, including air traffic controllers, engineers, researchers, and project specialists, to guide and deliver integration of UTM solutions into existing systems and processes.
- Support and educate relevant stakeholders about UTM, UAS and emerging aviation technology concepts and practices.
- Engage effectively with stakeholders with different levels of expertise, including government agencies, industry partners and internal teams to gather requirements, provide updates and address concerns.
- Keep the Uncrewed Services team informed about relevant domestic and international UTM developments to ensure our approach remains contemporary.

Compliance, Systems and Reporting

- Ensure activities adhere to internal Airservices' policies and regulatory requirements including safety, environmental, risk and compliance.
- Comply with Airservices processes and procedures including management instructions and national operating standards.

Safety

- Demonstrate safety behaviours consistent with enterprise strategies.
- Support UTM safety program by liaising with safety team and supporting the development of safety artefacts.
- Support project compliance with applicable safety standards.

Key performance indicators

Efficient, Effective and Accountable

- Builds and maintains effective relationships at strategic and working levels.
- Contribute to the achievement of Uncrewed Services objectives.
- Deliverables are completed to a professional standard and within deadlines.
- Understand complex technical concepts and transform them into clear concise and engaging materials to stakeholders with varying technical knowledge.
- Effective management of workload, completing priorities and own performance.

Safety

- Compliance with safety, risk, environmental and any other standards
- Compliance with regulatory standards

Key relationships

- FIMS vendor
- USS developers
- Members of the Airservices Value Chain
- Civil Aviation Safety Authority (CASA)
- Department of Infrastructure, Transport, Regional Development, Communications and the Arts (DITRDCA)

Skills, competencies and qualifications

- Bachelor's degree in aerospace engineering, aviation, computer science, or related field
- Experience (3+ years) in UTM and/or complex UAS operations, with a working knowledge of applicable safety risk management, aviation regulation and airspace frameworks.
- Proven track record of leading projects through complex assurance pathways.
- Experience working collaboratively with industry partners in an often ambiguous and nascent environment.
- Strong analytical and problem-solving skills.
- Excellent communication skills with the ability to convey technical information to diverse audiences through written documents, presentations and discussions.
- Proficiency in writing technical documents including reports, concept of operations, and specifications with attention to detail and accuracy.
- Strong teamwork and collaboration skills with the ability to work across multi-disciplinary teams and influence decision making processes.
- Strong understanding of global UTM and UAS regulatory frameworks and relevant standards from international organisations such as ICAO, EASA, FAA, JARUS, ATSM and ISO.
- Demonstrated ability to work independently, support multiple projects and meet tight deadlines in a dynamic environment.
- Familiarity with JARUS SORA, ATM regulations and/or ATC operations highly desirable.

Performance standards and behaviours

As a member of Airservices, you will consistently demonstrate performance standards and behaviours that meet our Code of Conduct. This includes:

- Treating everyone with dignity, respect and courtesy
- Acting with honesty and integrity
- Acting ethically and with care and diligence

- Complying with all Airservices' policies and procedures, and applicable Australian laws
 - Disclosing and taking reasonable steps to avoid any actual, potential or perceived conflict of interest
 - Behaving in a way that upholds our vision, mission and values, and promotes the good reputation of Airservices.
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