

Introduction

- DE 2022 Outcomes
- DE 2023 RFI Summary
- DRONE ENABLE 2023 Webinar Series
- UTM Framework Summary
- UTM Framework Edition 5 Overview
- RPAS SARPs Update



DRONE ENABLE 2022 - Outcomes

Learning from the past for a better future

- Panels
 - Facilitation Challenges & Environmental Impacts
 - Digital Road to UTM Implementation
 - Advanced Air Mobility Initial Concept of Operations
- RFI Sessions
 - Results
- All sessions are available for viewing

Experiences/Best Practices

- UTM requirements vary by State and local applications
- Strategic and tactical de-confliction
- Cooperative air traffic
- UTM development and implementation will be incremental
- UTM implementation convergence versus fragmentation

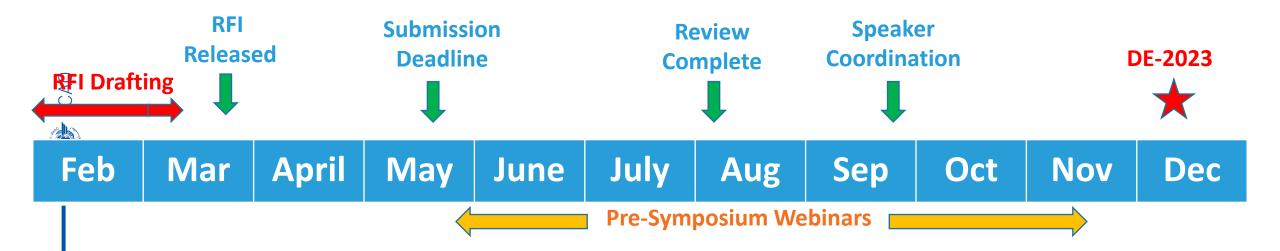
UTM Data Requirements

- Different use cases = different data tiers
- Standardization
- Data driven approaches
- Trust & Security bake it in vs sprinkle it on
- Cross-pollination and integration of data across ATM and
- UTM

DE 2023 RFI - Summary

- Two problem statements identified
 - UAS/UTM CNSS requirements
 - AAM critical elements requiring harmonization

45 submissions received – top 16 selected



DE 2023 - Webinar Series

Date	Time	Topic
30 May 23	10:00-11:30	UTM as an Enabler for Collaborative Operating Environments
18 Sept 23	10:00-11:30	UTM Financial Sustainability Strategies
14 Nov 23	10:00-12:30	UTM Deployment Best Practices and Lessons Learned Workshop

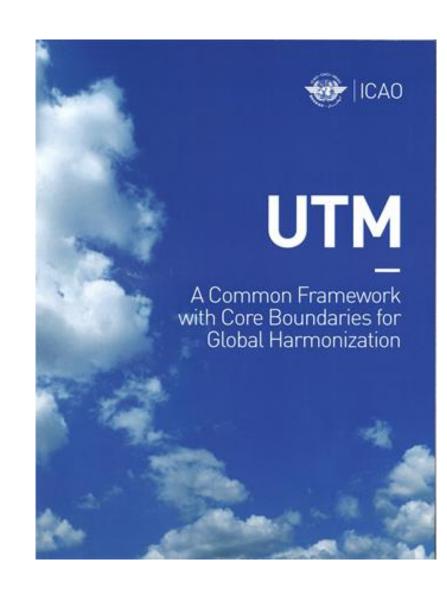


UTM Framework

 A framework and core capabilities of a "typical" UTM system

High level UTM requirements and considerations

 Not a technical solutions document



UTM Framework - Objectives

- Foster common framework and harmonization of core UTM principles
- Maintain safety and minimize disruption to existing aviation system
- Support technological developments in UTM and UAS
- Provide safety-focused recommendations for UTM system development
- Address security and environmental risks
- Enable stakeholders to grow safely and efficiently

UTM Framework – Previous Editions

EDITION 1 (RELEASED)

- Registration, identification, tracking
- Communications systems
- Geofencing-like systems
- Potential architectures

EDITION 2 (RELEASED)

- UTM-ATM boundaries and transitions
- Information exchange between ATM and UTM

EDITION 3 (RELEASED)

- UTM risk assessment/contingency procedures
- UTM service providers structure
- Separation and deconfliction in

EDITION 4 (RELEASED)

- UA performance requirements in a **UTM** environment
- UTM system certification requirements
- UTM in aerodrome environments





UTM Framework – Edition 5

EDITION 5 (DRAFTED)

- Experiences/Best Practices of UTM Systems and Services Deployments
- UTM Data Requirements



RPAS SARPS DEVELOPMENT TIMELINES

	2020	2021	2022	2023	2024	2025	2026		
Licensing			Applicable						
Airworthiness		Effective					Applicable		
C2 Link (gen.)		Effective					Applicable		
Operations					Effective		Applicable		
SM					Effective		Applicable		
C2 Link (techn.)						Effective	Applicable		
DAA						Effective	Applicable		
ATM						Effective	Applicable		
Aerodromes							Effective &		
							Applicable		
Other	Meteorology	Meteorology, Facilitation, Accident investigation, AIM, Environment, Security, Dangerous							

Goods, Infrastructure funding/financing, Legal issues...



