The Future of UAS Remote Identification
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#UAS2018
Defining the Need

- Assure safety and security needs
- Help FAA with education and enforcement of FAA Regulations
- Facilitate public safety officials’ ability to locate and communicate with a UAS operator
- Facilitate efficient management of low-level operations in all types of airspace
  - Provides optional situational awareness to air traffic management
  - Doesn’t necessarily interact with current ATC systems used for IFR or separation services
Conceptual Applicability

- Most contentious topic in the Remote ID ARC Recommendation Report
- Simple starting point – align with UAS registration requirements:
  - UAS registered under Part 48 or Part 47 (everything 250g and over)
- Simple end point – UAS operated under Part 91 would have to meet a higher bar:
  - In class A, B, C, D, or E airspace without an authorization issued under 107.41 or 91.127(c), 91.129(d), or 91.130(a); or
  - In class G airspace above 400’ feet AGL
Considering Categories for Compliance

1. ID Locations / Sites
2. Control Station Location
3. UA and Control Station Location
4. UA with Local Transmitter and Control Station Location

Not Included
UTM Architecture

FAA Cloud Services (FCS)

UTM Portal    FAA Web Applications    System Admin

Additional UTM Data (TBD)
UTM/Pilot Program Repository
A&N Repository (LAANC)
sUAS Registration Database
DATA

UTM/UTM Pilot Program Repository
Authorized Area of Operation
Dynamic Restrictions
Notification (101)
Auto Authorization (107)
ATC Coordination (107)
Additional Services
sUAS Registration
CAPABILITY

Capability 1
Authorized UAS Identification
Shared Information
UTM/UTM Pilot Program Repository
A&N Repository (LAANC)
sUAS Registration
CAPABILITY 2

SERVICES

FAA Authoritative Sources

FAA ArcGIS – UAS Facility Maps
Additional FAA Data Sources, as applicable (TBD)

Event-Driven Messages (Service Response)
Web Services, Data Requests, Messages sending via REST Interface (Service Request)

External Data Sources
Local Maps
Supplemental Data Sources

FAA Users

Industry/Public Users

UTM/Pilot Program

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