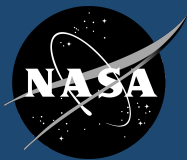


# MultiUTM Working Group

*Kickoff meeting*

Joseph Rios

*NASA Ames Research Center*



# Overview

The goal of this meeting is to establish the MutliUTM working group. This is not intended to be a deep technical discussion, though we may touch on some technical issues.

# Outline

- Initial discussion
- Terms of Reference
- Schedule Overview
- Next Steps

# Initial discussion

- NASA UTM's charter: Develop concepts, requirements, prototypes to enable safe and efficient access to the low altitude airspace for small UAS
- NASA does not implement or enforce policy or regulations. Congress and the FAA will have more to say on those issues, we want the best solution to the problem we are investigating
- For this working group, we will develop a ConOps and then a technical specification to detail how to implement (see Terms of Reference)

# Terms of Reference

## Purpose

- The MultiUTM Working Group within UTM sets out to develop a draft Concept of Operations for the interaction of multiple UTM service providers and multiple UTM implementations
- The MultiUTM Working Group will follow up the ConOps document with a technical specification targeted at potential implementers

## Term

- This Terms of Reference is effective from 01-Mar-2016 and continues until 08-Jun-2016, with the potential for extension if objectives are not yet met

## Membership

- Membership is open to NASA and all partners working with NASA on the UTM project. Partners are those with an approved RFI response and/or an agreement in place specific to UTM

# Terms of Reference

## Roles and Responsibilities

- Members commit to maintaining focus on the purpose of the working group
- Members commit to fostering collaboration within the working group
- Members commit to providing feedback and documentation in accordance with the group's deadlines or providing no feedback or documentation
- Members commit to open documentation within the working group: all documents and ideas submitted within the confines of this working group may be shared with the group and may become part of publicly-facing documentation without direct attribution or compensation to the provider
- NASA will provide at least one week's notice on meetings and deadlines
- NASA commits to consolidating the views of the group into unified documentation
- NASA commits to evaluating all submitted views and documentation
- NASA will be the primary author of the draft documentation that results from this working group, i.e. these will be NASA docs
- Members will have the opportunity to sign a letter of support for the draft documentation upon completion
- Members will have the opportunity to submit a letter outlining objections to the draft documentation upon completion

# Terms of Reference

## Meetings

- All meetings will be chaired by Joseph Rios from NASA Ames Research Center
- A meeting quorum will be 4 organizations plus NASA
- Decisions will be made by consensus when possible, however NASA reserves the right to unilateral decision making when deemed necessary by NASA
- Meetings will be virtual with invites provided by NASA
- Meetings will be recorded with access to recordings provided to the Membership
- Ad hoc subgroups are encouraged to meet outside the scheduled meetings of this working group

## Amendments

- This Terms of Reference may be amended by NASA at any time, with notification of the changes provided to the Membership

# Schedule

01	Mar	2016	Kickoff meeting for working group, hosted virtually by NASA
15	Mar	2016	Initial conceptual discussion meeting, hosted virtually by NASA
29	Mar	2016	First draft for concepts due from partners
05	Apr	2016	Meeting to discuss submitted concepts, hosted virtually by NASA
12	Apr	2016	NASA provides draft concept document
22	Apr	2016	Meeting to discuss specification documentation: expectations, etc.
26	Apr	2016	Comments on draft concept document due.
03	May	2016	Comments dispositioned by NASA, final draft document provided
10	May	2016	First draft for specifications due from partners
17	May	2016	Meeting to discuss submitted specifications
20	May	2016	NASA provides draft specification documentation
27	May	2016	Comments on draft specifications document due
07	Jun	2016	Comments dispositioned by NASA, final draft document provided
08	Jun	2016	Debrief meeting to conclude working group



# Next Steps

- Prepare for initial concept meeting on 15 Mar
- Consider the list of questions initially provided along with any other that we may have added/modified during this meeting
- Contact me if you want a slot to discuss your concept on 15 Mar
- Begin thinking about testing the concept and implementations after the conclusion of this working group: when/how/who/etc.

# Questions?

*Joseph.L.Rios@nasa.gov*

