



Open Source solution to facilitate communication amongst USSs

Scalable, industry developed & hosted ensures **data consistency** to **maximize safety** while minimizing data transfer and **protecting privacy**

FAA UTM ConOps v1

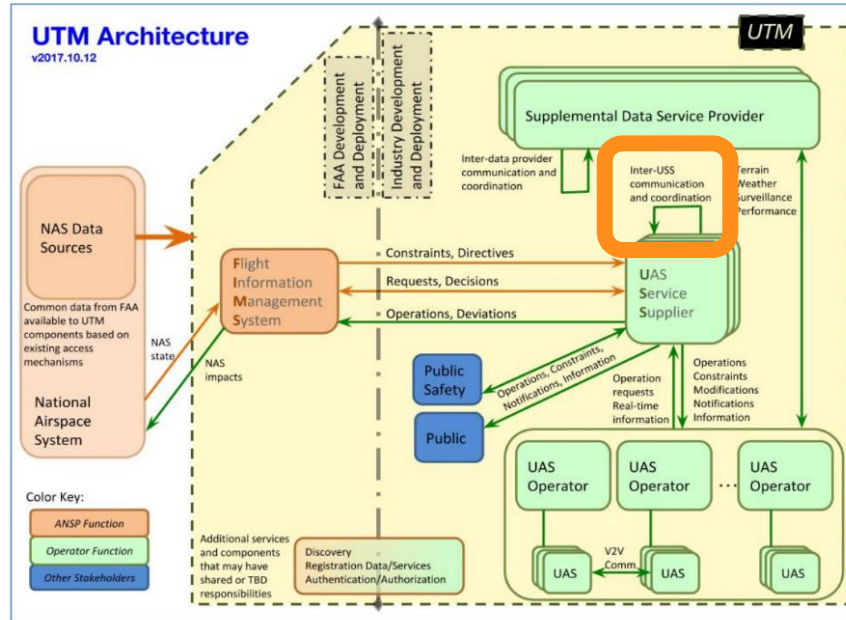


Figure 3. Notional UTM Architecture

Airbus UTM Blueprint



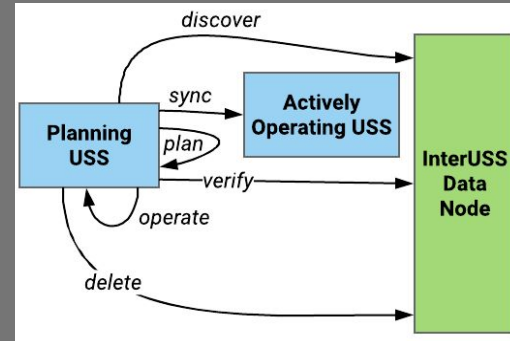
InterUSS Platform Overview

Similar to how DNS works, the platform allows USSs to discover each other to provide safety services to operators and identification to the public.

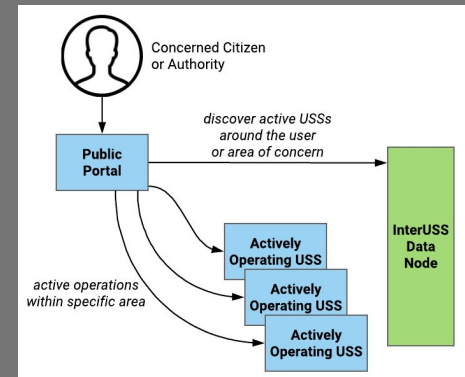
Technical solution based on Google heritage of globally distributed data, easy-to-use API, and assured consistency backbone.

Open source to allow USSs to develop new features as the drone industry evolves.

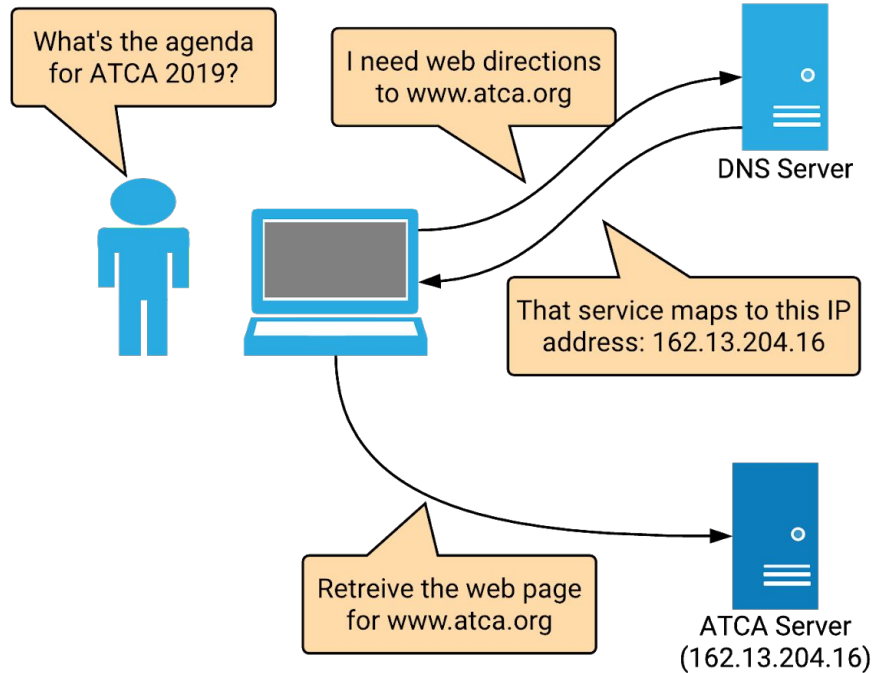
Strategic Deconfliction



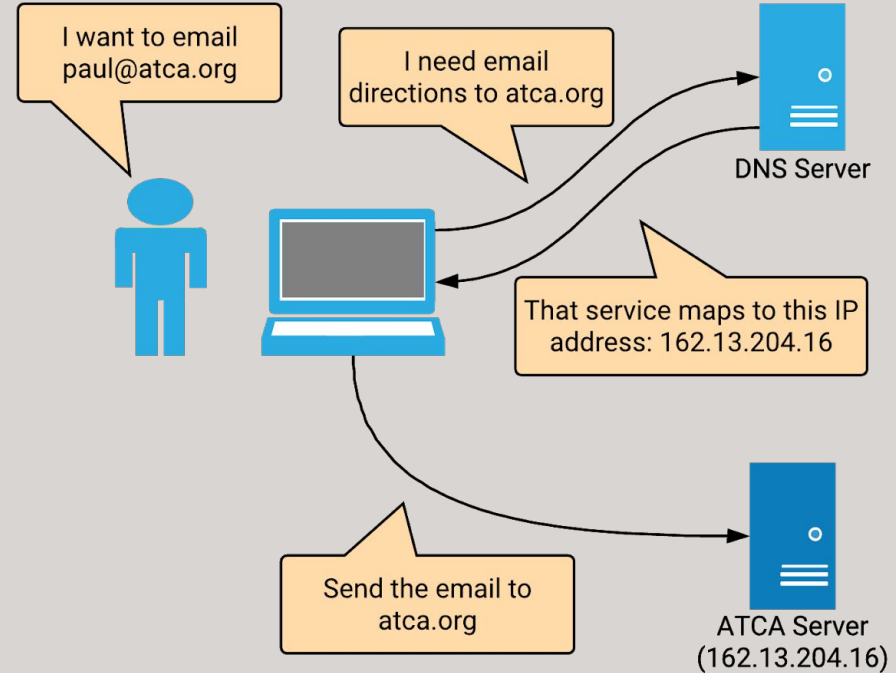
Networked Remote ID



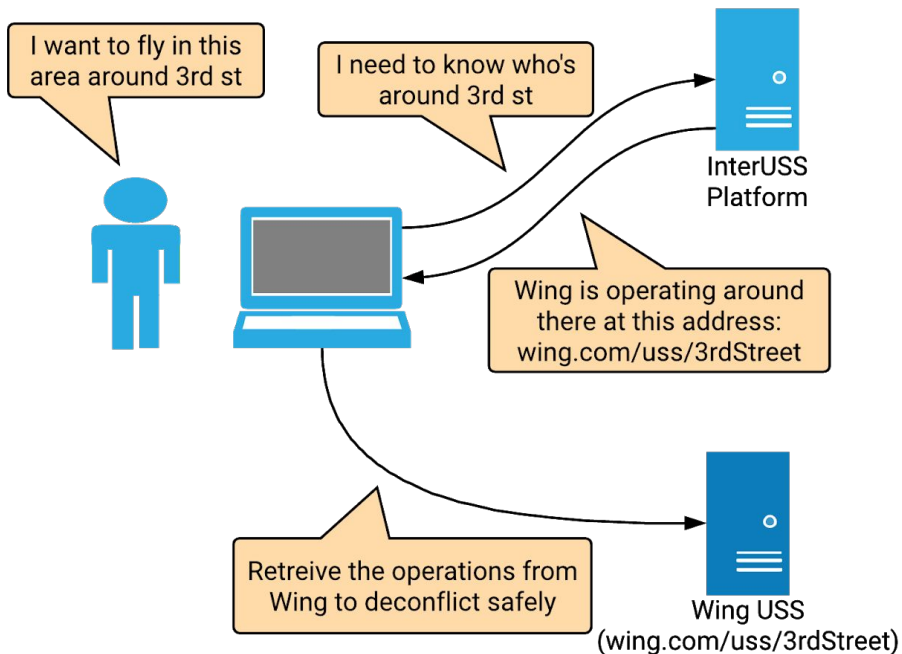
DNS for a Web Page



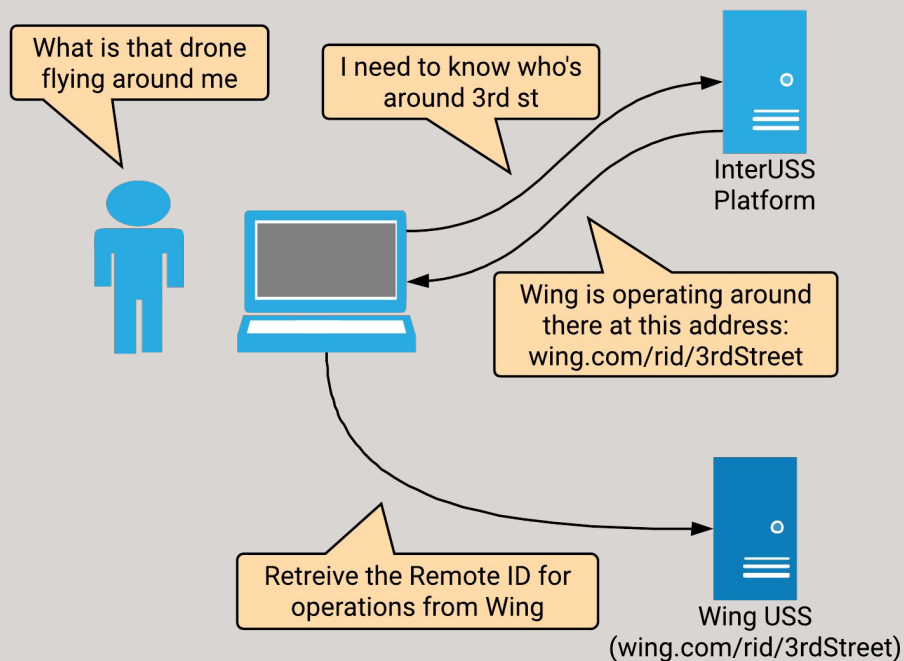
DNS for an email



Strategic Deconfliction



Networked Remote ID



Open Source Solution to USS Coordination



8

Active Forks

5

Contributors

3

In-Progress
Demonstrations

33

Organizations

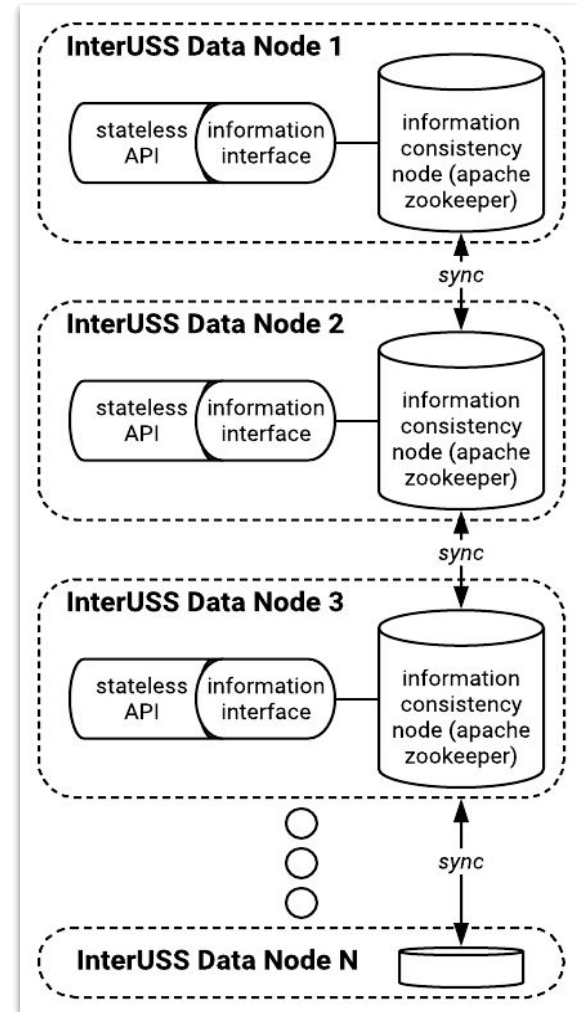
74

Group Members



Platform Architecture

- **Gridded system**
 - The world space is separated into a well known grid format, minimizing contention and over-sharing, while allowing flexibility as the number of USSs and countries with UTM systems grows.
- **Distributed Consistency**
 - Multiple open source data consistency nodes hosted by USSs result in a scalable, distributed, auditable, and flexible way to prevent race conditions when multiple USSs are planning at the same time.
- **Pull based**
 - Flight information is acquired at the time of need, which protects operator and consumer privacy while sharing the right amount of information to safely deconflict and inform multiple USSs.



Questions?

hikevin@google.com

Interested in joining the Community?

<https://groups.google.com/forum/#!forum/interuss-platform>