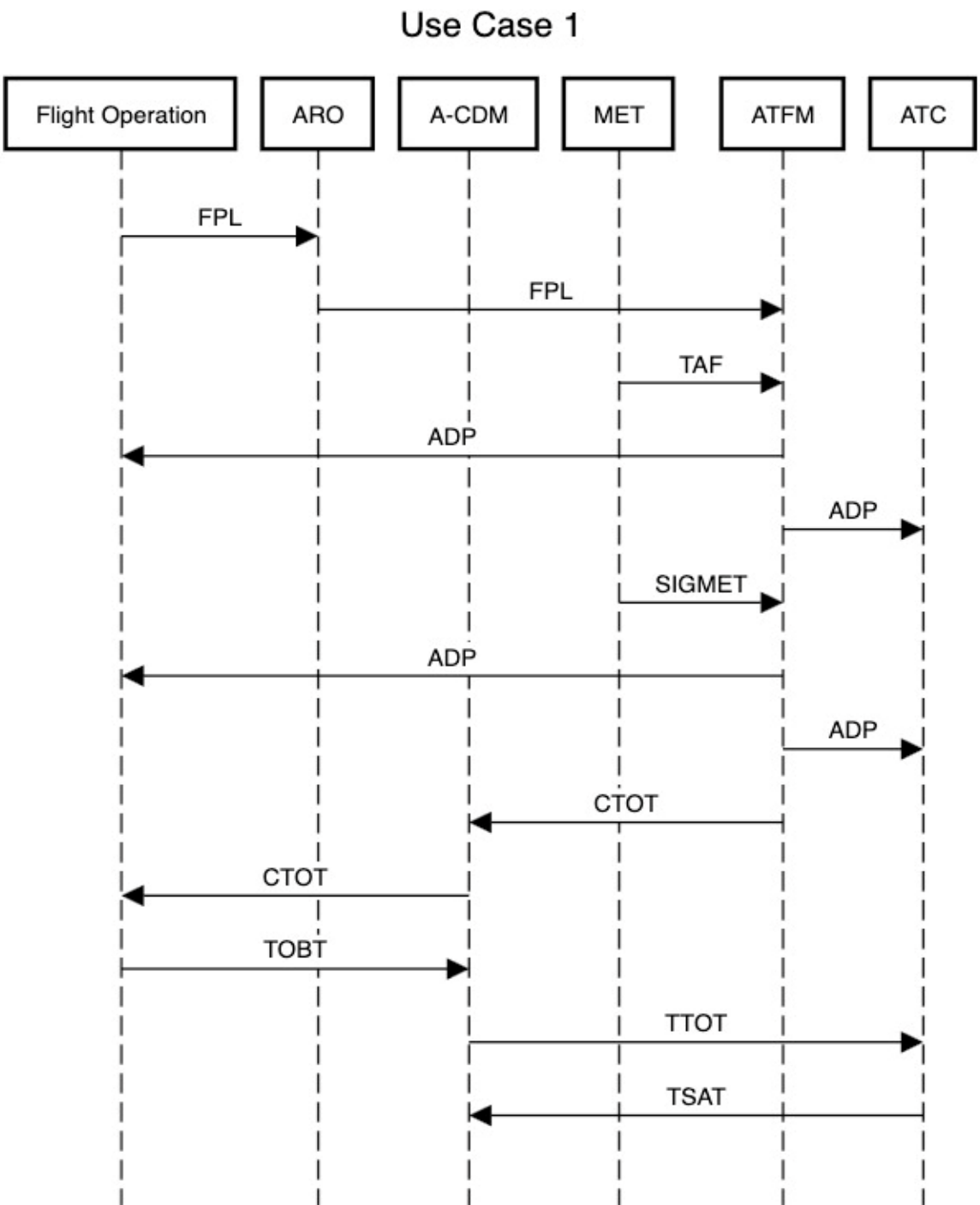


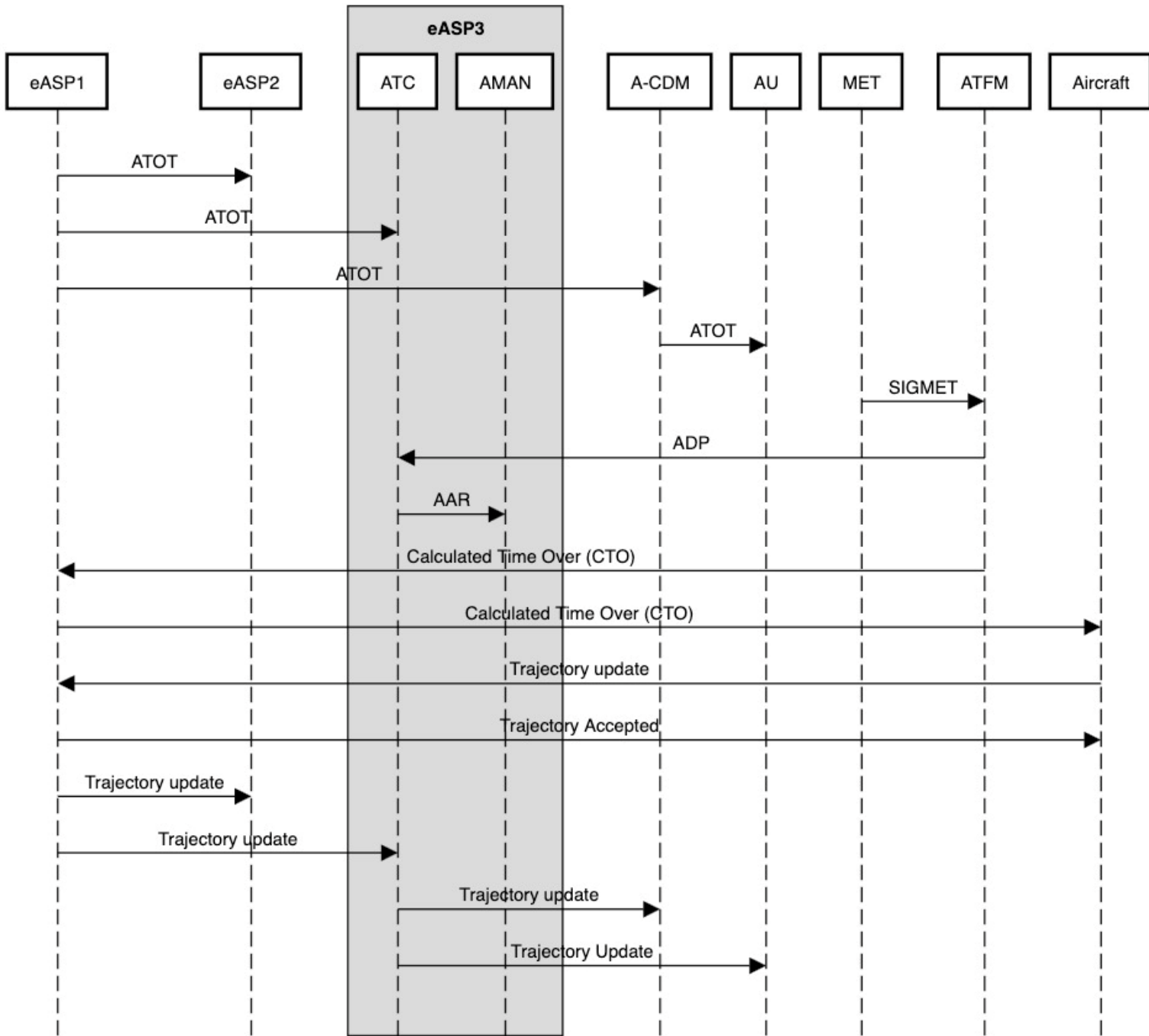
# USE CASE 1

## PRE-DEPARTURE DISRUPTION



# USE CASE 2

## IN FLIGHT DISRUPTION



# Prepared Messages to be Used in Solace

## USE CASE 1

### SIGMET

**Topic:** Jakarta/1/MET/WI\_CAI/0/MET/SIGMET

```
{
  "phenomenon": "Thunderstorm",
  "airspace": "Jakarta FIR",
  "begin": "2024-11-05T10:11:00Z",
  "end": "2024-11-05T13:30:00Z",
  "geometry": {
    "upperlimit": "FL530",
    "coordinate": "2.83 99.82 -1.62 102.15 -4.17 101.63 2.07 97.7 2.83 99.82"
  },
  "direction": "270",
  "speed": "10"
}
```

### FPL

**Topic:** Jakarta/1/ANSP/WI\_CAI/0/FLIGHT/SUBMIT\_FILED\_FLIGHT\_PLAN

```
{
  "acid": 885103,
  "type": "A359",
  "registration": "HSTHC",
  "ident": "THA433",
  "gufi": "f62427f6-108b-4c15-ac10-fabcd6d517f6"
  "departure": "VTBS",
  "destination": "WIII",
  "route": "KIGOB Y11 PASVA Y514 NUFFA DCT BIKTA B469 VMR B338 ANITO B470
BUNIK"
```

\* More/complete message will be provided as required

SWIM In Our Understanding

# SWIM Technical Infrastructure

- It is a key component of the SWIM layers.
- It includes the network, data centers, security mechanisms, and enterprise messaging services (EMS).
- It provides the foundation to host SWIM Information Services and support SWIM Information Consumers.
- It ensures secure, reliable, and efficient data exchange across aviation stakeholders.
- It facilitates the seamless sharing of real-time information, such as flight, weather, and air traffic data.

# SWIM Information Service

- A system or a piece of software that able to provide certain information within SWIM Environment using the defined SWIM data model
- SWIM Information Service is using SWIM Technical Infrastructure.
- The information provided is consumed by SWIM information consumer under agreed circumstance and method (PUB/SUB or REQ/RES)

# Our Next Steps

- Build SWIM Implementation Roadmap
- Build the requirements
- Prepare the infrastructure
- Develop (~~or buy~~) the SWIM Services
  - Test, verify, validate
  - Internal Trial
  - Domestic Trial
  - Regional Trial
- Integrate to other SWIM Service, or other supporting system

# Gap - How can SWIM TF Help Better

## Gap:

- Not all aviation stakeholders are fully aware of what SWIM is, its capabilities, and the potential benefits it brings to air traffic management.
- Some stakeholders may lack the technical expertise required to understand, implement, operate, and maintain SWIM systems effectively.
- Some stakeholders prefer to wait and see until SWIM is settled and solutions is available on the market.
- (Probably) There are some worries of transparent operation process that may impact current operations.

## For SWIM TF:

- Finalize the standards/manual
- Provide technical advisors for states
- Encourage other stakeholders (AO and AU) to join the party
- Make/convince the decision makers to buy-in or even all-in to implement SWIM