



Introduction

- SWIM A key driver for greater ATM system interoperability
 - > An integral part of the ICAO's Global Air Navigation Plan (GANP)
 - ➤ Important building block of Seamless ASEAN Sky
 - > Akin to internet for aviation, enabling seamless ATM connectivity for ASEAN

Major initiative in ASEAN ATM Master Plan

USA proposed to work with AMSs in SWIM development by providing assistance to conduct a SWIM demonstration involving all AMSs

ATWG/34

On behalf of ASEAN, Singapore and Thailand met with US-FAA, IATA and Harris Corporation to plan out activities and milestones for the demonstration.

Inaugural Planning Session

Oct 2016

Mar 2017

May 2017

Aug 2017

ATTC/14

ICAO APAC SWIM TF/1

Singapore and Thailand presented a general information of the demonstration



Purpose of the Demonstration

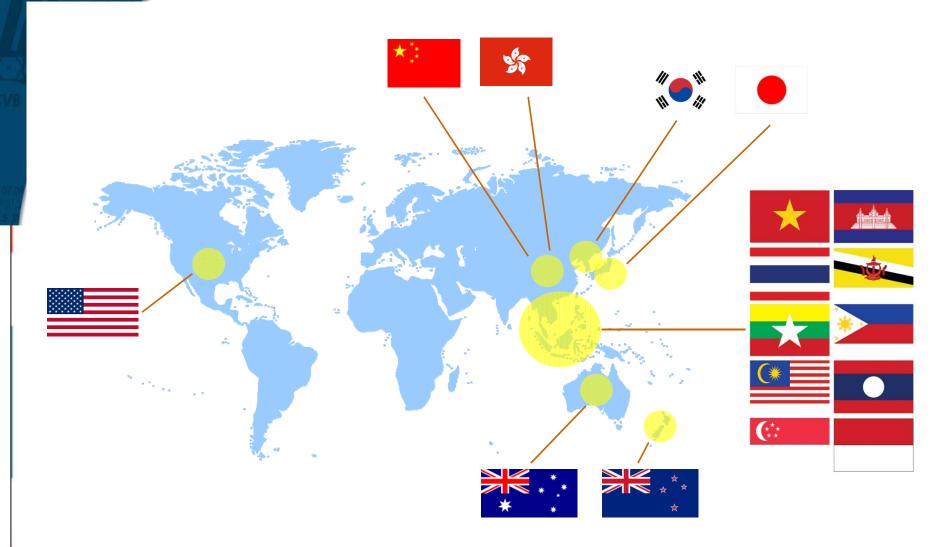
To demonstrate the principles of SWIM

To show the potential benefits of SWIM

To demonstrate a possible model of SWIM implementation for ASEAN



Scope of the Demonstration

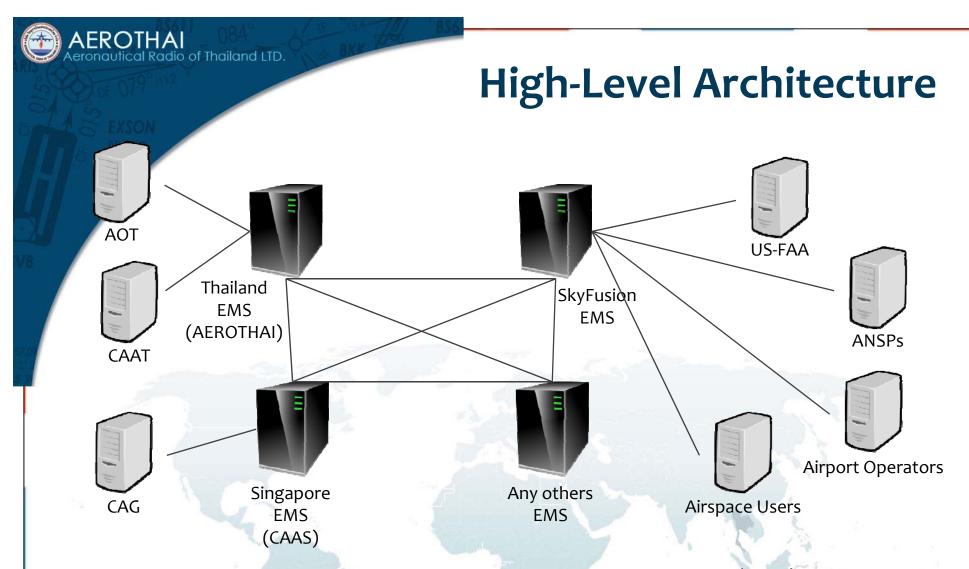




Goals of the Demonstration

- Construct an ASEAN Enterprise Messaging Service (EMS) network
- Achieve broad participation by ASEAN aviation community
- Demonstrate operational benefits of SWIM using Distributed Multi-Nodal ATFM Network-based scenarios as an anchor demonstration scenarios

 Generate greater discussion among participants on SWIM and SWIM implementation in the region



- Data will be exchanged through an Enterprise Messaging Service (EMS).
- Both pre-recorded and simulated data can be used.
- To showcase operational benefits of SWIM, use cases involving aeronautical information, flight information, and weather information sharing among stakeholders will be demonstrated.



Operational Benefits of Implementing SWIM in ASEAN

Safety

- Augmented decision making process
- Greater automation of ATM information exchange

Cost Efficiency

- Reduction in duplication of information management
- Utilization of a streamlined system

Environmental Benefits

- Optimization of resource usage
- · Reduction of fuel burn and emission



Participation Model

Level 1: Observation only

Level 2: Legacy-format data producer and consumer

Level 3: Native-SWIM-format data producer and consumer

Level 4: EMS development and native-SWIM-format data producer and consumer



Timeline of the Demonstration

