

SWIM Connect 2015



Federal Aviation
Administration

Creating a Global Framework for Information Exchange

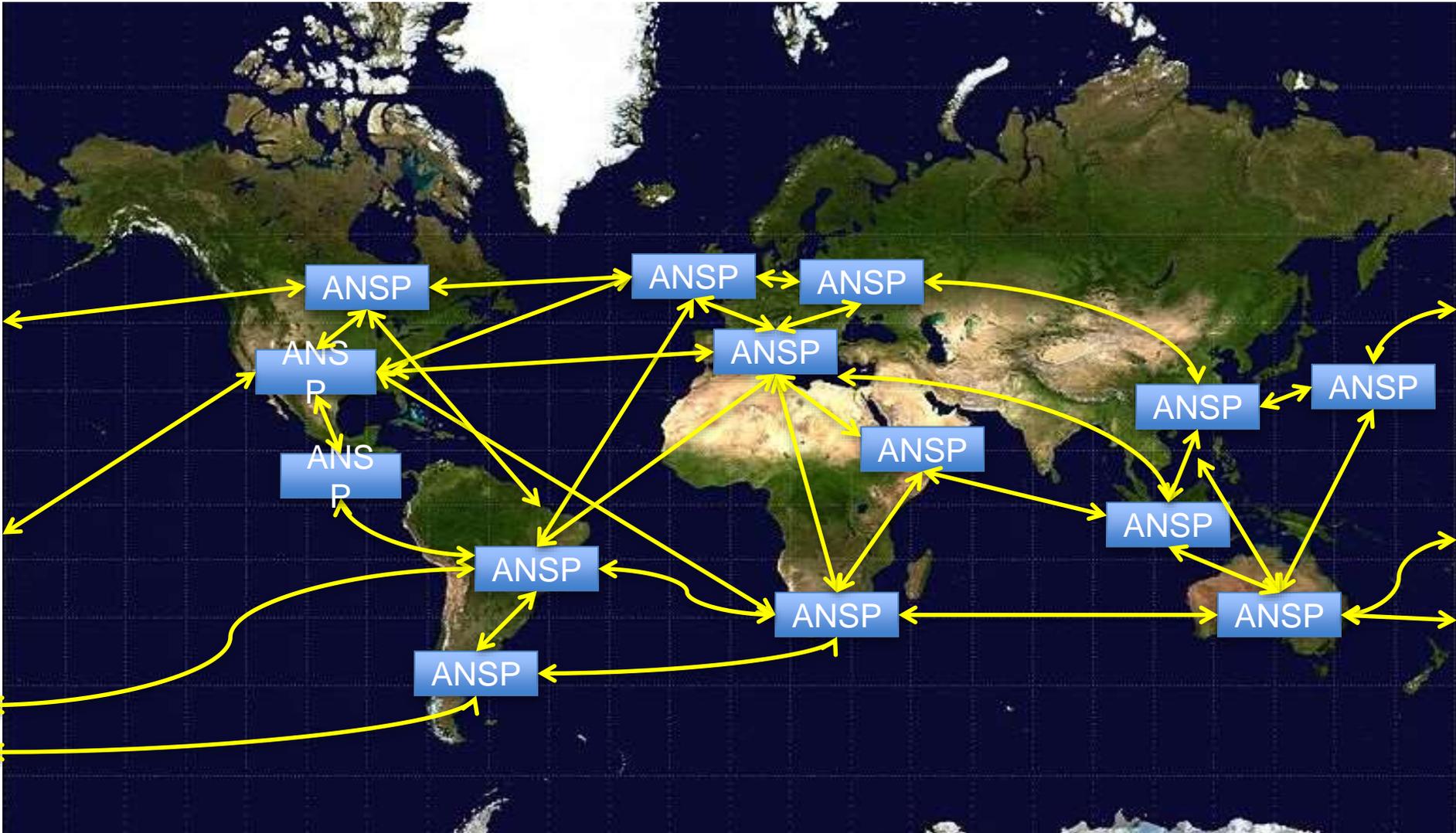
The logo for SWIM connect 2015, featuring the text "SWIM" in a large, bold, black font, followed by "connect 2015" in a smaller, black font. To the right of the text are three blue circles of varying sizes, arranged in a triangular pattern. The entire logo is set against a white circular background with a blue gradient at the bottom right.

SWIM
connect 2015

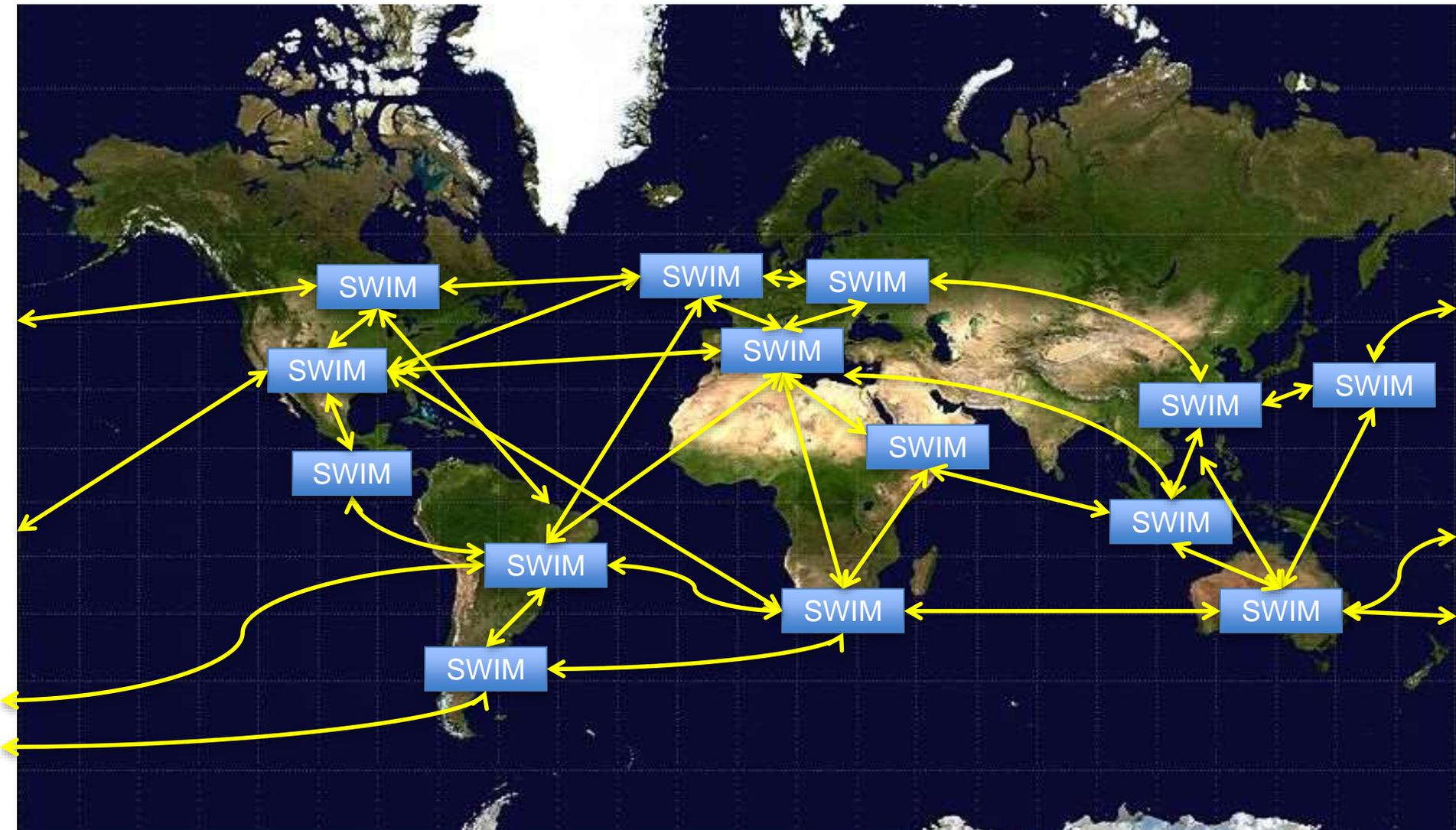
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Date: November 04, 2015

Point-to-Point Information Exchange Today



Point-to-Point SWIM Exchange Tomorrow



ICAO's Vision for SWIM

- SWIM is an integral part of the *Global Air Navigation Plan* (GANP) (Doc 9750) and is covered in a number of the aviation system block upgrades (ASBU) modules
- The Manual on Air Traffic Management System Requirements (Doc 9882) explicitly identifies the implementation of SWIM as a requirement for the future ATM System
- The Manual on SWIM Concept (Doc 10039) provides a vision for interoperable global information management while addresses the transition to a mixed operational environment

However...

- Each international SWIM implementation is different!
- And the SWIM Concept does not prescribe, or expect, a single global implementation of SWIM.
- In order for diverse SWIM implementations to communicate with one another, there is a need for a SWIM global interoperability framework that will address interoperability and governance for the exchange of information & services.

Mini Global SWIM Enterprise Messaging

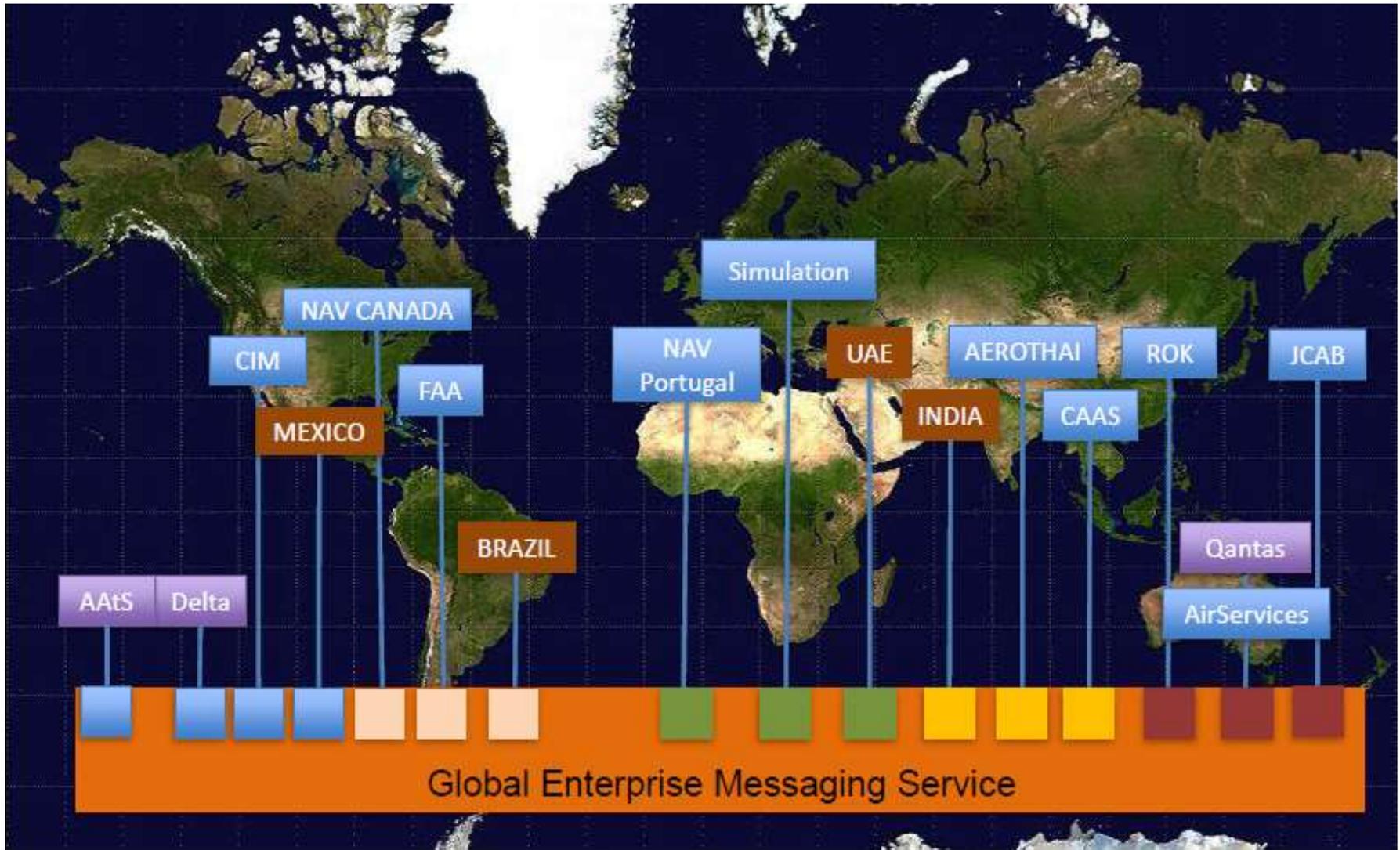


Mini Global Tie-in

The Mini Global Demonstrations seek to advance collaborative flight information exchanges utilizing SWIM and established standards amongst operators and ANSPs worldwide

- Supports ultimate goal of seamless interoperability and harmonization
- Provides a mechanism for ANSPs and operators to support the validation of systems and processes, to enhance efficiencies in their ATM systems

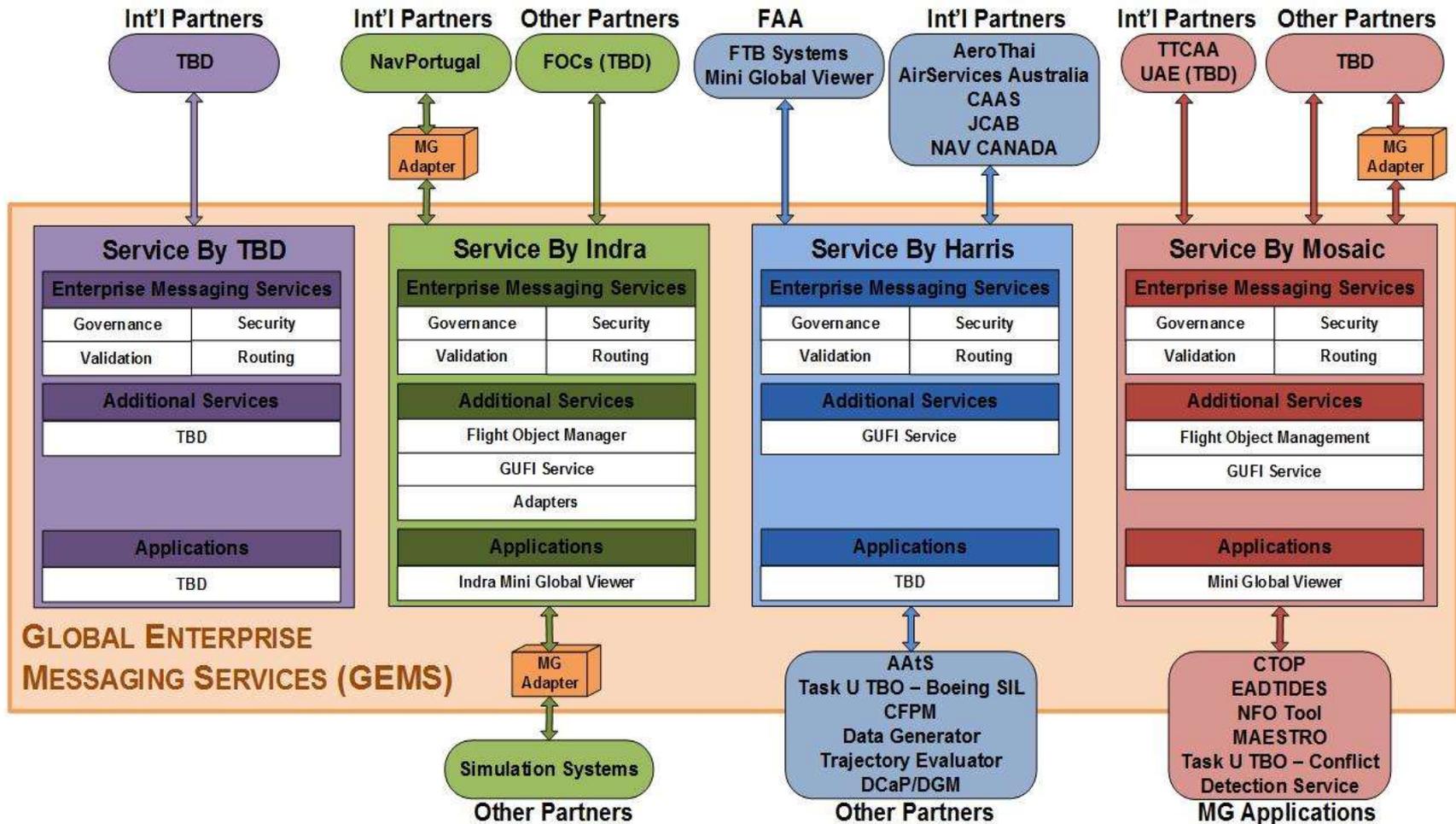
Mini Global II GEMS



GEMS Overview

- A GEMS Provider uses its EMS to provide a SWIM access point to a (SWIM) region
- Each GEMS Provider tailors its EMS to interconnect to one or more local Air Navigation Service Provider (ANSP's) SWIM nodes and/or other partner services/applications
- To enable communication between SWIM Access points, GEMS Providers interconnect using a common set of interoperable messaging protocols
- GEMS will have data sharing agreements between the individual EMS Providers

Proposed Mini Global II Architecture

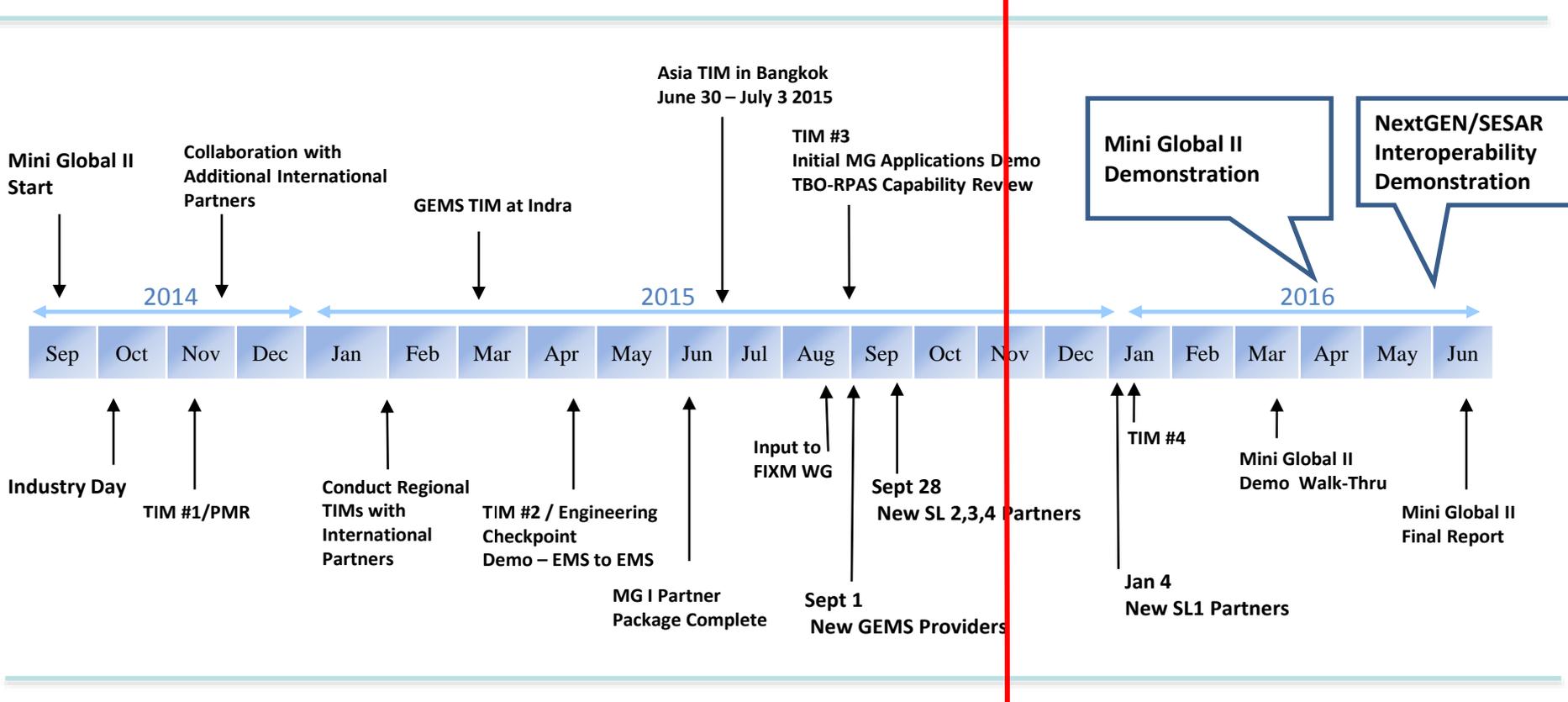


Mini Global II Partnerships



Events Schedule (2014 -2016)

Mini Global II



Questions

Thank You!