



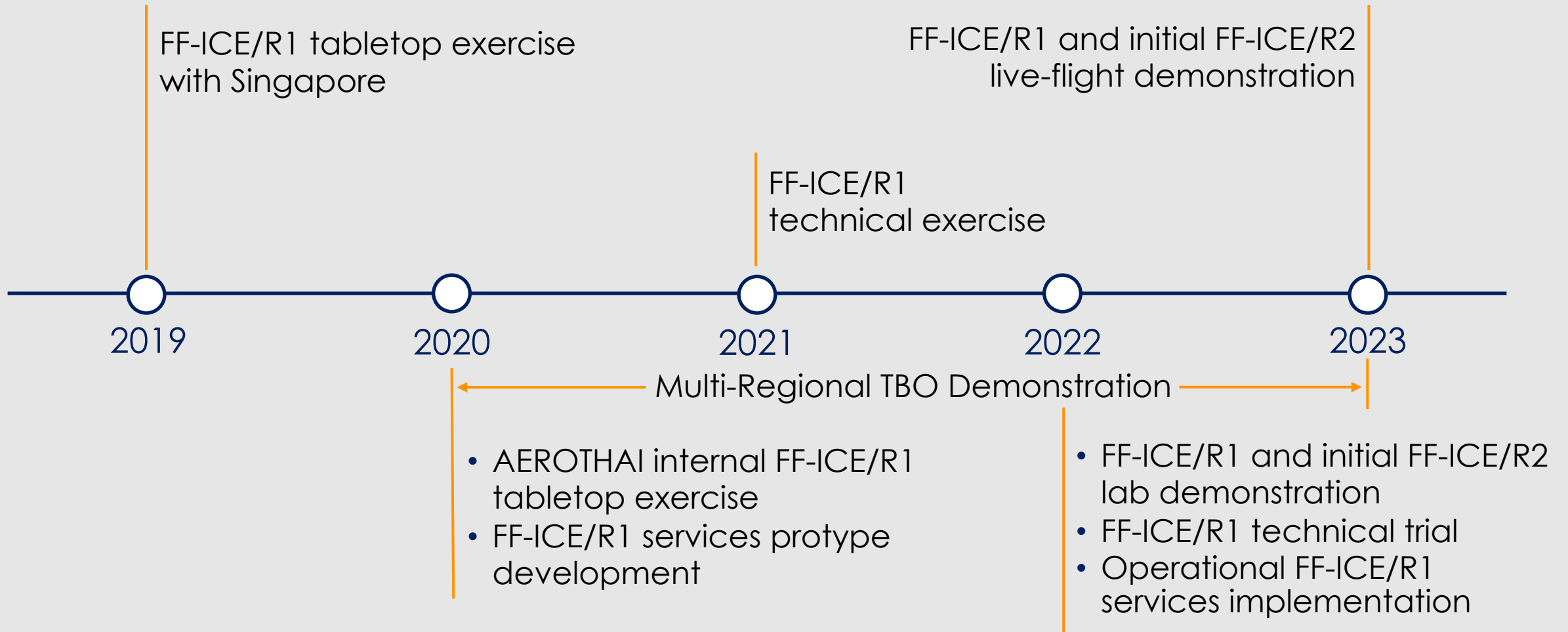
AEROTHAI FF-ICE Journey

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AEROTHAI FF-ICE Journey





At the Start ...



FF-ICE/R1 Tabletop Exercise & Prototype Development

Objectives

- To generate a better understanding of FF-ICE/R1
- To create a thought on the appropriate/possible business process among stakeholders
- To feedback ICAO for further refinement of FF-ICE implementation guidance development
- To gather requirements for services prototype development

Conduct

- Email-based FF-ICE/R1 message exchange
- Participation by ATM service providers and airspace users
- Mixed-mode operation
- Domestic requirements





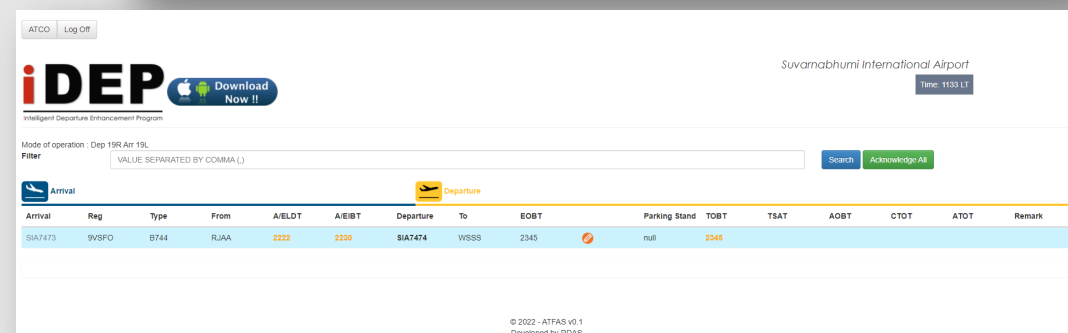
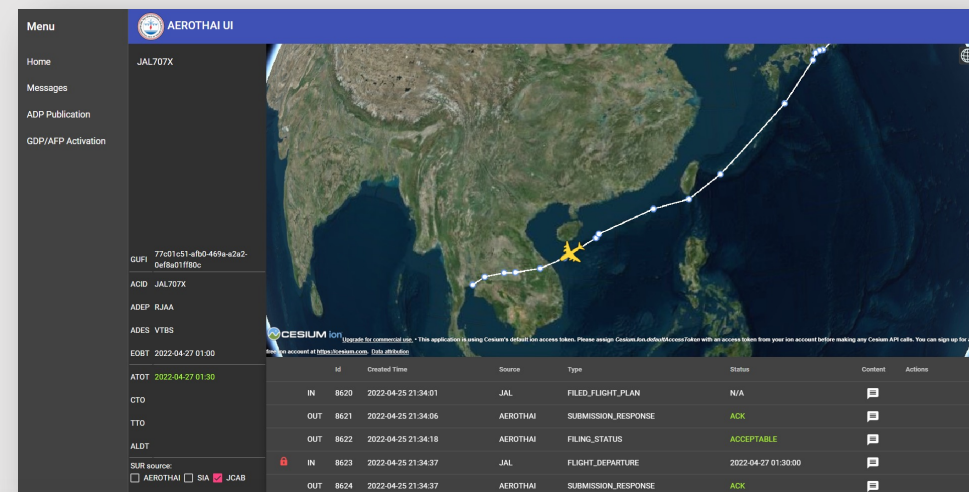
Picking up Speed



FF-ICE/R1 Technical Exercise & Lab Demonstration



- SWIM-based FF-ICE/R1 & initial FF-ICE/R2 message exchange (FIXM v4.2)
- Capability to support regional requirements
 - Asia/Pacific FIXM v4.2 Extension
- Integration between ATFM, AMAN, A-CDM, and FF-ICE
- Trajectory evaluation
 - Digital NOTAM in AIXM v5.1
 - MET constraint in IWXXM v3.0
 - Flow constraint in FLXM v2.0a





Picking up Speed



FF-ICE/R1 Technical Trial with CAAS

- SWIM-based FF-ICE/R1 message exchange (FIXM v4.2)
- 6 FF-ICE/R1 services
 - Planning service
 - Filing service
 - Trial service
 - Flight data request service
 - Notification service
 - Publication service



Continuing Journey



FF-ICE/R1 & Initial FF-ICE/R2 Live-Flight Demonstration



- SWIM-based FF-ICE/R1 & initial FF-ICE/R2 message exchange (FIXM v4.2)
- Capability to support regional requirements
 - Asia/Pacific FIXM v4.2 Extension
- Integration between ATFM, AMAN, A-CDM, and FF-ICE
- Trajectory evaluation

Source	Message Type	Context	Action
BOEINGDPS	PROPOSAL_RESP	N/A	
AEROTHAI	TRIAL_REQUEST		
BOEINGDPS	TRIAL_REQUEST		
AEROTHAI	SUBMISSION_NEW		
AEROTHAI	TRIAL_RESPONSE	CONCUR	

Continuing Journey



Operational FF-ICE/R1 Services Implementation

- Parallel implementation with operational SWIM
- Start with 2 mandatory services
 - Filing service
 - Flight data request service

Key Lessons Learned

- Trajectory modeling >> Required parameters
- Trajectory evaluation >> Clear business rules





Thank You

