
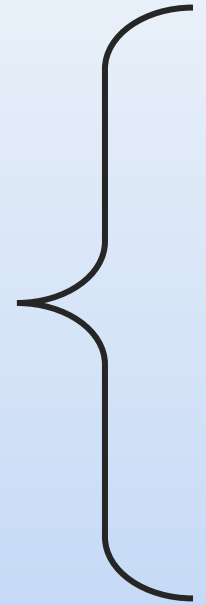


TEAM PAKISTAN PRESENTATION

DIGITAL NOTAM FOR AIRSPACE RESTRICTIONS NOTIFICATION

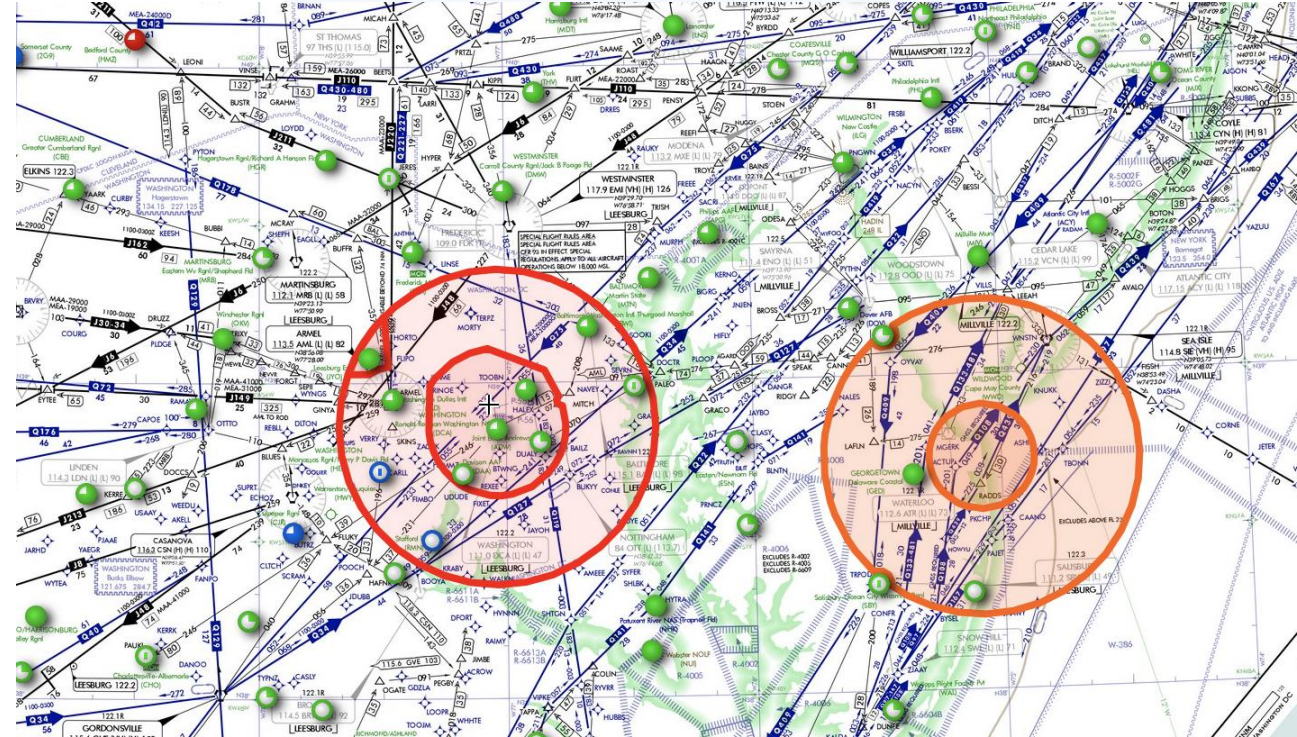


Agenda

- 
- 
- Selected Use case
 - SWIM Technical Infrastructure
 - SWIM Information Service
 - The way Forward
 - Filling the Gaps through ICAO SWIM TF

Selected Use Case

Digital NOTAM for airspace restriction notification



Current challenges

- Potential of errors due to Manual entry.
- Inefficient flight planning due to lack of real time information.
- Traffic Flow / slot management issues

5

ADDRESSING THE PROBLEM THROUGH SWIM

- Real-time flow of information to all users at the same time through Digital NOTAM.
- Automated update of airspace management in ATM systems.
- Enhanced traffic flow / slot management due to continuous flow of information.



Photo credits: [Honeywell Anthem](#)



6

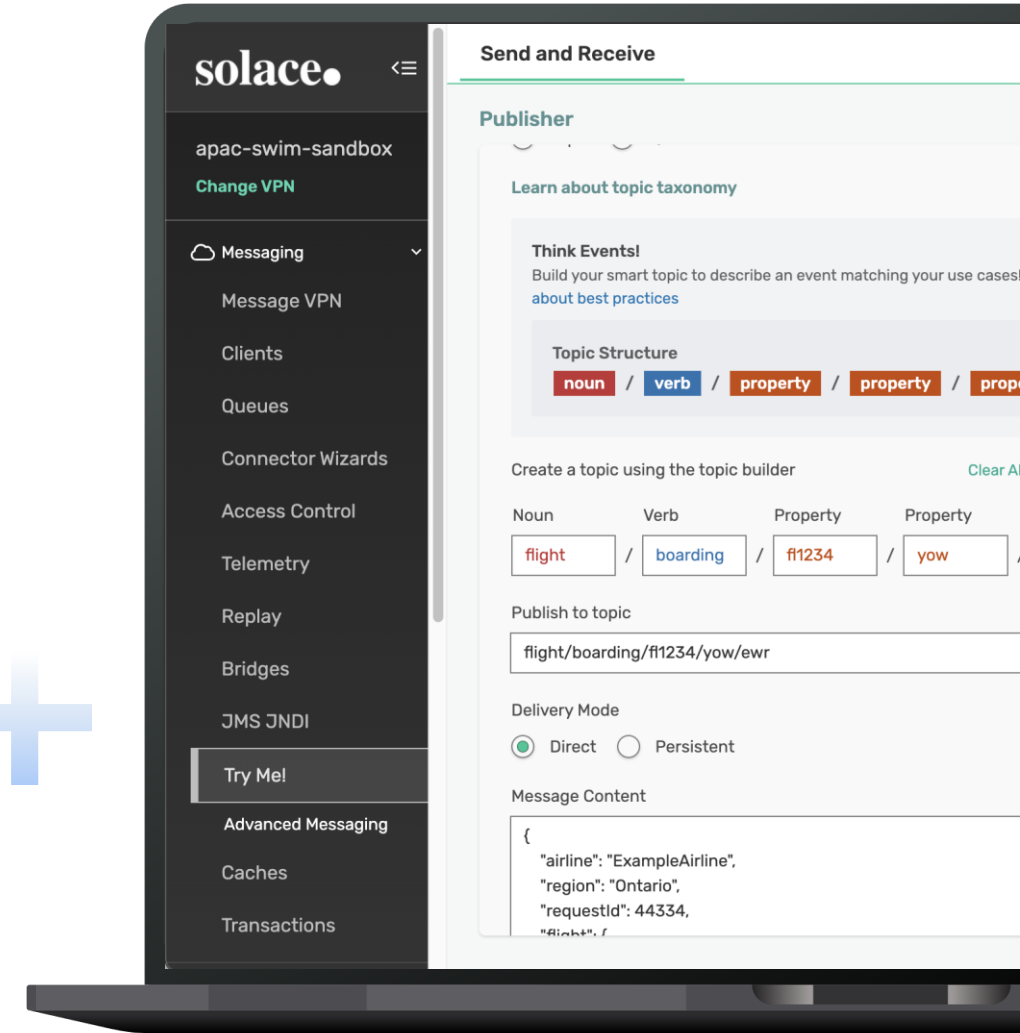
The SWIM solution - Benefits

- Operational Efficiency through:
 - Reduced Workload
 - Informed decision making
 - Enhanced safety and situational awareness
- Increased cost efficiency through improved service provision



Digital NOTAM for airspace restriction notification

SANDBOX IMPLEMENTATION



Publisher

Create a topic using the topic builder Clear All Generate Topic

NounVerbPropertyPropertyProperty

flightboardingf1234yowewr

Publish to topic

Jakarta/1/ANSP/OP_CAAPK/0/FLT/FLIGHT_STATUS/FLIGHT_DATA/N/0/0/0

Delivery Mode

☐ Direct☒ Persistent

Message Content

gml:id="ID_70725"><event:series>A</event:series><event:issued>2024-11-14T08:20:11Z</event:issued><event:scope>AE</event:scope>event:minimumFL>30</event:minimumFL><event:maximumFL>450</event:maximumFL><event:location>OPIS</event:location>event:effectiveStart>1810141500</event:effectiveStart><event:effectiveEnd>1810152300</event:effectiveEnd><event:text>CTA activated</event:text></event:NOTAM></event:textNOTAM>

Publish

Messages Published

0 Direct 1 Persistent

Clear Stats

Subscriber

Start Consume

Messages (Most Recent 20)

Clear Stats Clear Messages

1 Direct 0 Persistent 0 Non-Persistent

2024-11-07 22:27:07:141 [Topic Jakarta/1/ANSP/OP_CAAPK/0/FLT/FLIGHT_STATUS/FLIGHT_DATA/N/0/0/0]

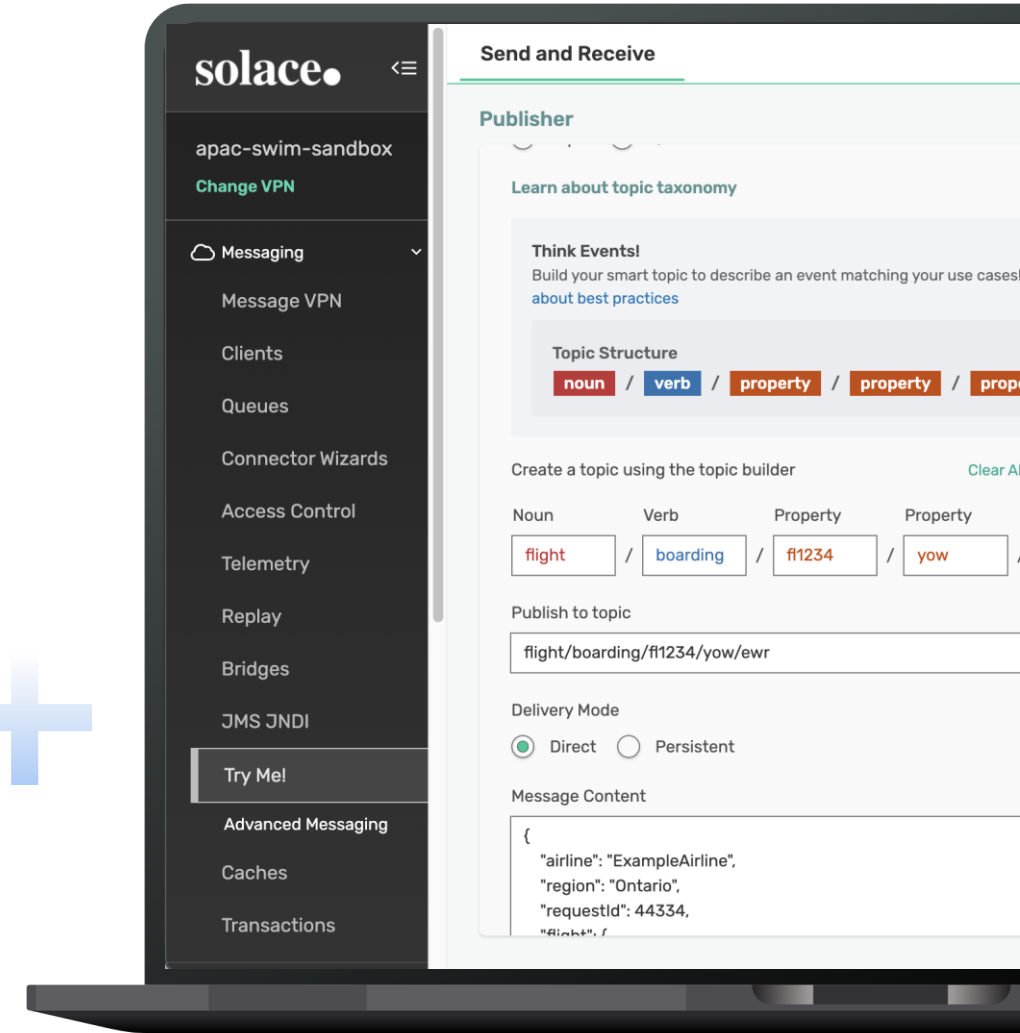
Delivery Mode: Direct

Sender Try-Me-Pub/solclientjs/chrome-130.0.0-OSX-10.15.7/2060529646/0
Id: 002

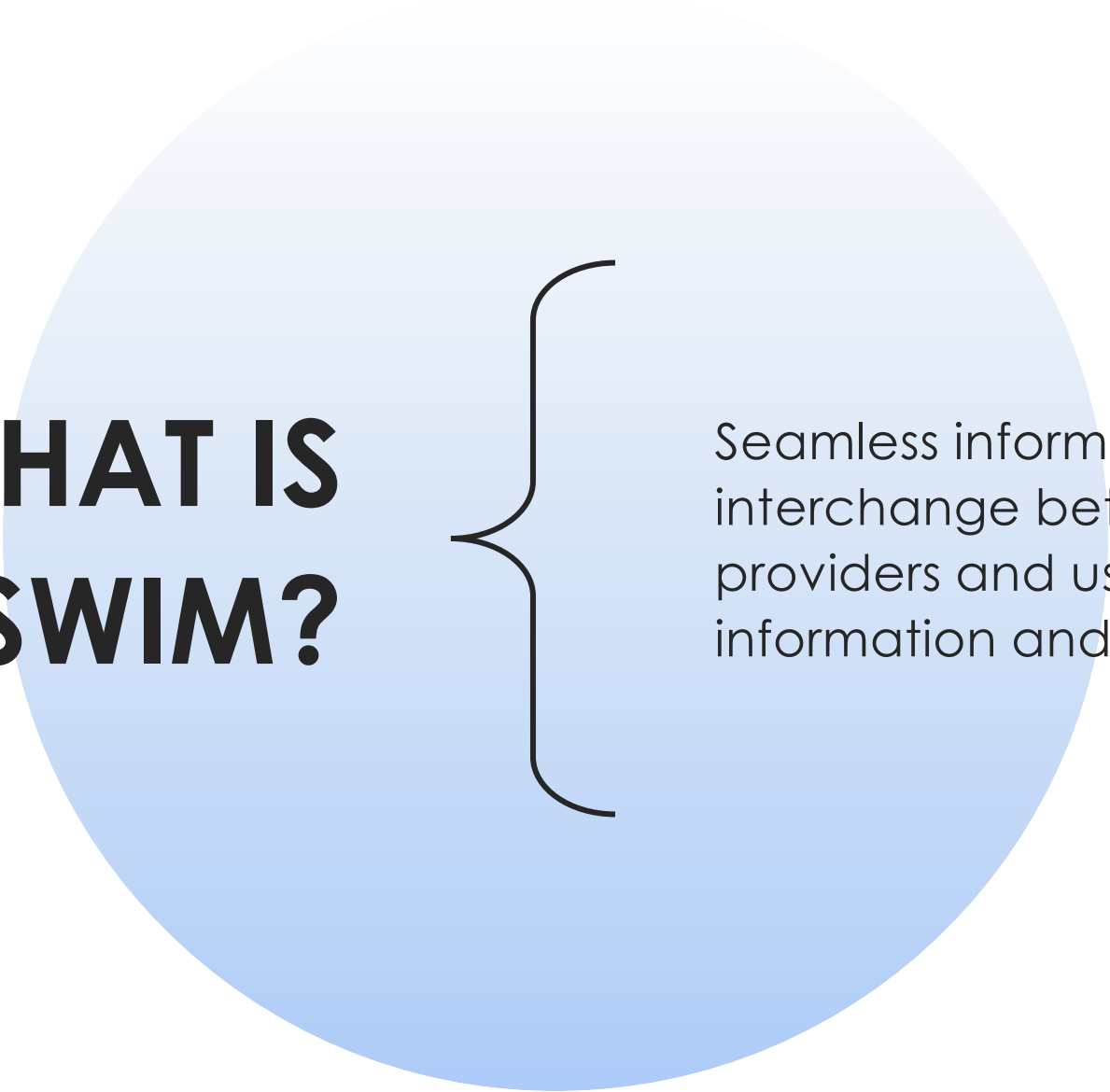
Sender Timestamp: 2024-11-07 22:27:07:119

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essage="http://www.aixm.aero/schema/5.1.1/message" <message:hasMember>
<event:Event gml:id="uuid.1ce"><gml:identifier c/></gml:identifier><event:timeSlic
e><event:EventTimeSlice gml:id="ID_0110122"><gml:beginPosition>2024-11-14T
15:00:00Z</gml:beginPosition><gml:endPosition>2024-11-15T23:00:00Z</gml:e
ndPosition></gml:TimePeriod></gml:validTime><gml:TimePeriod gml:id="ID_011
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evision>2024-11-14T08:20:11Z</event:revision><event:textNOTAM> <event:NOT
AM gml:id="ID_70725"> <event:series>A</event:series> <event:issued>2024-11-
14T08:20:11Z</event:issued><event:scope>AE</event:scope>event:minimumFL
>30</event:minimumFL><event:maximumFL>450</event:maximumFL><event:l
ocation>OPIS</event:location>event:effectiveStart>1810141500</event:effectiv
eStart><event:effectiveEnd>1810152300</event:effectiveEnd><event:text>CTA ac
tivated</event:text></event:NOTAM></event:textNOTAM>

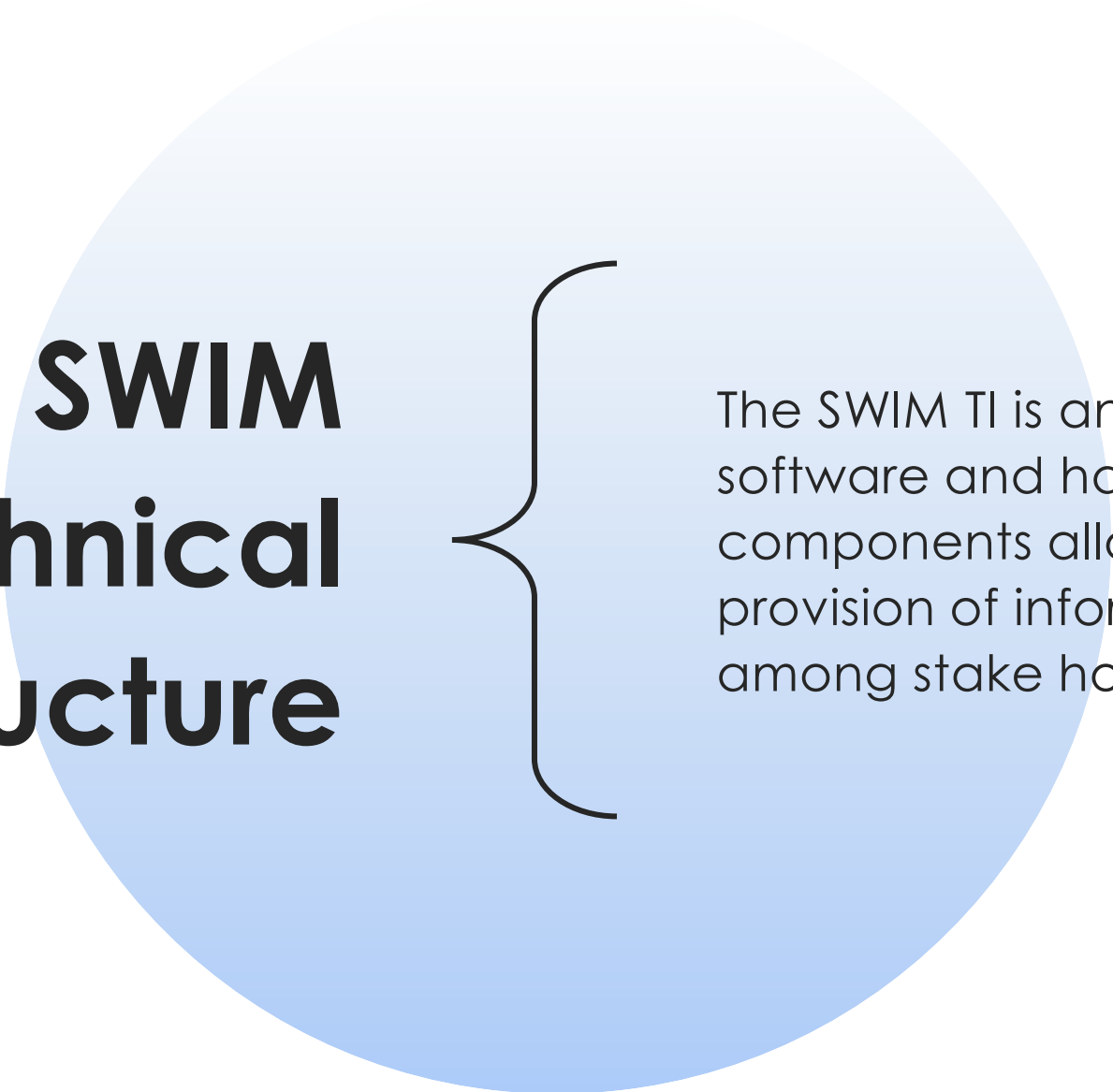
SWIM IN OUR UNDERSTANDING



WHAT IS SWIM?

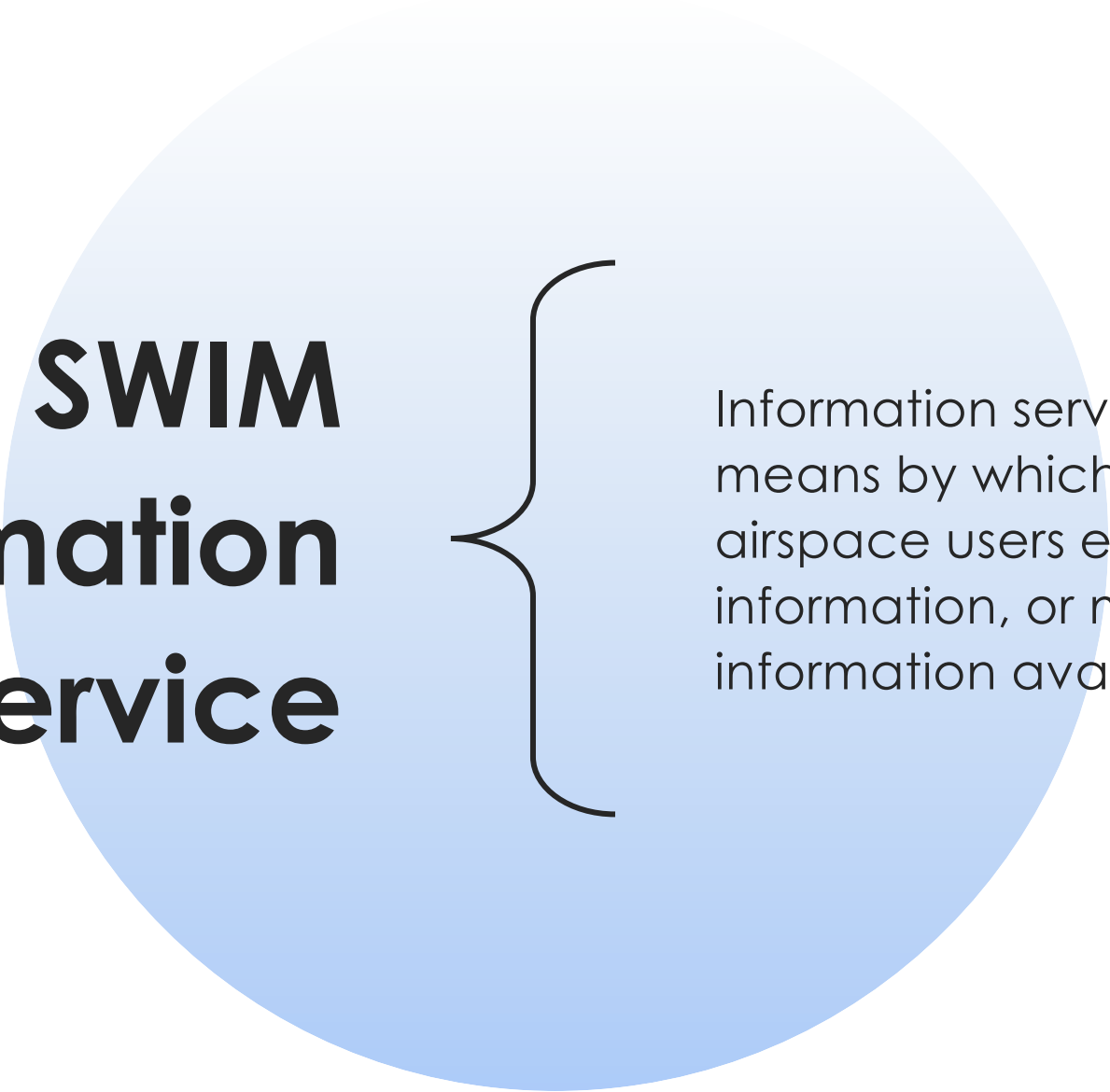


Seamless information access and interchange between all providers and users of ATM information and services.

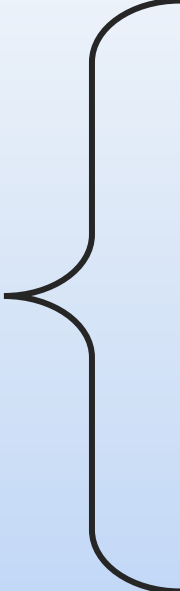


SWIM Technical Infrastructure

The SWIM TI is an aggregate of software and hardware components allowing the provision of information services among stake holders.




SWIM Information Service



Information services are the means by which ANSPs or other airspace users exchange information, or make their information available.

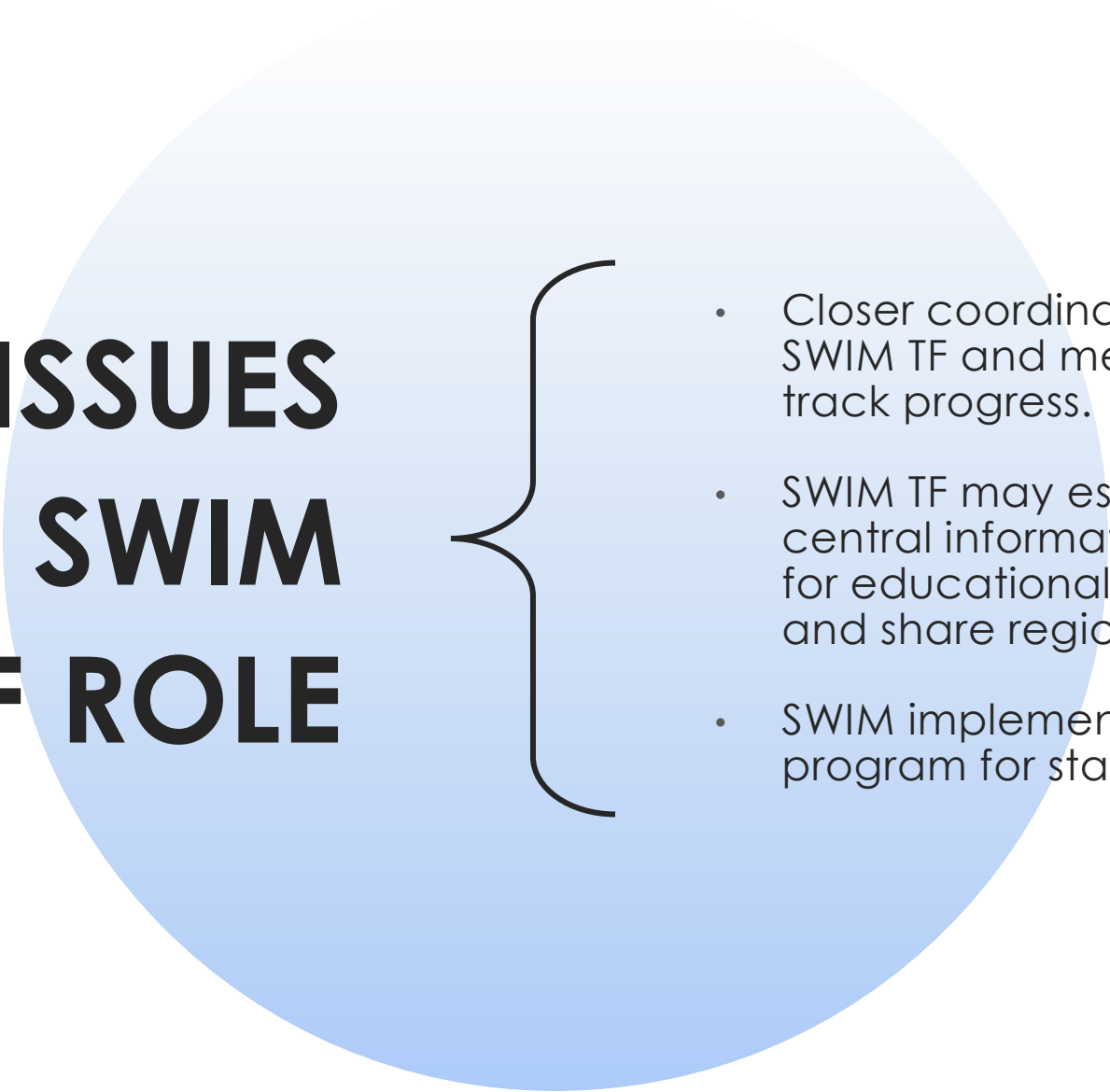
PAKISTAN – NEXT STEPS

- 
- Strive to identify SWIM use cases at National level
 - Build / buy SWIM technical infrastructure
 - National / Regional test implementation

GAPS / ISSUES

- ICAO SWIM

TF ROLE

- 
- Closer coordination between ICAO SWIM TF and member state TF to track progress.
 - SWIM TF may establish an online central information resource center for educational / training material and share regional level progress.
 - SWIM implementation Training program for states

Thank you