

SWIFT:

SWIM Industry

Collaboration

Workshop #10.5

**SWIM, Services & SWIFT
(SWIM Industry-FAA Team)**

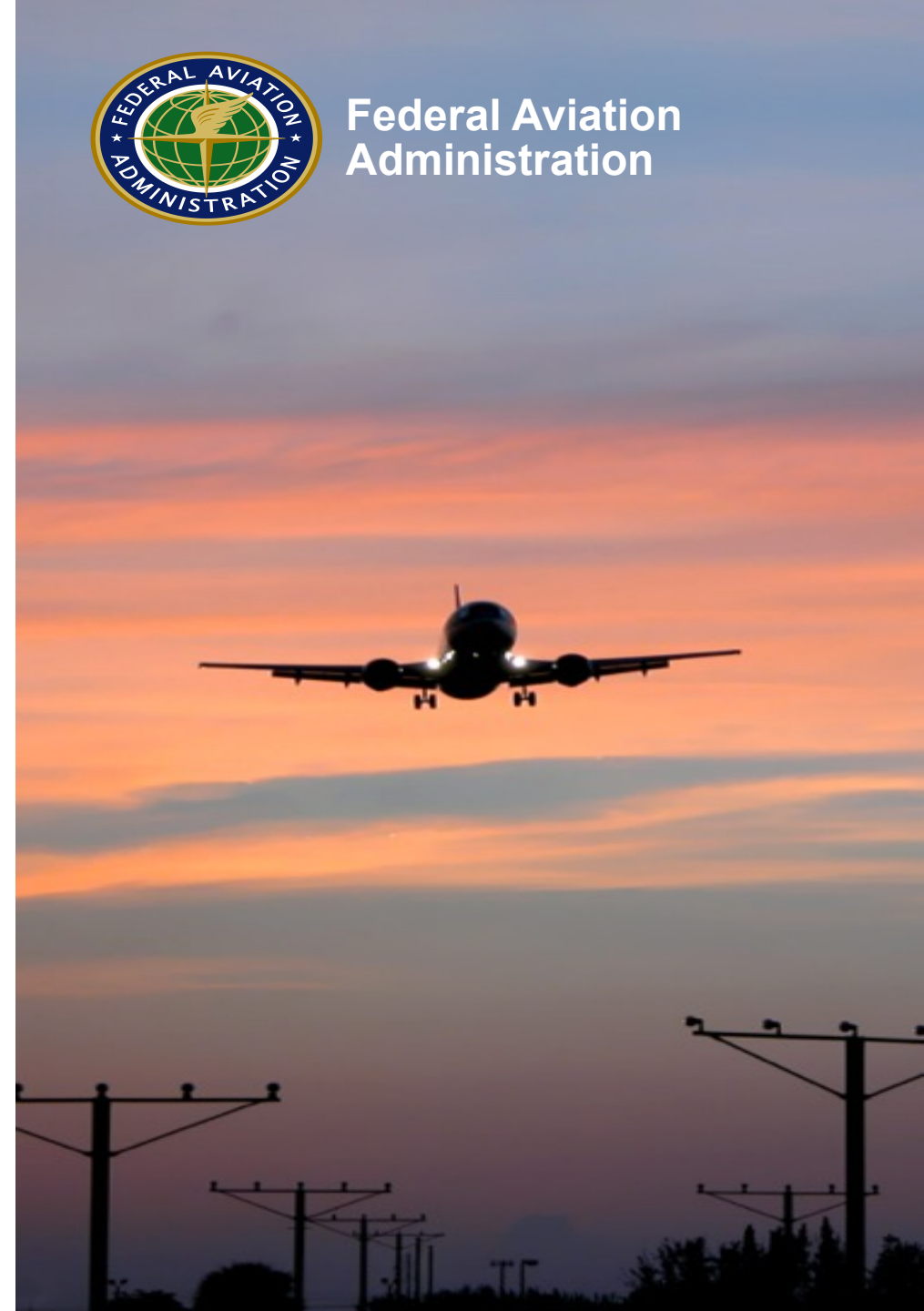
FAA SWIM Program

Communications, Information and Network Programs

July 8th, 2020

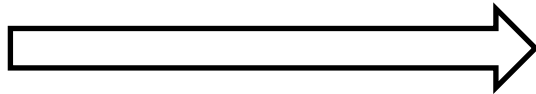


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“Airwave Procedures”

- Please note during the session all attendees will be muted, and will need to use the zoom controls to the right to interact with presenters



- If you would like to ask questions, or engage during a topic of interest please use the “Ground Rules & House Keeping guidance”

Attending via Computer, Tablet or Smartphone

When using the Zoom video application, you should see a toolbar at the bottom of your screen with the icons pictured below.

Here is how and when to use each option. **Raise Hand:** Click the “Raise Hand” icon in your menu bar (see image below) to ask a question verbally. The moderator will be alerted and will unmute you so you may ask your question.



Q&A: Click the “Q&A” icon in your menu bar (see image below) to submit a question via text. The moderator will be alerted and will read your question aloud on your behalf or respond to you via text.



Chat: Click the “Chat” icon to send a chat message to the host.



SWIFT Collaborative Workshop #10.5

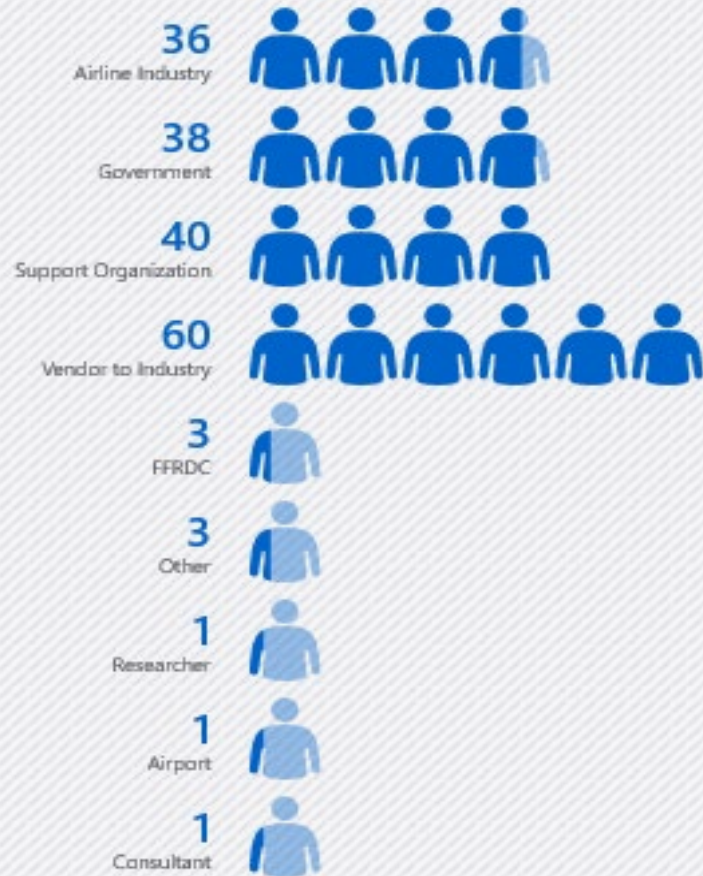
July 8, 2020 – Virtual Conference

- **On-line Virtual Conference Starts Promptly 2pm**
- **Welcome and Introductions** David Almeida
 - Agenda overview, SWIFT Focus Group Updates
- **Producer Program: AIMM – ACS (Aeronautical Common Services) Use Cases**
 - Suzanne Koppanen, Kevin Lew
- **Information Services Roadmap Update** David Almeida
 - SWIM On-Ramping Roadmap
- **TFDM Services**
 - Program overview by Doug Swol
 - Use Case & Ops Context Document Introduction
- **SWIM Capability: SWIFT Portal Update & Demonstration** Kristin Cropf & L3Harris



Who is in the “Zoom Room” at SWIFT #10.5?

Attendee Organizations



Other defined as: R&D, Researcher, Airport, Consultant, GA, and ATL IAP

Attended a SWIFT Meeting Before?

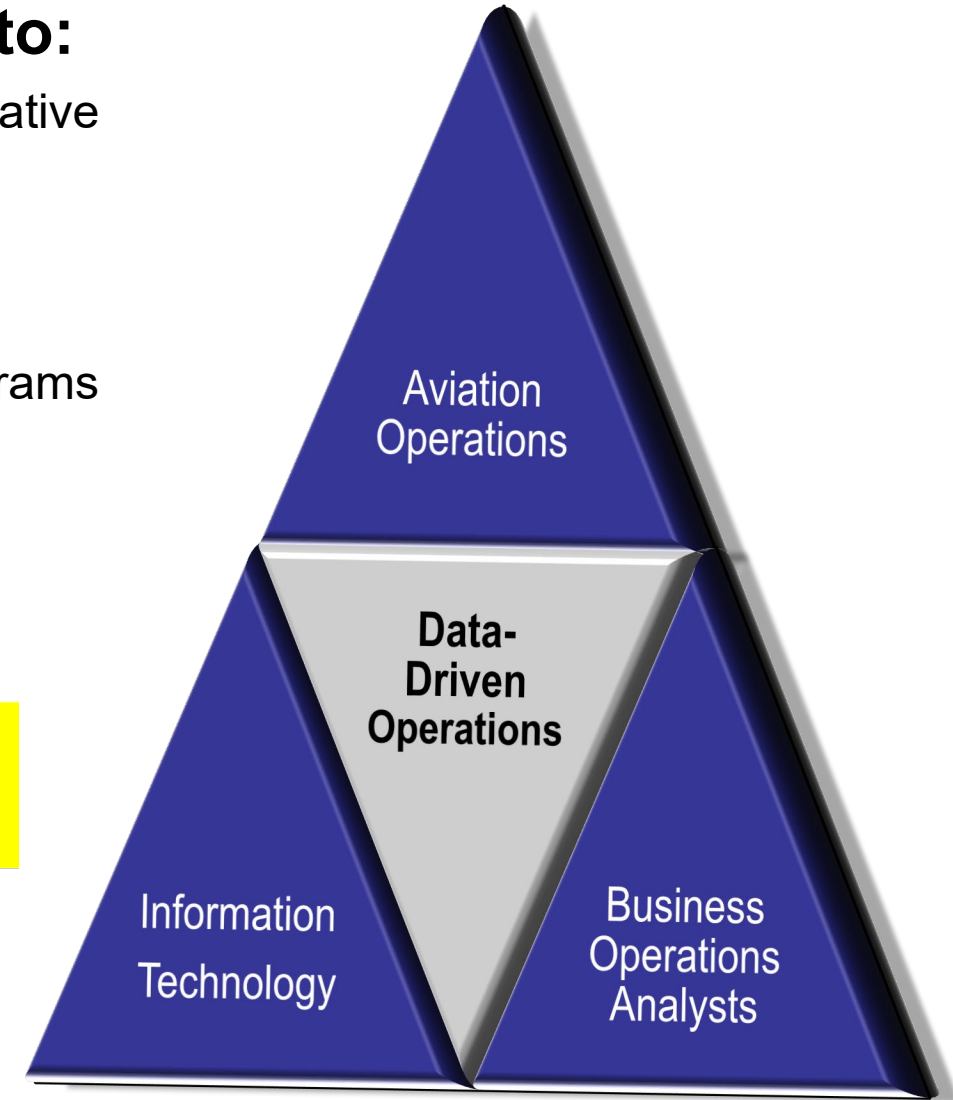
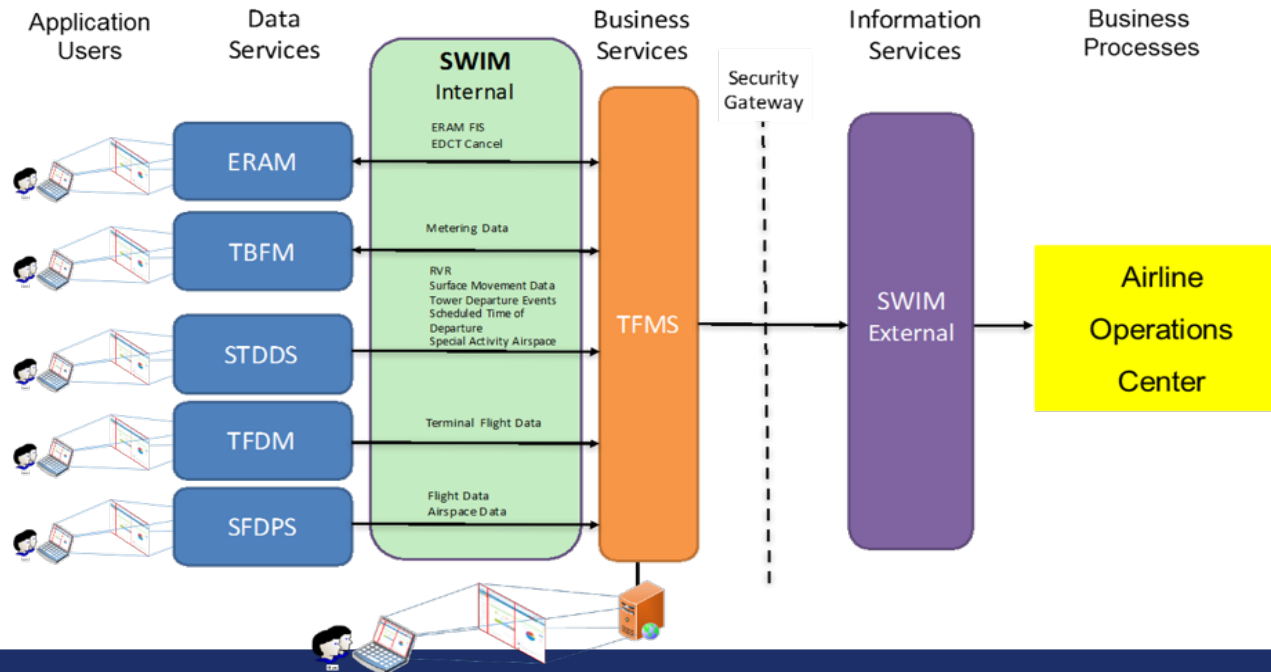


183 attendees

SWIFT

SWIFT: At the Intersection of Operations, Technology & Data

- **SWIFT addresses industry recommendation to:**
 - A community forum that acts as a clearinghouse for collaborative engagement around NAS information and data sharing
 - **Educate:** Synchronize community on information services
 - **Collaborate:** Discuss issues most relevant to community
 - **Communicate:** Inform community about SWIM & NAS programs



Focus Groups

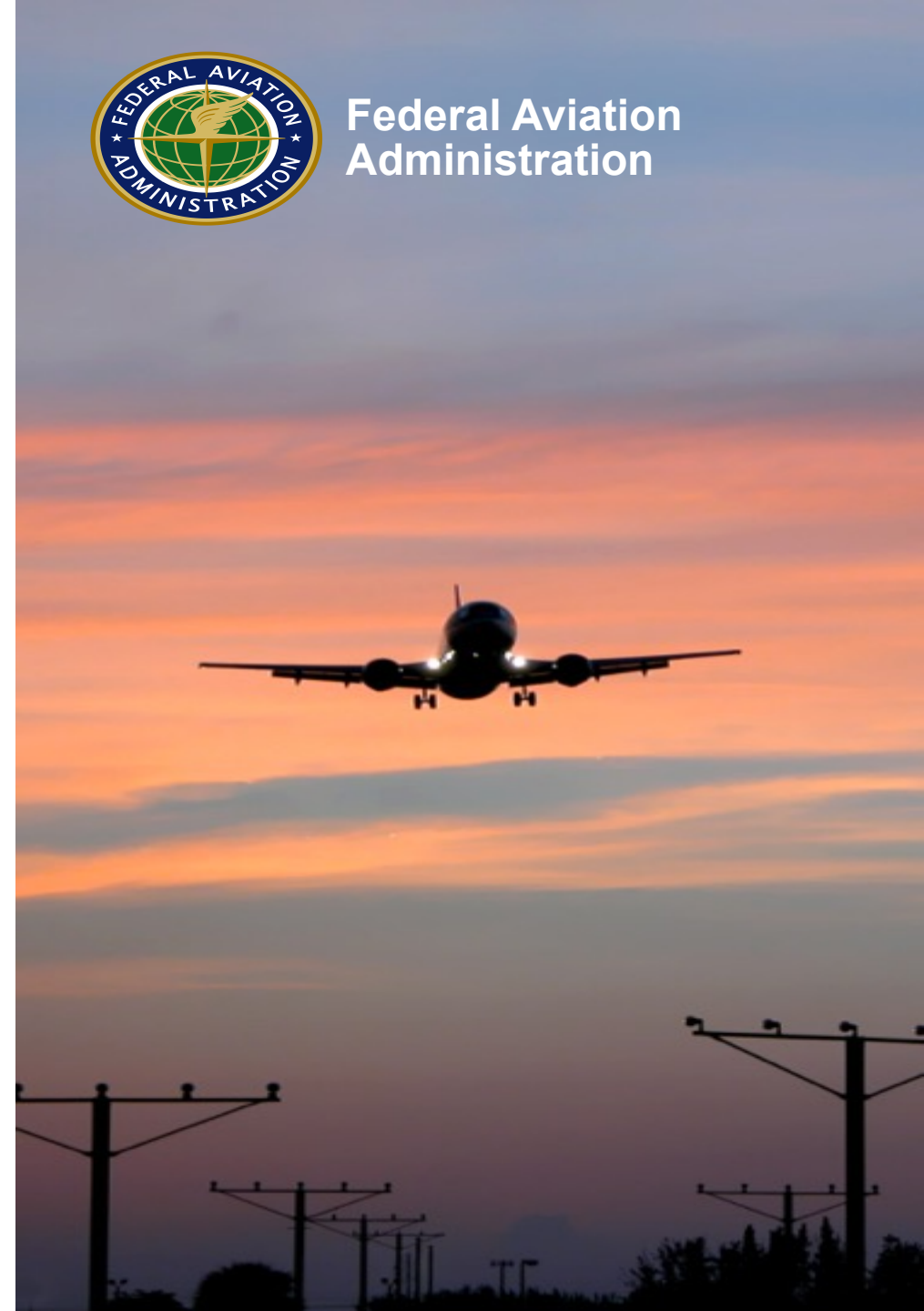
SWIFT 10.5 Update

David Almeida, LS Technologies

July 08, 2020



**Federal Aviation
Administration**



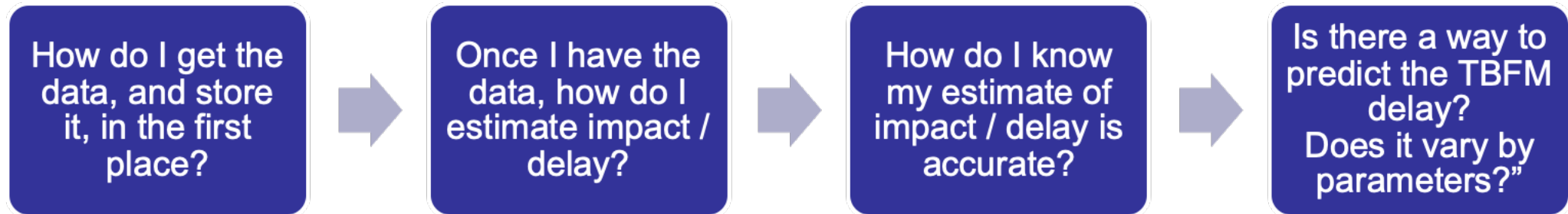
Operational Context Focus Group: Document Updates



- Schedule subject to change if service updates are released and existing Operational Context documents need to be updated
- In process of developing first Use Case document since June 19, Focused on TFDM
- Focus Group requested an escalation of TFDM TTP & TFCS services, teams integrate without impact to current schedule

Development & Analytics Focus Group

- **Lead: Erin Cobbett, Delta Airlines**
- **Goals:**
 - Address common challenges in ingesting, storing, and utilizing SWIM data
 - Work collaboratively to advance functionality and value of SWIM to community
 - Leverage team experts to use SWIM data to address operational issues
- **Current Priority: TBFM Delay**
 - TBFM is a bit of a “black box”, and SWIM data is not the whole picture
 - Analytical problems have layers: working with program to answer key questions



Operational Issues Focus Group

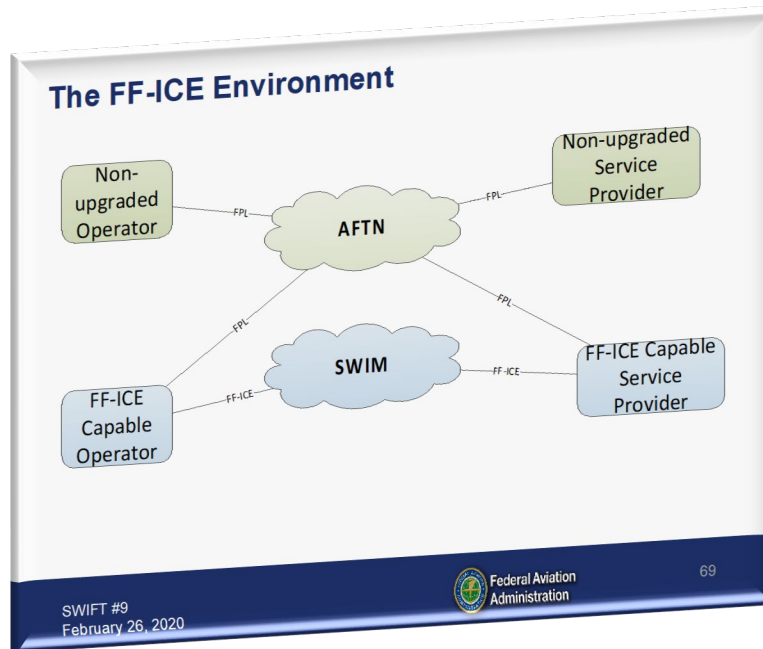
- **Lead: Chris Gottlieb, JetBlue**
- **Goals: Address NAS-wide operational issues that might benefit from information sharing between organizations**
- **Current Prioritized Issues:**
 1. **TBFM delays (United) who, what, why it matters**
 2. **Flight Planning over IP (SWA)**
 3. **Taxi Out Return to Gate (Delta)**
 4. **TBFM/TFMS double delays**
 5. **JFK has long taxi issues (JBU)**
 6. **Early Detection Deviation over Fix (JBU)**

Flight Planning Modernization

Flight Planning modernization will likely include hybrid implementation

There will be multiple information service interactions introduced

There are multiple scenarios driving business processes



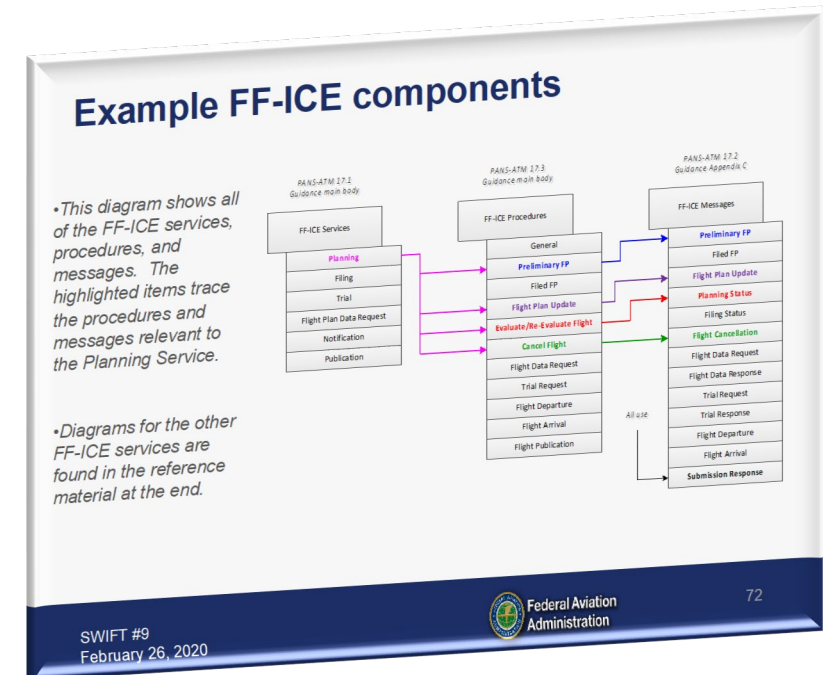
FF-ICE/r1 Services

Service	Description
Planning Service	Submission of a Preliminary Flight Plan to obtain constraint information from relevant ATM Service Providers (ASPs) and improve ATM resource planning. (New - Like an early intent flight plan but with feedback from the service provider)
Filing Service (Required for anyone implementing FF-ICE)	Filing of an ATS Flight Plan (using eFPL) with relevant eASPs. (Replaces use of FPL, SPL, CHG, DLA, and CNL)
Trial Service	Submission of a potential change to a Preliminary or Filed Flight Plan to explore the impacts of the change before committing to it. (New)
Flight Data Request Service (Required for service providers implementing FF-ICE)	A request for information regarding a specific flight, e.g. the flight plan, search and rescue data, or status information. (Replaces use of RQP and RQS)
Notification Service	Notification of certain flight events to required recipients, e.g. departure and arrival notification. (Replaces use of DEP and ARR)
FF-ICE Data Publication Service	General publication of flight and flow information by an ASP to authorized subscribers. (Intended to standardize data sharing)

SWIFT #9
February 26, 2020

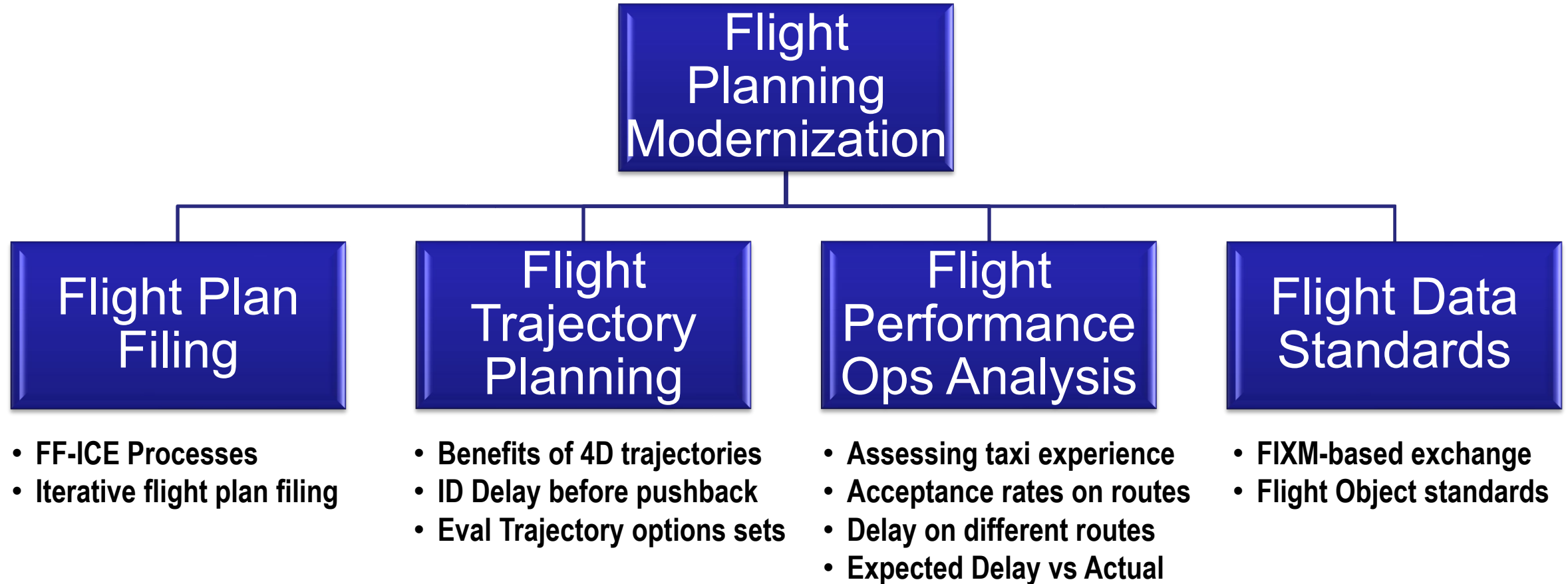
Federal Aviation Administration

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Looking to understand how infrastructure, standards and security will support this modernization effort

Flight Planning Areas of Interest and Focus



SWIFT 10.5

Aeronautical Common Service (ACS)

Suzanne Koppanen
FAA AIMM S2, Program Manager

Kevin Lew
CNA, Systems Engineer

July 8, 2020



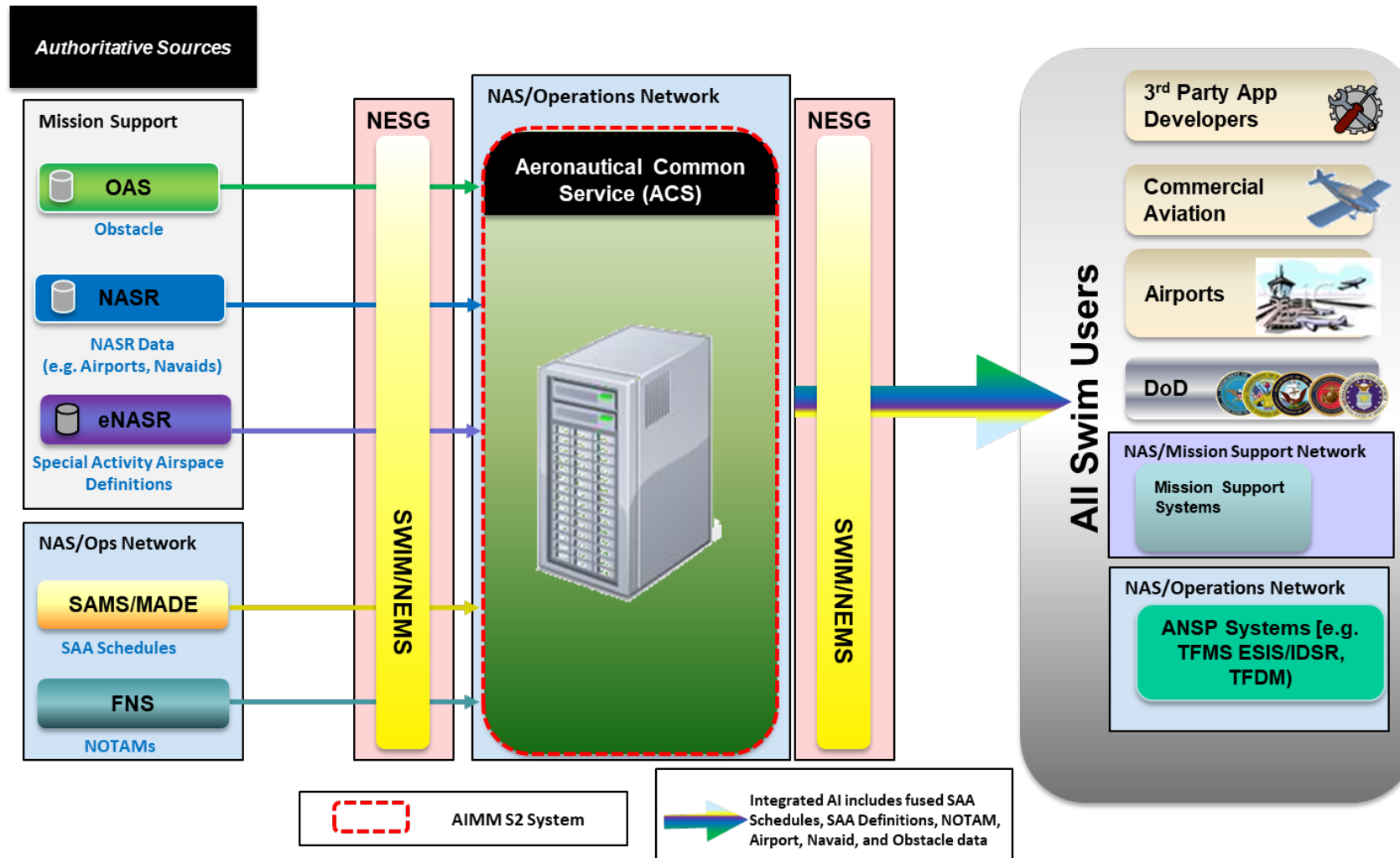
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SWIFT 10 ACS Recap



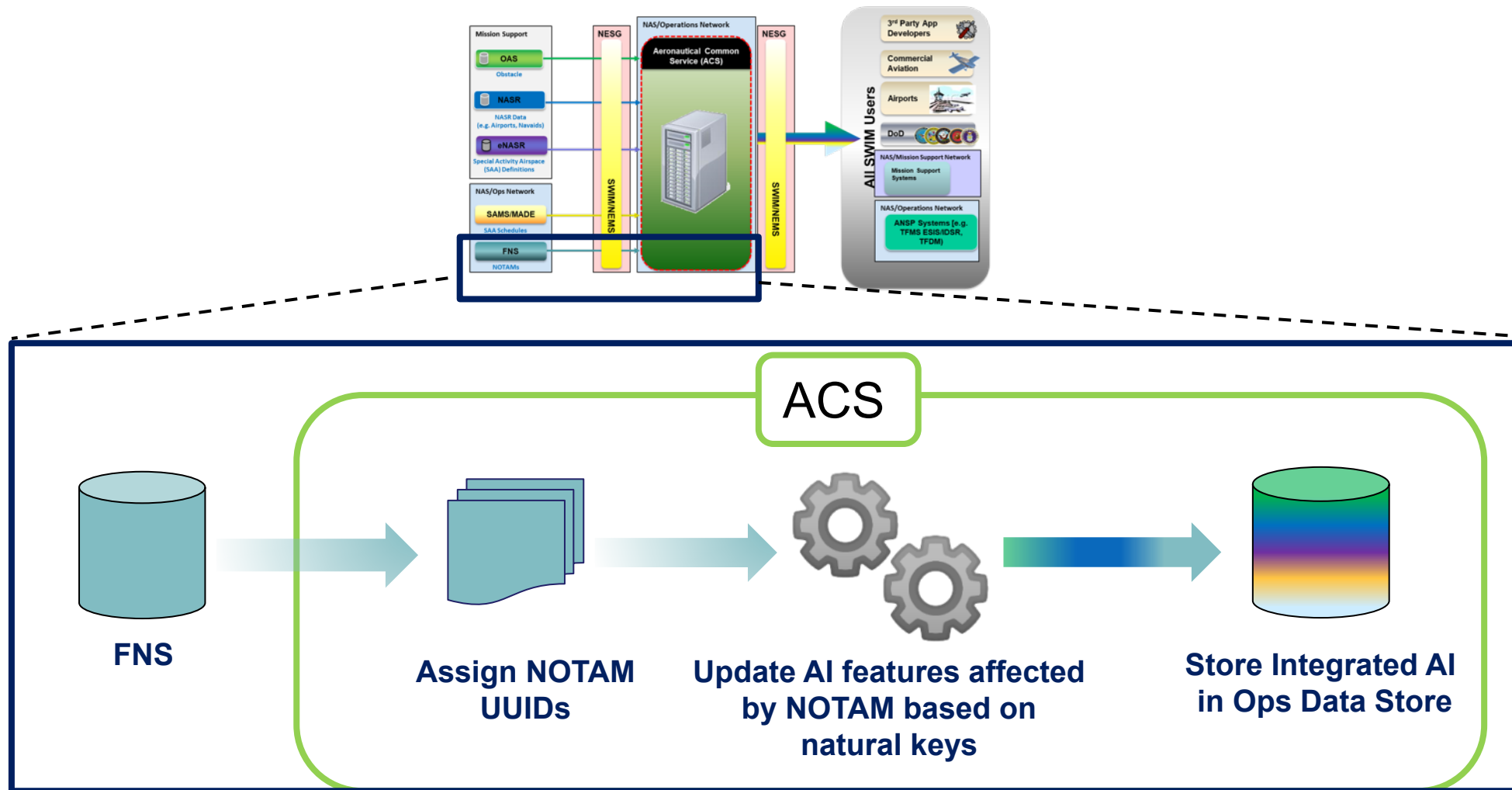
ACS Overview



AI Integration



NOTAM Ingestion and Integration

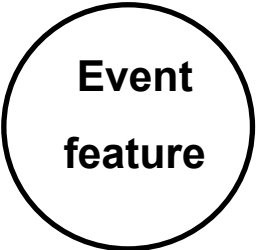




ACS NOTAM Integration

LAX 03/005 LAX RWY 6L CLSD 201903041200-201903051200

Non-digital

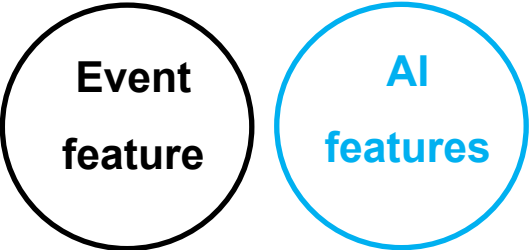


Does not receive associated features

- Still provides the event containing NOTAM text and location

Also applies for non-integrated events

Partially digital

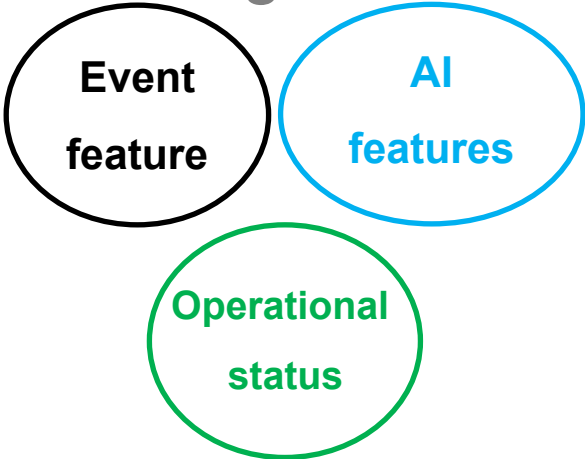


Features associated with the event

- E.g., event relates to LAX and RWY 6L

Status on features will not be updated

Digital



Features associated with the event

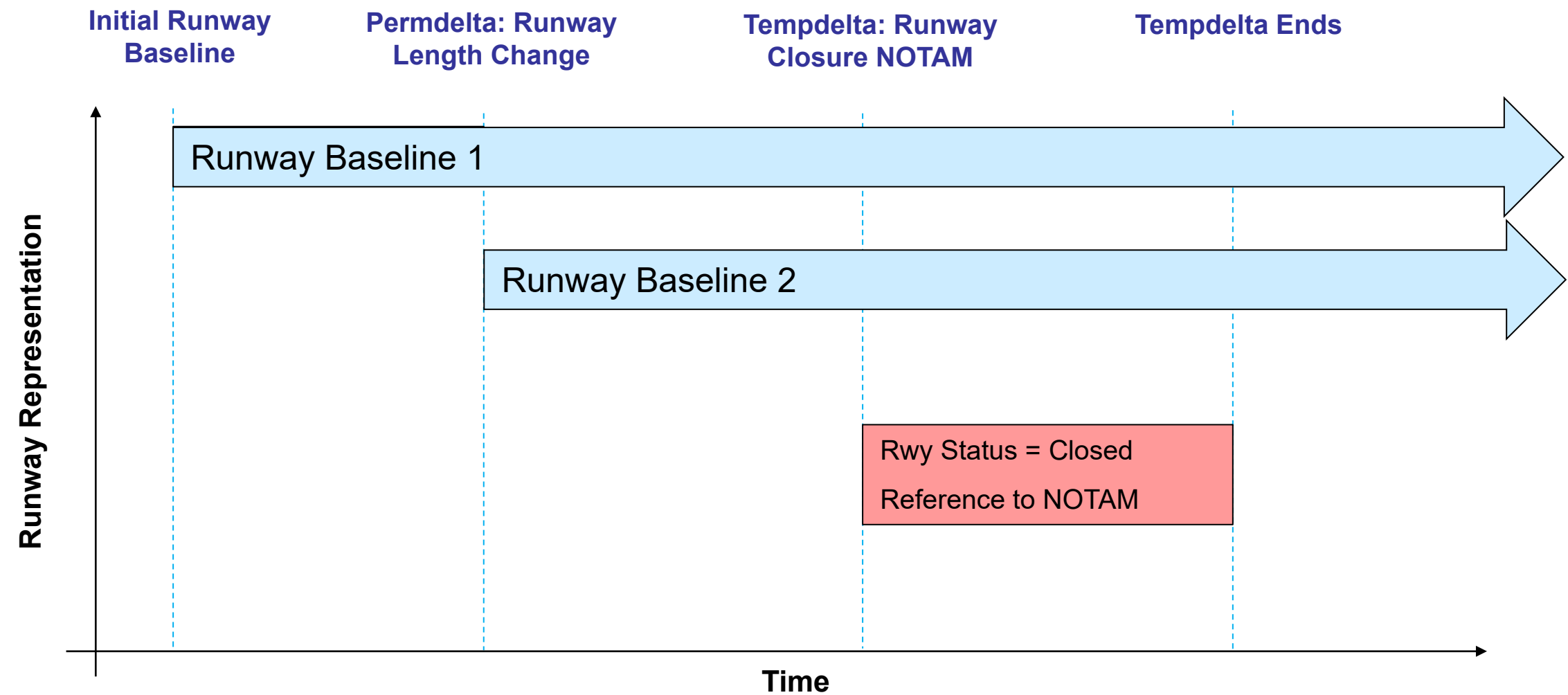
Affected feature status is updated

- E.g., RWY 6L is closed at LAX





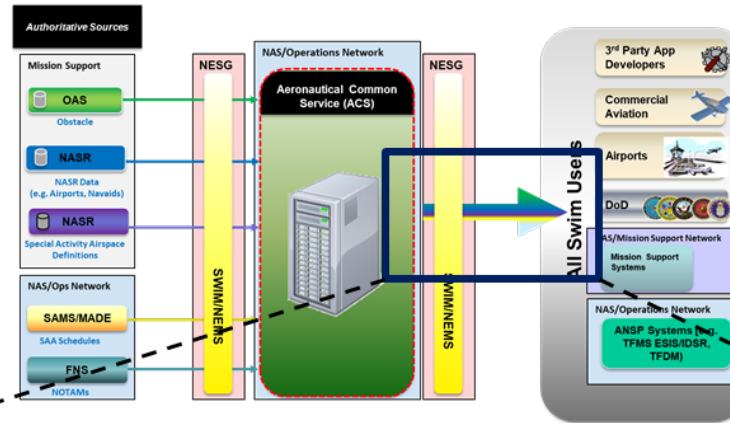
Timeline: Integrated Runway Closure NOTAM



ACS Web Services



ACS Web Services



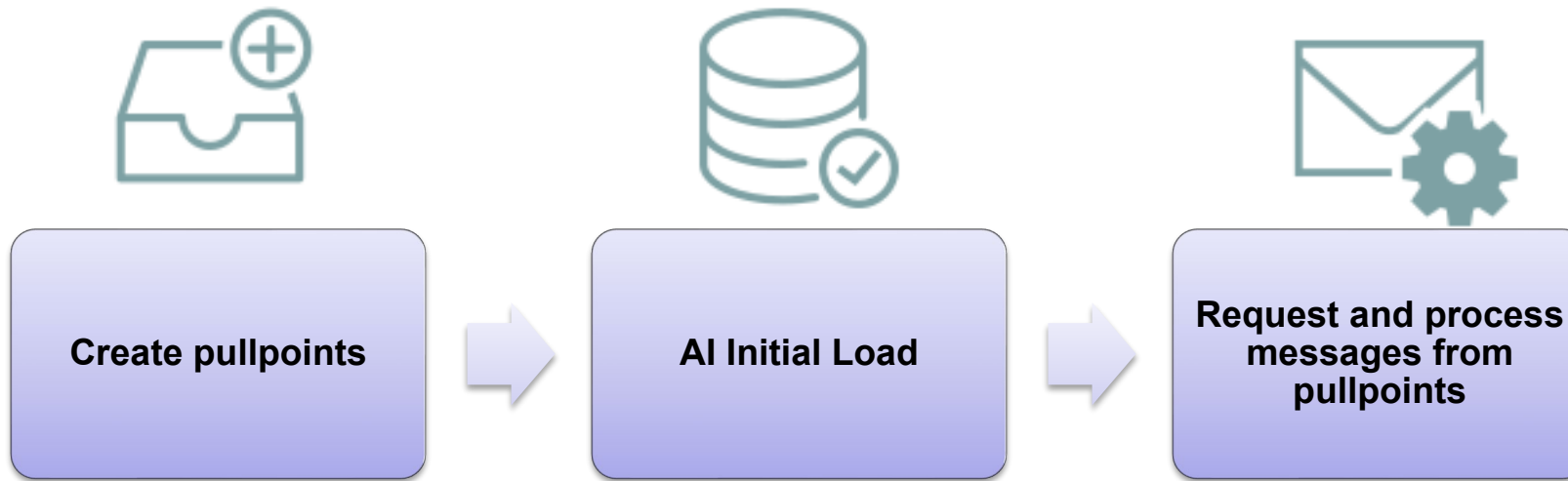
- Web Feature Service
- Data Query Service
- Data Subscription Service
- Web Map Service
- Web Map Tile Service
- Airspace Conflict Detection
- Geodetic Computation
- Post Operational Metrics

Use Cases



Use Case: AI Subscriber

User wants to subscribe to NOTAM and airport updates



Subscription: Create Pullpoints



- **User creates pullpoint subscriptions**

- Response contains address of the pullpoint created

- **Feature groups of interest:**

- IntegratedNotam
- AirportGroup

Create pullpoint request

```
<soapenv:Body>  
CreatePullPoint = IntegratedNotam  
</soapenv:Body>
```

Create pullpoint response

```
<ns4:CreatePullPointResponse>  
  <ns4:PullPoint>  
    <ns3:Address>http://0.0.0.0:0000/*pullpoint address and identifier*</ns3:Address>  
    <ns3:Metadata wsdl:wsdlLocation="http://cxf.apache.org/wsn/jaxws  
bundle://208.0:1/org/apache/cxf/wsn/wsdl/wsn.wsdl" xmlns:wsdl="http://www.w3.org/ns/wsdl-
```

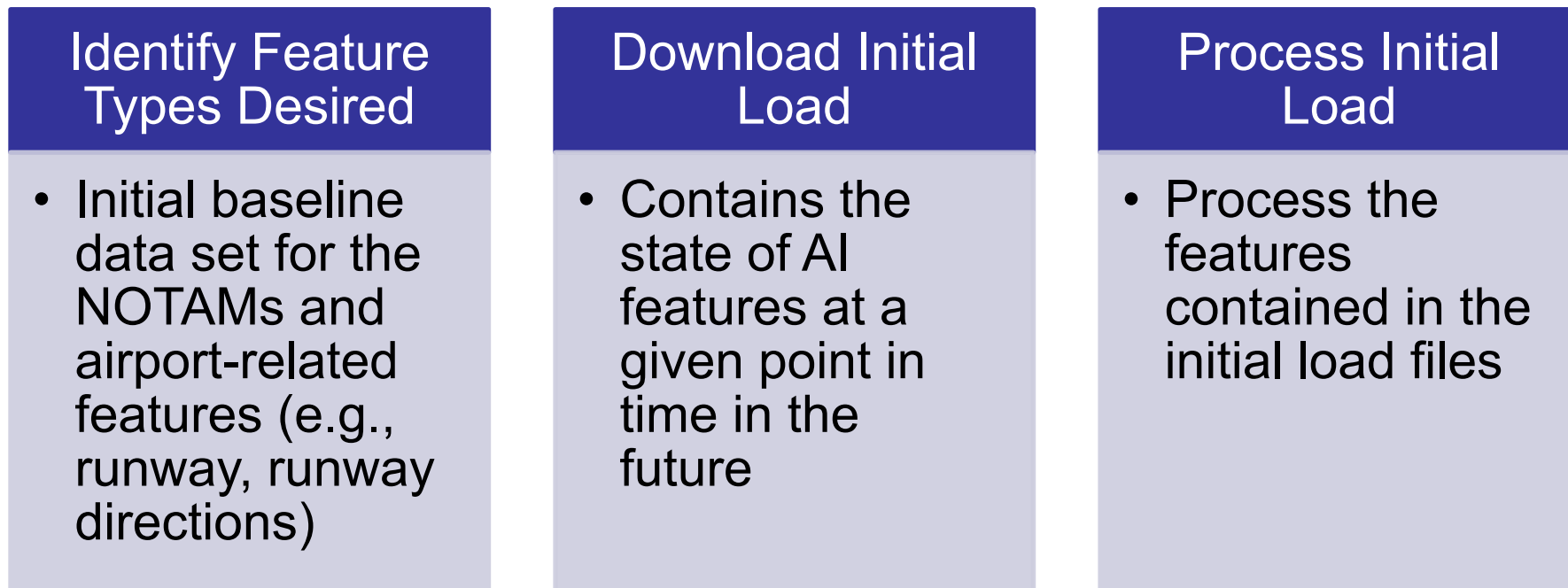
Address = http://0.0.0.0:0000/*pullpoint address and identifier*

```
  <wsdl:import location="bundle://0.0:0/org/apache/cxf/wsn/wsdl/wsn.wsdl"  
namespace="http://cxf.apache.org/wsn/jaxws"/>  
  </wsdl:definitions>  
  </ns3:Metadata>  
  </ns4:PullPoint>  
  <ns4:any>Success</ns4:any>  
</ns4:CreatePullPointResponse>
```


Subscription: Initial Data Load



ACS updates contain the changes to AI features, for full context users should have a baseline set of AI features



Subscription: Pull and Process Messages

- **User requests messages from their pullpoints**
 - 200 message limit per request
 - If 200 messages are received, there may be more messages waiting on their pullpoint
 - High volume feature groups will require frequent calls to retrieve messages
- **User processes AI updates to their system**

Request for pullpoint messages

```
<urn:GetMessages>
  <b:GetMessages>
    <b:MaximumNumber>200</b:MaximumNumber>
  </b:GetMessages>
  <urn:PullPointReference>
    <add:Address>http://0.0.0.0:0000/*pullpoint address and identifier*</add:Address>
  </urn:PullPointReference>
</urn:GetMessages>
```



A single
NOTAM
with Event
and
associated
AI features

Use Case: Querying SAA Status

Pre-Planning: User wants to see what SAAs along flight path are scheduled for the day

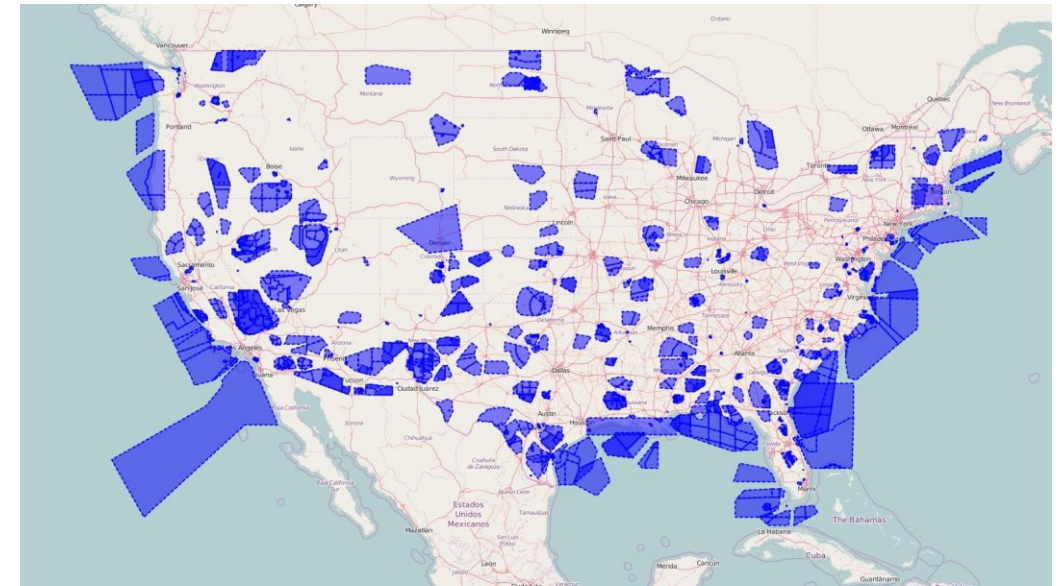
Using the ACS WFS getFeature operation, users can query for SAA based on UUID or airspace designator

Create WFS GetFeature request

Submit WFS GetFeature request

Receive SAA definitions from the ACS WFS

Process timeslices returned to identify when the SAAs are active



Querying SAA: UUID vs Designator

Querying on UUID

```
<ns2:GetFeature outputFormat="application/gml+xml; version=3.2" resolve="none"
resolveTimeout="300" resolveDepth="*" resultType="results" service="WFS" version="2.0.0"
xsi:schemaLocation="http://www.opengis.net/wfs/2.0 http://schemas.opengis.net/wfs/2.0/wfs.xsd"
xmlns:aixm="http://www.aixm.aero/schema/5.1" xmlns:fes="http://www.opengis.net/fes/2.0"
```

typeName="aixm:Airspace"

gml:identifier = 62154725-2770-49A2-9D50-6164CCA0289C

Or

gml:identifier = 4C9CBE0B-43E1-82D3-3B9C-48BAC9494682

```
</ns1:Or>
</ns1:Filter>
</ns2:Query>
</ns2:GetFeature>
```

Querying on Designator

```
<ns2:GetFeature outputFormat="application/gml+xml; version=3.2" resolve="none" resolveTimeout="300" resolveDepth="*"
resultType="results" service="WFS" version="2.0.0" xsi:schemaLocation="http://www.opengis.net/wfs/2.0
http://schemas.opengis.net/wfs/2.0/wfs.xsd" xmlns:aixm="http://www.aixm.aero/schema/5.1"
```

typeName="aixm:Airspace"

aixm:timeSlice/aixm:AirspaceTimeSlice/aixm:type = OTHER:MOA

And

aixm:timeSlice/aixm:AirspaceTimeSlice/aixm:designator = MLINCOLN

Or

aixm:timeSlice/aixm:AirspaceTimeSlice/aixm:type = R

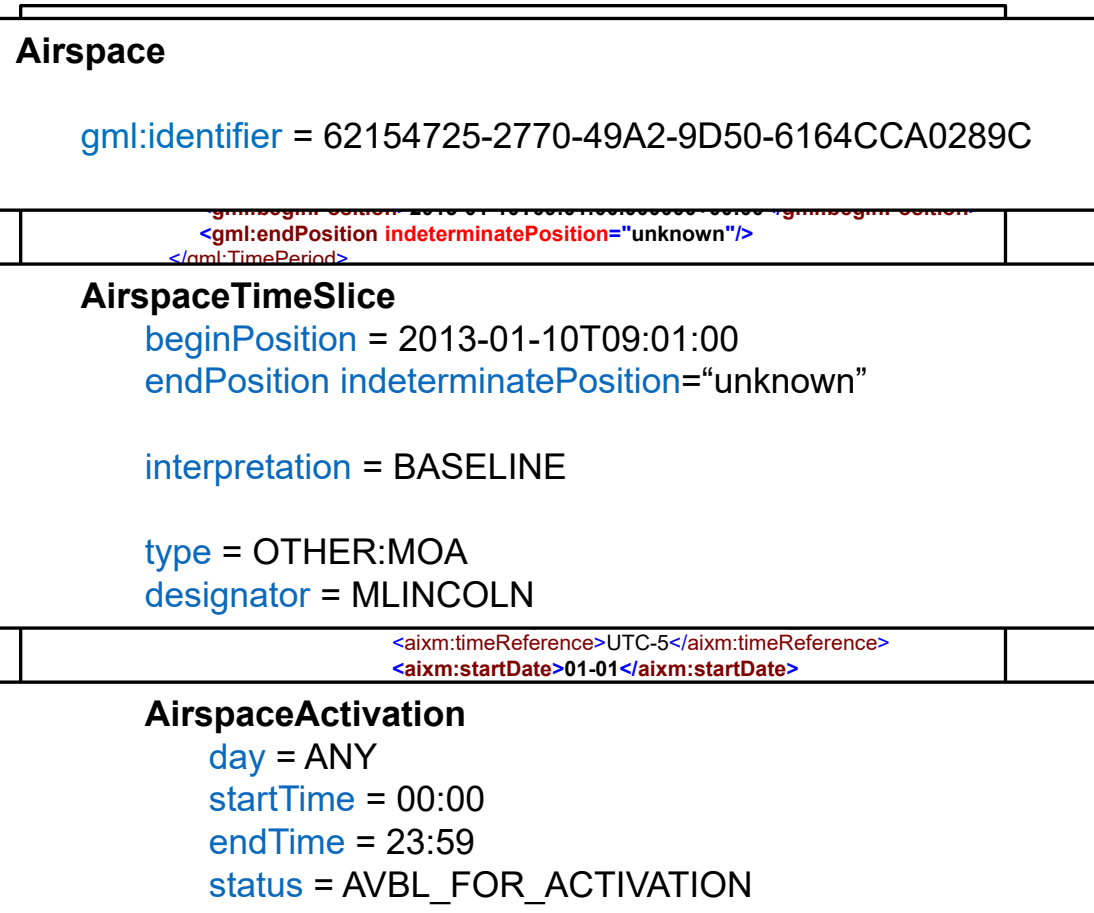
And

aixm:timeSlice/aixm:AirspaceTimeSlice/aixm:designator = R4001C

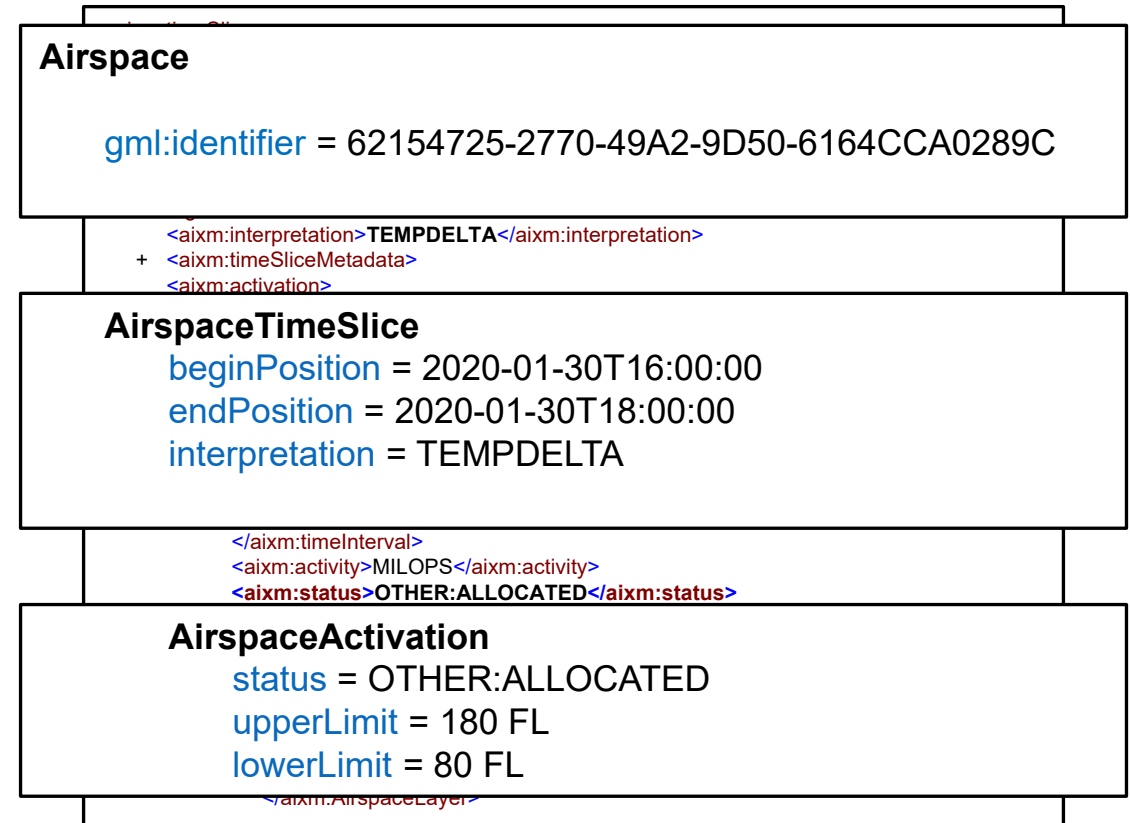
```
</ns1:PropertyIsEqualTo>
</ns1:And>
</ns1:Or>
</ns1:Filter>
</ns2:Query>
</ns2:GetFeature>
```

Querying SAA: Returned SAA Timeslices

SAA Baseline (Static SAA)



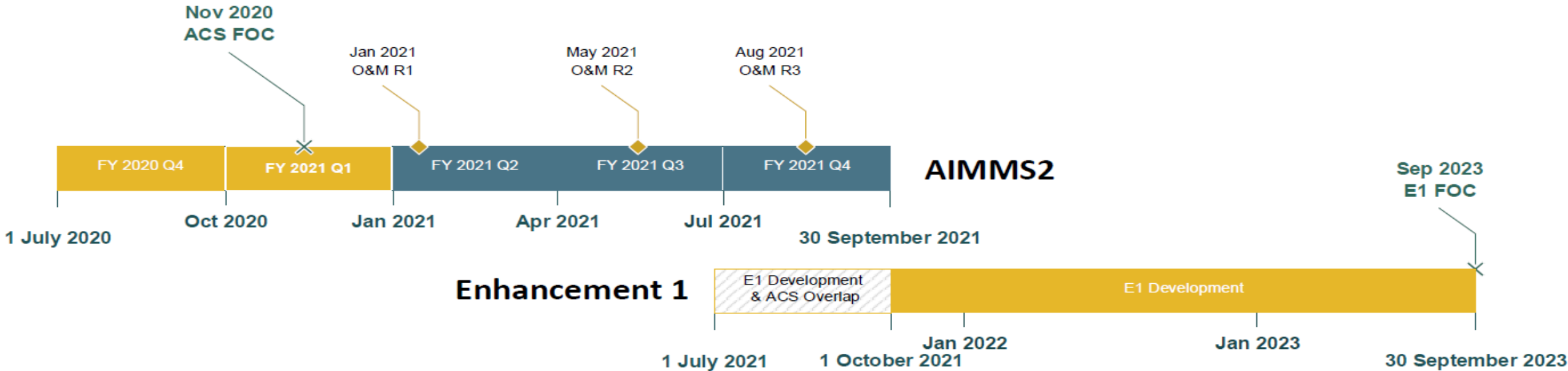
SAA Tempdelta (SAMS)



ACS Roadmap



AIMM S2 & Enhancement 1 Roadmap



AIMM S2 O&M

- Performance Optimization
- User feedback

Enhancement 1

- ACS Enhancements
 - JMS Subscription capability
 - Expanded AI scope
- Enterprise Airspace Tool (EAST)
- NOTAM System Migration

ACS FOC: No earlier than 10/20 Due to COVID Delays

Questions

For technical and programmatic questions

Email: ACSConsumer@faa.gov



SWIFT

Information Services Roadmap

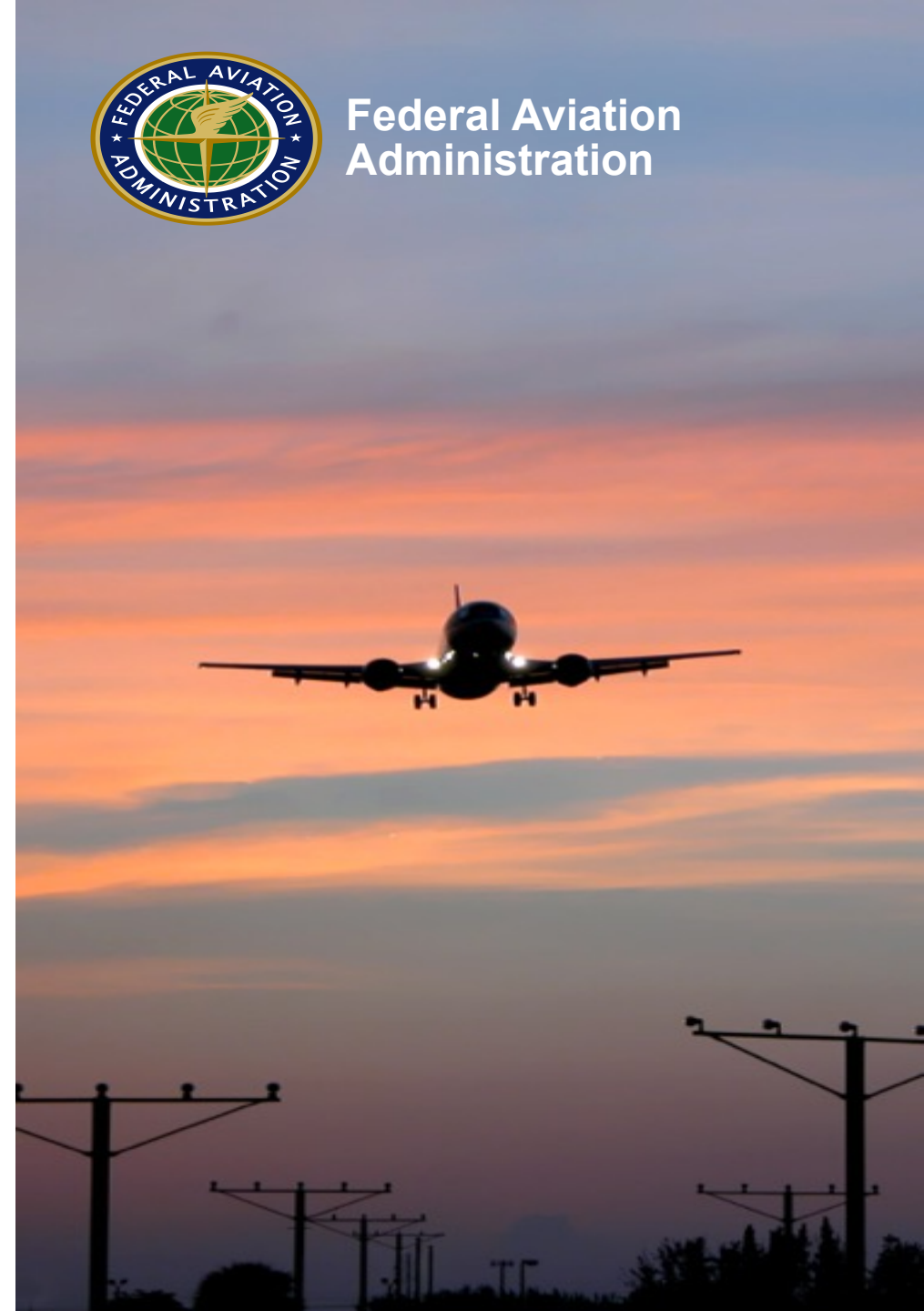
SWIFT 10.5

David Almeida, LS Technologies

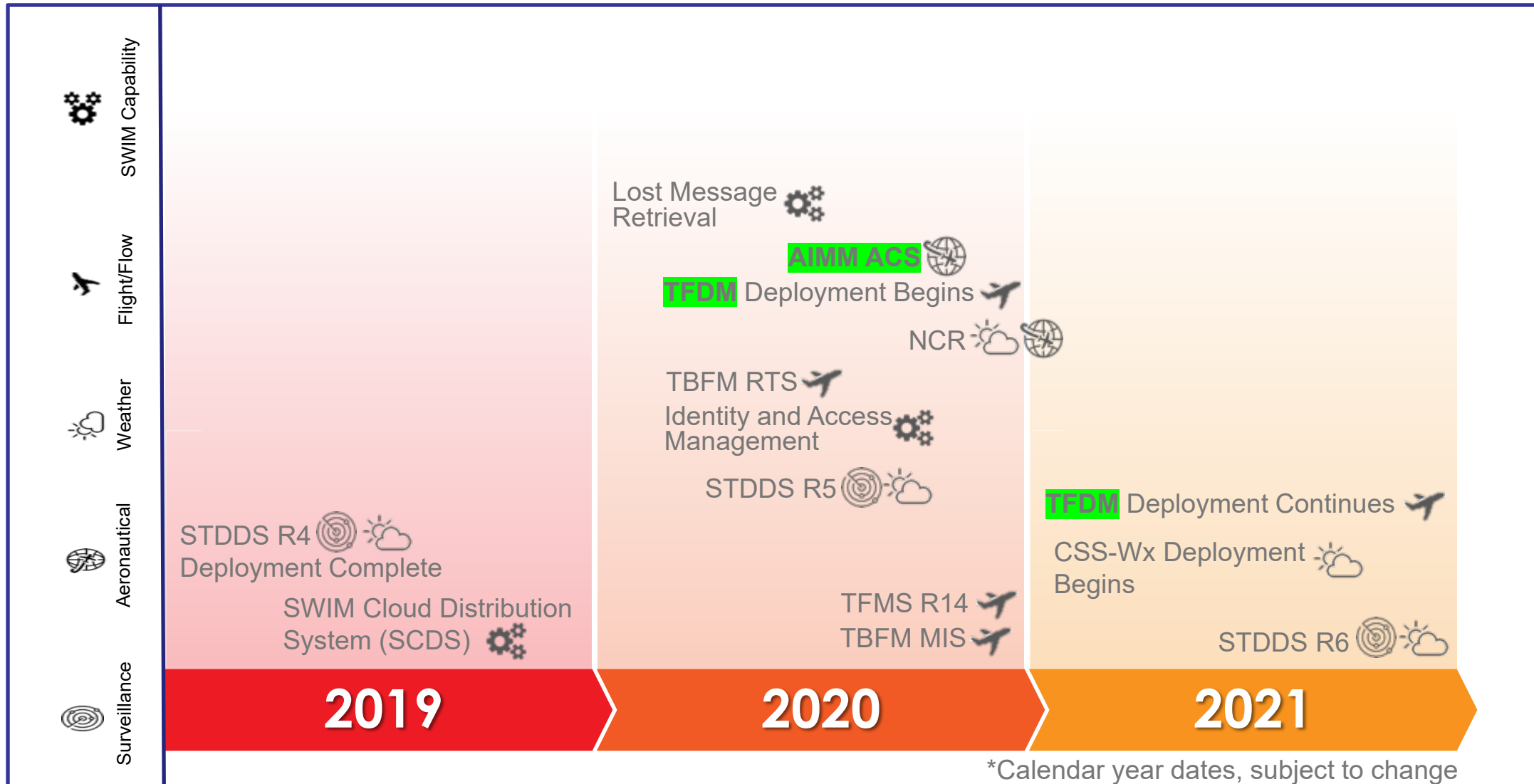
July 08, 2020



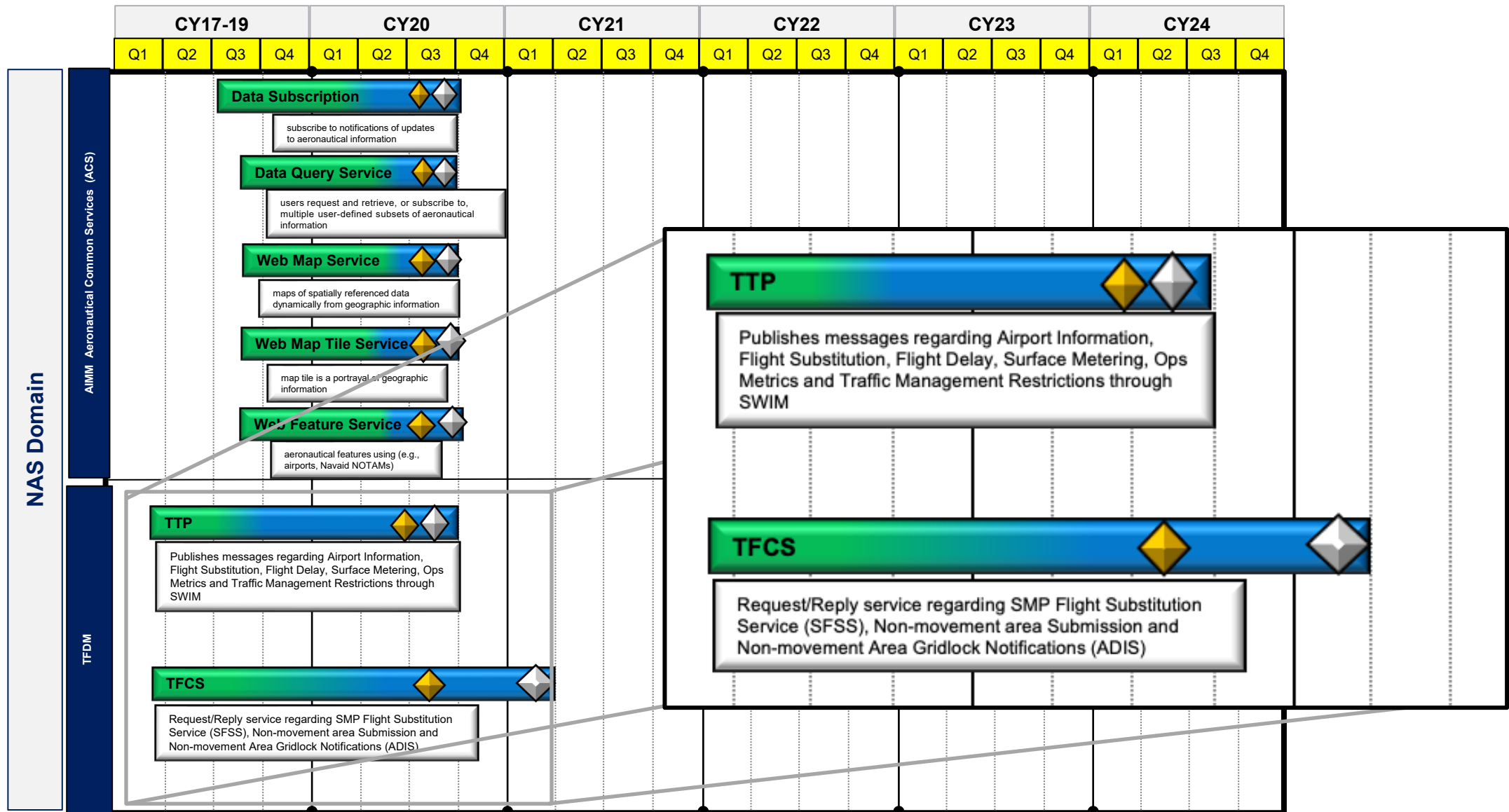
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SWIM Planned Deployment Roadmap



Information Service Road Map – ACS & TFDM



Legend:



Analysis/Design Phase

Implementation/Development Phase

Service Description



Service Available Milestone

Ops Context Document Available Milestone



Federal Aviation Administration

Information Service Road Map – TFDM

System Wide Information Management (SWIM) TFDM Use Case Document



Version .1

May 19, 2020

Appendix A –TFDM Metering Program Parameters

Data Field Name / Configuration Parameter	Description	Importance to Stakeholders
Average Metering Hold Threshold parameter	Configurable percentage of change in metering hold time associated with a rejected SMP required to	ATCT TM sets this parameter so future

Appendix B –TFDM TTP Flight Data Elements Examples

Data Element	Description	Importance to Stakeholders
Target Off Block Time (TOBT)	The departure stand time agreed upon between the flight operator and other interested parties (such as between the flight operator and air/ground services providers, airport authority) that is generated by TFDM due to a SMP. It is equal to the TMAAT minus the Ramp Transit Time (RTT).	Indicates to the PIC when the surface scheduler recommends the aircraft should push back from the departure

Appendix G –TFDM TTP Operational Metrics Data Elements Examples

Data Element	Description	Importance to Stakeholders
Airport Arrival Demand KPI	The arrival demand count for the specified time interval.	KPI for all stakeholders to monitor to maintain awareness of the airport arrival demand and make informed planning decisions.
Airport Departure Demand KPI	The departure demand count for the specified time interval.	KPI for all stakeholders to monitor to maintain awareness of the airport departure demand and make informed planning decisions.
Metering Time Compliance KPI	The percentage of departures where the absolute value of the flight's start of taxi for departure time minus its TMAAT is less than or equal to the metering time compliance window parameter.	KPI for all stakeholders to monitor to maintain awareness of metering time compliance. When metering time compliance is below the optimal level, stakeholders should work together to improve it.
Calculated Fuel Burn KPI	The amount of fuel burn provided in gallons calculated for the time interval requested.	KPI for flight operators, GA, and FBOs to monitor to be aware of aircraft fuel burn.
Queue Length Accuracy KPI	Comparison of the actual departure queue length to the target queue length.	KPI ATCT TM will monitor to determine if the queue length parameters are being adhered to.

For a complete listing of all the data elements contained in the TTP Operational Metrics service, please refer to the TTP Operational Metrics JMSDD [6].

Appendix C –TFDM Flight Delay

Data Element	Description
Aircraft Departure Delay Start Time	The delay start time.
Aircraft Departure Delay End Time	The delay end time.
Impacting	The reason for the delay.

For a complete listing of all the data elements contained in the TTP Operational Metrics JMSDD [6].

TFDM-SWIM Introduction

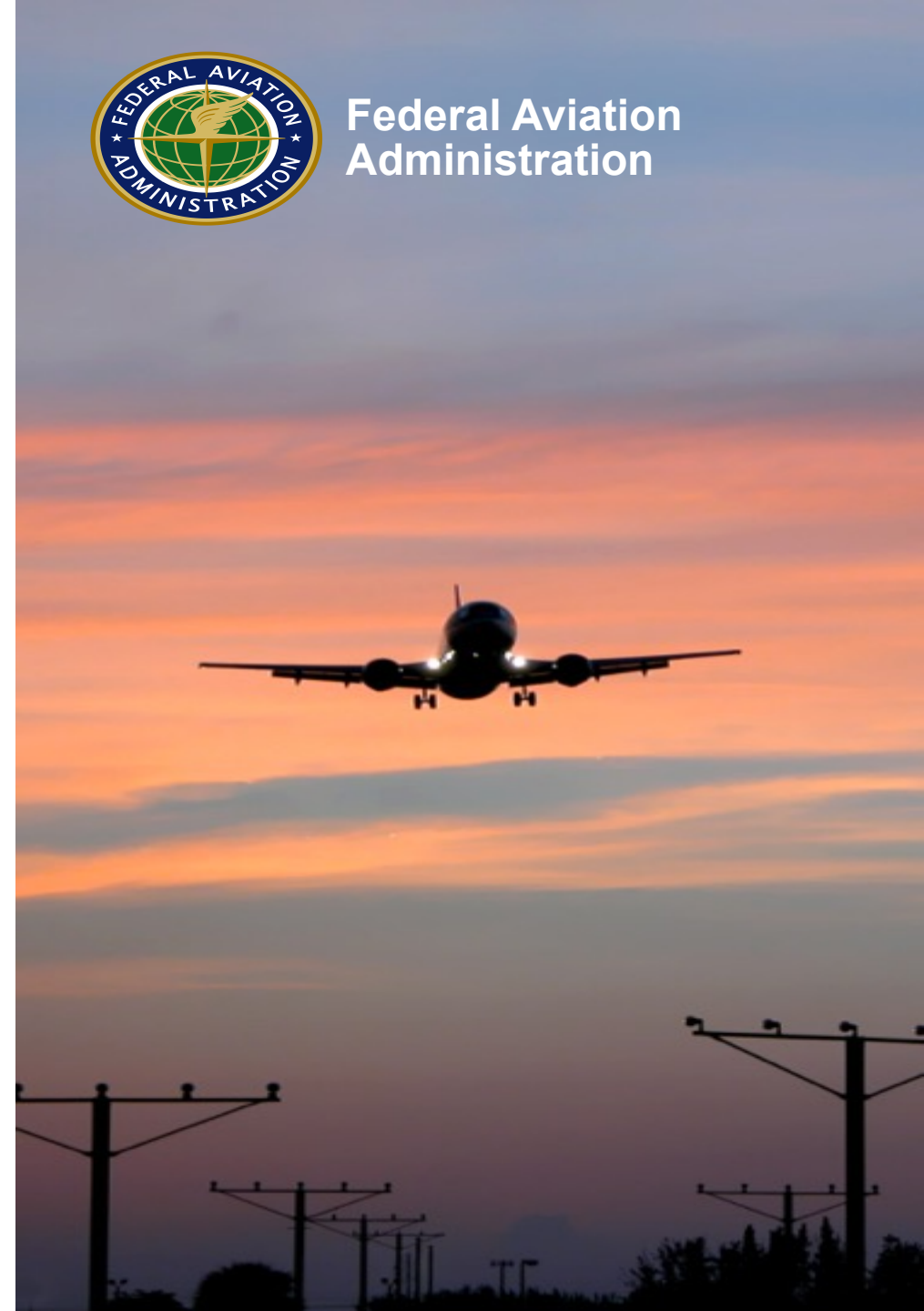
SWIFT 10.5

Douglas Swol
TFDM Acting Deputy Program Manager
and Lead Engineer

July 08, 2020



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Administration




TFDM Program Overview

TFDM is the **surface management solution** for NextGen and iTBO.

https://www.faa.gov/air_traffic/technology/tfdm/

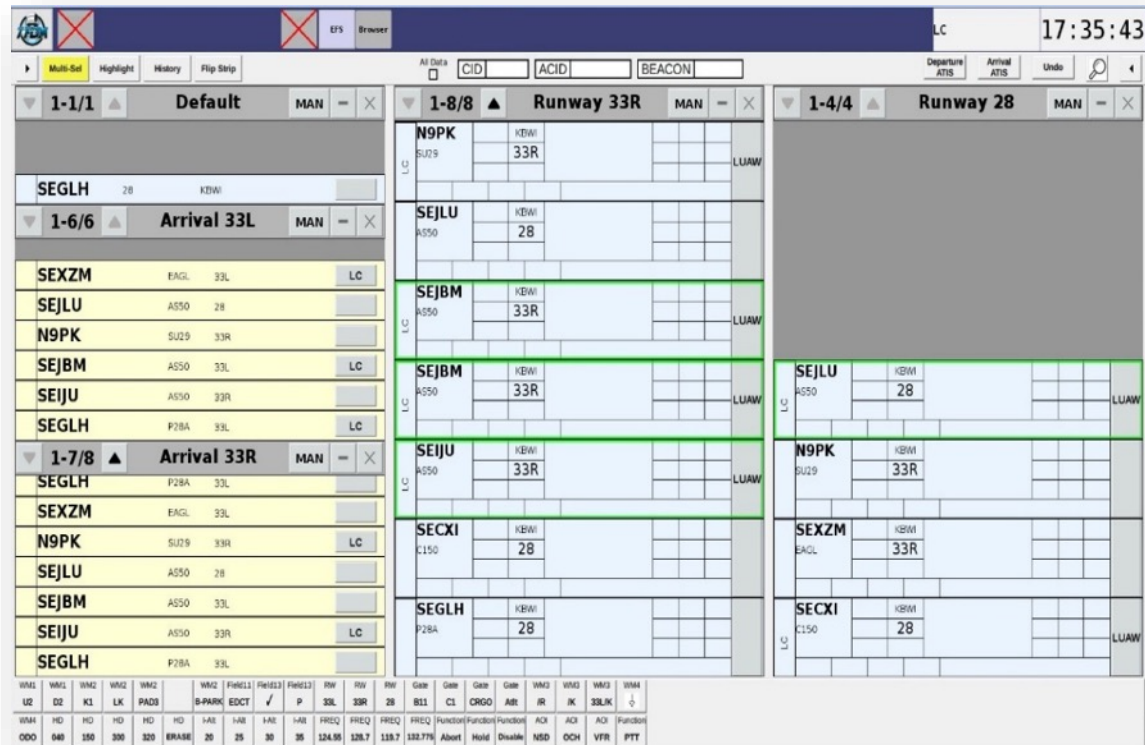
- **TFDM** will provide an integrated tower flight data automation system, which **will improve controllers' common situational awareness**.
- **TFDM will improve efficiencies** on the airport surface and terminal airspace by providing:

- 
- Electronic Flight Strips in the Tower
 - Traffic Flow Management Integration
 - Collaborative Decision Making for the Surface
 - Systems Consolidation

Key Benefits:

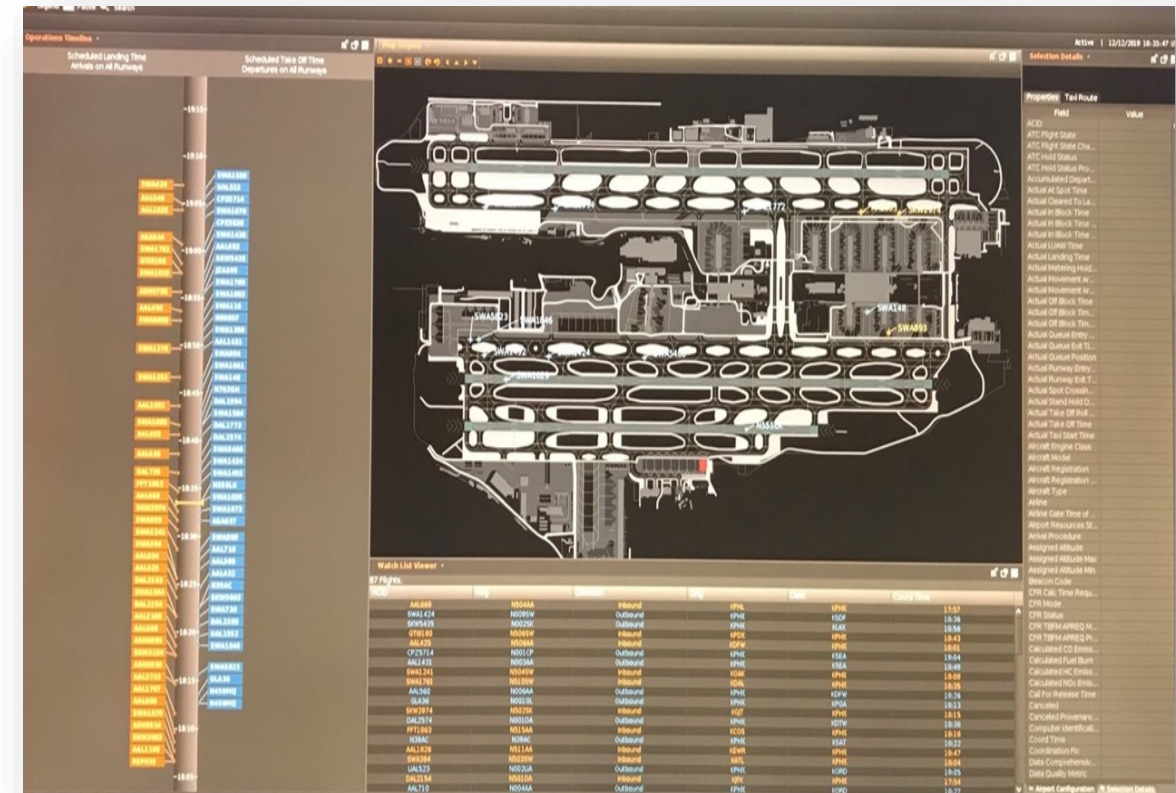
- Fuel Savings
- Carbon Emission Savings
- Improved Situational Awareness
- Expanded Data Access

TFDM System Displays



Electronic Flight Strip Display

Surface Management Display



TFDM Interfaces

Internal Interfaces

Two-Way Interfaces

- TFMS (via SWIM)
- TBFM (via SWIM)
- FDIO
- RMLS (via SWIM)
- STDDS (via SWIM)

One-Way Interfaces

- ASDE-X/ASSC
- STARS/TAMR
- TDLS

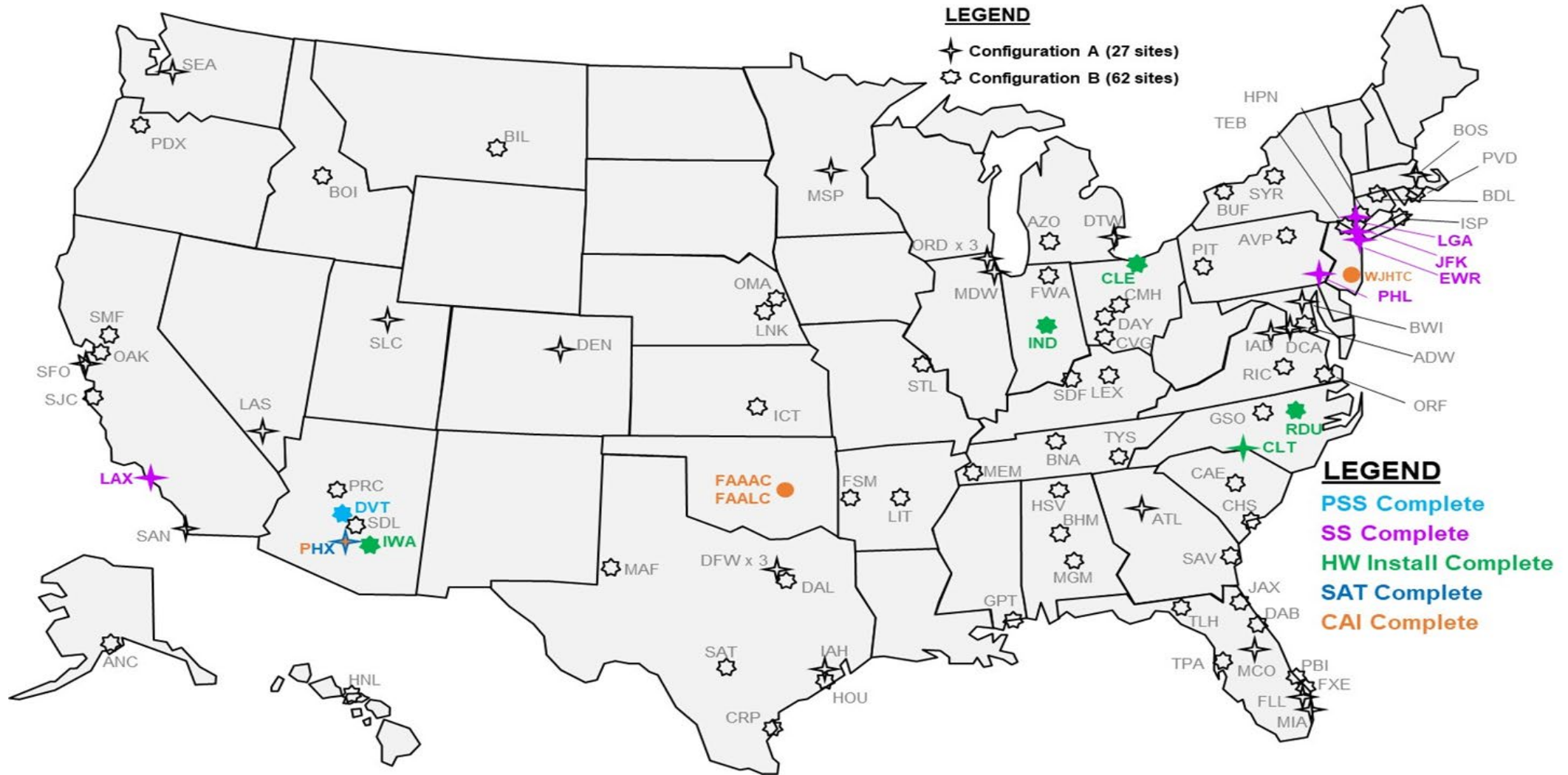
Facilities Affected

- Towers (93 at 89 airports)
- TRACONs (58 via TFMS)
- ARTCCs (18 via TFMS)
- ATCSCC (via TFMS)
- WJHTC (Test and 2nd Level Engineering)
- MMAC (Academy and Depot)

External Interfaces (via SWIM)

- Flight Operators (TTP and TFCS)
- Airport Authorities (TTP and TFCS)

Implementation Sites by Configuration



TFDM Configurations

The 89 Airports chosen for TFDM will receive one of two configurations based on functional need:

Configuration A

27 Sites



Full Functionality TFDM

- EFD, including electronic flight strips in towers
- Surface surveillance data integration
- Full DSTs (including surface metering)
- TFM data exchange and integration
- SSA on TFMS TMU displays in the TRACON, ARTCC, and ATCSCC

Configuration B

62 Sites



Improved EFD exchange only TFDM

- EFD, including electronic flight strips in towers
- SSA capability on TFMS TMU displays at selected sites

TFDM Program Roll-Out Overview

TFDM will be implemented via a multi-build strategy deploying the TFDM capabilities:

Build 1

Key Site - PHX

- Full hardware development to support the deployment of Build 1 & 2
- Improved Electronic Flight Data Exchange and Electronic Flight Strips
- Runway Assignment Predictions
- Basic Load Balancing
- SSA viewer (via TFMS)
- Maintenance tools for life cycle support

❖ Initial Operating Capability: **TBD**

❖ In-Service Decision: **TBD**

Build 2

Key Site - CLT

In addition to the Build 1 capabilities

- Surface Scheduling
- Surface Metering
- Advanced Runway Load Balancing
- Metric Reporting & Analysis (MRA)
- DSP Replacement via TFDM, TBFM, and TFMS

❖ Initial Operating Capability: **TBD**

❖ In-Service Decision: **TBD**

TDFM Terminal Publication (TTP) Overview

- **Service Description**
 - A SWIM Pub/Sub service that gives a consumer the capability to subscribe to TFDM data
- **Service Consumers**
 - FAA Consumers
 - Non-FAA Consumers (military or other agency)
 - Collaborative Decision Making (CDM) Participants
- **Service Interface**
 - Publishes airport information to SWIM for authorized consumers utilizing JMS 1.1 to send JMS messages
 - Makes use of a Pub/Sub Message Exchange Pattern (MEP)
- **Service Business Functions**



Flight Data

08L·26R

Airport
Information



Flight Delay



Operational
Metrics



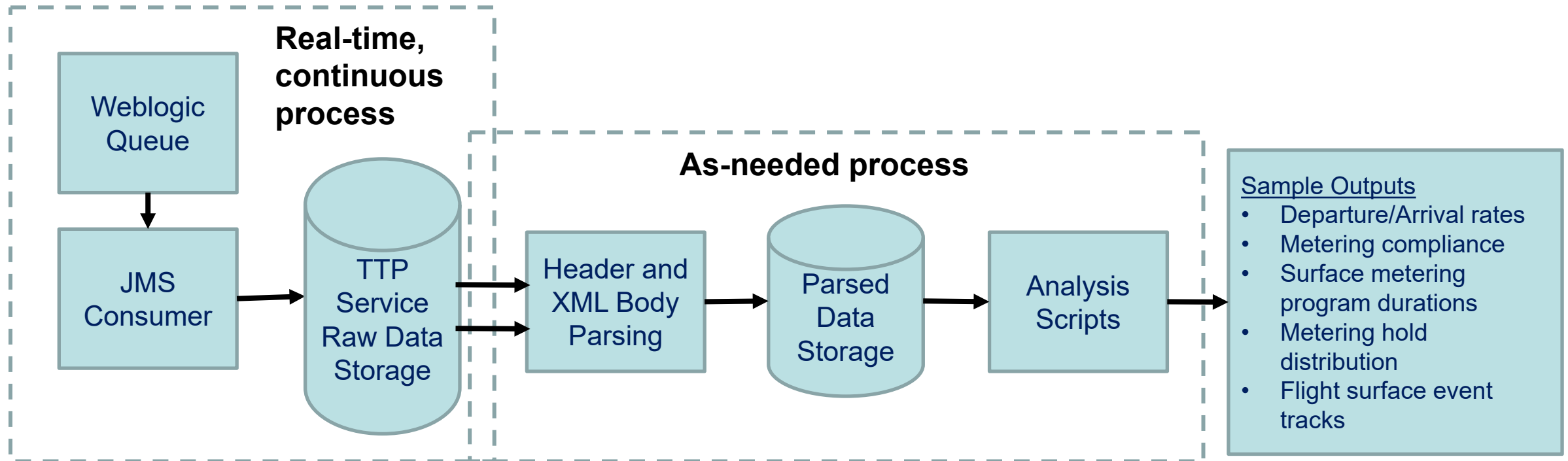
Traffic
Management
Restrictions



Surface
Management
Programs

Use Case: TTP Subscription

User subscribes to receive specified filtered information about surface events.

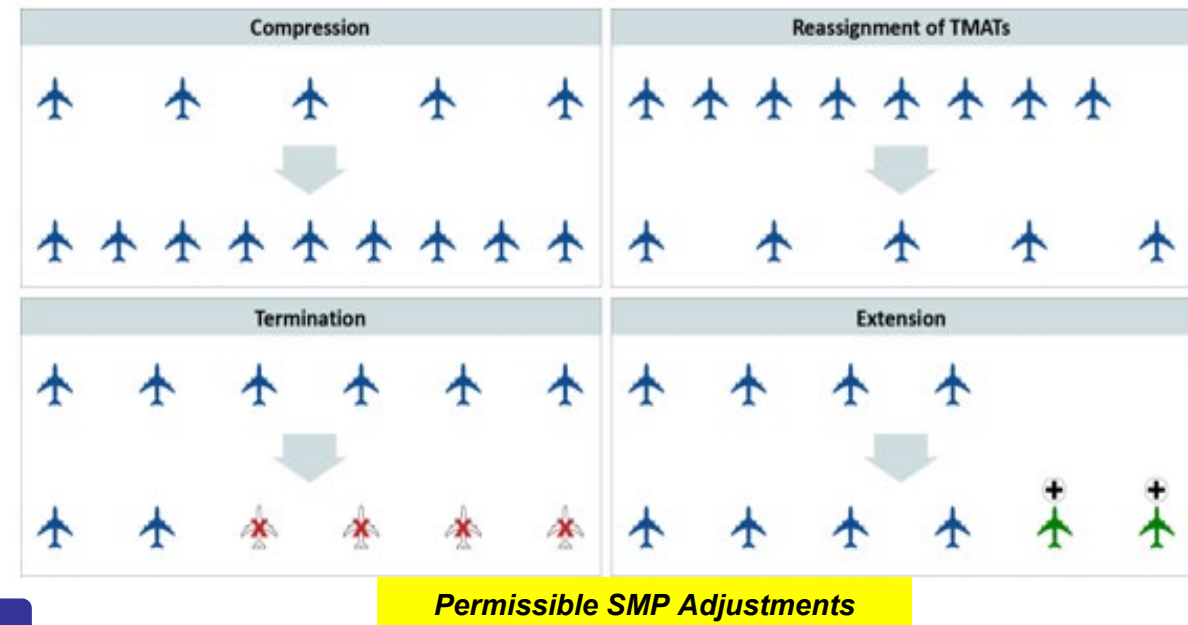
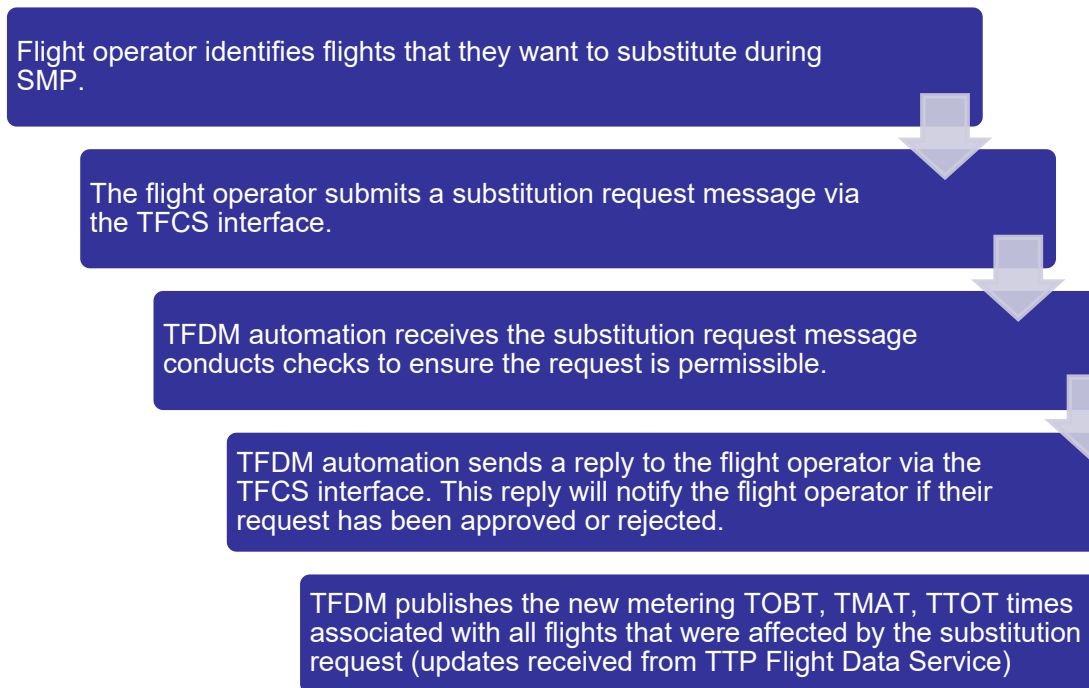


TFDM Flight-Operator System Collaboration Service (TFCS) Overview

- **Service Description**
 - Data exchange between TFDM and NAS users using a Request-Reply message exchange pattern.
- **Service Consumers**
 - Non-FAA Consumers (military or other agencies)
 - Collaborative Decision Making (CDM) Participants
 - Non-CDM Participants
- **Service Interface**
 - Follows a request/reply messaging model and makes use of a Request-Reply MEP
 - The interface to each service operation is defined by the messages exchanged in the MEP
 - Service users exchange messages with TFCS via NEMS
- **Service Business Functions**
 - The TFCS service allows authorized subscribers to submit/receive the following types of information
 - SMP Flight Substitution Service (SFSS)
 - Airport Data Information Service (ADIS) - *non-movement area closure data*
 - Airport Data Information Service (ADIS) - *non-movement area gridlock notifications*

Use Case: TFCS SMP Flight Substitution

Tactical Planning: User requests flight data for substitutions during Surface Metering Program (SMP).



TFCs Request/Reply: Flight Substitution Samples

Flight Substitutions Request – Flight Substitution

```
<?xml version="1.0" encoding="UTF-8"?>
  <aircraftId>DAL2345</aircraftId>
  <tfdmFlightUniqueId>BBBBBBBBB-BBBB-4BBB-9BBB-
BBBBBBBBBBBB</tfdmFlightUniqueId>
  <targetMovementAreaEntryTime>2001-12-
31T12:00:00</targetMovementAreaEntryTime>
  <aircraftId>DAL1234</aircraftId>
```

Flight Substitutions Request – Flight Relinquish

```
<?xml version="1.0" encoding="UTF-8"?>
  <aircraftId>DAL1234</aircraftId>
  <tfdmFlightUniqueId>AAAAAAAAA-AAAA-4AAA-9AAA-
AAAAAAAAAAAA</tfdmFlightUniqueId>
  <targetMovementAreaEntryTimeRelinquished>TRUE</targetMovementAreaEntryTimeRelinquished>
</request>
</tfc>
```

Flight Substitutions Request – Marked for Substitution

```
<?xml version="1.0" encoding="UTF-8"?>
  <aircraftId>DAL1234</aircraftId>
  <tfdmFlightUniqueId>AAAAAAAAA-AAAA-4AAA-9AAA-
AAAAAAAAAAAA</tfdmFlightUniqueId>
  <targetMovementAreaEntryTimeMarkedForSubstitution>TRUE</targetMovementAreaEntryTimeMarkedForSubstitution>
</request>
</tfc>
```

Flight Substitutions Response

```
<?xml version="1.0" encoding="UTF-8"?>
  <errorData>
    <errorCode>FLIGHT_PASSED_METERING_CONTROL_POINT</errorCode>
    <errorString>DAL1234 past metering control point. </errorString>
  </errorData>
  <flightsSubstitutionErrors>
    <flight>
      <aircraftId>DAL1234</aircraftId>
    </flight>
  </flightsSubstitutionErrors>
</flightSubstitutionResponse>
</tfc>
```

What's Next?

- **Service Documentation**

- Available

- Draft TTP Pub/Sub Service JMSDD
 - Draft TFCS Request/Reply JMSDD

- In Development

- TTP and TFCS Use Cases
 - TTP and TFCS Ops Context Documents

- **TTP Service Availability**

- **TFDM Build 1 IOC at PHX expected ~2021**

- Flight Data, Airport Information, Flight Delay, Operational Metrics [New](#)

- **TFDM Build 2 IOC at CLT expected ~2022**

- Flight Data, Airport Information, Flight Delay, Operational Metrics [Enhanced](#)
 - Traffic Management Restrictions, Surface Metering Programs [New](#)

- **TFCS Service Availability**

- **TFDM Build 2 IOC at CLT expected 2022**

How to collaborate with TFDM

- **SWIFT (of course!)**
- **Collaborative Site Implementation Team (CSIT)**
 - csit@faa.gov
- **TFDM Program Testing**
 - TTP/TFCS Pre-SWIM Testbed
- **Contact: Douglas Swol (Christopher.D.Swol@faa.gov)**

System Wide Information Management

Program Update

Presented to:

SWIFT 10.5

By:

SWIM Program Manager,

Kristin Cropf

Communications, Information and Network Programs, AJM-31

Date:

July 8, 2020

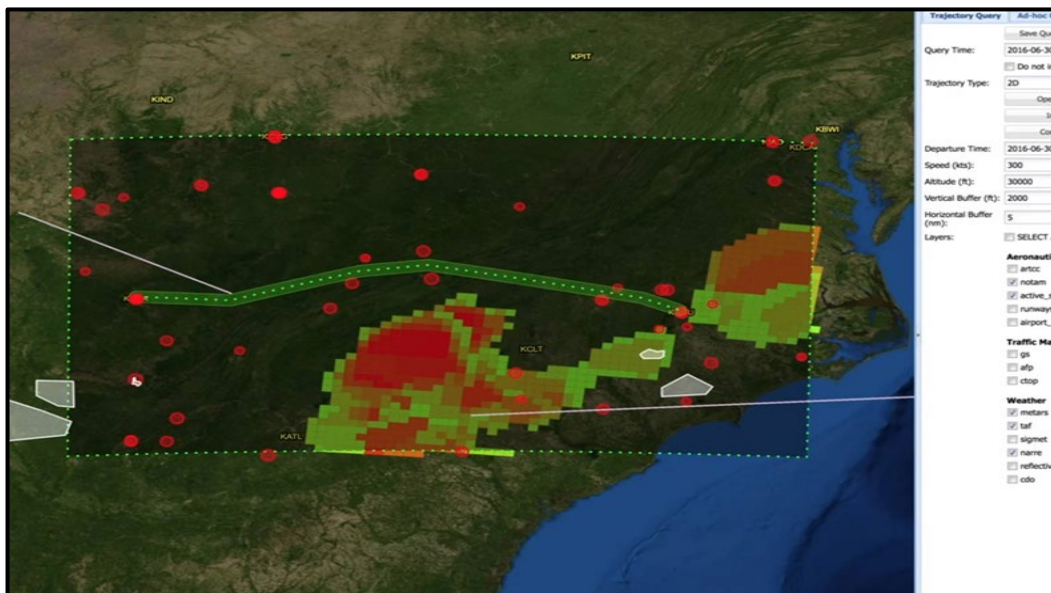


**Federal Aviation
Administration**



SWIM Capabilities

NAS Common Reference (NCR)



Will enable NAS systems & authorized users to customize requests for real-time SWIM data using standards-based geospatial, temporal, and attribute filters.

Common Support Services – Flight Data (CSS-FD)

COMING SOON

Partnering with NextGen to provide users a flight planning and filing capability.



SWIFT Portal


Federal Aviation
Administration


System Wide Information Management


SUPPORT | SIGN IN


**SWIFT Portal**
Discover SWIM and Join the Community

Get Started

**SWIM Service Discovery**
Learn about SWIM data products before subscribing. Visit the [NAS Service Registry Repository \(NSRR\)](#) for service documentation, including service operational context and use case documents.

**SWIM Service Status**
Check the current status of SWIM services and client connections to assist with troubleshooting. These insights provide users with information that was previously unavailable.

**SWIFT Community Forum**
Connect with the SWIM community, share knowledge and ideas with the aviation community, and learn what is new with SWIM in the News section of the forum.

**SWIM Cloud Distribution**
Utilize our cloud platform to connect, consume, and manage your SWIM data subscriptions. This new service offers self-service provisioning, data filtering capabilities, and subscription metrics.



Enhanced SWIM Cloud Service (ESCS)

Features

- Extends the SCDS concept to aviation mission partners - airlines, Air Navigation Service Providers (ANSPs), and others
- Allows for bi-directional data exchange with airlines and other airspace users
- Provides increased security controls to protect future sensitive data exchange
- Supports web services



SWIFT PORTAL DEMO

Doug Harvey



SWIFT Portal is a publicly accessible cloud-based infrastructure that brings new capabilities to built upon the SWIM Cloud Distribution Service (SCDS)



This service will include new Service Discovery, Service Status, Community Forum, Cloud Distribution Service, Self-service Help Desk

Community

Outage Notification - June 9, 2020
Announcement 11 views 0 comments Started by scds@faa.gov Maintenance/Outage Notifications

Setting up filters for your subscriptions
Announcement 80 views 5 comments 5 new Most recent by mkojagrin@gmail.com Subscription Tips

Microsoft Edge
7 views 1 comment Most recent by douglas.harvey

ADIAP User Transition
8 views 1 comment Most recent by alexander

V2 KeySite Community Post
7 views 0 comments Started by janice.jagoe

TFMS Release 14 Status
28 views 3 comments new Most recent by

Apple safari
15 views 2 comments new Most recent by

TBFM Service Status
29 views 8 comments new Most recent by

Achieved STDDS R4 Milestone
80 views 12 comments new Most recent by

Update to the TFMS Status SWIM S
9 views 0 comments new Started by sient

Discovery - STDDS

STDDS Services

Infrastructure System Monitor and Control (ISMC) Available
The Infrastructure, System Monitor and Control service sends status information for external systems associated with an STDDS site.
SWIM Service Product Category: Flight, Navigation

Airport Data Service (APDS) Available
STDDS Airport Data (APD). The SWIM Terminal Data Distribution System (STDDS) Airport Data (APD) service publishes Runway Visual Range (RVR) data to SWIM consumers. Data includes runway visibility and trend for touchdown, midpoint and rollout, depending on the instrument used for the runway. Data also includes edge and centerline light intensity activities. The Airport Data Service publishes runway status observations for a selected airport or all airports associated with a TRACON.
SWIM Service Product Category: Flight, Navigation

Surface Movement Event Service (SMES)
The Surface Movement Event Service sends derived surface aircraft and vehicles collected from towers associated with
SWIM Service Product Category: Surveillance

Tower Departure Event Service (TDES)
The Tower Departure Event Service sends departure events historic departure events upon startup.
SWIM Service Product Category: Flight, Navigation

Terminal Automation Information (TAIS)
The Terminal Automation Information Service (TAIS) publishes performance monitoring data from the Standard Terminal A
(NEMS).
SWIM Service Product Category: Surveillance

Status Overview

SCDS
Brokers UP Services DOWN
VIEW DETAILS

ACY
Brokers DEGRADED Services DOWN
VIEW DETAILS

OEX
Brokers UP Services UP
VIEW DETAILS

ATL
Brokers UP Services UP
VIEW DETAILS

Services

	STDDS	SCDS	ACY	OEX	ATL	SLC	TFMS	SCDS	ACY	OEX
ISMC	✓	✓	✓	✓	✓	✓	TFDM	✓	✓	✓
APDS	✓	✓	✓	✓	✓	✓	Status	✓	✓	✓
SMES	✓	✓	✓	✓	✓	✓	Flow	✓	✓	✓
TDES	✗	✓	✓	✓	✓	✓	Flight	✓	✓	✓
TAIS	✓	✓	✓	✓	✓	✓				
AIM_FNS							ITWS	SCDS	ACY	OEX
Publication	✓	✓	✓	✓	✓	✓	Standard	✓	✗	✓
							Alerts	✓	✓	✓

Help and Support

Resource that will teach you everything about SWIFT Portal

Q Search

Have a question about SWIM data? Checkout our documentation or ask our SWIM team.

Have a technical issue? Contact the SWIM Help Desk.

FAQ Guide Ask A Question Call Help Desk 1-855-FAA-NEMC Email Help Desk 9-ATO-SECC-OPS@faa.gov

Featured Articles

What data services are available via SCDS?
SCDS offers nearly all of the same data that a direct con...

Will NESG consumers also be allowed to consume data via SCDS?
The FAA is reviewing its users who are currently connect...

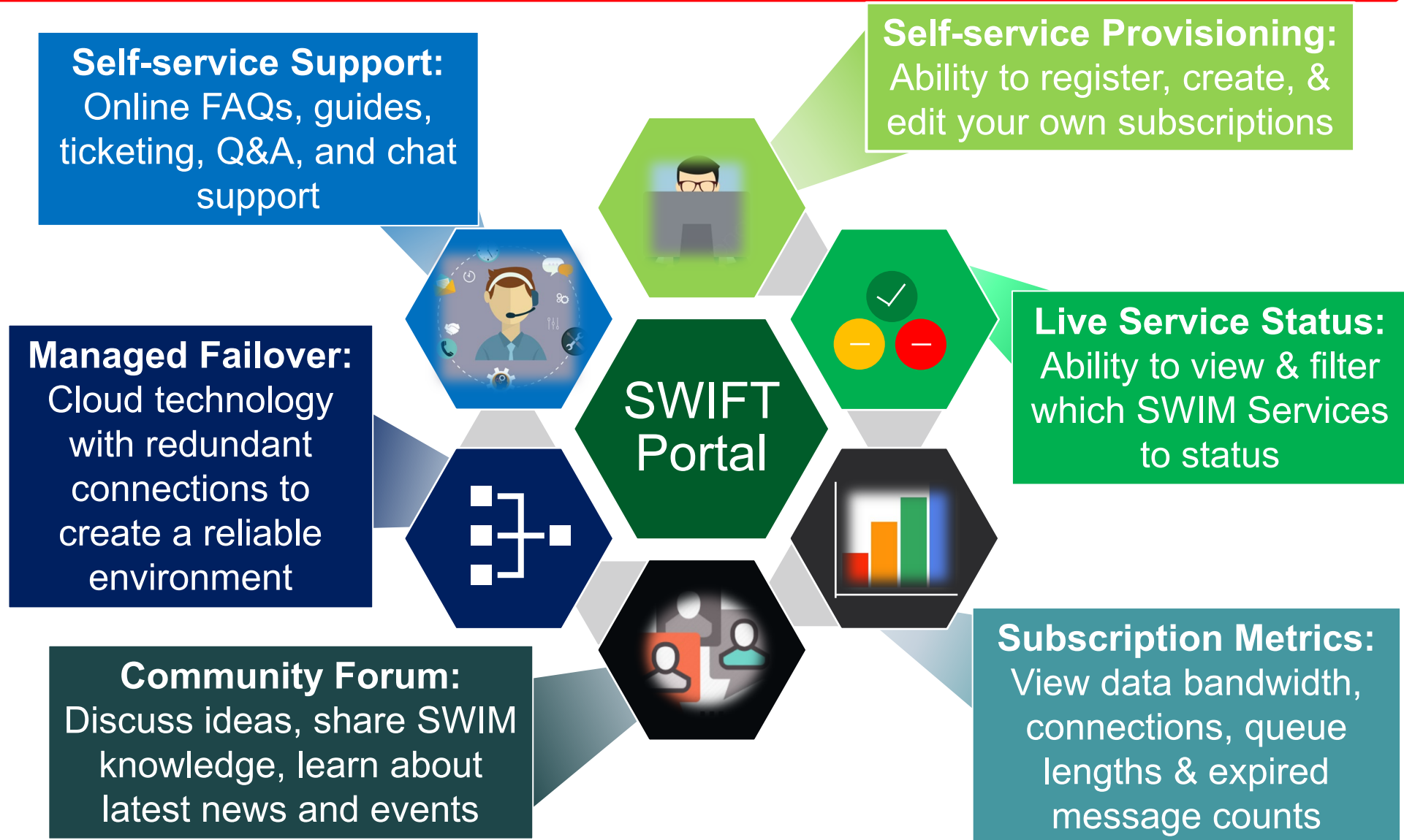
Recent activity

Accessing SCDS
What web browsers does SCDS support?
Comment added 8 months ago 1

Account
How to change your password
Article created 9 months ago 0

General

SWIFT Portal Experience





LIVE DEMO

Please join us at the next
SWIM Users Forum

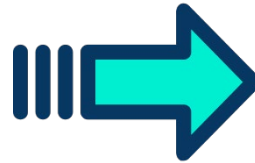
August 13, 2020

2:00-3:00 EST

We will be holding a SWIFT Portal Demonstration and would love your feedback!

Scan the QR Code below to register!

Use your phone to
scan the QR code



Questions?

Please send them to
SWIM@faa.gov

Final Announcements

SWIFT **Workshop #11**

- **Date**
 - **August 2020**
- **Location**
 - **Online Session**

SWIFT Site Information

- SWIFT@faa.gov
 - Any SWIFT-related questions
 - Sign up for SWIFT mailing list
- https://www.faa.gov/air_traffic/technology/swim/swift
 - Register for future SWIFT meetings
 - Stay up to date with SWIFT
 - Past meeting slides



SWIFT Contact Information

SCAN ME



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Felisa White, SWIFT Chair & FAA Lead

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- Email: SWIFT@faa.gov



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- Phone: (321) 735-2774
- Email: David.Almeida@LSTechLLC.com