

FAA SWIM Users Forum

Presented to: SWIM Users

By: FAA SWIM Program Office

Date: June 11, 2024




**Federal Aviation
Administration**



Agenda

- **Aeronautical Common Services (ACS)**
- **SCDS Updates**
- **SWIM Commitment to Stakeholder Engagement**





Aeronautical Common Services (ACS)

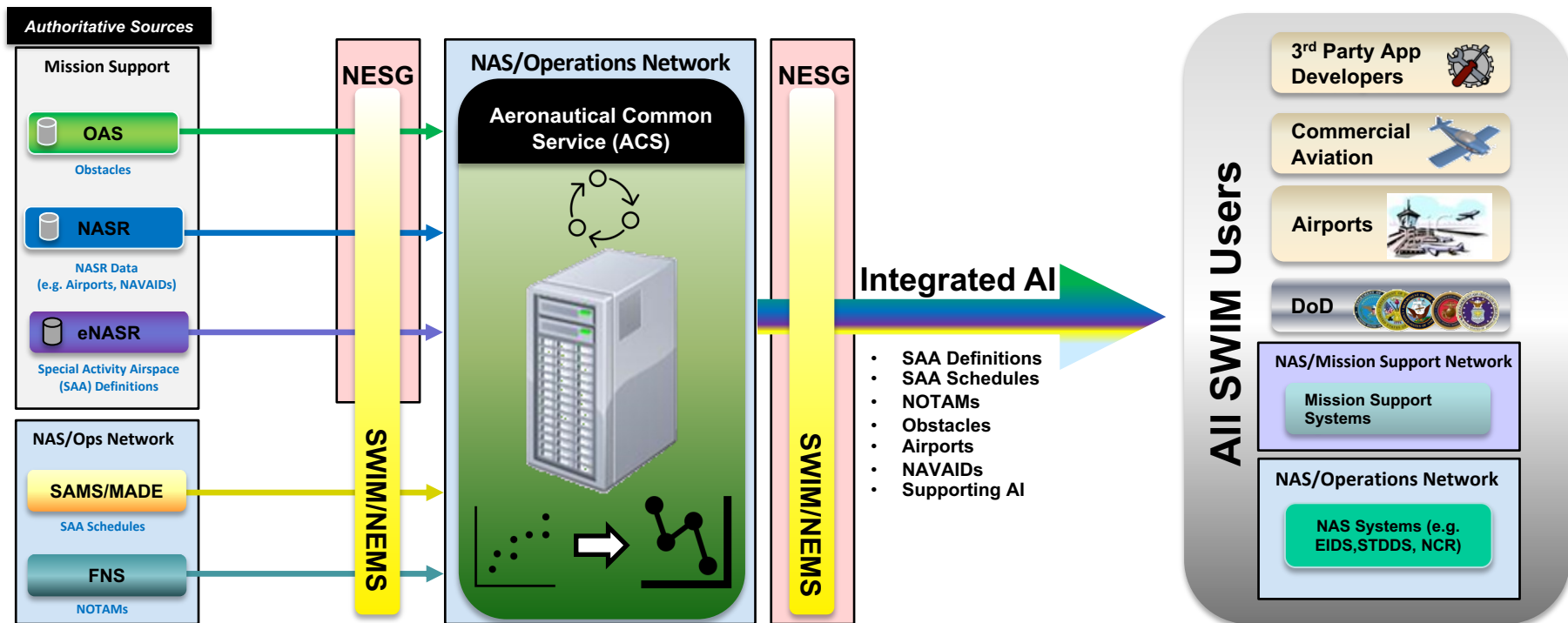
Aeronautical Common Services (ACS)

Overview

- The ACS is collection of web services that provides access to integrated Aeronautical Information (AI) in Aeronautical Information Exchange Model (AIXM) 5.1 format
 - The ACS ingests and integrates/correlates static and dynamic aeronautical data
 - Consuming systems will have access to integrated AI through System Wide Information Management (SWIM)
- The consolidation and distribution by the ACS of AI from separate NAS systems offers users a single access point using a common AIXM format



ACS Context Diagram



ACS Data Sources

Static Aeronautical Information



NAS Resources (NASR)

- Airports
- Navigational Aids (NAVAIDs)
- Services
- Other Supporting AI

Custom XML



Electronic NASR (eNASR)

- Static Special Activity Airspace (SAA)

AIXM 5.0



Obstacle Authoritative Source (OAS)

- Obstacles

AIXM 5.1

Dynamic Aeronautical Information



Federal NOTAM System (FNS)

- Notices to Air Missions (NOTAMs)

AIXM 5.1



Special Use Airspace Management System (SAMS)

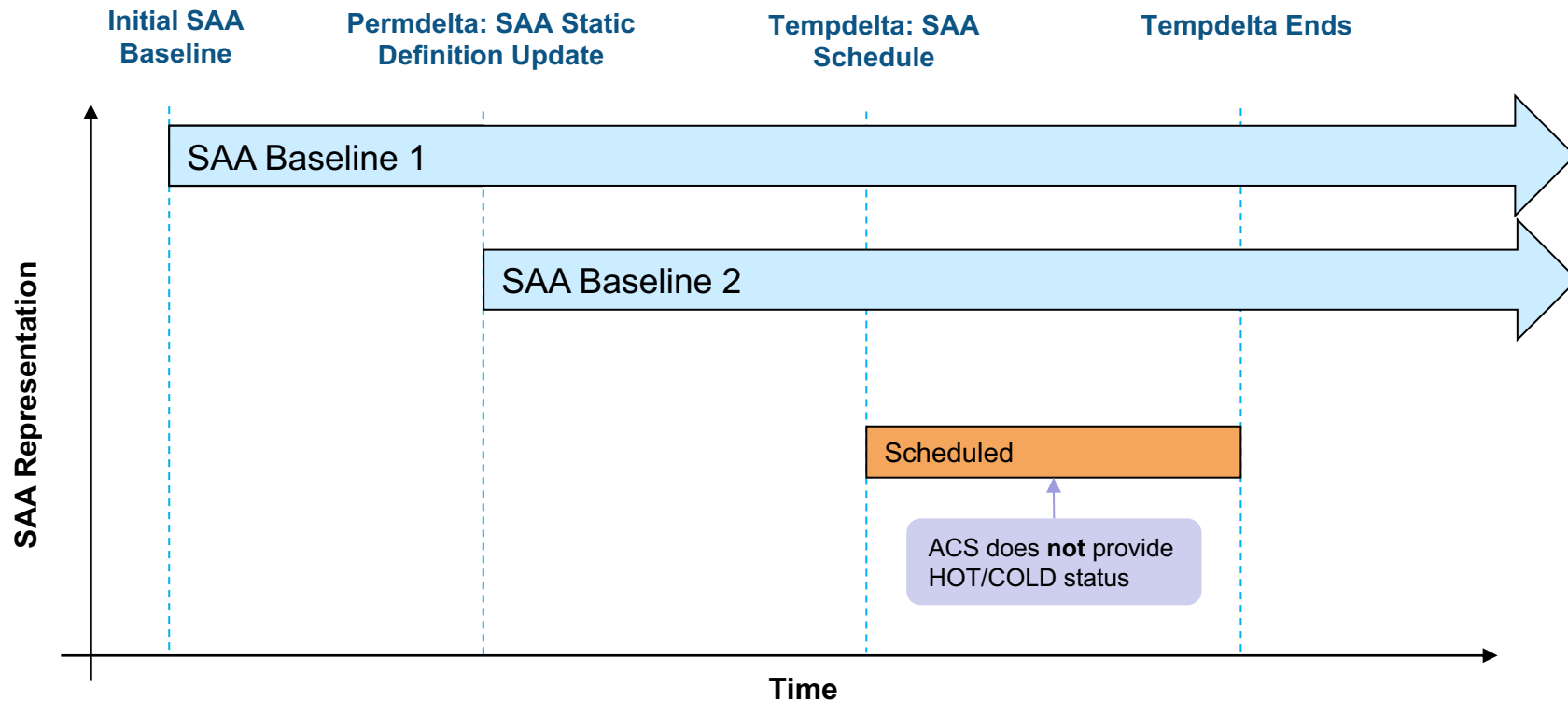
- SAA Schedules

AIXM 5.0

Aeronautical Information Integration/Correlation

- The ACS performs two key functions when integrating Aeronautical Information
 - Correlating Static AI with Static AI
 - Resolves references between different static descriptions of Aero Info features
 - **Example:** When a NAVAID or Airport is used as a CenterPoint in an arc used in defining an airspace boundary
 - Correlating Dynamic AI with Static AI
 - Applies temporary changes present in the dynamic AI update to the baseline Static AI feature
 - **NOTAM Example:** Updates the status of a Runway based on a NOTAM
 - **SAA Example:** Applies a schedule issued for an SAA indicating the period it will be active for a single use

Timeline: SAA Updates



ACS Web Services



Data Subscription Service

- Provides updates to AI features based on what feature groups users are subscribed
- Users retrieve updates from pullpoints



Web Feature Service

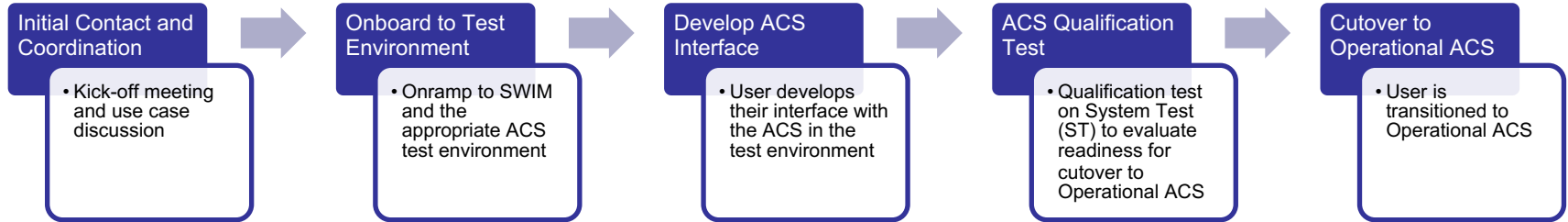
- Provides the ability for user submitted custom queries for AI features
- Implementing an Open Geospatial Consortium (OGC) standard



Data Query Service

- Provides a set of predefined queries for users
 - For example: Querying for airspace along a flight path

ACS Onboarding Process



**Aeronautical Information Management
Modernization Segment 2 (AIMM S2)**

**Aeronautical Common Service (ACS)
Onboarding Guide**



POC Email:

ACSconsumer@faa.gov



Operations and Maintenance

- **Ongoing ACS maintenance:**
 - Addressing issues assessed by the ACS Configuration Control Board (CCB) and assigned to future maintenance releases
 - SSM-ACS-007: Tech refresh to address security requirements
 - Scheduled for ~ Q1 FY2025
 - We will coordinate with ACS data consumers to ensure no or minimal service disruption

Key Organizations

System Owner:	Aeronautical Services (AJM-336)
Offices of Primary Responsibility (OPR):	NAS Enterprise Services Group (AJW-17)
First level Support :	National Airspace System Security and Enterprise Operations (NASEO) (AJW-B)
IESP Dev HW Support:	Aeronautical & Weather Service Verification (ANG-E67)

Questions



SCDS Updates

New SWIM Governance Follow-up

- **Updated SCDS standards are effective as of June 1, 2024**
 - SCDS Data Usage
 - JMS Connection
 - Internal Distribution
 - Data Compression
- **Current, active SCDS subscriptions now reflect User acceptance of these new standards**
 - Re-signing of updated Service Access Agreements (SAAs) for existing subscriptions
 - Signing of the updated SAA for new subscriptions

For More Information
on new SCDS
governance see the
September 2023 FAA
SWIM Users Forum
presentation



Consumer Continuity

- **90% of Users re-signed SAAs, and most Users were not impacted**
- **Existing subscriptions that did not have updated SAAs by June 1, 2024 were suspended**
 - If your subscription has been suspended, there is still time to reactivate it by re-signing the necessary SAAs
 - Subscriptions not reactivated within 30 days of suspension will be deleted

Standards Review Coming Soon

- **The SCDS team will begin reviewing subscriptions soon to ensure adherence to SCDS standards**
- **Users with accounts/subscriptions that do not adhere to SCDS standards will be contacted for remediation**
- **Exceptions can be requested and will be reviewed and approved at the discretion of the SCDS team**

Maintenance Events Feeds are Live!

- **SWIM maintenance event details are now active within the SWIFT Portal**
 - Includes planned and unplanned service outages
- **Users can create notifications for specific services, delivered via email, the SWIFT Portal, or both**

The screenshot displays the 'Maintenance' section of the SWIFT Portal. It features a navigation bar with 'EVENTS', 'PAST EVENTS', and 'NOTIFICATIONS'. The 'EVENTS' tab is active, showing a table of 'Active Events' and 'Upcoming Events'. The 'Active Events' table has columns for Type, Service Impact, State, Start Time, End Time, Sites, Systems, Updated, and Info. One event is listed: 'Unscheduled' with 'Partial Outage' impact, 'On' state, starting at 03/07/2022 2256, ending at 03/07/2022 2258, at sites ACY, ATL, OEX, and NEMS. The 'Upcoming Events' table shows a 'Scheduled' event with 'Full Outage' impact, 'On' state, starting at 03/08/2022 0000, ending at 03/08/2022 0100, at sites AOW, ANC, CLR, and NEMS. Below the tables, a 'Maintenance Event Details' modal is open for the first event. It shows the date/time (March 07, 2022 starting at 2256 UTC), event summary (UNSCHEDULED OUTAGE NOTIFICATION), service impact (Partial Outage), service impacts (Aeronautical Common Services Post Op Metrics (ACS-POM), Aeronautical Common Services WMS (ACS-WMS), Aeronautical Common Services WMTS (ACS-WMTS)), systems (NEMS), sites (ACY, ATL, OEX), and additional details (This is emergency unplanned maintenance). It also shows creation and update timestamps and a 'CLOSE' button.

Maintenance Event Details

Date/Time:
March 07, 2022 starting at 2256 UTC

Event Summary:
UNSCHEDULED OUTAGE NOTIFICATION

Service Impact:
Partial Outage

Service Impacts:

- Aeronautical Common Services Post Op Metrics (ACS-POM)
- Aeronautical Common Services WMS (ACS-WMS)
- Aeronautical Common Services WMTS (ACS-WMTS)

Systems:
NEMS

Sites:
ACY, ATL, OEX

Additional Details:
This is emergency unplanned maintenance.

Created: March 07, 2022 2257 UTC
Last Updated: March 07, 2022 2258 UTC
Last Notification Sent: N/A

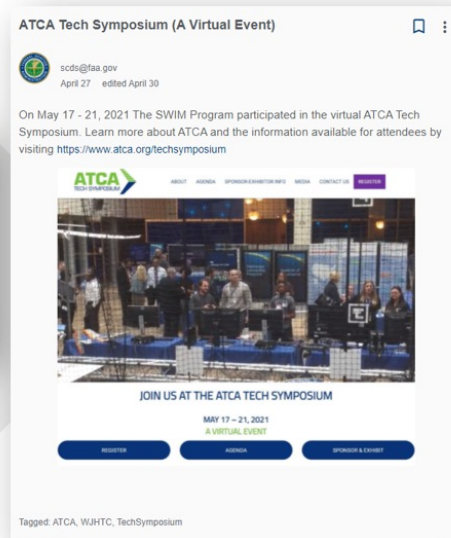
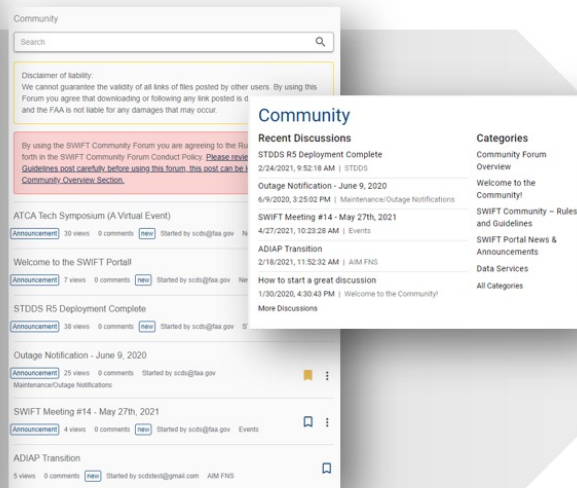
CLOSE

Community Forum Reminder



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.



- ✓ News
- ✓ Sharing
- ✓ Knowledge
- ✓ Discussion
- ✓ Ideas
- ✓ Collaboration
- ✓ Community

**Learn the latest SWIM news, share your ideas with others and expand the knowledge base
Discuss and collaborate with fellow aviation partners and community members**

Resources/Help

- **SCDS Helpdesk**
 - support@cinnato.zendesk.com
- **SWIFT Portal**
 - News Items
 - Community Forum
 - SWIFT Portal Support web form
- **SCDS email distributions**

Contact Info

✉ **Waldo E. Ford**
SWIFT Portal Lead
Waldo.E.Ford@faa.gov

✉ **SCDS Helpdesk**
support@cinnato.zendesk.com





Stakeholder Engagement

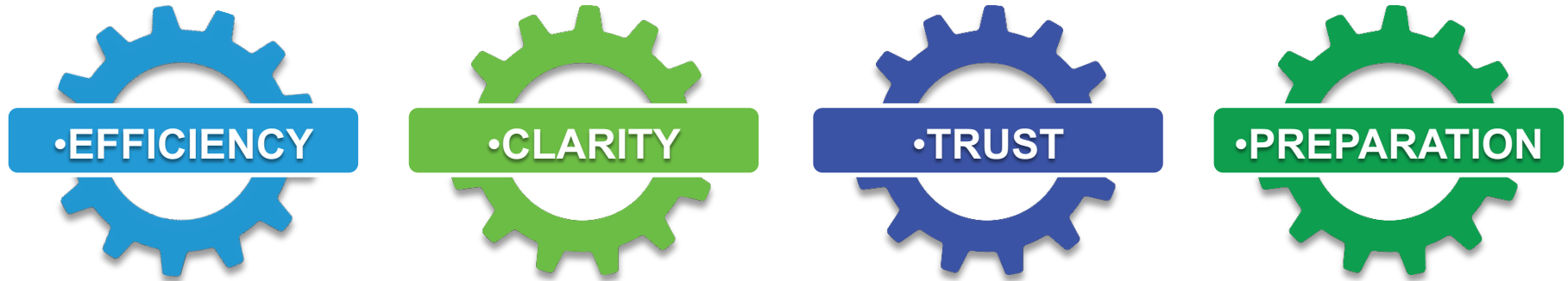
Working to Streamline Communications

- **A unified communications strategy includes:**
 - Two-way information exchange between the FAA and Industry
 - Internal FAA coordination and information sharing
 - Inclusion of stakeholders at various levels
 - Opportunities for feedback
 - Consistent messaging



Effective Engagement is Proactive and Recurring

Benefits of Consistent Messaging



- **Efficiency:** Streamlined coordination processes
- **Clarity:** Clear understanding of requirements and timelines
- **Trust:** Improved relationships between the FAA and airlines
- **Preparation:** Proactive plans for change

Questions



2024 User Forum Dates



~~June 11~~

September 10

December 3



Thank you for
attending!

SWIM@faa.gov

