

SWIM Users Forum

June 14, 2018

Washington, DC

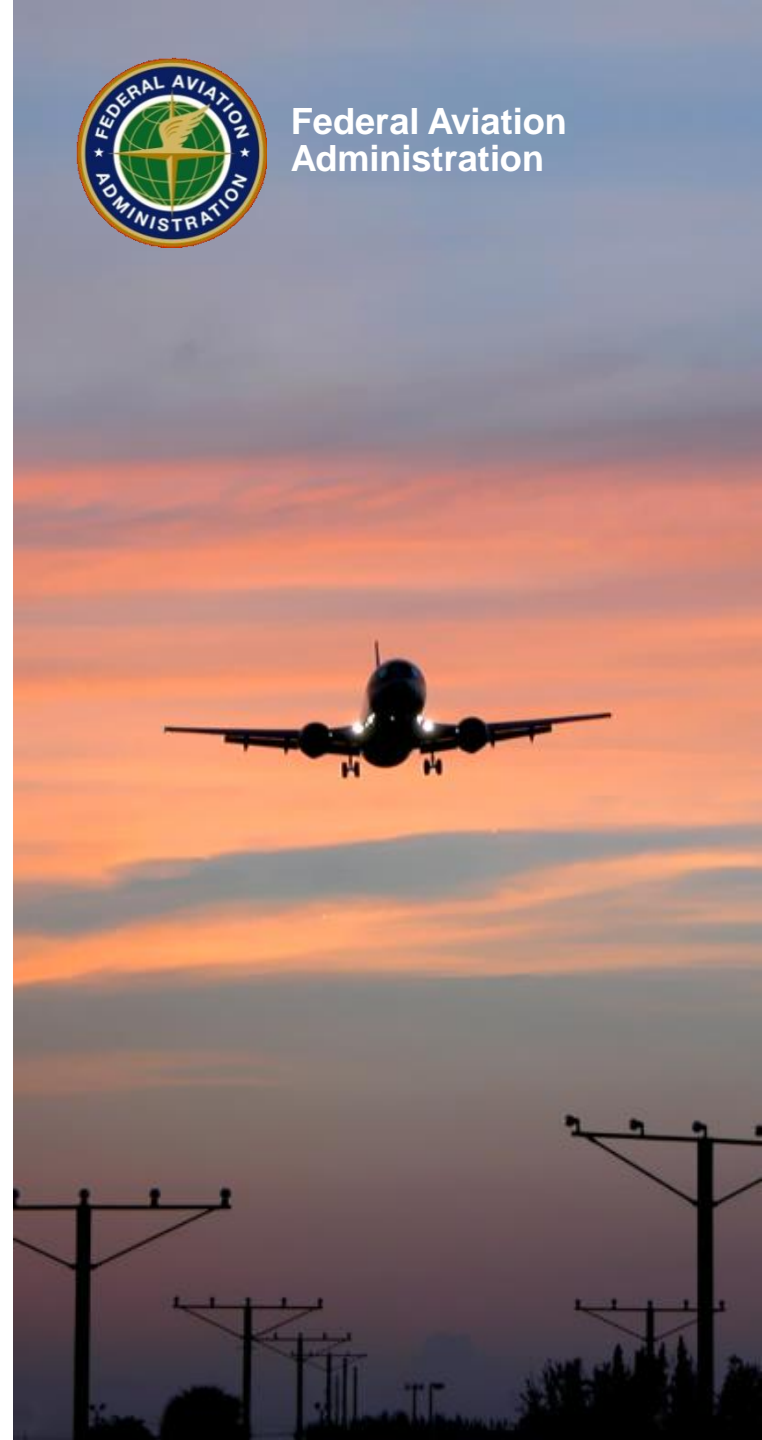
Hosted by:

The SWIM Program Office

Display/Webinar Version



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Agenda

- **SCDS Updates**
- **STDDS Updates**
- **Adding a Service Suite to the NSRR**
- **Upcoming Event**
- **Closeout**



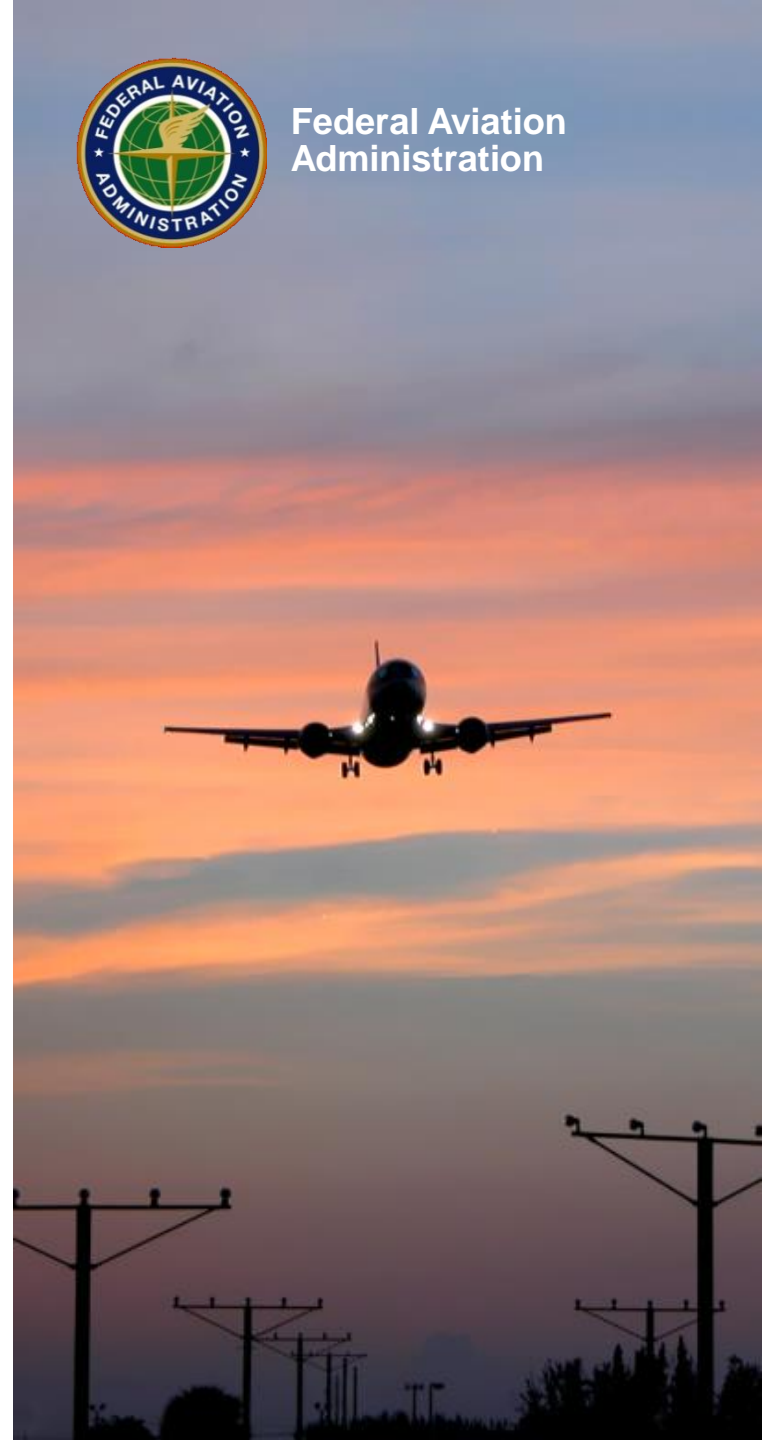
SCDS Update

Presented by:
Stuart Wilson, LS Technologies, LLC

June 14, 2018

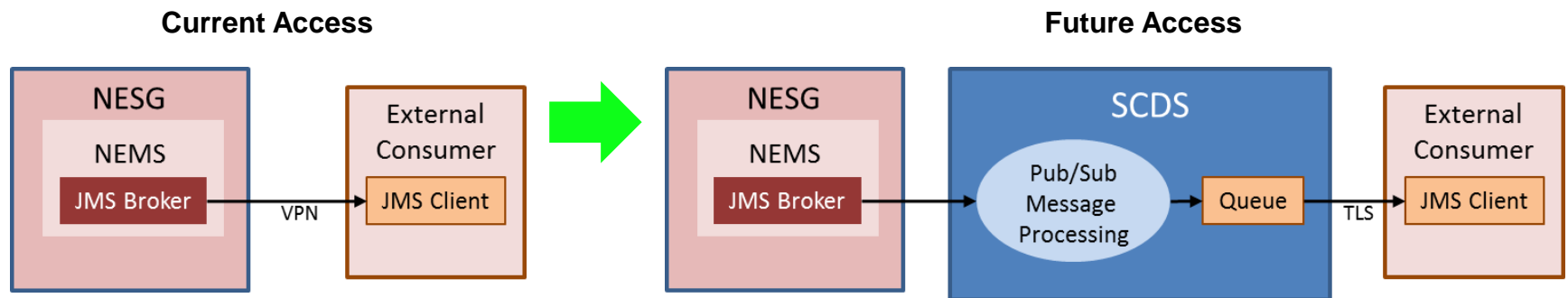


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SCDS – Messaging Service

- **Provides access to all publicly available pub/sub SWIM services**
 - All data is filtered and approved for release (non-sensitive)
 - TBFM, ITWS, STDDS, SFDPS, TFMS, AIM FNS
 - Data is forwarded from NAS Enterprise Security Gateway (NESG) via a secure connection and will automate failover between ACY and OEX
 - Distributes data to SCDS users over a TLS connection
 - Same tech used as NESG to lower impact of user migration
 - Solace Software & JMS messaging protocol



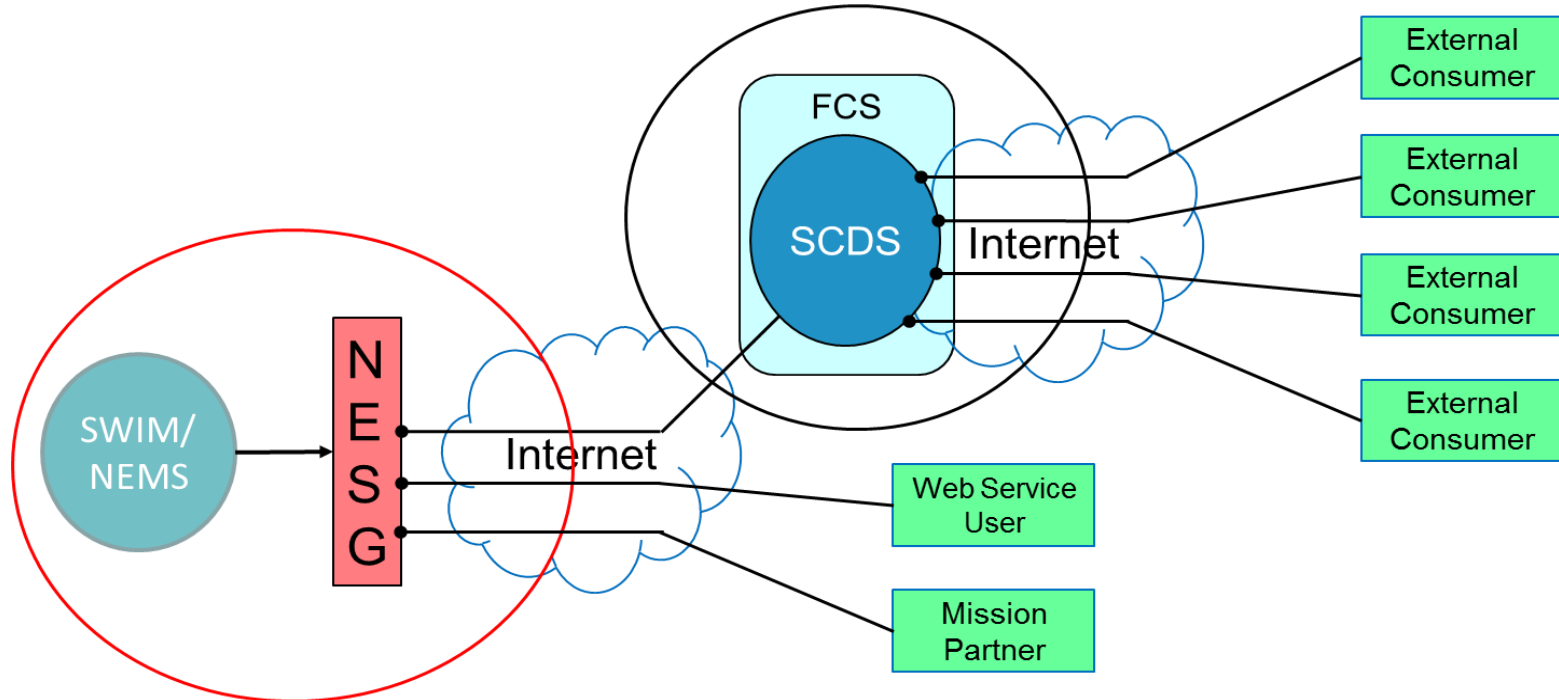
SWIM Cloud Distribution Service (SCDS)

- **Features**

- Service Management
- Self Service Provisioning
- Service Status
- JMS Messaging Broker
- Service Help Desk

- **Benefits**

- Reduce impact on infrastructure
- Streamlined service delivery through automation
- Improved user experience
- Decreased on-ramping overhead
- Scalable platform for growth in services



SCDS Prototype Status

- **SCDS Prototype Kicked off week of June 4th**
 - 25 SWIM Users were selected and agreed to participate
 - Prototype lasts for 3 months and is scheduled to be complete at the end of August 2018
- **Desired Outcome:**
 - Achieve common understanding of prototype activities SWIM has underway
 - Establish an understanding of SCDS functionality
 - Baseline SCDS timeline and instructions
 - Provide overview of documentation you will receive

SCDS Prototyping Objectives

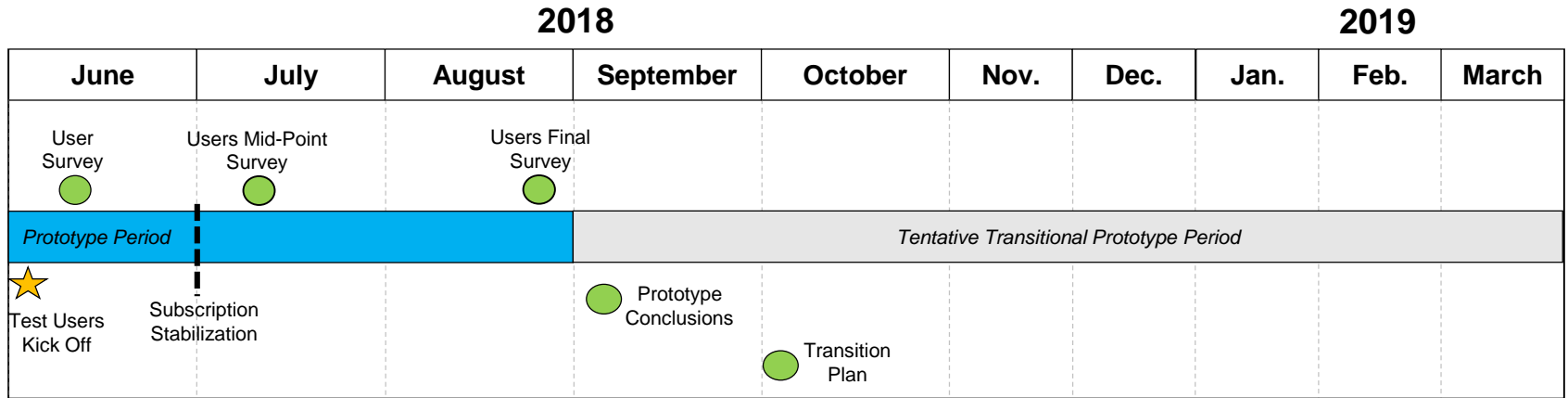
Purpose of the Prototype

- Provide SWIM users early access to SCDS and give the community a chance to provide feedback
- Evaluate SCDS ability to efficiently provide SWIM services to end users
- Obtain feedback on SCDS capabilities and user interface

Intended Outcomes of Prototype

- Gain Recommendations on potential SCDS feature enhancements
- Validate solution and its use by user community
- Perform operational test of SCDS under realistic conditions
- Utilize feedback from prototype as input into transition plan

SCDS Prototype Timeline



SCDS Migration Plan Overview

1. Identify users which will be migrated

- Reviewed existing users and associated classification
- Defined written justification to determine which users will stay connected to NESG and which users will migrate to SCDS

2. Begin testing with sample set of users

- Recruit internal users
- Select representative set of external users from each of the three groups
- Allows for testing of SCDS, migration plan & communication package

3. Break SCDS users into three groups of users

- First group contains users identified as containing least amount of relative risk
- Second group contains users identified as containing moderate amount of relative risk
- Third group contains users identified as containing greatest amount of relative risk

4. Begin Migration

- Send communication package
- Selected primarily from OPS
- Incorporate lessons learned
- Send communication package
- Selected from both OPS and R&D

Questions?



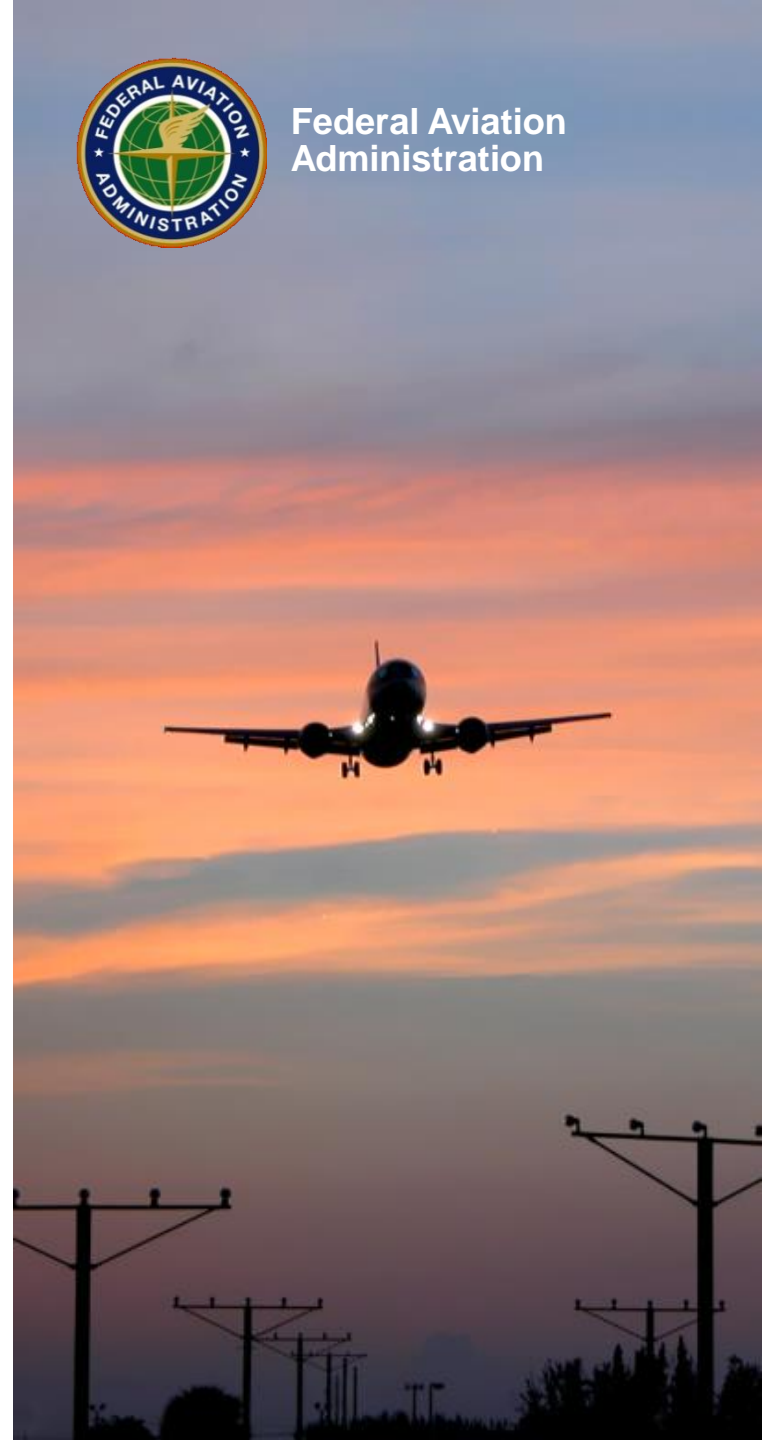
STDDS Update

Presented by:
Julia Korey, Canvan Solutions

June 14, 2018



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STDDS Updates

- **STDDS R4 Schedule:**

- Key Sites:

- Y90 July 23, 2018
- PHL August 20, 2018
- C90 September 10, 2018
- Waterfall deployment: October 2018 – January 2019

- **STDDS R4 Resources:**

- R4 changes are documented in the [Release Notes](#) and include:

- Integration of SFDPS flight plan data to SMES, TAIS, TDES
- Publication of filtered TDES data and TDLS D-ATIS messages
 - Subscribe via data.faa.gov in the near future

- [Sample R4 data](#) file is available on the NSRR

- Canned R4 data is being published to STDDS end-points in R&D

Adding a Service Suite to the NSRR



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Presented by:
The SWIM Governance/NSRR Team

June 14, 2018



Background

- Historically, some SWIM services have been implemented as collections of “sub-services”.

For example:

SFDPS

En Route Airspace Data Publication

En Route Airspace Data Query

En Route Flight Data Publication

En Route General Message Publication

En Route General Message Query

- Each sub-service has been independently managed and maintained as a separate service in the NSRR.

Motivation for Changes

- Because some service documents (e.g., ConOps, Requirements Documents) are likely to apply to more than one sub-service in the collection, NSRR's Service Publishers have had to duplicate these documents for each sub-service and upload them into each sub-service's Service Document section.
- To save effort and avoid unnecessary redundancy, Service Publishers have asked for functionality that would allow them to assign a document to more than one service.

Solution

- The NSRR has introduced a new concept called a “*service suite*.”
- All current services which have been identified as being sub-services will be tagged to associate them with a specific *suite*.
- NSRR Publishers will be able to share and reuse documents among services belonging to that *suite*.
- NSRR Viewers’ ability to find and retrieve documents will remain the same, but they will now be able to use *suite* as a service search category.

Implementation

- The changes will be demonstrated and discussed at an NSRR Focus Group meeting.
- The Registry Custodian will work with Publishers to ensure correct allocation of services to the appropriate service suites.
- The changes will be propagated in the NSRR operational environment.
- The date for making the changes operational depends on ongoing testing and discussions with the Publishers.

Upcoming Event

- **18 July: ATCA Aviation Cyber Day: Jim Laymon, Rob Segers and David Almeida** will provide a panel discussion on PKI/IAM from a global perspective
 - An IAM briefing will follow at a future forum

