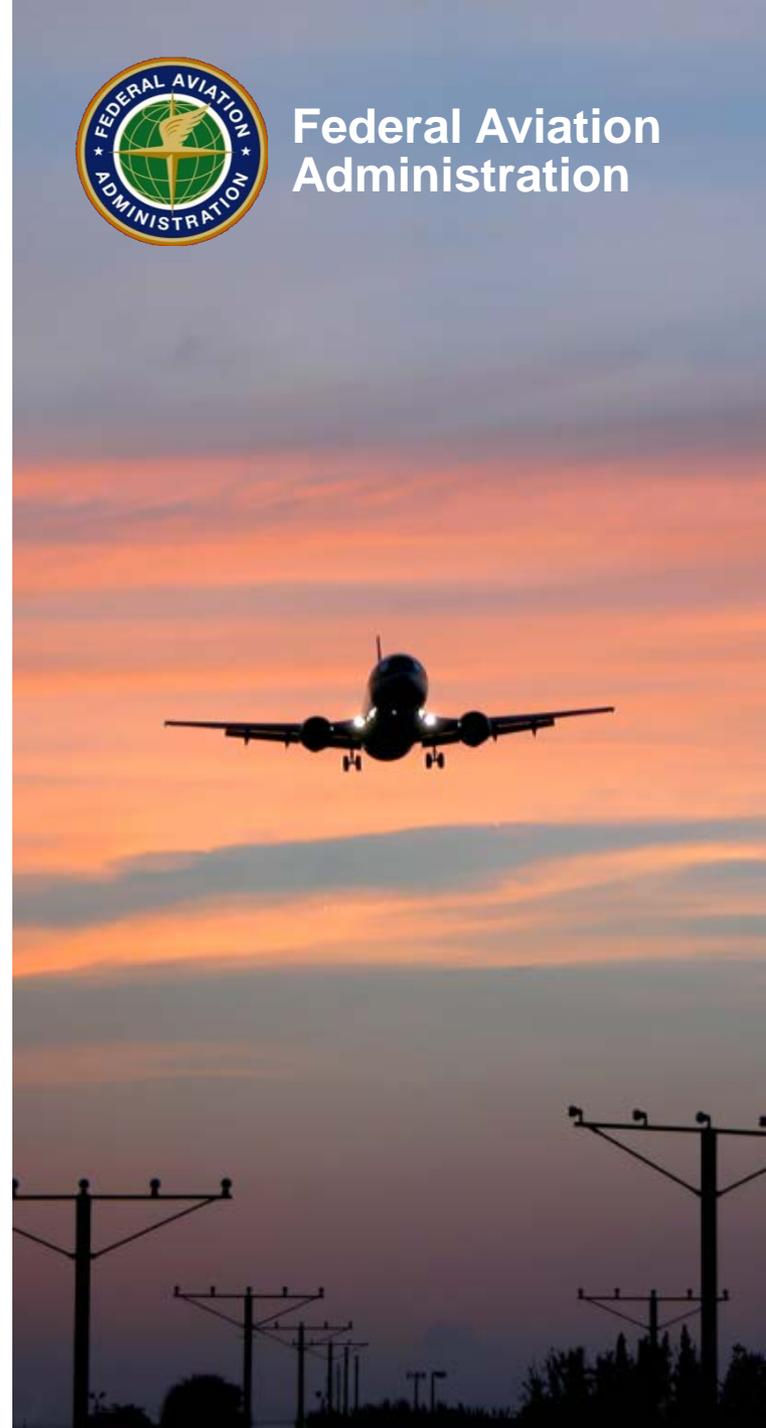


SWIM Users Forum – June 2016

By: SWIM Program Office
To: SWIM Consumers
Date: June 9, 2016



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SWIM Users Forum - Overview

- **Purpose:** Monthly forum for SWIM Users to obtain program updates, provide feedback, obtain answers to SWIM related questions or data concerns
- **Scope: SWIM Portfolio of Services**
 - Aeronautical Data
 - Flight and Flow Data
 - Weather Data

User Forum Logistics

- **Date:**
 - June 9, 2016 - 2:30 pm – 4:00pm
- **Location:**
 - Noblis Lakes Conference Rm – A&B
- **Go-to-Meeting: Please register for “SWIM Users Forum” at SWIM Website:**
- http://www.faa.gov/nextgen/programs/swim/users_forum/, <http://1.usa.gov/1HyD6SW>
- **User Forum briefing distributed via invitation & on SWIM website**
(www.faa.gov/nextgen/programs/swim/user-forum)

SWIM Users Forum - Overview

- **Forum Participation:**

- NAS and non-NAS consumers

- Airlines, Industry service providers, research & development, FAA Programs, Airports
- Average 70 – 90 attendees: 1st three sessions

- **SWIM Resources:**

- SWIM website: <http://www.faa.gov/nextgen/programs/swim/>
- NSRR: <https://nsrr.faa.gov/>
- SWIM Help Desk:
 - **1-855-FAA-NEMC** (855-322-6362)
Option #3, “Enterprise Services” for phone support
 - NEO-ES@faa.gov for email support



Agenda

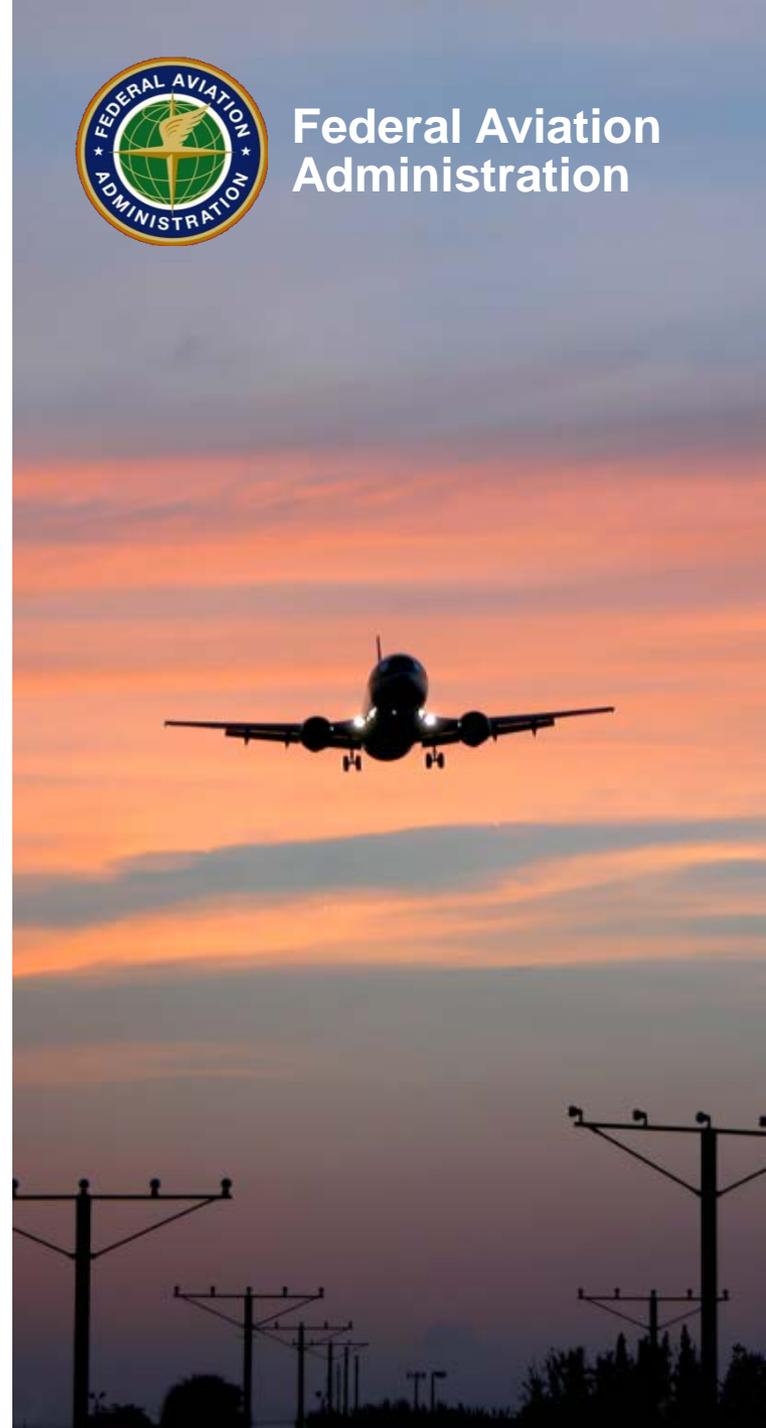
- **Solace Update**
- **TFMS: R10 to R13 Transition**
- **STDDS News**
- **Upcoming Events**
 - Conferences
 - Workshops
 - SFDPS Users Forum



Solace Update



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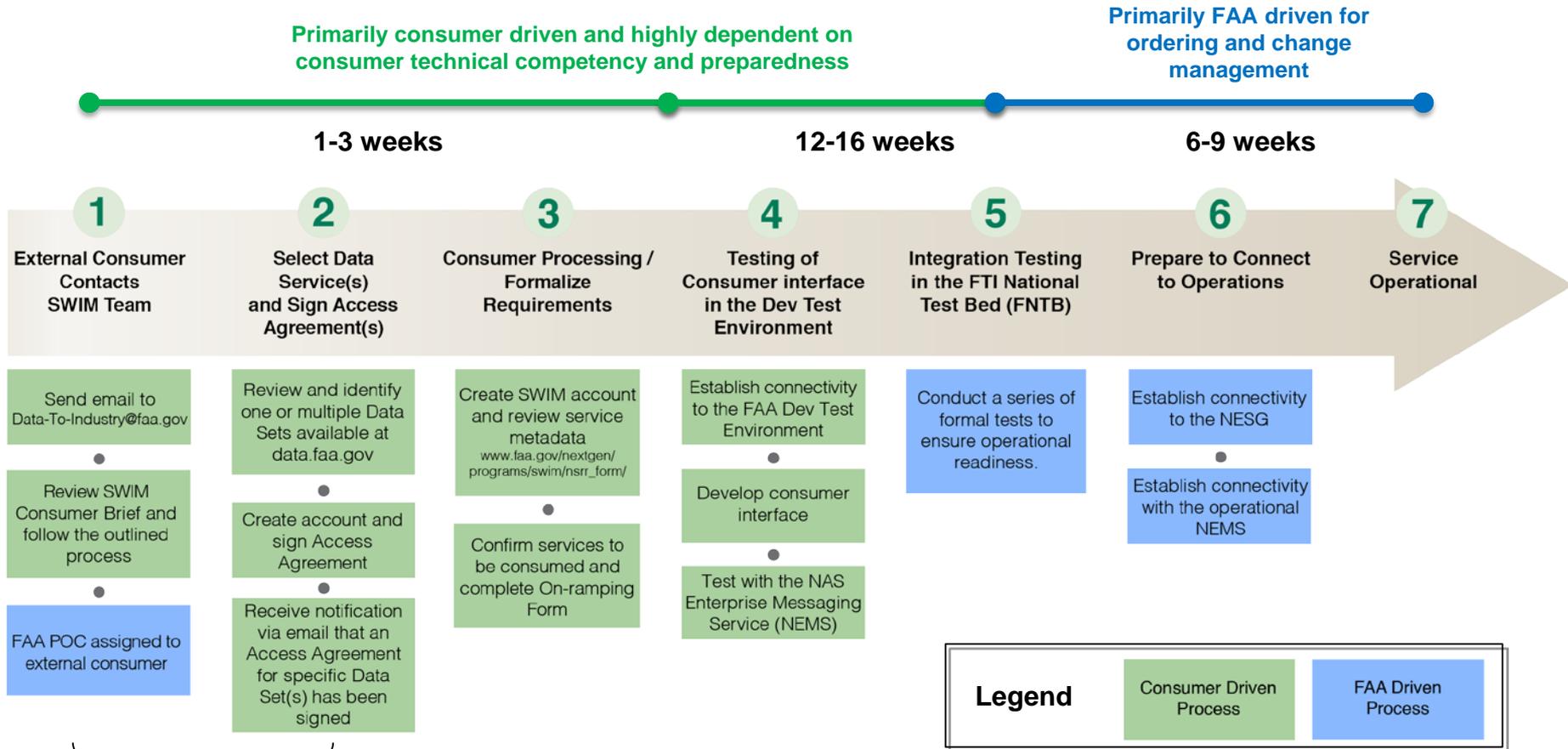


Impact of Solace to Consumers

- **New Consumers Not Yet in R&D**
 - These consumers will see little to no impact with this change since they have not yet connected and likely have not developed a client yet.
- **Existing Consumers in R&D/FNTB but not in OPS**
 - These consumers will have to update their client to use the new Solace Device before moving to Operations.
- **Existing Consumers in Operations**
 - These consumers are highly encouraged to adopt the new technology and migrate their client to Solace but at this time are not required to do so.
 - Exceptions include access to TAIS and/or SFDPS where Solace is required.
- **Existing Consumers in Operations Requesting New Services**
 - These consumers will be required to migrate their clients to Solace when adding any new service.

*****Specific special cases may be granted and will be evaluated on a case by case basis.***

Process for New External Consumers

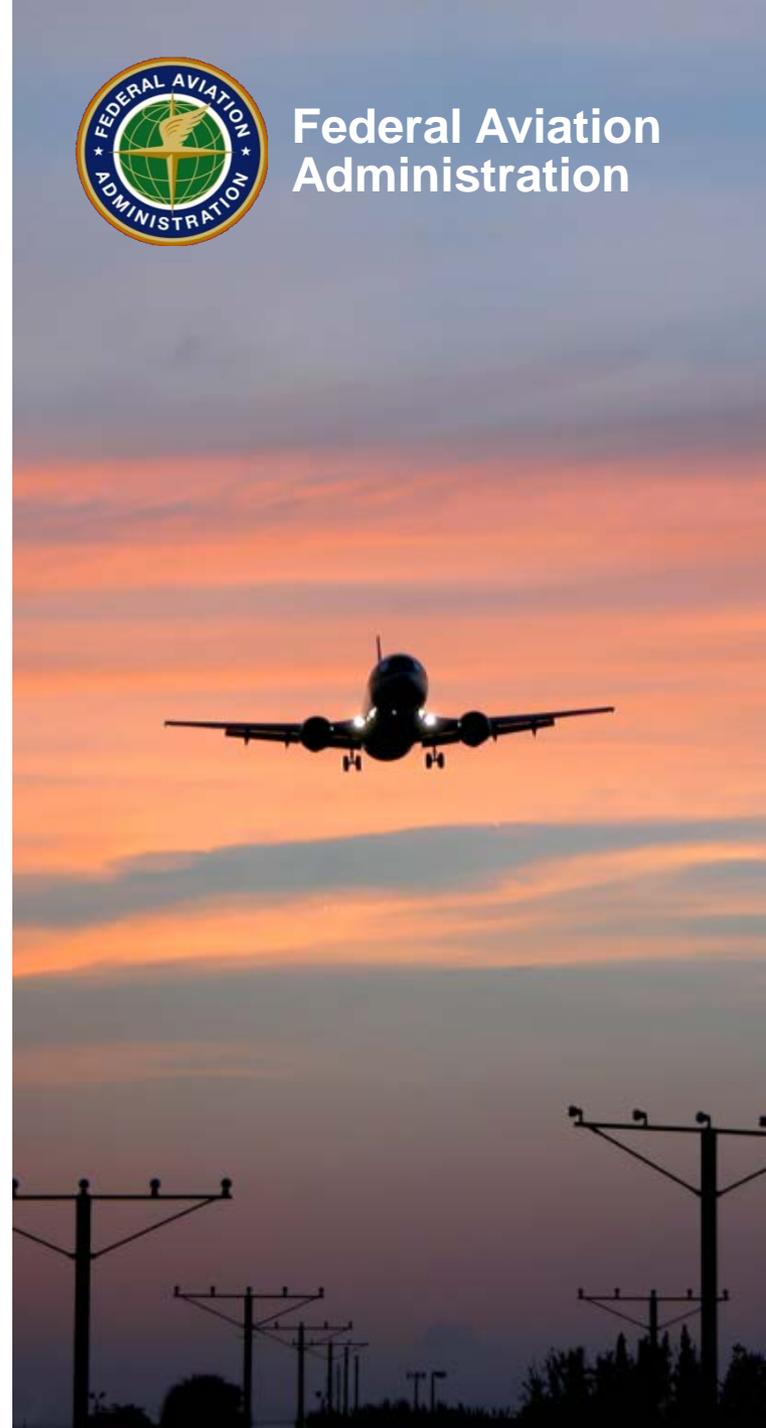


Note: Steps are not necessarily serial

R10 to R13 Transition



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ASDI Decommission Complete

- **All ASDI users have been disconnected.**
- **TFMS R10 and TFMS R13 are both available operationally and in test environments**
- **SWIM automatically transitioned all existing consumers to the mediated R10**
- **All TFMdata R10 users will need to transition to R13**
 - Timeline and cut-off date is TBD

TFMdata R13

- **Flight Data**
 - R10 Flight Data with new elements
- **Flow Information**
 - R10 Flow Information with new elements
- **Status**
 - Provides periodic status message on all TFMS SWIM consumer services and the managed status of all TFMS business functions
- **International Data**
 - Provides a mechanism for International Data Providers to provide TFMS their flight data via SWIM using a FIXM based schema. It also provides the means to communicate flight data in FIXM format that is relevant to International Data Provider (IDP) users.
 - IDP will not be available to the general public.
 - Each user of IDP will need a MOA with the FAA.
- **Request Reply**
 - TFMS Request Reply business function exposes TFMS capabilities with a request/reply mechanism.
 - Request Reply will not be available to the general public.
 - Only NAS users and CDM Participants will have access
- **Terminal Flight Data**
 - Output airline data to Terminal Flight Data Manager (TFDM) and provides the means for TFDM to send TFMS relevant data for incorporation in TFMS processing.
 - TFDM will not be available to the general public.
 - Only NAS users and CDM Participants will have access

Transition Policy

- Consumers only consuming R13 Flight, Flow and Status will use Solace to consume TFMdata
 - Current operational consumers will NOT need to re-verify in FNTB for R13 Flight, Flow or Status if using a qualified Solace client
- Users qualified to use Request/Reply or IDP will use Weblogic
 - Users qualified to use Request/Reply or IDP will verify in FNTB as JMS producers



Transition Logistics

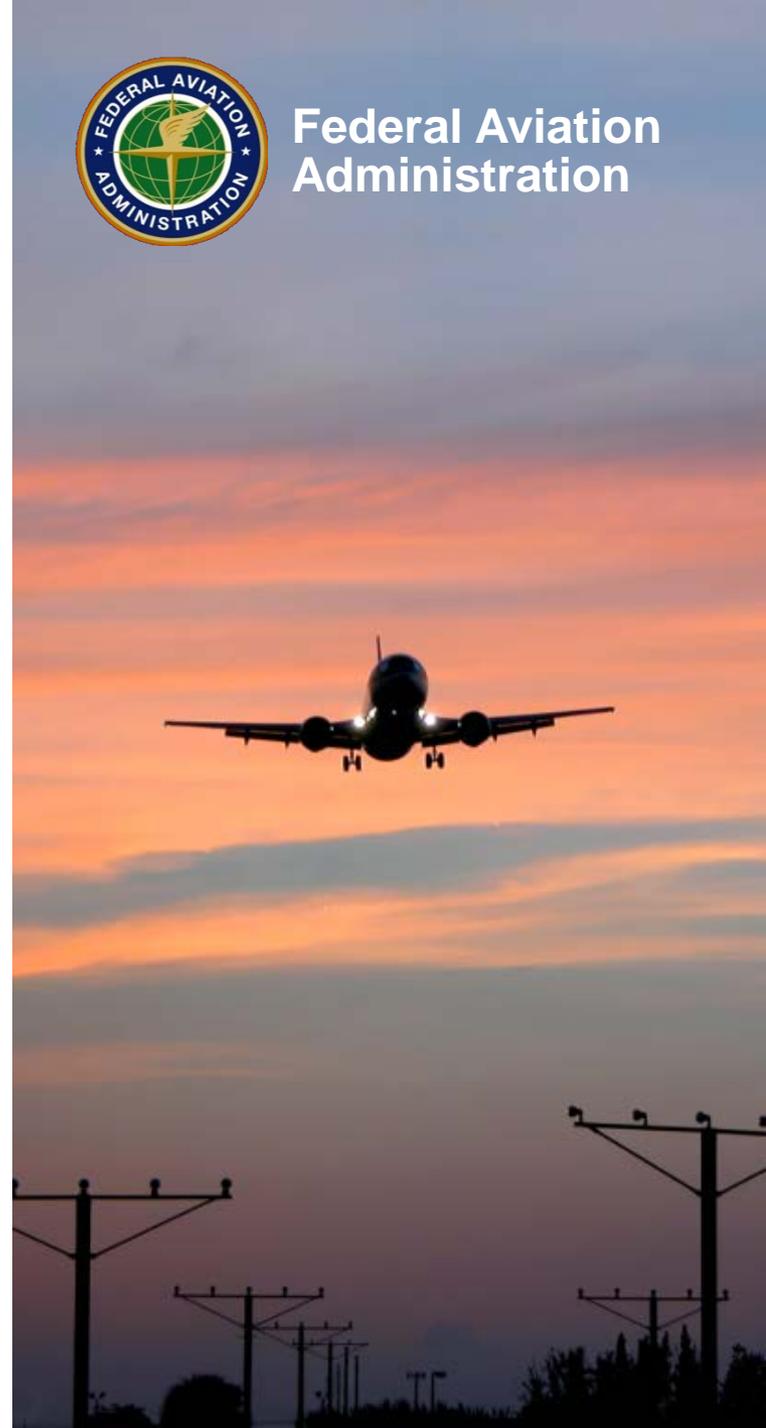
- TFMDData v2.0.5 documentation can be found on the NSRR (search for “TFMDData R13”)
- New messages in TFMS R13 are not yet on the access portal – all test users will need to sign a test portal agreement for access in FNTB/R&D
- TFMS R13 Flight, Flow, IDP Outbound and Status is available in FNTB, R&D and Ops using Solace
- TFMS Request/Reply, TFDM and IDP is available in FNTB using WebLogic



STDDS Update



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Topics

- **STARS R3.2 Deployment Schedule**

- STARS currently deployed at Y90 (Y90/ALB/ROC) and NCT (NCT/FAT)
- 102 R3.2 STARS sites to be deployed July – September 2016
- Remaining ~45 sites to be deployed in future
- See *STDDS Site Data Availability* file on NSRR for more information on deployment schedule
- ❖ STDDS R3.2 will require changes for most clients

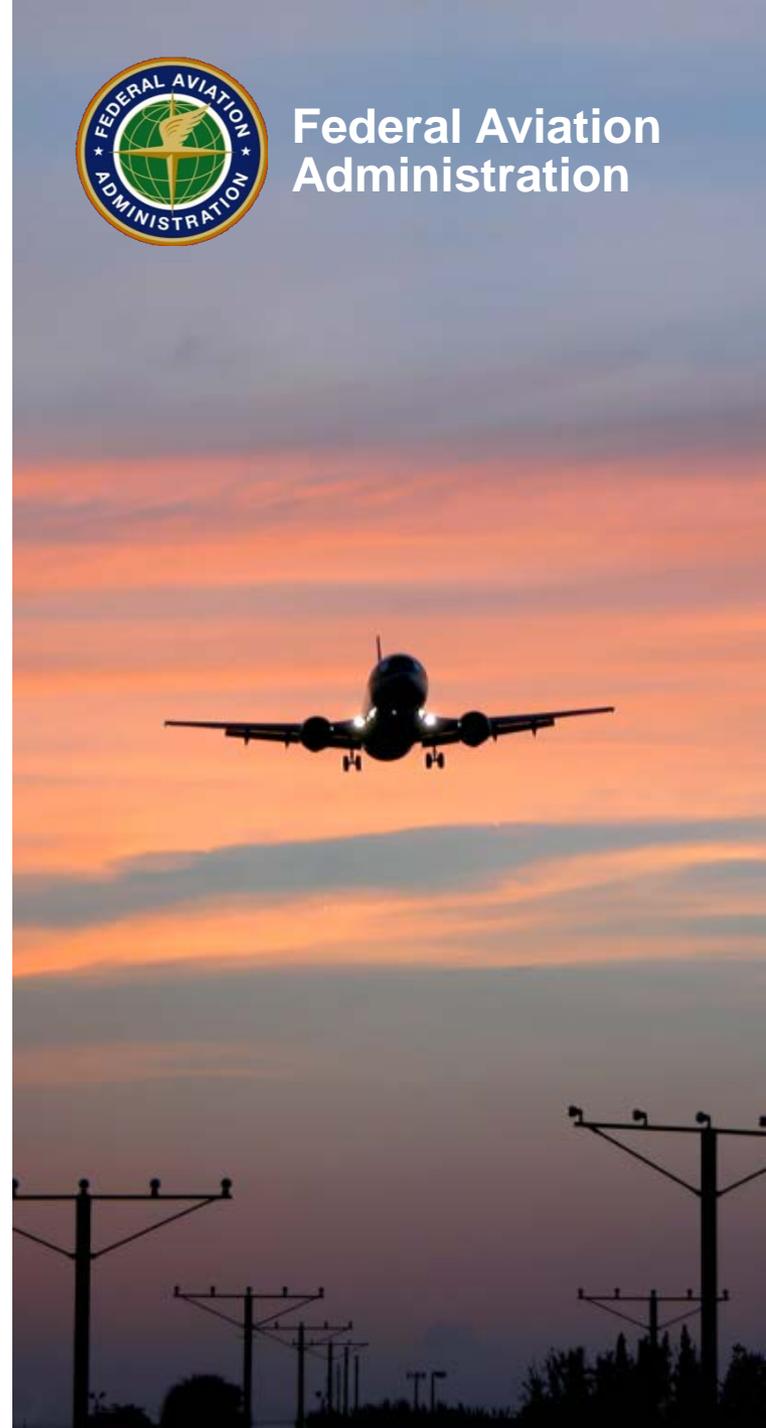
- **STDDS STARS data forwarding to R&D Network**

- NCT AIG200 messages are being forwarded to the R&D network with a 5 minute delay.
 - AIG100 and AIG502 messages will be added to the feed shortly

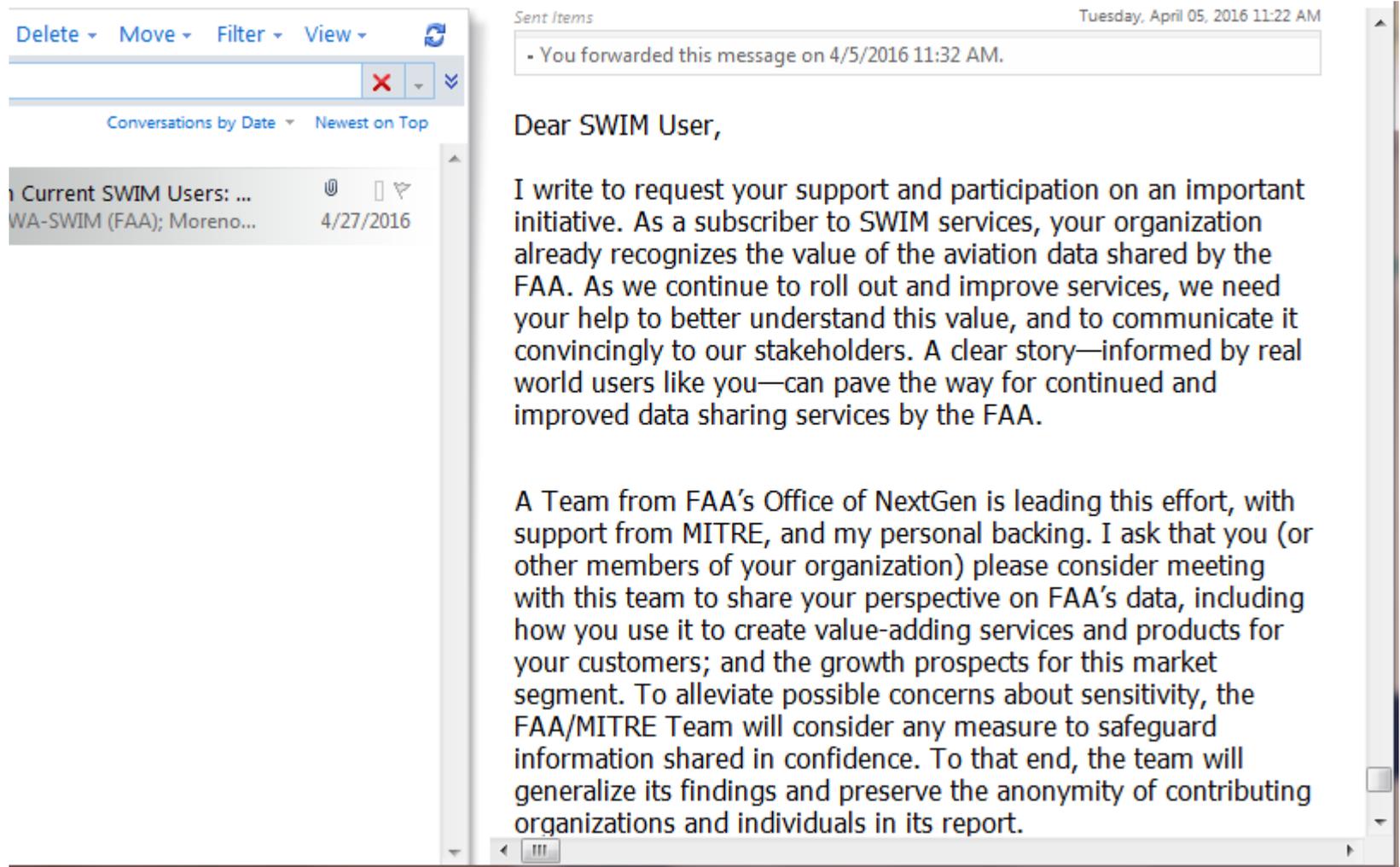
SWIM User Interviews



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Thank you to users who have participated

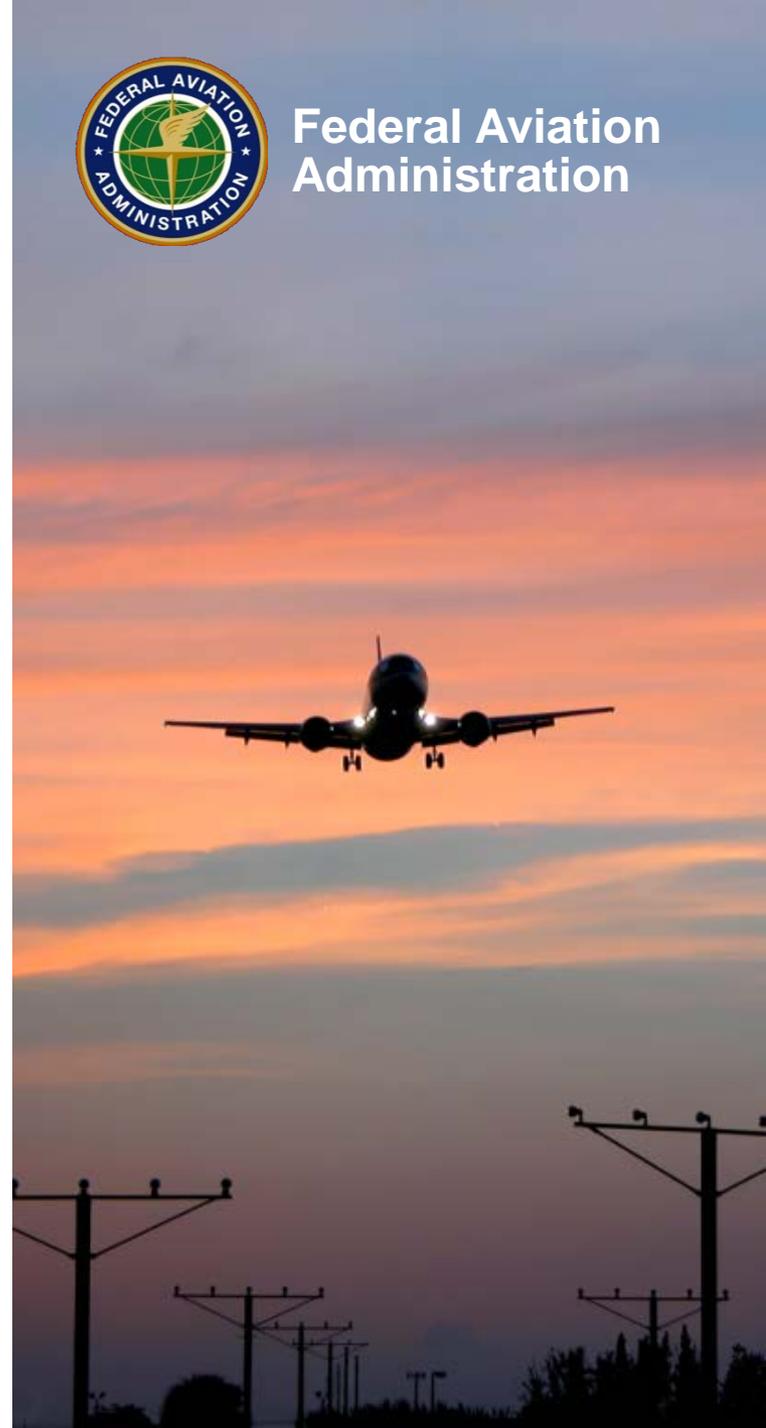


SWIM on the Road

Upcoming Events

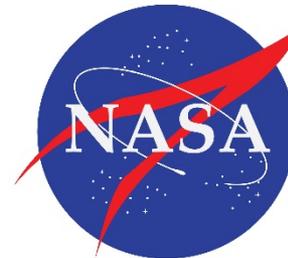


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SWIM on the Road

- SWIM Interactive Developer Workshop, June 21-23
- Technical Women's Organization Training in Dallas, TX, June 21-23
- Airline Operations Workshop, NASA Ames, August 2-4
- Annual Air Traffic Information Exchange Conference (ATIEC), September 20-22



Also Coming Up...

- **We invite you to an SFDPS User Forum Webinar on June 14, 2016, 1 – 3 PM EDT.**
- **To participate in the webinar , please register at:**
<https://attendee.gotowebinar.com/register/8029523786025203970>
- **In the webinar, we will provide information on the upcoming SFDPS release 1.3.0.**

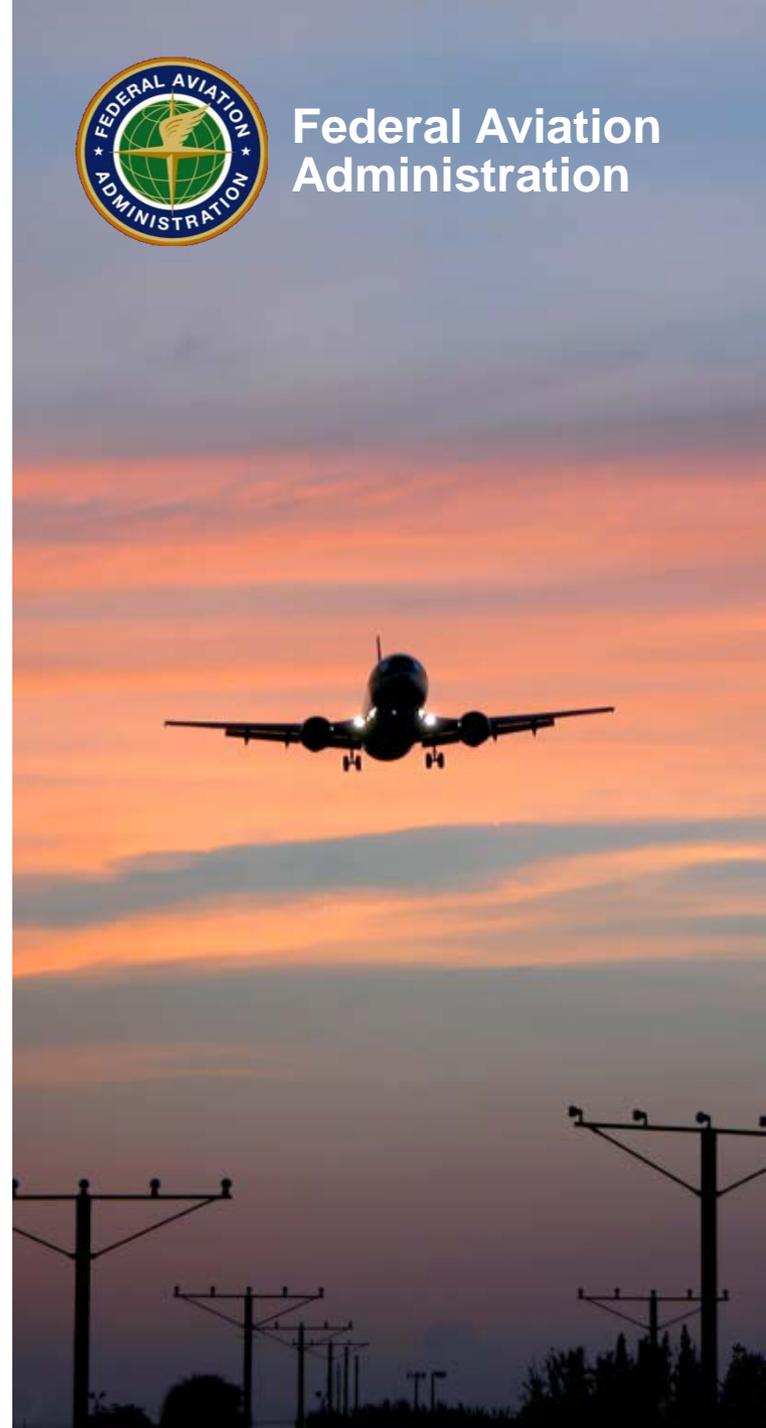
Questions



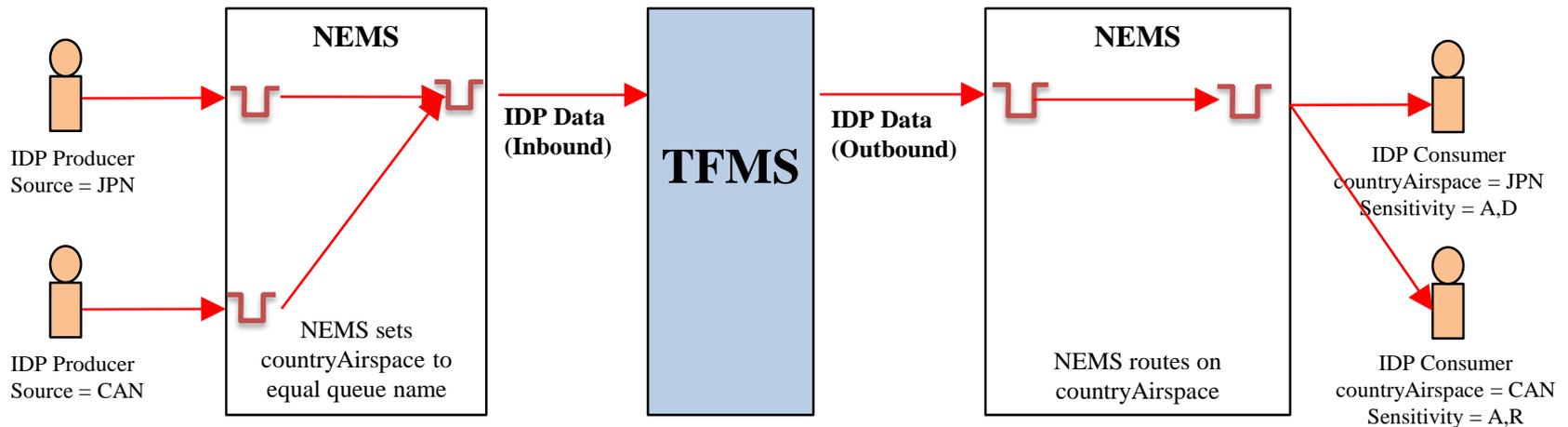
Back-up Slides



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International Data Provider (IDP)

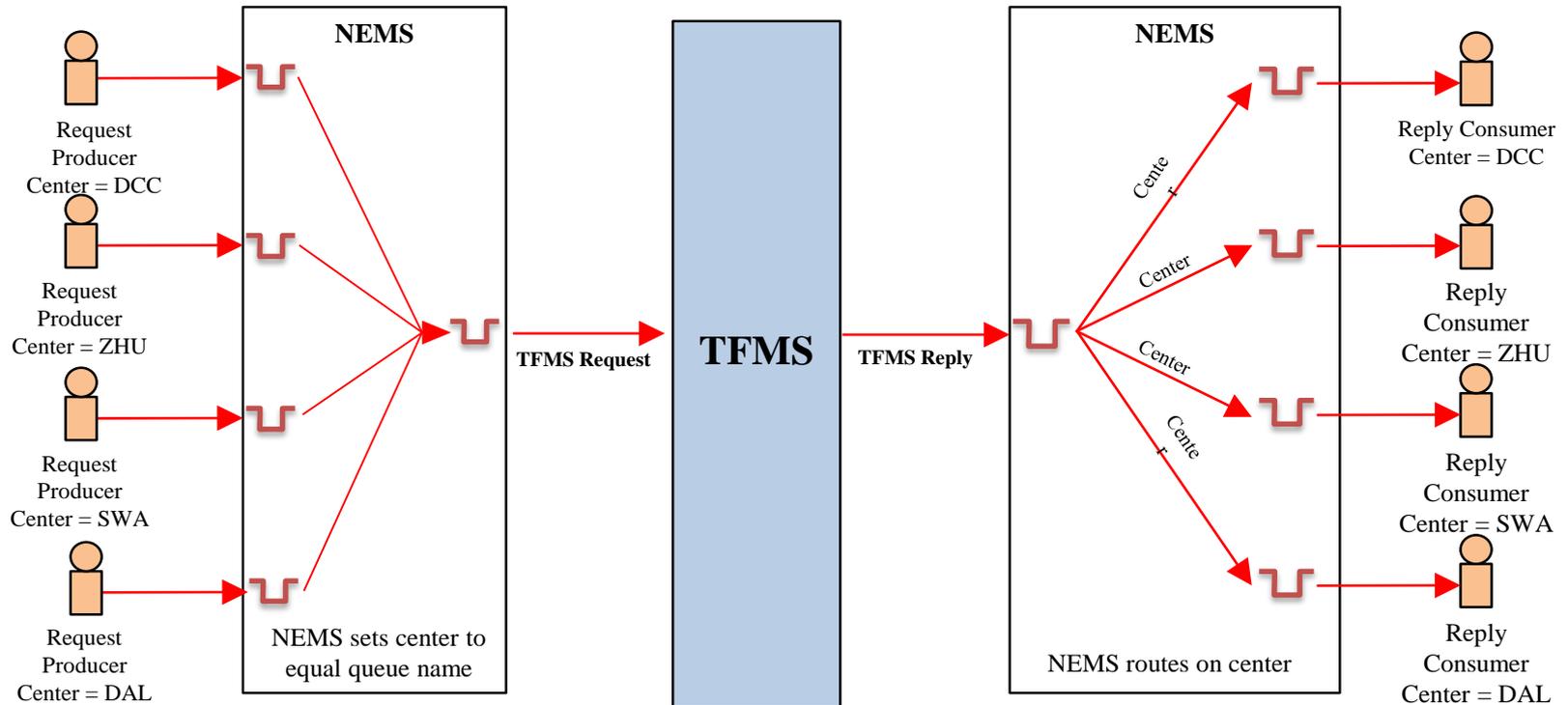


The International Flight Data Business Functions provides the means for TFMS to exchange flight information with International Data Providers (IDP).

NEMS sets value of JMS Property "countryAirspace" to match user's input queue name

NEMS authorization will be a one-time NRC placed on an external POS (SC 105/106)

TFMS Request Reply



The TFM Request/Reply Business Function exposes all of the TFMS services and makes them available to the SWIM community.

NEMS sets value of JMS Property "center" to match consumer's input queue name

"center" values are defined by TFMS supplied adaptation list

NEMS authorization will be a one-time NRC placed on an external POS (SC 105/106)

CDM Participants

Operators	Operators	Industry	Government
1. Air Canada	24. Horizon Air	A4A	Federal Aviation Administration
2. Air Routing	25. Jazz Air	Air Line Pilots Association (ALPA)	NASA Ames Research Center
3. Air Wisconsin	26. Jeppesen	ARINC, Inc.	Naval Research Laboratory
4. Alaska Airlines	27. JetBlue Airways	Aviation Management Associates, Inc.	Oak Ridge National Laboratory
5. American Airlines	28. Korean Air	Boeing	Volpe National Transportation Systems Center
6. ARINC Direct	29. Mountain Air Cargo	David R. Borneman Associates	
7. Atlantic Southeast Airlines	30. NBAA	EuroControl	
8. AvFinity, LLC	31. Netjets	Flyte Comm of Florida, Inc.	
9. Baron Aviation Services, Inc.	32. Piedmont Airlines	IATA	
10. Chautauqua Airlines	33. Porter Airlines	Lockheed Martin Corporation	
11. Compass	34. PSA Airlines	Megadata Corporation	
12. Corporate Air	35. Shuttle America	Metron Aviation, Inc.	
13. CSA Air	36. Skywest Airlines	Mitre Corporation/CAASD	Academia
14. Delta Airlines	37. Southwest Airlines	National Center for Atmospheric Research	Center of Excellence (NEXTOR)
15. Empire Airlines	38. Spirit Airlines	NAV Canada	Embry-Riddle Aeronautical University
16. Endeavor Airlines	39. United Airlines	Recom Technologies, Inc.	Kent State University
17. ExpressJet	40. Universal Weather and Aviation	Seagull Technology, Inc.	Massachusetts Institute of Technology
18. FedEx Express	41. UPS	SoHaR Incorporated	Ohio State University
19. Flexjet	42. US Airways	Sonalysts Inc.	University of Maryland
20. Flight Options	43. Virgin America	Systems Atlanta, Inc.	University of Minnesota
21. FltPlan.com	44. West Air		
22. Frontier Airlines	45. Westjet		
23. Honeywell Global Data Center			

