Origin—Destination Survey of Airline Passenger Traffic (O&D40)

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AGENDA

1. Introductions
2. Current status, plan and timeline for pilot tests, dress rehearsal, and implementation
3. Protocols for submission of data: eSubmit with additional SFTP option
4. Outreach strategy to existing and new submitters
5. Discussion

CURRENT STATUS

- Systems review and evaluation finished
- Implementation requirements documentation complete
- Fine-tuning next steps

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KEY FINDINGS

September 2023 through April 2024, OAI conducted in-depth requirements study. Recommendations include:

- A more robust processing system will be required to accept, process, analyze and release the estimated 4-5 million passenger tickets per month per carrier, while the number of reporting carriers will increase to about 100.
- New Data Quality Assurance Edits are required to be implemented for the new data fields that will be collected.
- New processing dashboards, threshold conditions and features will be required in the DA Process Tool to identify outliers in the data. The Official Airline Guide (OAG), which is used to validate routes in O&D tickets, will be received on a more frequent basis.

NEXT STEPS

Expected approach to developing and implementing the O&D40:

- Changes in Azure configuration for existing infrastructure hosting eSubmit/IQ, SFTP, network changes, and IQ resource changes.

- For data collection, expect to handle large data files using the zip/unzip process and the SFTP approach.

- For the ETL process (eProcess), transform raw data into database tables using automated business checks. Create the 40+ reports with Power BI software. The quality assurance process is ready.

- Create the new dashboards and visualizations with Tableau software to support data validation.

TIMELINE

- Summer 2024 – eSubmit / SFTP portals functional

- October 2024 – Begin pilot testing

- January 2025 – Full dress rehearsal of reporting and processing

- August 2025 – System cutover

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PILOT TESTING

- October 2024 – January 2025
  - Pilot test will include at least one large carrier and at least one new carrier that has never previously reported O&D10 or T-100
  - Testing will be used to debug eSubmit, SFTP, and eProcess

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PILOT TESTING

- October 2024
  - Stress test of *Beta* O&D40 data processing system
  - Assure that inputs equal outputs
  - Assure that validation checks are working properly

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DRESS REHEARSAL

- January 2025

  - All carriers encouraged to submit O&D40 data to ensure understanding of data reporting requirements

  - Remaining data submission and processing issues for all reporting carriers are identified and resolved

SYSTEM CUTOVER

- O&D10 data end with 2Q CY 2025 (April-June)
  - Last O&D10 report due August 15
- O&D40 data will begin with July 2025
  - All carriers begin monthly reporting with July data by September 25
  - eSubmit and SFTP portals will be open to accept July data in early August

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THREE IMPLEMENTATION WORK STREAMS

- Maintain current O&D10 system

- Modify legacy O&D10 data processing system to accommodate new variables / more frequent reporting

- Test available cloud technologies to replace or enhance legacy systems

O&D40 INDUSTRY MEETING

DISCUSSION / QUESTIONS:

- Volunteers for October pilot test?

- Training strategies?

- Other questions?

Thank you

O&D40 INDUSTRY MEETING

Post-meeting Follow up:

- *Federal Register* notice: "Updates to the Origin-Destination Survey of Airline Passengers" A Rule by the Transportation Department on 01/31/2023

  https://www.federalregister.gov/documents/2023/01/31/2022-28535/updates-to-the-origin-destination-survey-of-airline-passengers

- The DOT/BTS O&D40 mailbox is active and being monitored:
  oai.od40.support@dot.gov

Thank you

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