

# TSA Identity Management: CAT-2 Overview

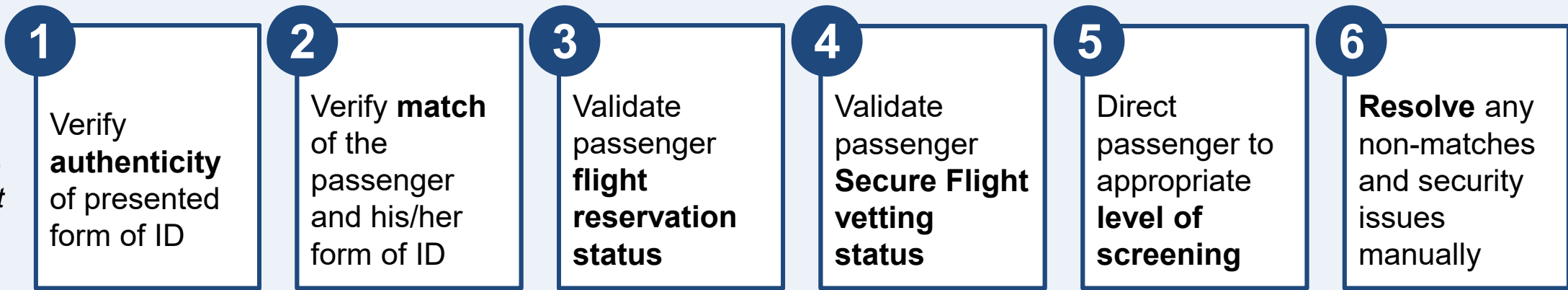
Jason Lim | [TSAIDM@tsa.dhs.gov](mailto:TSAIDM@tsa.dhs.gov)  
November 17, 2020



# TSA Checkpoint of the Future

TSA is exploring the use of biometric technology to **automate identity verification at airport checkpoints** and modernize the screening experience for travelers.

*Prior to physical screening, TSA must perform the following steps at the TDC:*



TSA's efforts to automate the identity verification process for travelers through biometric technology support the agency's focus on **reducing points of contact for travelers and paving the way for a more seamless travel experience.**



# Self-Service CAT-C (CAT-2) Overview & Benefits

TSA is leveraging Credential Authentication Technology (CAT) machines for automated identity verification. In light of COVID-19, TSA updated the CAT technology to add a **self-service component, promoting social distancing during document screening.**

## CAT (Current State Technology)

Verifies a passenger's physical ID is authentic

Confirms passenger's flight reservation and Secure Flight status



Source: TSA

Scans passenger IDs tendered by Transportation Security Officers (TSOs)

## CAT-2 (Future State Technology)

Reduces unnecessary contact between TSOs and passengers

Confirms passenger's flight reservation and Secure Flight status



Source: TSA

- Verifies the passenger's identity by comparing their biometric facial image (via camera capture) against the image on their ID
- Allows passengers to scan their own IDs as a touchless feature
- Instructs the passenger using an updated user interface



# CAT-2 Passenger-Facing Graphical User Interface (GUI)

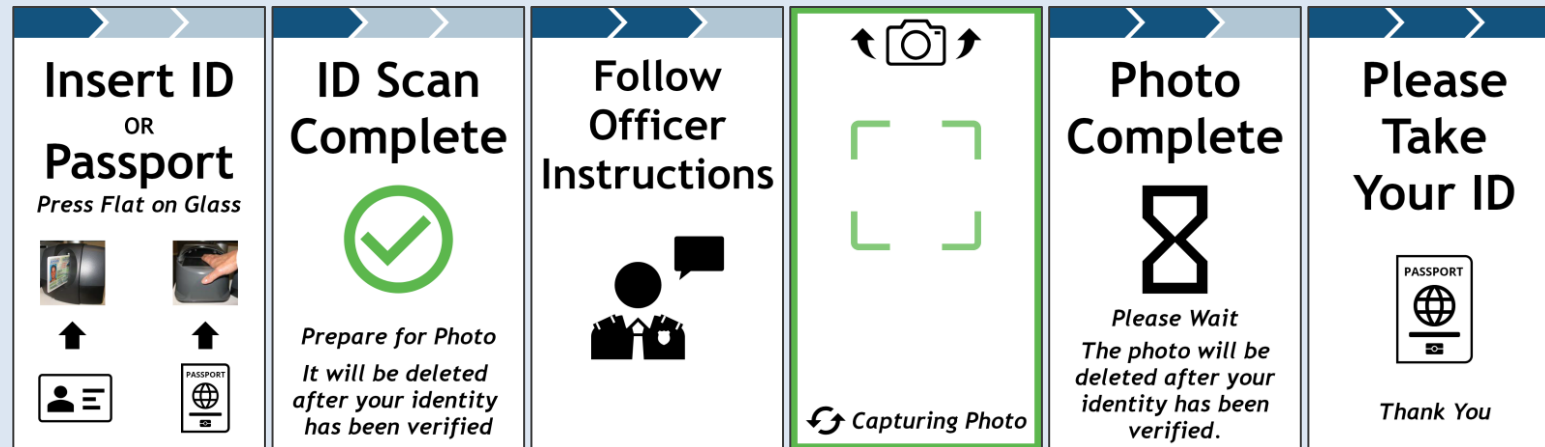
The CAT-2 system enhances the passenger and TSO experience based on an **improved interface design** that provides feedback at all stages of the identity verification process.



Source: TSA

## Previous CAT-C GUI

Originally not self-service, feedback needed to be incorporated in GUI design updates for passenger to understand what to do



Source: TSA

## Updated CAT-2 GUI with Improved Feedback

The passenger is more informed of what to do, where they are in the process, and is provided feedback on success or failure of document scans and photo captures



# Path Forward

The below summarizes **TSA's next steps** as it continues its evaluation and development of CAT-2 facial matching capabilities.



Conduct formal field tests at multiple airport locations to evaluate the system performance



Evaluate how CAT-2 performs in an operational environment to refine necessary modifications



Synthesize feedback & observations to feed into future training and documentation guidelines

## Questions or comments?

Please email the TSA IDM inbox at [TSAIDM@tsa.dhs.gov](mailto:TSAIDM@tsa.dhs.gov).

