



Homeland
Security

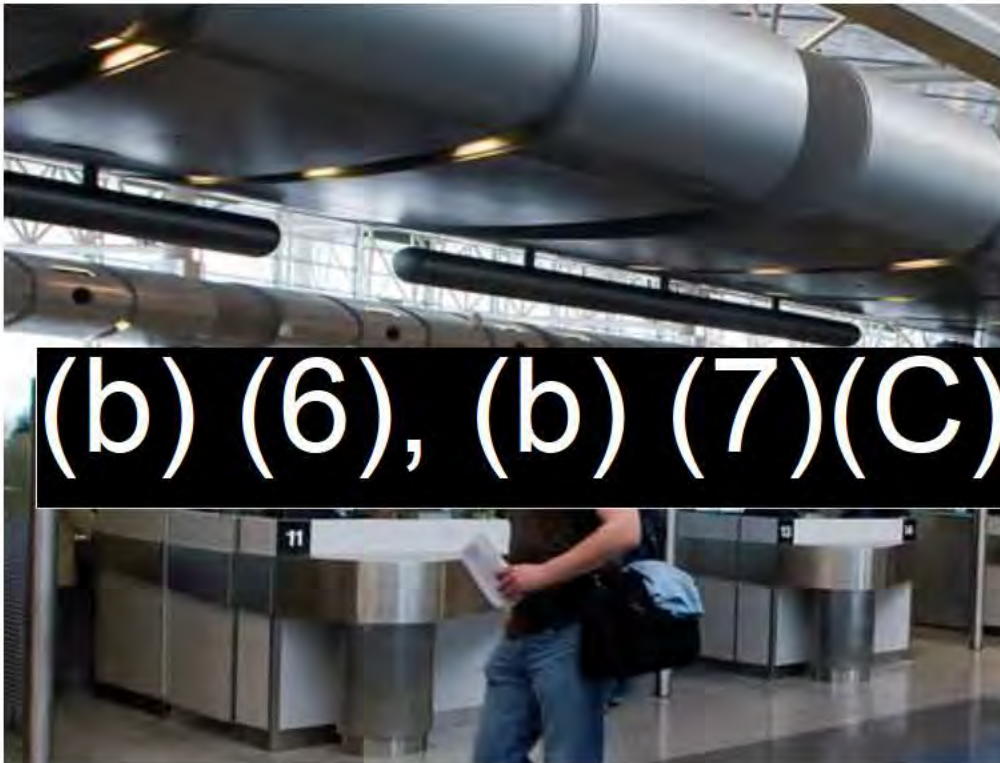
(b) (4)



Traveler Verification Service & Biometric Exit Mobile Air

| July 2017

Biometric Exit Introduction

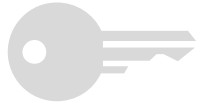


- History Biometric Entry/Exit
- Transfer of Biometric Exit Mission
- Targeted Biometric Experiments
- Traveler Verification Service (TVS)
- Biometric Exit Mobile Air App (BEMA)



Comprehensive Biometric Exit Mission

| Key Parameters and Considerations



For a solution to be both feasible and realistic:

1 *Do not add another process*

Avoid adding any new processes

2 *Existing Infrastructure*

Utilize existing airport and airline infrastructure

3 *Existing Business Models*

Leverage existing stakeholder systems, processes, and business models

4 *Current Passenger Behavior*

Leverage passenger behaviors and expectations that do not require new or unexpected steps for travelers

5 *Existing Data & IT Infrastructure*

Use existing traveler data and existing government IT infrastructure

| TVS & BEMA: How do they fit together?



- Fulfill the mission requirement of Biometric Exit using two tools: **TVS** and **BEMA**.
 - **TVS** automates facial recognition of travelers on exit.
 - Uses APIS manifest data and existing photos to match live photos of travelers boarding.
 - **BEMA** for exception processing.
 - BEMA is a (b) (7)(E) program that receives (b)(7)(E) Officers can use BEMA to take fingerprints, swipe and query travel documents and (b) (7)(E)
- Used together, TVS and BEMA provide the foundation for robust biometric exit capabilities.

| TVS Overview

What is TVS?

TVS biometrically confirms traveler departure by using facial recognition.

(b) (7)(C), (b) (6)

Last Name, First Name

00/00/1900

P 123456 (MEX)

Boarded

(b) (6), (b) (7)(C)

TVS uses traveler photos already available to CBP. APIS data is used to create a gallery of photos on travelers on a particular flight. The photos come from government holdings, such as U.S. passport and visa photos, photos in (b) (7)(E) etc. The live photo captured by TVS during the boarding process is then matched against the gallery to biometrically confirm identity/departure on exit.



TVS Overview

- (b) (7)(E) before scheduled departure UPAX pulls the APIS information and Creates Gallery of photos from DHS holdings
- The Gallery will refresh every minute up to departure time, when updates are made to APIS.



The screenshot displays the U.S. Customs and Border Protection (CBP) TVS interface. At the top, it shows the CBP logo and the text "U.S. Customs and Border Protection". Below this, there is a "Flight" section with a "Passengers Processed" counter (304 / 333), "Flight" information (ATL to MIA), "Today" date (03/12/14), and "Time" (12:30 PM). The main section is a table with columns: MATCH, PASSANGER NAME, DOB, DOCUMENT, and STATUS. The table lists six passengers with their photos, names, dates of birth, document numbers, and boarding status.

MATCH	PASSANGER NAME	DOB	DOCUMENT	STATUS
+8	Smith, James	01/08/1992	P TR3456201 JP	Boarded
+5	Sally, Jane	09/12/1980	P TR1010201 JP	Boarded
+2	Mark, Robert	04/05/1959	P 534564981 US	Boarded
+1	Tanaka, Yuri	03/27/1979	P 568049423 US	No Match
+3	Arntson, Keenan Lanae	09/02/1991	P TR2935948 JP	Boarded
+4	Matsuyama, Asuka	06/15/1983	P 759403592 US	Boarded



| TVS Step 1: Setup Camera

(b) (7)(E)

Turn on camera



Screen will
appear



Enter pin
(b) (7)(E)



Populate Required Fields

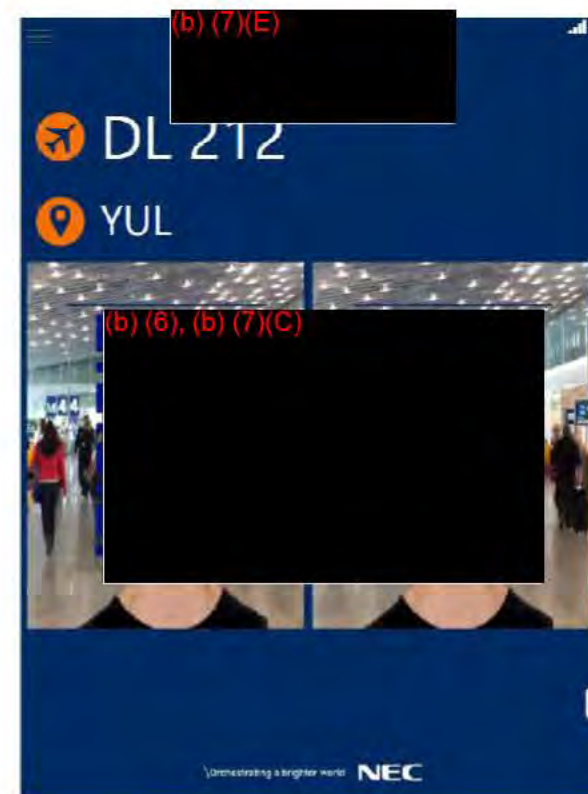
(b) (7)(E)



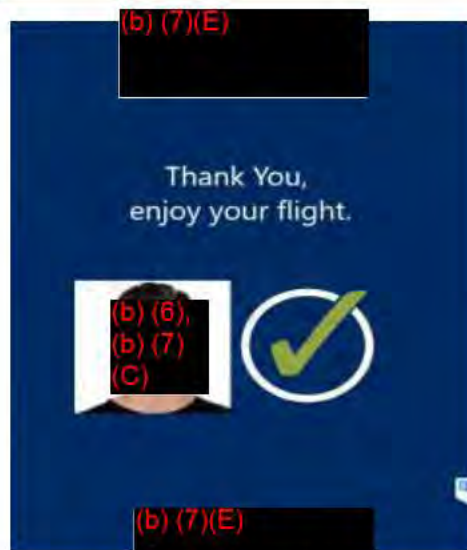
TVS Step 2: Process Flight



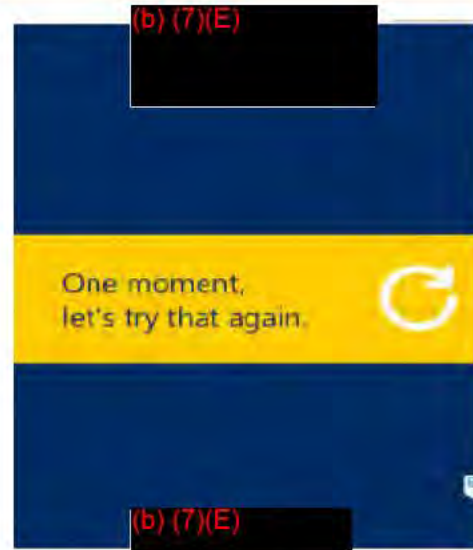
- Instruct the traveler to stand 22-26 inches away from the screen.
- If the traveler does not initiate facial capture, advise the traveler to move closer to the camera.



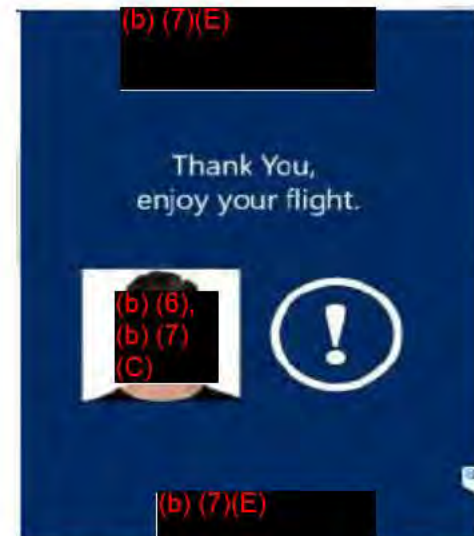
| TVS Responses



• (b) (7)(E)



• (b) (7)(E)

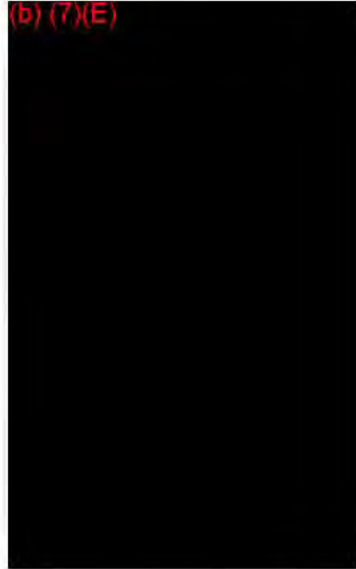


• (b) (7)(E)

BEMA Overview

- BEMA is an enhanced handheld mobile device that allows CBPOs to collect and query biographic and biometric traveler data.

(b) (7)(E)



• (b) (7)(E)

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(b) (7)(E)



BEMA Referral

(b) (7)(E)

(b) (7)(E)



BEMA Selecting Referral

(b) (7)(E)

- Once you select a mismatch, (b) (7)(E) (b) (7)(E) the BEMA user will begin the adjudication process for that specific referral.

(b) (7)(E)



| BEMA – Swipe Travel Document

(b) (7)(E)

- After selecting the (b) (7)(E) the BEMA user can begin processing the mismatch using normal BEMA techniques.
- At this point, you should only process the referred/mismatched traveler.

• (b) (7)(E)

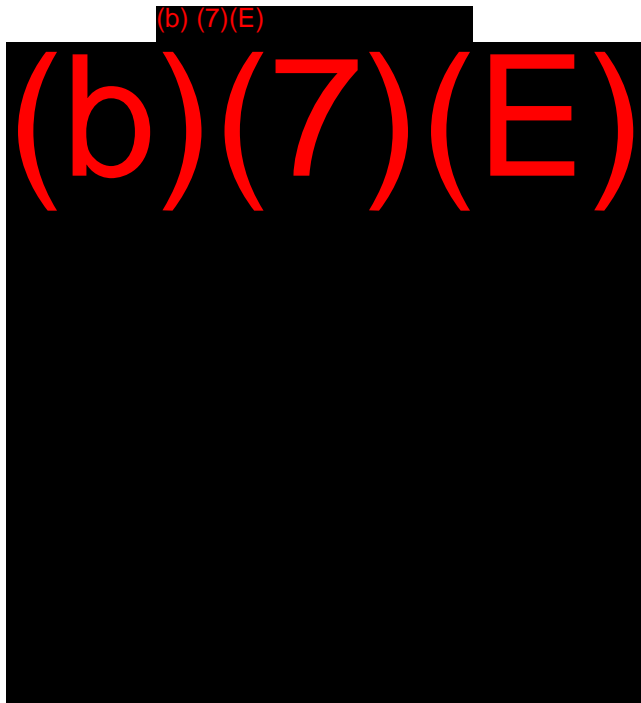
| BEMA – Primary Screen

(b)(7)(E)

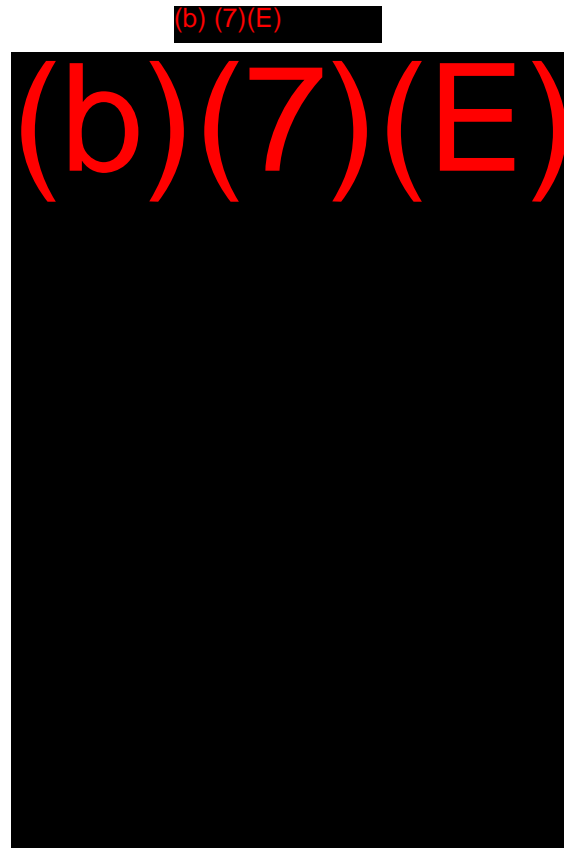


| BEMA – Biometric Collection

Biometrics Capture Screen



Fingerprint Capture



Homepage



| BEMA —

(b) (7)(E)

(b)(7)(E)

(b)(7)(E)

| BEMA —

(b) (7)(E)

(b) (7)(E)

(b) (7)(E)

(b) (7)(E)

• (b) (7)(E)

(b) (7)(E)

• (b) (7)(E)

| BEMA —

(b) (7)(E)

(b) (7)(E)

(b) (7)(E)

- (b) (7)(E)

(b) (7)(E)

| Policy

TVS allows the CBPO operating the device to determine the appropriate response to those travelers that do not match.

- All In-Scope passengers identities, including those of USCs, must be verified.
 - In-Scope is the same as the In-Scope age range for (b) (7)(E) Age 14 – 79
 - If A traveler Refuses or is unable to participate
 - Confirm using the (b) (7)(E)
 - Confirm using BEMA (NON- USC)
 - Out of Scope Travelers may be excused from TVS
- If the identity of a traveler cannot be verified by TVS, the CBP Officer will use appropriate alternative methods, such as BEMA or a manual review of documents, to verify that traveler's identity
- Once the traveler's identity is verified and there are no enforcement concerns, the CBP Officer may allow the traveler to board the flight

| Exception Processing

For U.S. Citizen Travelers

- Absent any **Law Enforcement** concerns (b) (7)(E), a (b) (7)(E) review of the U.S. Passport can suffice for verification.
- If a U.S. Citizen Refuses to participate, Allow the traveler to bypass the TVS camera and verify the travelers identity manually.
- Allow the traveler to board.

Diplomats

- If a traveler identifies themselves as a diplomat, review their travel documents to confirm identity and validity, then allow the traveler to board.



| Exception Processing (Continued)

For Non- U.S. Citizen Travelers

- Review the traveler's passport for entry stamps
- Review the travelers US documents (VISA, I-551 Refugee Travel Document, etc.)
- |Swipe passport using the BEMA device

(b) (7)(E)

- Ensure biographic information (Name, DOB, etc.) (b) (7)(E)
- (b) (7)(E)

(b) (7)(E)

- Process the traveler through the BEMA device

If the traveler Entered Without Inspection (EWI)

- (b) (7)(E)

|



| TVS Closeout

Closing out a TVS (b) (7)(E)

(b) (7)(E)



| Points of Contact

Supervisory Program Manager

(b) (6), (b) (7)(C)

Biometric Air Exit Director

(b) (6), (b) (7)(C)

BE-Mobile Mailbox

(b) (7)(E)

TVS Support Email

(b) (7)(E)

Enterprise Operations Center (EOC):

(b) (7)(E)





Questions?