

Executive Brief Increment 2C Proof of Concept January 4, 2005



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Overall 2C Goal & Objectives

The goal of Increment 2C is to enhance the initial operating capabilities as implemented through Increment 2B at land ports of entry through the issuance of a unique automatic identifier that is capable of being read automatically, passively, and remotely during subsequent exit and reentry by US-VISIT enrolled travelers.

Increment 2C must meet the following objectives:

Support the statutory mandates to implement an integrated, automated entry/exit system that records the arrival and departure of aliens; verifies aliens' identities; and authenticates aliens' travel documents through comparison of biometric identifiers.

Improve the current ability to monitor overstays through enhancing exit and re-entry capability

Provide a solution that does not impede the free flow of legitimate travelers and commerce

Add value to the border management process





Why is 2C Different from Previous Releases?

Need to Quantify the Unknown

Working Environment

Multiple modes of transportation

Weather is a key influencing factor

Vehicle based primary query system

No advance information about travelers at land ports

Technical Infrastructure

Integration of multiple technologies (hardware integration vs. software integration)

Requirement to read RFID in vehicle at speed on exit

Build integration from vehicle to person

Adds more functionality but any solution must remain within the current primary inspection wait time

Competing Human Capital resources

8 concurrent active increments

Traveler Participation

Traveler independently responsible for ensuring read and record of A-ID vs. traveler receiving direction from an officer. All actions must ensure the safety of all travelers.

Facilities Infrastructure

Aggressive timeline on design and construction requirements are being based only on today's information Assumes that the current facility infrastructure can accommodate RF equipment

No exit infrastructure exists

The higher potential than other Increments for environmental impacts requires more detailed analysis and directly affects the implementation schedule

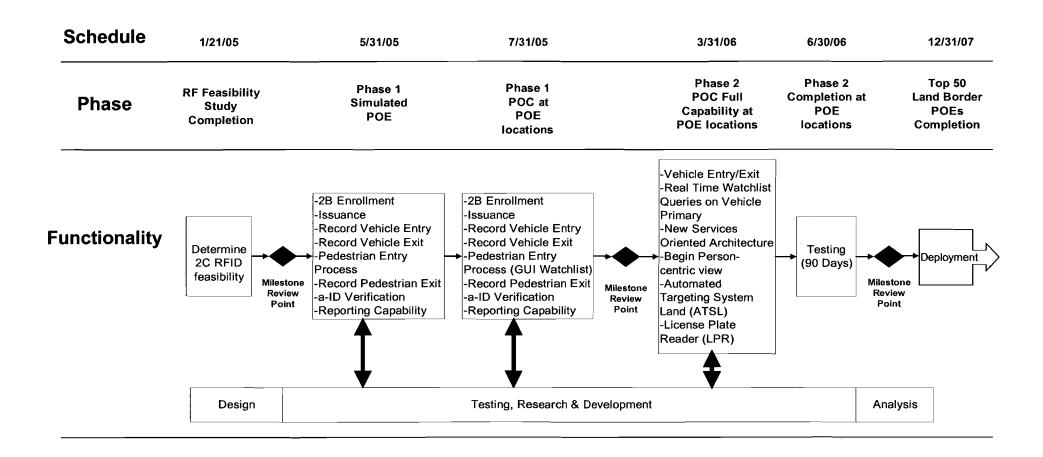
Political Environment

Border communities fear of impeding border movement and progress





Increment 2C Implementation Approach







RF Feasibility Study

Completed: January 21, 2005

Objectives

Perform feasibility of RFID solution for Increment 2C

Investigate RFID vendor enhancements

Validate technological capability for vehicle exit "at speed"

Meet business requirements

Select RFID vendor for the technology for the Increment 2C Proof of Concept

Provide direction for Increment 2C technical requirements concerning RF technology (e.g. configuration, connectivity, security, etc.)

Dependencies on Results

Acquisition of RF equipment

Vendor selection as well as quantity of RF equipment

Environmental Compliance

Potential environmental impact of RF technology, business process, and construction (power, frequencies, socioeconomics, historic structures etc.)

Facilities Impact

Recommended configuration options of RF equipment (location of antennas, readers, gantry, poles, cabling, etc.)

Permitting requirements

Mission Based Impact

Input into desired level of visitor involvement, e.g. cards to be held up, sleeves provided for visitors to hang on window, no activity required, etc.

Provide data to determine which form factor to use, e.g. new RF-enabled card or RF-enabled I-94





Mock Port of Entry

Timeframe: November 2004 – May 2005

Testing Environment

Intended to replicate physical, operational and technical requirements

Existing test lane designed to test a variety of RFID products to determine optimal configuration

Eventually need to simulate integration as well as provide operational input

License Plate Readers with RFID

Primary Display

Watch List Query

Test numerous alternatives and future technologies without impact to live operations

Key Decisions Required by the Design Phase in January 2005

Department-wide solution for ongoing research and development as technology evolves

Pursue options

Procure new site locally (not viable for 5/31)

Explore other agency test labs (this option will not replicate physical environment)

Use FLETC

Must determine impact to ongoing training efforts at Glynco facility

Take down Raytheon test lane

Need to determine appropriate time to switch to new mock POE





Phase 1 Proof of Concept (POC)

Starts:

July 31, 2005

Increment 2C encompasses 4 major business processes. The Proof of Concept (POC) provides two critical 2C business functionalities within each process:

A-ID Issuance and Verification (in Secondary)

Builds on 2B enrollment process to issue RFID to traveler Supports periodic A-ID verification and reporting capabilities

Pedestrian Primary

Records A-ID upon pedestrian entry and performs automated watchlist check against existing systems

Provides Officer with a real time display of the traveler name, photograph, real time biographic watchlist result, biometric watchlist status and A-ID status (e.g. lost or stolen)

Vehicle Primary

Records A-ID upon vehicle entry and provides automated entry record

Pedestrian and Vehicle Exit

Records A-ID upon pedestrian and vehicle exit and provides automated exit record

POC rolls out to 5 locations





Phase 2 POC Full Capability

Starts:

March 31, 2006

Phase 2 encompasses the desired end state functionality for 2C and fully integrates A-ID with current land border technology, linking traveler data to vehicle entry/exit data

Vehicle Primary

Provides full integration with License Plate Readers (LPR) and ATS/Land

Records A-ID upon vehicle entry and performs automated watchlist checks against existing systems

Provides Officer with a real time display of the traveler name, photograph, real time biographic watchlist result, biometric watchlist status and A-ID status as well as LPR watchlist results

Pedestrian and Vehicle Exit

Records A-ID upon pedestrian or vehicle exit and performs automated watchlist checks against existing systems

When outbound display is activated (e.g., when outbound enforcement operations are to be conducted):

Displays traveler name, photograph, real time biographic watchlist result, biometric watchlist status, and A-ID status

Technical design migration towards new Services Oriented Architecture (SOA)

The SOA will produce a standard method for applications within DHS to request, access, and process information.

Phase 2 rolls out to same 5 locations as Phase 1





Top 50 Land Border POEs

Completion: December 31, 2007

Full deployment to the Top 50 Land Ports of Entry requires an integrated, staggered approach to implement the 2C solution.

The following capabilities are planned for implementation at the Top 50 Land POEs by December 31, 2007:

Integration of A-ID captures with land border technology
Linkage of A-ID traveler data to vehicle entry/exit
A-ID verification and issuance (at Secondary)
Read and record entry and exit of A-IDs
Performance of watchlist queries based on an A-ID read and results
Display traveler biographic information, photo and watchlist results based on A-ID read





Recommended POC Locations *

Location	State	Vetitcie Lanes in	Vehicle Lanes Out	Pedestrian Entry	CY03 Inbound Traffic data	1-94s (FY03)	I-94s Issued under Increment 2B
Pacific Highway	WA	6	3	0	1,050,850	51,058	4,411
Peace Arch	WA	7	3	0	1,363,918	55,077	3,712
Alexandria Bay	NY	6	3	0	653,398	16,692	983
Nogales East	AZ	6	2	6	2,432,484	125,604	16,100
Mariposa – Nogales West	AZ	4	2	1	1,378,182	92,014	14,008



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POC Selection Criteria

<u>Criterion 1:</u> Eliminate ports where less than 10,000 Form I-94s are processed annually.

<u>Criterion 2:</u> Eliminate ports currently under construction or those that will be under construction in July 2005.

<u>Criterion 3:</u> Select ports to provide various weather conditions, mix of all modes of transportation, and represent northern and southern border conditions.

<u>Criterion 4:</u> Avoid California ports because of the inherently complex regulatory environment.

<u>Criterion 5:</u> Avoid ports that have posted exit speeds above 40 mph.

<u>Criterion 6</u>: Increase the number of locations for testing by using all ports within close proximity.





Critical Constraints

Phase 2 POC Full Capability dependent upon outcomes of milestone reviews, key stakeholder approval

NEPA Schedule is highly accelerated

3 months vs. typical 6 months for documentation

Assumes 1 month public comment period

Final design, procurement and construction of POC cannot begin until NEPA is completed

Permitting and bid/procurement processes are concurrent

Construction assumes 24x7 schedule and is highly accelerated

Outreach

Cost, program schedule impacts and contract modifications

DHS Data Center decisions

Human capital constraints







Homeland Security