

# Tool Delivery Review

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## ExpressLane Version 3.1.1

EDG Developers: [REDACTED]

IV&V Point of Contact: [REDACTED]

OTS/i2c Point of Contact: [REDACTED]

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# Agenda

## Subject

## Briefer

- Requirements ➤ [REDACTED] (Developer)
- Concept of Operations
- Capabilities and Limitations
- IV&V Overview ➤ [REDACTED] (IV&V Lead)
- IV&V Findings
- Product Support ➤ [REDACTED] (Developer)
  - Training
  - Documentation
- Certification
  - Discussion and Decision
  - Recap of Assigned Actions

# Requirements

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## □ General

- Requirement # 2009-1655
- Enhance ExpressLane v3.0 to include a Windows installation splash screen
- Provide a tool to select the duration of the installation application
- File collection to begin during the execution of the installation program without having to reinsert the USB drive
- This delivery closes the requirement
- Version 3.1.1 supersedes older versions of ExpressLane

# Concept of Operations

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- ExpressLane is installed as part of a normal upgrade performed by an OTS officer on Liaison systems
- OTS officer inserts a watermarked USB drive containing a covert partition
- The biometric system upgrade program is launched
  - IExpress is used to package the install program, ExpressLane service, and biometric system files
  - The duration of the install program is pre-configured by the OTS officer
- The upgrade program installs the ExpressLane service if not already on the system
- The upgrade program initiates a collection where files are surreptitiously copied to a hidden partition on the USB drive
- The watermarked USB drive contains a kill date to disable the software provided to Liaison (as in ExpressLane v3.0)

# Capabilities and Limits

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- A Biometric system upgrade program included in ExpressLane v3.1.1
  - User configurable installation time
  - Upgrade program drops the ExpressLane service and initiates a collection
- ExpressLane is installed as a system service that runs when Windows boots (MOBSLangSvc).
- Collection is delayed by 30 seconds due to Windows drive recognition issue.
- Collected files are compressed, encrypted, and saved to the covert partition on the USB drive.
- Collection occurs even if no one is logged in.
- Kill date is modified by inserting a watermarked USB drive.
  - Checks current date when the service starts and corrupts the license files if on or past the kill date.

# IV&V Overview

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- ExpressLane v3.1.1 was tested against IMIS Requirement (2009-1655)
- Core IV&V testing was performed using an ExpressLane USB Drive and a Panasonic Toughbook Laptop (Model CD-19), provided by the developer. This machine is identical to the laptop previously provided to the liaison
- The software test environment consisted of Windows XP Professional w/SP2 and various biometric applications. It was also identical to that of the laptop provided to the liaison
- Security suite characterization was performed on two Dell Optiplex 330 desktop machines equipped with Windows XP Professional w/SP2

## IV&V Overview (cont.)

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- ▮ Tested the ExpressLane splash screen collection control and cover application functionality
- ▮ Collections performed with and without cover application
- ▮ ExpressLane was subjected to complete functionality testing

# IV&V Findings

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## Context

1. None

## Impacts

## Work Around or Mitigation

## Recommendation



# IV&V Observations

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- Deleted license files, that were deleted by the tool, were found in the recycle bin. This should appear as a normal part of the cover upgrade
- ExpressLane was characterized against the following security suites:
  - Kaspersky Internet Security 2009
    - Kaspersky – All alerts were low level and were related to the installation cover app.
  - McAfee Total Protection 2009
    - McAfee – All three versions had a single low level alert stating that the installation modified a registry entry
  - Norton Internet Security 2009
    - Norton Internet Security - Both versions were non-alerting

# Product Support

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- Tool and Project Documentation
  - ExpressLane3.1.1 User Manual\_Rev New\_2009-04-06.doc
  - ExpressLane v3.1.1 TDR\_2009-05-04.ppt
  - Express Lane v3.1.1\_TPP\_FINAL.doc

# Certification

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- Discussion and Decision
- Recap of Assigned Actions



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