# **Tool Delivery Review**

# ExpressLane Version 3.1.1

EDG Developers:

IV&V Point of Contact:

OTS/i2c Point of Contact:

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## **Agenda**

#### **Subject Briefer** Requirements (Developer) **Concept of Operations Capabilities and Limitations IV&V Overview** (IV&V Lead) **IV&V Findings Product Support** (Developer) **Training** Documentation Certification Discussion and Decision **Recap of Assigned Actions**

## Requirements

- 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**

- 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**

- 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**

- 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.)**

- 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**

Context

**Impacts** 

Work Around or Mitigation

**Recommendation** 

1. None

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#### **IV&V Observations**

- 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**

- 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**

- Discussion and Decision
- Recap of Assigned Actions

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