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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

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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

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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)

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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.

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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



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.
 - I 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

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Norton Internet Security - Both versions were non-alerting

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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