

**SUBJECT: ExpressLane v3.1.1 – IMIS Requirement #2009-1655**

1. **Objective:** (S) OTS/i2C is requesting the development of an enhanced version of the ExpressLane v3.0 tool that will be called ExpressLane v3.1.1. ExpressLane is a Windows Service that collects files to a covert partition on a USB drive. ExpressLane has a timed kill capability that revokes the functionality of biometric collection/analysis software. Version 3.1.1 launches a Windows installation splash screen that runs as the cover application during covert file collection.
2. **CONOP: – Concept of Operation:** (S//NF) OTS/i2c has a biometric collection system that is provided to liaison services around the world. The systems are provided to Liaison with the expectation for sharing of the biometric takes collected on the systems. Some of these biometric systems have already been given to the Liaison services. OTS/i2c plans to revisit these sites with the cover of upgrading the biometric software to perform a collection against the biometric takes.
3. **Requirements:**
  - 3.1. (U) The execution of the tool shall look like an authentic Windows installation.
    - 3.1.1. (U) It shall show a splash screen with a progress bar during installation.
    - 3.1.2. (U) The executable shall be called MOBS\_Upgrade.exe.
    - 3.1.3. (S) The executable shall not be tied to any Crossmatch software.
      - 3.1.3.1. (S) The executable shall be a separate script that does not install any Crossmatch software.
  - 3.2. (S) The collection shall begin during the execution of the installation.
    - 3.2.1. (S) Activation of the collection software shall occur without removing/reinserting the thumb drive.
    - 3.2.2. (S) Collection shall begin within one minute of the installation beginning.
  - 3.3. (S) The tool shall collect \*.eft, \*.ldf and \*.mdf files.

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- 3.3.1. (S) \*.eft files shall be collected first.
- 3.4. (S) The directory listing of the system shall be collected during the execution of the installation.
- 3.5. (S) The collected files shall be uncompressed and encrypted.
- 3.6. (S) The Trojan installation and the collection processes shall be decoupled to allow for flexibility in operation.
  - 3.6.1. (S) The user shall be able to install the Trojan and run the collection process with the splash screen.
  - 3.6.2. (S) The user shall be able to run just the collection process with the splash screen.
- 3.7. (S) The kill switch date and size of the hidden partition shall be set through a separate GUI.
  - 3.7.1. (S) The kill switch shall corrupt the MiltA.config file located in the following path: *C:\Program Files\Cross Match Technologies\Configurations\MOBS MiltA.*
  - 3.7.2. (S) The tool shall corrupt the MOBS config file after the pre-set time elapses (MiltA.config).
  - 3.7.3. (S) Date shall be able to be changed by inserting a watermarked thumb drive with a new kill date.
- 3.8. (S) The tool shall allow the user to determine the amount of time the installation takes in advance.
  - 3.8.1. (S) There shall be a GUI to pre-configure the installation time.
- 3.9. (U) The installation shall replace the existing MiltA.ver, MiltA-Collect.ver, MiltA.config, and Country.ar.txt files on the system with new files.
  - 3.9.1. (U) MiltA.ver, MiltA-Collect.ver, and MiltA.config are located in both: *C:\Program Files\Cross Match Technologies\Configurations\MOBS MiltA\VerFiles* and *C:\Program Files\Cross Match Technologies\Configurations\MPBS\MiltA\Workspaces.*
  - 3.9.2. (U) Country.ar.txt is located in: *C:\Program Files\Cross Match Technologies\Configurations\Validation Files.*
- 3.10. (S) Collection of data shall not change the date modified for the files.

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3.11. (S) The Trojan shall replace the old license file with a new license file for each system.

3.11.1. (S) The Trojan shall be packaged with a wrapper to allow user flexibility as to which license file is being installed.

3.12. (S) ExpressLane v3.1.1 shall not be detectable by intrusion detection programs (Norton, McAfee, and Kaspersky), firewalls, and standard operating system features. (Note: no personal security products were installed on the system by OTS, but it is possible that liaison has installed one.)

3.13. (S) ExpressLane v3.1.1 shall be compatible with Windows XP SP2 and run on a Panasonic CF-19. The target systems are provided to Liaison services by OTS/i2c with the following hardware, Operating System, and biometric software:

Item/Vendor	Media Description	Ver. #	License Number	Media Format
MSFT	Windows XP- Operating system	XP w/ SP2	Machine-specific	Preloaded
Cross Match	MOBS- Software Application (Collection)	1.4.0.0045	n/a	Download (FTP)
Cross Match	MILTA- Configuration File	1.4.0.0045	n/a	Download (FTP)
Cross Match	EMS- Watchlist Application (Enrollment and Identification)	R1.10	Machine-specific	Download (FTP)
Cross Match	ID Trak- Watchlist Viewer	1.0.0.16	n/a	Download (FTP)
1. Item	Manufacture	Part Number	Revision Level	Model Number
Panasonic Toughbook	Panasonic	N/A	N/A	CF-19
I-Scan 2 Dual Iris Scanner	Crossmatch	N/A	N/A	ISCAN2
Guardian Finger Print Scanner	Crossmatch	N/A	N/A	Ruggedized Version
Digital Camera (Powershot )	Canon	N/A	N/A	PSA640
IS MRZ Passport Reader	Access	N/A	N/A	Asses-IS
NiMH Rechargeable Battery	Matthew Associates	N/A	N/A	BB-390A/U
NiMH Rechargeable Battery	BenTronics	N/A	N/A	BB-390B/U 6140-01-490-4317

4. **Agreement(s):** (U) None.

5. **Due Date(s):** (U//FOUO) The due date for ExpressLane v3.1.1 is 4 May 2009.

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**6. Delivery Items:**

- 6.1. (C) ExpressLane v3.1.1 Requirements Document
- 6.2. (U) User Manual (properly classified) to include the following at the start of the document:
  - 6.2.1. (U) Technical CONOPS
  - 6.2.2. (U) Installation Instructions to include Installation Verification Data
- 6.3. (U) TDR Charts
- 6.4. (U) Test Procedures and Verification Results
- 6.5. (U) CD-R Copies
  - 6.5.1. (U) 2 – Unclassified CDs with the Tool Binaries/Executables
  - 6.5.2. (C) 2 – Classified CDs with Tool Documentation (referenced above)
- 6.6. (U) Training

**7. Users:**

- 7.1. (C) Installer: The user will be an OTS officer who is installing an update to the system given to liaison.
- 7.2. (S) Thumb Drive User: Liaison will unwittingly be passing data on thumb drive and updating their system through insertion of the thumb drive.

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**8. IV&V Test Findings and Observations**

CONTEXT	IMPACTS	WORK-AROUND or MITIGATION	RECOMMENDATION

**9. POCs: (All data within §9 is classified “U//FOUO”).**

9.1. **Operations:** [REDACTED] OTS/i2c

9.2. **Engineering:** [REDACTED] IOC/EDG/AED/WAB

[REDACTED] IOC/EDG/AED/WAB

9.3. **Testing:** [REDACTED] IOC/EDG/SED-IV&V Lead

9.4. **Other:** [REDACTED] IOC/EDG/SED-SSE

[REDACTED] IOC/EDG/SED