



TERMS OF REFERENCE

RENEWAL OF FORENSIC INVESTIGATION SOFTWARE FOR COMPUTER HARD DRIVES OR ANY DIGITAL STORAGE MEDIA (ENCASE FORENSIC)

I. OBJECTIVE

This aims to purchase software license to be delivered and installed based on the operational specification of the unit below:

1. System Chassis (Casing): Must be housed in a semi-rugged computer case with sturdy handles
2. CPU: i9, 18 Core, 2.6 GHz (4.2 Turbo), 24.75MB Cache
3. Liquid All-In-One CPU cooler
4. RAM: 128GB DDR4
5. Internal Configuration: -RAID5: Five 10TB SATA HDDs (Data/Evidence) -RAID0: Two 4TB SATA SSDs (Database) -One 4 TB NVMe SSD (Cache/Temp) -One 2 TB SSD (O/S)
6. Video Card: Standard Memory Config: at least 11GB GDDR5X Memory Speed: 11 gbps Memory Interface Width: 352-bit Memory Bandwidth: 484
Front Panel Write Blocking Device which supports: -SATA interface for 3.5" or 2.5" storage devices -Various Memory Cards (SD, MMC, XD, CF, Micro SD etc.) -USB 3.0 or higher -Various Memory Cards (SD, MMC, XD, CF, Micro SD etc)
Power Supply: about 1000 Watt 80-plus Platinum rating
LAN: Integrated Gigabit LAN Storage: 8 SATA Gbps ports, M.2 socket PCIe Audio: Multiple-channel high-definition USB ports: at least 4x USB2, 4 USB3, and 2 USB 3.1 Gen2 Type-A & USB Type-C Form factor: ATX
External Configuration: -Triple Burner (Blue-Ray, DVD, CD)
Accessories: Wireless keyboard and mouse
Monitor: 24" LED with speakers
1 x 3.5" Hot-Swap SATA hard drive bay
Other Software: 1. MS Windows 10 Professional, 64-bit 2. Linux-based virtual machine with forensic and system

administration tools

* Note - fast technological advancement which may outdate requirement can be replaced by greater or advanced specifications.

II. SCOPE

Forensic Investigation Software for Computer hard drives or any digital storage media

- i. Shall forensically collect and analyze any digital device or system producing, transmitting or storing data by using a single application from multiple devices.
- ii. Shall be able to support that all digital evidence is stored in one case database, thus, giving teams access to the most current case evidence.
- iii. Shall be able to acquire different types of digital evidence
 1. Static Evidence
 2. Live Evidence
 3. Remote Evidence
- iv. Shall be able to image and parse RAID arrays, MS Dynamic Disks, and Linux EXT4 volumes.
- v. Shall be able to support the MD5 and SHA-1 hash functions for file analysis and authentication purposes, as well as AES-256 for bulk data encryption for evidence files.
- vi. Shall be able to support Comprehensive Index & Binary Sharing.
- vii. Shall maximize Multi-threading / Multi-Core processors for maximum processing speed.
- viii. Shall be able to support Advance Volatile / Memory Analysis
- ix. Shall be able to provide standard reporting tools on the discovered evidence.
- x. Shall be able to integrate with Project VIC, by leveraging the use of extremely large and high quality hash sets to identify and eliminate images.
- xi. Shall be able to integrate with the National Software Reference Library's RDS, to automate the identification of files that are traceable to known original software.
- xii. Shall have a built-in password recovery system for decryption.
- xiii. Shall be able to discover all password-protected files on a Subject computer, and provide options to recover the said files:
 1. Must be able to use GPU cards to accelerate the password recovery processes

2. Have the ability to recover passwords of entire file systems or storage media images
 3. To be useful in many cases, must have the ability to recover from popular applications, including 7zip or Zip or Rar archives, TrueCrypt or PGP WDE or Mac OS or LUKS or BitLocker file images, MS Office, Lotus Notes, and hundreds of more file types.
- xiv. Shall be able to analyze different email types including but not limited to:
1. PST (Microsoft Outlook)
 2. NSF (Lotus Notes)
 3. DBX (Microsoft Outlook Express)
 4. EDB (Microsoft Exchange)
 5. EMLX (Macintosh OS X)
- xv. Shall support Internet-related artifact analysis capability including browsing history and cached web pages, of at least the following web browsers:
1. Internet Explorer
 2. Macintosh Internet Explorer
 3. Safari
 4. Firefox
 5. Opera
- xvi. Shall be able to acquire, analyze and report on evidence from smart devices (Android, IOS Windows, Blackberry, PalmOS, and SymbianOS), as well as from Property List (plist) files, SQLite databases, and storage media image containers DMG E01, EX01, L01, LX01, DD, VMDK, and VHD.

III. DELIVERY DATE

Within thirty (30) days from the receipt of the notice to proceed. SUPPLIER must provide Manufacturer Letter of Authorization to bid, and provide demonstrable proficiency in providing technical support for mission-critical mobile forensic systems.

Inclusive of software maintenance service (SMS) for one (1) year.

IV. PENALTY CLAUSE

When the service provider fails to satisfactorily deliver the software under the contract within the specified delivery schedule, inclusive of duly granted time extensions, if any, it shall be liable for liquidated damages for at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay until the software is finally delivered and accepted by the DOJ. Such amount shall be deducted from any money due or which may become due to the service provider.

Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, the DOJ may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances.

V. TERMS OF PAYMENT

The approved budget for the contract, which is Four Hundred Fifty Thousand Pesos (Php450,000.00) inclusive of VAT, and all other applicable government taxes and charges, which shall cover payment for subscription of software license for One (1) year from the delivery, chargeable against the funds of the Office of Cybercrime, subject to the usual government accounting and auditing rules.

The payment shall be made upon delivery of the software license and acceptance of DOJ.

VI. TERMINATION

The Department of Justice has the right to test and evaluate the software license before acceptance. Prospected bidder must be Certified Distributor and have authority to sell, deploy, manage and provide support services issued by the product owner/manufacture.