

***ANNEX II + III* : TECHNICAL SPECIFICATIONS + TECHNICAL OFFER**

Contract title: Supply - Public key infrastructure (PKI) implementation in Citizen Identification Protection System (CIPS)

p 1 /...

Publication reference : EuropeAid/127347/C/SUP/BA

Column 1-2 should be completed by the Contracting Authority

Column 3-4 should be completed by the tenderer

Column 5 is reserved for the evaluation committee

Annex III - the Contractor's technical offer

The tenderers are requested to complete the template on the next pages:

- Column 2 is completed by the Contracting Authority shows the required specifications (not to be modified by the tenderer),
- Column 3 is to be filled in by the tenderer and must detail what is offered (for example the words “compliant” or “yes” are not sufficient)
- Column 4 allows the tenderer to make comments on his proposed supply and to make eventual references to the documentation

The eventual documentation supplied should clearly indicate (highlight, mark) the models offered and the options included, if any, so that the evaluators can see the exact configuration. Offers that do not permit to identify precisely the models and the specifications may be rejected by the evaluation committee.

The offer must be clear enough to allow the evaluators to make an easy comparison between the requested specifications and the offered specifications.

Lot 1: Printers, Smart card reader / writer, Smart Card, Smart Card Accessories, Hardware Security Module, application software and Digital cameras

Column 1	Column 2	Column 3	Column 4	Column 5
ID No.	Specifications	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
1.1	<p>Printers – 3 pieces</p> <ul style="list-style-type: none"> • Dual-sided printing • Resolution: min. 300 dpi (11.8 dots/mm) • Colours: Up to 16.7 million / 256 shades per pixel • Full-colour with fluorescing, two resin black panels and overlay panel , min. 350 prints • Over laminate Options: Thermal Transfer Over laminate, min. .25 mil thick Poly Guard Over laminate, min. 1.0 mil and min.6 mil thick • Poly Guard available • Accepted Standard Card Sizes • Print Area: edge-to-edge • Print/Lamination <p>Accepted Card Types: PVC or polyester cards with polished PVC finish; monochrome resin ,required for 100% polyester cards; optical memory cards with PVC finish</p> <p>Input Hopper Card Capacity: Dual hoppers, min.100 cards each</p> <ul style="list-style-type: none"> • Card hopper lock <p>Output Hopper Card Capacity: min.100 cards</p> <ul style="list-style-type: none"> • Card Cleaning: Removable Card Cleaning Cartridge with replaceable cleaning roller • Memory: min. 16MB RAM • Display: User-friendly, LCD Control Panel • LED display on optional Card • Card Lamination Module • Interface: USB 1.1 (USB 2.0 compatible); • 10BASE-T Ethernet with internal print server • Encoding Options: ISO Magnetic Stripe Encoding, triple coactivity • Contact Smart Card Docking Station 			

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	<ul style="list-style-type: none"> • Contact less Smart Card Encoder • E-card encoding <p>Contact Smart Card Encoder reads from and writes to all ISO7816-1/2/3/4 memory and microprocessor smart cards (T = 0, T = 1) as well as synchronous cards</p> <ul style="list-style-type: none"> • Card Encoder (HID read-only) • Software Drivers: Windows® 2000/XP/Server 2003/Vista • Guarantee minimum 1 year 			
1.2	<p>Smart card reader / writer – 800 pieces:</p> <ul style="list-style-type: none"> • Universal Serial Bus Interface • Type USB full speed, four lines • Source From USB • Speed min. 12 Mbps <p>Smart Card Interface Standard. ISO-7816 Class A, B and C (5V, 3V, 1.8V), T=0 and T=1</p> <ul style="list-style-type: none"> • Supply current max. 50mA • Smart card read / write speed 1,743 – 250,000 bps • Short circuit protection +5V / GND on all pins • The presence of the smart card power supply voltage is indicated through a green LED on the reader • CLK frequency 4 MHz • Card connector Contact • Card insertion cycles min. 100,000 • Card Interface • Card connector Sliding • Physical Specifications <p>Cable length, cord, connector minimum 1.5 meters, Fixed (non-detachable), USB A</p> <ul style="list-style-type: none"> • Certifications EN 60950/IEC 60950, RoHS Compliant, EMV 2000 Level 1, ISO-7816, PC/SC, CE, FCC, • USB Full Speed, Microsoft 2K, XP 			

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	<ul style="list-style-type: none"> • Compatible with Operating Systems : Windows 98, ME, 2K, XP, NT 4.0, 2K3 Server, Linux, MAC OS X Smart card reader / writer: compatible with items 1.1, 1.3, 1.4 and 1.5. • Guarantee minimum 1 year 			
1.3	Smart Card – 2000 pieces: <ul style="list-style-type: none"> • 32 K BYTE CPU CARD • Microprocessor based smart card • White PVC card, glossy • Guarantee minimum 1 year 			
1.4	Smart Card Accessories: <ul style="list-style-type: none"> • Holographic Foil – 2000 pieces • Holographic Over laminate – 2000 pieces 			
1.5	Hardware Security Module-HSM – 3 pieces: <ul style="list-style-type: none"> • Keys always in Hardware • Ethernet-attached for Easy Deployment • HSM features two built-in Ethernet ports for drop-in deployment onto networks, making it easy to add hardware secured key management and cryptographic acceleration to PKI applications. • Hardware Key Management and High-Performance Cryptographic Acceleration • An integrated HSM must provides secure, hardware-based storage for sensitive cryptographic keys and must offers minimum 1200 cryptographic operations per second (1024-bit RSA decrypt) for the most demanding applications. • Secure Remote Administration and Two-factor Authentication <p>HSM features secure network administration to simplify management and FIPS 140-2, Level 3 validated models offer true two-factor, trusted path, multi-person authentication of HSM administrative users to prevent unauthorized access.</p>			

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	<ul style="list-style-type: none"> • HSM fully integrated with the most popular Certificate Authorities (CA), including Microsoft Certificate Services, Entrust Authority, VeriSign, and many more. • HSM also provides SSL acceleration support for Microsoft IIS and Apache web servers. • HSM is validated to FIPS 140-2, Level 2 and Level 3 to meet the demands of the most rigorous security policies. • Offload computationally intensive SSL connection setups from web servers with HSM configured for shareable hardware SSL acceleration. • Guarantee minimum 1 year 			
1.6	<p>Application software (ready of the shelf) – 2 pieces:</p> <p>Application control software for card design, data management and advanced card personalization Enterprise edition compatible with items 1.1,1.2, 1.3, 1.4 ,1.5 + License + documentation English+ Installation disk+ Recovery disk or equivalent.</p>			
1.7	<p>Digital cameras – 3 pieces:</p> <ul style="list-style-type: none"> • Minimum 7.1 Mega pixels. • 4x optical zoom with optical Image Stabilizer • Face Detection Technology • Red-Eye Correction • ISO 1600 • 2.5" LCD screen • wide and tele converter lenses, • close-up lens and slave flash. • case • Memory card 2GB • Stand for camera • 4 battery and charger • Guarantee minimum 1 year 			

Important Notice: All hardware and software in items 1.1,1.2, 1.3, 1.4 ,1.5, 1.6 must be compatible each other.

LOT 2 Servers, Racks and Notebooks

Column 1	Column 2	Column 3	Column 4	Column 5
ID No.	Specifications	Specifications Offered	Notes, remarks, ref to documentation	Evaluation Committee's notes
2.1	Server Model 1 – 2 pieces: <ul style="list-style-type: none"> • Processor: 4x Quad-Core <ul style="list-style-type: none"> – Minimum value of benchmark SPECfp_rate_base2006 = 20 – Minimum value of benchmark SPECint_rate_base2006 = 24 • Chipset: minimum Industry Standard Chipset with four high-speed interconnects at 1066 MT/s or equivalent. • RAM : 16GB • Disk installed : 8 x 72 GB 15000 rpm. Hot- swap • Form factor: Rack mountable • Network adapter: Two (2) embedded Gigabit Server Adapters with TCP/IP • Support for : 4G Fibre Channel and 10G Ethernet • Support for: Advanced Memory Protection including Hot-plug RAID Memory, Hot-plug Mirrored Memory and Online Spare Memory • 2 x 800/1200W AC redundant Hot Plug Power Supply, Hot Plug Redundant Fans <ul style="list-style-type: none"> • RAID controller with min. 512 MB support cache RAID support: RAID 6 with ADG (Advanced Data Guarding) RAID 5 (Distributed Data Guarding) RAID 1+0 (Striping & Mirroring) RAID 0 (Striping) • Media: DVD drive • Operating system: Windows 2003 Standard Edition + License + documentation English+ Installation disk+ Recovery disk or equivalent. • Guarantee minimum 1 year 			
2.2	Server Model 2 – 12 pieces: <ul style="list-style-type: none"> • Processor: Dual-Core, <ul style="list-style-type: none"> – Minimum value of benchmark SPECfp_rate_base2006 = 20 			

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	<ul style="list-style-type: none"> – Minimum value of benchmark SPECint_rate_base2006 = 24 • Chipset: minimum Industry Standard Chipset • RAM: 2GB DDR2 up to 8 GB . • Disk installed : 2 x 72GB 15000 rpm. Hot- swap • Form factor: 1U Rack Mount Chassis • Network adapter: Embedded Dual Port Gigabit Server Adapter • Auto-sensing 400-Watt PFC Power Supply, CE Mark Compliant • RAID support: RAID 0/1 • Media: DVD drive • Operating system: Windows 2003 Standard Edition + License + documentation English+ Installation disk+ Recovery disk or equivalent • Guarantee minimum 1 year 			
2.3	<p>Rack – 2 pieces:</p> <ul style="list-style-type: none"> • Rack 42U 19-inch, industry-standard rack • Accessories all necessary PDUs, Power Cables and plug in for Items 2.1 and 2.2 . <p>Monitor 17" LCD console with keyboard and pointing device</p> <ul style="list-style-type: none"> • Space adequate space for installation of all above equipment for Items 2.1 and 2.2. • Other equipment for full connectivity • Guarantee minimum 1 year 			
2.4	<p>Notebook – 5 pieces:</p> <ul style="list-style-type: none"> • Processor and motherboard: Latest motherboard technology, Benchmark Sysmark 2400 => 180 or greater. • RAM: 2GB DDR2-667 (2x 1GB) • LCD min.15.4" or larger TFT • Video adapter : minimum video RAM 256MB • Network adapter: 10/100/1000 MBit • Interfaces: minimum 1xserial, 1x parallel, 1x VGA, 3 x USB 2.0, Firewire, RJ45 for LAN, S-Video out, Docking connector 			

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	<ul style="list-style-type: none"> • DVD RW +/- Dual Layer • HDD SATA min.160GB @ min. 5400 rpm • Modem 56K V.92 including RJ11 Modem cable min. 3m • Integrated Wireless LAN (WLAN) min.802.11a/g/n • WiFi Catcher • Min. SD/MS card slot reader • Sound Card: Stereo • Bluetooth integrated • Standard Keyboard (BiH) • Audio connectors: 1x microphone, 1x speaker, 1x head phones. • Operating system: Vista Business + License + documentation English+ Installation disk+ Recovery disk or equivalent. • MS Office (or equivalent) ready: Business edition, license, documentation English, Installation disk • Mini wireless optical mouse • Leather carrying case for notebook • Portable Hard Drive 160 GB, USB 2.0 (USB 2.0 certified cable, Quick installation guide, Compatible with Operating Systems : Windows 2K, XP, Vista) • Guarantee minimum 1 year 			

Delivery address for lots 1 and 2:

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