



RFQ-CO-12534-GITC

**PROVIDE ISAF GEOSPATIAL IMAGERY AND
TARGETING CAPABILITY FOR JFC BRUNSSUM**

BOOK II – PART III

STATEMENT OF WORK

**ANNEX A -
MINIMUM HARDWARE SPECIFICATIONS**

Table of Contents

1. SUN EQUIPMENT.....3
1.1. SERVER SUN FIRE V4903
1.2. SUN STOREDGE[™] C2 AUTOLOADER3
1.3. SUN STOREDGE(TM) 3320 SCSI ARRAY RACK READY3
1.4. SERVER SUN FIRE V2454
1.5. SUN ULTRA 25 WORKSTATION4
2. PERIPHERALS5
2.1. NETWORK SWITCH.....5
2.2. OFFICE DESKTOP PC6
2.3. MONITOR (19” and 24”)6
2.4. LAPTOP.....7
2.5. BLACK & WHITE LASER PRINTER A47
2.6. COLOUR LASER PRINTER A48
2.7. COLOUR LASER PRINTER A38
2.8. HIGH SPEED SCANNER.....8
2.9. PROJECTOR9
2.10. UCCI INTERFACE9

1. SUN EQUIPMENT

1.1. SERVER SUN FIRE V490

Model/Part No. A52-CWZ4C416GYB6
4x1.8 GHz UltraSPARC IV+ Processor
32 MB cache
16GB Memory
2x146GB 15Krpm FC-AL HDD
1xDVD ROM
2xEthernet 10/100/100 BaseT ports
1 serial port, RW
2 USB ports
6 * PCI slots
2 (N+1 redundant) power supplies
Solaris 10 and JES ES version 4 pre-installed (Standard Configuration)
RoHS-5 Compliant

1.2. SUN STOREDGE[™] C2 AUTOLOADER

Model/Part No. SG-XAUTO8LTO3-C2
1 LTO 3 LVD SCSI full-height drive
8 cartridge slots
2U rackmount
RoHS-6 compliant

1.3. SUN STOREDGE(™) 3320 SCSI ARRAY RACK READY

Model/Part No. XTA3320R01A1Z730
730GB (5 x 146GB 15Krpm SCSI drives) w/1 Ultra320 SCSI RAID controller
512MB cache
2 AC power supplies
RoHS-5
Does not include Sun StorEdge (™) Configuration Service software

1.4. SERVER SUN FIRE V245

Model/Part No. 245-ELZ2C12GC2
2 x 1.5GHz UltraSPARC IIIi
2GB
2 x 73GB Drive
4 x 10/100/1000 Gigabit Ethernet
ALOM Remote Manager
2 x PCI X & 2 x PCI E slots
2 x PSU & Java ES & Solaris 10 pre-installed
RoHS 5

1.5. SUN ULTRA 25 WORKSTATION

Model/Part No. A89-XHZB1-9AG-1GDU
1.34 GHz UltraSPARC IIIi Processor with 1 MB on-die L2 Cache
Sun XVR-2500 Graphics Accelerator
1 GB DDR1 Memory (2 x 512 MB DIMMs)
1 x 160 GB 7200 rpm SATA Disk
DVD-Dual
2 x 10/100/1000 BaseT Ethernet ports
2 Serial ports
6 USB 2.0 ports
2 Full-length PCI-X slots
3 PCIe slots
Solaris 10 preinstalled
RoHS-6 Compliant

2. PERIPHERALS

2.1. NETWORK SWITCH

Minimum Specification
Stackable switch: the stacking architecture must ensure that the stack acts as a single switch; it must be resilient and may not limit any feature subset of the equipment
Equipment must be capable of being mounted in standard 19” racks
Minimum no. of FO Gigabit Ethernet ports: 16
The switch will provide an independent / separate up-link / backbone module for network connectivity. This link will support the same set of Ethernet technology and media as described above
Support for the following feature subset: <ul style="list-style-type: none"> • Layer 2 switching • VLAN Standards 802.1q (VLAN) • Spanning Tree 802.1d (Spanning Tree Protocol), 802.1s (Multiple Spanning Tree Protocol), 802.1w (Rapid Spanning Tree Protocol) • QOS/COS 802.1p (QOS on MAC level) (by 802.1Q tags, DSCP, minimum 4 queues) • Port based network access control 802.1x EAP • Flow control 802.3x • Link aggregation 802.3ad
Equipment shall provide port mirror functionality (bi-directional)
Equipment shall provide broadcast control blocking / limiting mechanism
The switch must be able to support at least 8,000 MAC addresses
The device shall transport all data non-blocking at wire speed
Supports at least the following protocols: <ul style="list-style-type: none"> • HTTP/SSL, IGMP v2 and 3, Telnet, SSH, TFTP, (S)NTP
Device Management: <ul style="list-style-type: none"> • Programmable via a secure interface offering SSH, HTTP with SSL and SNMPv3. • Management via RMON and web based management functionality (at a minimum – Traffic Statistics, history, events and alarms) will be provided internally to the switch. This capability, when turned on, will not severely diminish the processing capability, degrade performance and speed of the switch. • Manageable (remotely monitor, control and diagnose) via SNMP and RMON capabilities (module) – Support for network management packages (e.g. HP Openview, IBM Tivoli/Netview, SPECTRUM) as required. • The switch supports: SNMPv3, MIBII, RMON MIB I and II, Bridge MIB, Ethernet MIB, 802.1x MIB, IGMP MIB and SSH
Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

N+1 redundant power supply – units
Software Documentation: latest release on CD or printed media

2.2. OFFICE DESKTOP PC

Minimum Specification
Windows Vista Premium Ready
Intel Core™ 2 Duo Processor E6400, 2.13GHz, 1066MHz FSB, 2MB L2 cache, VT (Intel Virtualisation Technology), EIST (Enhanced Intel SpeedStep Technology) or equivalent CPU
Trusted Platform Module (TPM) 1.2 (or later) chip on the motherboard
Preboot eXecution Environment (PXE) - compatible boot ROM
BIOS supports SMBIOS V2.5, PXE, boot from external USB device and TFTP
PnP and BIOS setup/boot password/system configuration protection & cabinet lock
1GB Dual Channel DDR SDRAM 667MHz FSB expandable to at least 2GB
80 GB SATA/100 hard disk, 7200 RPM mounted in the removable tray (metal frame, minimum rating of at least 3000 insertions)
Video Card w/128MB PCI-E
16 x DVD-ROM
On-board, GBit Ethernet and 100BaseFX NIC, supports PXE
Case with 2 x 5 ¼” externally accessible bays (removable hard disks and DVD)
Integrated full duplex Sound card plus speakers (if not integrated in monitor)
US QWERTY keyboard
Optical scroll mouse
Low noise level (max. LpAm = 230 dBA, DVD drive in stand-by)
OEM Windows Vista Business Edition operating system (with all drivers existing in Windows XP)
Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7
All identified components installed/integrated into the system

2.3. MONITOR (19” and 24”)

Minimum Specification
Overall hardware configuration must be robust in order to support business type operations
Compatible with Windows Vista (US) and the latest version MS Windows and have the appropriate device drivers
Contrast 500:1
Brightness: 300 nits (or cd/m ²)
Standards: TCO 03 / ISO 13406-2 Class II
Analogue and digital connections
Response time: rise/fall 8 ms
Horizontal/vertical viewing angle: 65 degrees horizontally and vertically
Native resolution: 1280x1024 pixels

Minimum Specification
Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.4. LAPTOP

Minimum Specification
Windows Vista Premium Ready
Intel Core 2 Duo processor T7200 (2.00-GHz, 667-MHz FSB, 4MB L2 cache) or equivalent.
Trusted Platform Module (TPM) 1.2 (or later) chip on the motherboard
Preboot eXecution Environment (PXE) - compatible boot ROM
1GB 667MHz DDR2 SDRAM (1x1GB)
80GB hard drive
15” XGA TFT display (1280 X 1024)
US QWERTY keyboard
min. 3 hours running time battery
64MB or 128MB (preferred) video RAM
Touch pad mouse
DVD+/-RW with Double Layer
Auto sensing 10/100/1000 Mbps Ethernet LAN connection
2x free USB 2.0 ports
56K modem
Nylon carrying case
OEM Windows Vista Business Edition operating system (with all drivers existing in Windows XP)
Auto sensing 110/220V power with local power cord
100BaseTX-100BaseFX media converter with local power cord
Laptop Locking Mechanism

2.5. BLACK & WHITE LASER PRINTER A4

Feature	Minimum Specification
Printing dimension	A4
Printing speed	10 ppm
Resolution	1200x1200 dpi
RAM memory	16 MB
Paper trays	1 x 250 page drawer
Duplex Printing	Yes
Print Language	PCL 6, PCL 5e, Postscript Level 3 emulation
Interfaces	IEEE 1284 parallel-B or USB port
Network Connection	100 Mbps FO Ethernet print server
Compatibility/drivers	Solaris 10 or newer
Power	Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.6. COLOUR LASER PRINTER A4

Feature	Minimum Specification
Printing Dimension	A4
Printing Speed Colour	16 ppm normal.
Printing Speed Black	16 ppm normal.
Resolution	600 x 600 dpi black 600 x 600 dpi colour
Print Colours	Black and photo-quality colour
RAM memory	128 MB
Paper trays	2
Paper tray capacity	350 pages
Duplex Printing	Yes
Print Languages	PCL 6, PCL 5e, PostScript Level 3 emulation
Network Connection	Internal print server with 10/100 Ethernet NIC
FO Adapter	Internal or external 100 BaseTx – 100 BaseFx
Compatibility/drivers	Windows 2003/XP or newer OS
Power	Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.7. COLOUR LASER PRINTER A3

Feature	Minimum Specification
Printing Dimension	A3
Printing Speed Colour	16 ppm normal.
Printing Speed Black	16 ppm normal.
Resolution	600 x 600 dpi black 600 x 600 dpi colour
Print Colours	Black and photo-quality colour
RAM memory	128 MB
Paper trays	2
Paper tray capacity	350 pages
Duplex Printing	Yes
Print Languages	PCL 6, PCL 5e, PostScript Level 3 emulation
Network Connection	Internal print server with 10/100 Ethernet NIC
FO Adapter	Internal or external 100 BaseTx – 100 BaseFx
Compatibility/drivers	Windows 2003/XP or newer OS
Power	Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.8. HIGH SPEED SCANNER

Feature	Minimum Specification
Scanner Type	Flatbed

Feature	Minimum Specification
Scanning type	Single pass
Scanning area	able to scan A4 page dimensions
Document Feeder	Yes, 25 pages minimum
Connection	USB with cable; Network Connectivity - FO
Resolution	1200 dpi optical 1200 x 2400 hardware unlimited dpi enhanced
Colour Depth	Greyscale:12 bit; Colour: 36 bit
Targeted scanning speed	Scans up to 5 ppm Less than 45 seconds for a 4"x6" photo into Word Less than 1 minute to OCR a full page of text into Word Less than 45 seconds to scan a B/W image into Word.
Compatibility	Windows 2003/XP/Vista (TWAIN driver)
Software	Image editing, PDF maker and OCR software
Power	Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.9. PROJECTOR

Feature	Minimum Specification
Resolution:	1280x1024 SXGA
Brightness:	2000 ANSI lumen
Contrast Ratio	400/1
Display Technology:	DLP or LCD
Adjustment:	Remote and manual control
Compatibility:	XGA, SVGA, VGA
Video:	Composite video and 5 Video, NTSC, NTSC4.43, PAL, SECAM, PAL M as required.
No. of Colours:	24 bits, 16.7 million colours
Keystone:	Adjustable
Input:	Computer, video, and audio
Output:	Analogue RGB, stereo mini-jack
Image Size:	0.76m to 7.6m diagonal
Focus Range:	1.4m to 10.8m
Projection angle:	0 and 180 degrees (top mounted)
Power:	Power supply and cords according to local requirements: 220/230v 50 Hz, Schuko Plug CEE7/7

2.10. UCCI INTERFACE

Manufacturer: ADD-Engineering B.V.
 P.O. Box 5893
 Rotterdam, 3008 AW
 The Netherlands
 Tel: +31(0)104841016

Fax: +31(0)104865355

See product specifications at: www.add.nl -> Products -> Datalink Interfaces -> UCCI