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### **Software standards**

UNFPA has obtained global licenses for Microsoft Office and Symantec EndPoint antivirus software - these software's are licensed for installation in all UNFPA user computers. Following is a listing of officially supported versions of current softwares:

Operating System: Windows 7 Professional (64 bit)/ Windows 8.1 Professional (64 bit)  
Office Suite: Microsoft Office 2010 Professional / Microsoft Office 2013 Professional (Word, Excel, PowerPoint, Outlook)  
Email client: Outlook, Gmail  
Browsers: Google Chrome 39 (Higher), Mozilla Firefox 30 (Higher) and Internet Explorer 11 (Higher)  
PDF Reader: Adobe Acrobat Reader XI (Higher)  
Antivirus: Symantec EndPoint 12.x (Higher)  
Runtimes: Flash 15.0, Silverlight 5.1, Adobe Air 15.0 Adobe Shockwave 12.1, Java 7, Java X64 7, Apple QuickTime 7.x  
Communications: Google Hangouts, Skype 7.0 (Higher)

### **Minimum standards for desktop personal computers**

UNFPA has standardized on Windows computers, the current versions of which use Core 2 Duo class processors. UNFPA does not prohibit the use of processors made by other manufacturers such as AMD as long as they are fully compatible with Intel chips.

Processor: 4th Gen Intel Core i5 or equivalent  
Front Side Bus: 1333MHz  
RAM: 4GB, NON-ECC, 1600MHZ DDR3, 2DIMM. Systems developers and power users may need computers with larger RAM  
Hard Disk: 500GB 7200rpm (Keep Your Hard Drive, 3 Year)  
CD-ROM: 16X DVD+/-RW  
External Ports: 4 USB 2.0/ 3.0  
Graphics: Integrated, up to 256MB shared  
Sound: Integrated  
Monitor: 21" WXGA LCD  
Keyboards: 101 key-enhanced keyboard  
Mouse: 2 button digital mouse with scroll  
Operating System: Windows 7 Professional (64 bit)  
Network Capability: Integrated 10/100/1000 Ethernet card  
Certification: Must be certified for compatibility with Windows 7 Professional or Windows 8.1 Professional 64-bit Operating Systems  
Warranty: 3 Years onsite (next business day recommended)  
Brands: Lenovo, Dell, Hewlett-Packard. Actual brand selection depends on cost, availability of service and maintenance facilities in the country/city  
Maximum Cost: \$900 (HQ) / \$1,300 (Field)

### **Standards for printers**

Network LaserJet Color Printer: HP LaserJet Enterprise 500 color M551dn or Lexmark X79x Series

Network LaserJet Printer: HP LaserJet 3015dn or Lexmark MS610DE

Multifunction Network Printer: HP LaserJet Enterprise M4555h MFP or Lexmark X646DE (B/W)

### **Maximum standards for Personal Printers**

Resolution: 2400 x 600; Black and White; Wired/USB/Wireless; Media Size Maximum 8.5 x 14 inch; Double-Sided Printing; Max Print speed: Black White 27 pages per minute; Printer Technology: Laser; Maximum Paper Tray Capacity: 250-sheet; Maximum Memory: 8 MB; Minimum Hi-Speed USB 2.0 interface support. Compatible preferred with: Windows 7 / Windows 8 / XP / XP Professional x64 / 2000 / Server 2003 / 2008; Mac OS X 10.4.11, 10.5.x, 10.6.x

### **Minimum standards for portable computers**

UNFPA does not technically endorse the use of the Apple Computers. Though excellent devices for personal use, Apple tablets and computers do not meet organizational requirements. Specifically: it does not run all corporate applications; it does not connect to a wired network; all additional applications install via a personal iTunes account (credit card information is required); and Apple operating system support will be required of UNFPA IT. Basic tablets do not replace user laptops but are an additional device. Therefore, such devices will substantially increase costs to the organization.

*Tablet specifications are available on request through your LAN Manager following consultations with MIS*

UNFPA has standardized on Windows laptops, the current versions of which use Core 2 Duo class processors.

|                       |   |
|-----------------------|---|
| Processor:            | 4th Gen Intel Core i5 or equivalent   |
| RAM:                  | 4GB 1333MHz DDR3. Systems developers and power users may need computers with larger RAM   |
| Hard Disk:            | 320 GB 7200rpm (Keep Your Hard Drive, 3 Year)   |
| CD-ROM:               | Optional/8X DVD+/-RW  |
| External Accessories: | 1 SD Card Slot; 2 USB 2.0/3.0; 21" WXGA LCD, in conjunction with docking station; 101 key-enhanced keyboard; 2 button digital mouse with scroll     |
| Graphics:             | Integrated  |
| Sound:                | Integrated. Light Sensitive Webcam and Noise Cancelling Digital Array Mic   |
| Display:              | 13" WXGA Active Matrix  |
| Modem:                | Optional  |
| Network Capability:   | Integrated 10/100/1000 Ethernet card  |
| Wireless Capability:  | Integrated 802.11b/g/n  |
| Battery:              | Lithium-Ion 6-cell  |
| Power Supply:         | Universal, auto-sensing (100-240 Volts/50-60Mhz)  |
| Operating System:     | Windows 7 Professional (64 bit)/ Windows 8.1 Professional (64 bit)  |
| Warranty:             | 3 Years onsite  |
| Brands:               | Lenovo, HP, Dell, Toshiba, and Sony. Actual brand selection depends on cost, availability of service and maintenance facilities in the country/city |
| Maximum Cost:         | \$1,500 (HQ) / \$2,200 (field)  |

### **Minimum standards for Thin Clients**

All Thin Clients should have VMware Horizon and be compatible with VMware vSphere. It is recommended that the Thin Client must have listed below configurations:

|                  |   |
|------------------|---|
| Network:         | Integrated 10/100/1000BaseT Ethernet card Network |
| Hard Disk:       | 8GB or less                                       |
| Chassis:         | Mountable behind the monitor                      |
| Monitor:         | 22 inch diagonal                                  |
| USB Connections: | Minimum 4 USB ports.                              |
| Sound:           | Built in Speakers with headset capabilities       |
| Video :          | VGA connectivity but Digital is recommended       |

### **Minimum standards for computer projectors**

|                        |  |
|------------------------|--|
| Lumens:                | 2500 lumens  |
| Supported Resolutions: | WXGA, XGA, SVGA  |
| Bulb life:             | 3000 hours   |
| Recommended Brands:    | Boxlight, Dell, Epson, and Infocus. Actual brand selection depends on cost, availability of service and maintenance facilities in the country/city |

### **Minimum standards for network file servers and application servers**

The exact configuration of network file or application servers depends on the intended use of the server and the number of users. However, the following configuration provides a general minimum guideline for selecting servers:

|                     |  |
|---------------------|--|
| Processor:          | Intel® Xeon® E5 2.4 GHz (minimum of 4 cores) or equivalent, dual processor capable. The exact configuration depends on the number of users and applications.   |
| Front Side Bus:     | 1333MHz  |
| RAM:                | 32 GB for server using Windows 2012 Standard R2 (64 bit). Maximum memory should be upgradable to at least 96GB. The exact configuration and amount of RAM depends on the number of users, applications and workload. |
| Controller:         | SAS/SATA internal RAID adapter, RAID 1/ 5 configurable   |
| Hard Disk:          | 1TB SATA upgradable to 3TB internally. Minimum 2 hot pluggable drives  |
| Chassis:            | Rack mountable   |
| CD-ROM:             | 16X DVD-ROM, internal.   |
| External Ports:     | 2 USB; 1 Keyboard port; 1 Mouse port   |
| Graphics:           | Integrated 64-bit graphics accelerator   |
| Monitor:            | 19" LCD (optional)   |
| Keyboards:          | 101 Key enhanced keyboard (optional)   |
| Mouse:              | 2 button digital mouse (optional)  |
| Network capability: | Integrated 10/100/1000BaseT Ethernet card Network  |
| Certification:      | Must be certified for compatibility with Microsoft Windows 2008 R2 and Windows Server 2012 R2 network operating systems.   |

Recommended

Brands: Compaq, Dell, and Hewlett-Packard. The actual brand selected should depend on the cost and availability of service and maintenance facilities in the country/city

**Minimum standards for wireless access points**

Wireless Standard: 802.11ac, 802.11n, 802.11g

SSID: SSID Broadcast Enable/Disable supported

Security: WEP 64bit, WPA-TKIP, WPA2-AES, WPA-Enterprise, and WPA2-Enterprise

Recommended

Brands: Cisco, Aruba Networks, Netgear, Belkin, DLink. Actual brand selection depends on cost, availability of service and maintenance facilities in the country/city.