

# DSAT 2010 Windows Hardware Recommendations

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## New Standards:

1. Last year we increased the performance and capability of the standard and the enhanced desktops. In order to make this financially feasible, we will move 60-80% of the workstations in the enhanced category to standard. We will also provide the enhanced desktops in the Engineering labs instead of providing a custom machine (ram upgrades will still apply)

### Standard PC Desktop

- Manufacturer: Dell
- Model: Optiplex
- Processor: **Core 2 Duo**
- Form factor: Small
- RAM: **2GB needed** 1 open slot
- HDD capacity: **at least 120 GB**
- HDD speed: 7200rpm
- CD/DVD device: CD-RW/DVD (Combo)
- Graphics: Dual Display Ready Preferred, Capable is required
- Graphics Ram: 128 Integrated
- NIC: 10/100/1000
- Wireless: none
- Speakers: none
- Mouse: Wheel - Yes, Infrared - Preferred
- Comm Ports:
- Display: 19" LCD
- Aspect : Wide
- Warranty: 3-year depot
- PCI slots / PCMCIA: 1 PCIe for expansion
- Weight: n/a
- Biometric device: not yet
- Energy Star: Preferred
- TPM Security: Optional
- Drivers: Windows XP and 7 Capable

### Enhanced PC Desktop

- Manufacturer: Dell
- Model: **Precision**
- Processor: **Core 2 Quad or better**
- Form factor: Mini Tower
- RAM: **4GB** (1 open slot preferred)
- HDD capacity: **160 GB minimum**
- HDD speed: 10,000rpm
- CD/DVD device: DVD-R (Super)
- Graphics: Dual Head, Digital DVI-I capable
- Graphics Ram: 256 Non Integrated
- NIC: 10/100/1000
- Wireless: none
- Speakers: none
- Mouse: Wheel - Yes, Infrared - Preferred
- Comm Ports:
- Display: 19" LCD (Digital if <\$\$)
- Aspect : Wide
- Warranty: 3-year depot
- PCI slots / PCMCIA: 1 PCIe for expansion
- Weight: n/a
- Biometric device: not yet
- Energy Star: Preferred
- TPM Security: Optional
- Drivers: Windows XP and 7 Capable

### Standard PC Laptop

- Manufacturer: Lenovo
- Model: Business class machines
- Processor: Core 2 Duo
- Form factor:
- RAM: **2GB**
- HDD capacity: >80GB if cost effective
- HDD speed: 5400 rpm
- CD/DVD device: CD-RW/DVD (Combo)
- Graphics: Extended Desktop possible with External Display
- Graphics Ram: 128 Integrated
- NIC: 10/100 minimum
- Wireless: 802.11 g minimum, **n preferred**, WPA2 capable
- WWAN: capable preferred
- Speakers: yes
- Mouse: prefer both touchpad and control point
- Comm Ports: 2 USB min. / VGA / serial not required / parallel not required / PS2 not required / modem not required
- Display: 15":WXGA
- Aspect : Wide
- Warranty: 3-year depot
- PCI slots / PCMCIA: 1 Type II Minimum
- Weight: target 6 or under
- Biometric device: not yet
- Energy Star: Preferred
- TPM Security: Required
- Drivers: Windows XP and 7 Capable

### Enhanced PC Laptop

- Manufacturer: Dell E-Series
- Model: Business class machines
- Processor: Core 2 Duo
- Form factor:
- RAM: **4GB** (1 open slot preferred)
- HDD capacity: 160 GB minimum or better if price is right
- HDD speed: 7200 rpm preferred (depending on price)
- CD/DVD device: **CD-RW/DVD** (Combo)
- Graphics: Extended Desktop possible with External Display
- Graphics Ram: **256 Discrete unless models are refreshed**
- NIC: 10/100/1000 preferred
- Wireless: 802.11 g minimum, **n preferred**, WPA2 capable
- WWAN: capable preferred
- Speakers: yes
- Mouse: prefer both touchpad and control point
- Comm Ports: 2 USB min. / VGA / serial not required / parallel not required / PS2 not required / modem not required
- Display: 15": **WUXGA**
- Aspect: Wide
- Warranty: 3-year depot
- PCI slots / PCMCIA: 1 Type II Minimum
- Weight: target 7 or under
- Biometric device: not yet
- Energy Star: Preferred
- TPM Security: Required
- Drivers: Windows XP and 7 Capable

### High Mobility PC Laptop

- Manufacturer: Dell E-Series
- Model: Business class machines
- Processor: Core 2 Duo
- Form factor:
- RAM: 2GB need 1 open slot
- HDD capacity: smallest recommended (cheapest)
- HDD speed: 5400 rpm
- CD/DVD device: **Combo**
- Graphics: Extended Desktop possible with External Display
- Graphics Ram: 128 Integrated
- NIC: 10/100 minimum
- Wireless: 802.11 g minimum, **n preferred**, WPA2 capable
- WWAN: capable preferred
- Speakers: yes
- Mouse: prefer both touchpad and control point
- Comm Ports: 2 USB preferred / VGA / serial not required / parallel not required / PS2 : not required / modem not required
- Display: **13.1"**: WXGA
- Aspect : Wide
- Warranty: 3-year depot
- PCI slots / PCMCIA: 1 Type II Minimum
- Weight: target under 4.5
- Biometric device: not yet
- Physical Security:
- Energy Star: Preferred
- TPM Security: Required
- Drivers: Windows XP and 7 Capable