Windows OS Laptop - Tablet			
Laptop(Tablet) - Technical Specification		**Minimum Requirements**	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM & Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Processor	*Minimum Speed (Ghz)*	2.5 Ghz
2		*TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant*	YES
3	Memory	*Minimum Speed (Mhz)*	1333 Mhz
4		*Minimum (GB)*	4
5	Display / Graphics	*Screen Size, Minimum (inches)*	12.1
6		*Minimum Resolution (pixels, h x v)*	1280X768
7		*Acceptable aspect ratios*	16:9 or 16:10
8		*Integrated graphics acceptable*	YES
9		*Dedicated video memory required*	NO
10		*Shared video memory accepted*	YES
11		*Graphics memory, mimimum*	512 MB
12	Mouse	*Multi-touch touchpad/pointer stick*	Required
13	Speaker	*Internal*	YES
14	Networking	*Wireless*	802.11g/n
15		*NIC speed, minimum (gbps)*	1 GB
16		*Support for FIPS 140-2 and IEEE 802.11*	YES
17	USB 2.0	*number of ports, minimum*	3
18	Primary Hard Drive	*Interface*	SATA
19		*Capacity, minimum (GB)*	250 GB
20		*RPM, minimum*	4200
21	Optical Device	*Interface for external CD/DVD*	YES
22	Battery/AC Adapter	*Cells, minimum*	6 cell count and required to support a minimum run time, on battery, of 5 hours
23		*EPA Energy Star rated*	YES
24	Security	*Smart card reader (Internal)*	YES
25	Operating Systems Supported	*Windows 7, Enterprise Ed.*	YES
26		MS Certified for Win 7 (32 and 64 bit)	YES
27	Docking Station	*Interface for port replicator*	YES

Windows OS Laptop - Light

Laptop(Light) - Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM & Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Processor	*Minimum Speed (Ghz)*	2.5Ghz
2		*TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant*	YES
3		*Minimum Number of Cores*	2
4	Memory	*Minimum Speed (Mhz)*	1333 Minimum
5		*Minimum (GB)*	4
6	Display / Graphics	*Screen Size, Minimum (inches)*	12.1
7		*Minimum Resolution (pixels, h x v)*	1366X768 (or greater)
8		*Acceptable aspect ratios*	16:9 or 16:10
9		*Integrated graphics acceptable*	YES
10		*Dedicated video memory required*	NO
11		*Shared video memory accepted*	YES
12		*Graphics memory, mimimum*	512 MB
13	Mouse	*Multi-touch touchpad/pointer stick*	Required
14	Speaker	*Internal*	YES
15	Networking	*Wireless*	802.11g/n
16		*NIC speed, minimum (gbps)*	1 GB
17		*Support for FIPS 140-2 and IEEE 802.11*	YES
18	USB 2.0	*number of ports, minimum*	2
19	Primary Hard Drive	*Interface*	SATA
20		*Capacity, minimum*	250 GB
21		*RPM, minimum*	7200
22	Integrated Camera, 720p HD resolution	*Present*	YES
23	Optical Device	*Interface for external CD/DVD*	YES
24	Battery/AC Adapter	*Cells, minimum*	cell count required to support a minimum run time, on battery, of 5 hours
25		*EPA Energy Star rated*	YES
26	Security	*Smart card reader (Internal)*	YES
27	Operating Systems Supported	*Windows 7, Enterprise Ed.*	YES
28		MS Certified for Win 7 (32 and 64 bit)	YES
29	Docking Station	*Interface for port replicator*	YES

Windows OS Laptop - Medium			
Laptop(Medium) - Technical Specification		**Minimum Requirements**	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM & Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Processor	*Minimum Speed (Ghz)*	2.5 Ghz
2		*TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant*	YES
3		*Minimum Number of Cores*	2
4	Memory	*Minimum Speed (Mhz)*	1333 Minimum
5		*Minimum (GB)*	4
6	Display / Graphics	*Screen Size, Minimum (inches)*	14
7		*Minimum Resolution (pixels, h x v)*	1366X768
8		*Acceptable aspect ratios*	16:9 or 16:10
9		*Integrated graphics acceptable*	YES
10		*Dedicated video memory required*	NO
11		*Shared video memory accepted*	YES
12		*Graphics memory, mimimum*	512 MB
13		*Dual-head/link support*	YES
14	Networking	*Wireless*	802.11g/n
15		*NIC speed, minimum (gbps)*	1 GB
16		*Support for FIPS 140-2 and IEEE 802.11*	YES
17	Monitor	*Privacy Filter*	YES
18	Speaker	Internal	YES
19	Keyboard	*Smart keyboard*	YES
20		*USB connected*	YES
21	Integrated Features	*Hot buttons/hot key sequence to permit enabling/disabling of wireless networks, speaker, external monitor*	YES
22		*Hot button/hot key sequence to permit enabling/disabling of touchpad*	YES
23	Mouse	*Multi-touch touchpad/pointer stick*	Required
24	Keyboard Illumination	*Backlit or other integrated keyboard lighting system*	YES
25	USB 2.0	*number of ports, minimum*	3
26	Integrated Camera, 720p HD resolution	*Present*	YES
27	Primary Hard Drive	*Interface*	SATA
28		*Capacity, minimum (GB)*	250
29		*RPM, minimum*	7200
30	Optical Device	8X DVD +/- RW	YES
31	Battery/AC Adapter	*Cells, minimum*	cell count required to support a minimum run time, on battery, of 5 hours
32		*EPA Energy Star rated*	YES
33	Security	*Smart card reader (Internal)*	YES
34	Operating Systems Supported	*Windows 7, Enterprise Ed.*	YES
35		*MS Certified for Win 7 (32 and 64 bit)*	YES
36	Docking Station	*Interface for port replicator*	YES
37		* VA requires 2 video outputs, either one of each or one VGA and multiple on the Digital on the larger docks is acceptable.	YES

Windows OS Laptop - Heavy

Laptop(Heavy) - Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM & Model/Part Number:**	
Reference Number	Parameter	Attribute	Value
1	Processor	Minimum Speed (Ghz)	2.5
2		TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant	YES
3		Number of Cores	QUAD
4	Memory	Minimum Speed (Mhz)	1333
5		Minimum (GB)	4
6	Display / Graphics	Screen Size, Minimum (inches)	17
7		Minimum Resolution (pixels, h x v)	1920x1080
8		Acceptable aspect ratios	16:9 or 16:10
9		Graphics memory, mimimum	512 MB
10		Dedicated video memory required	YES
11		Shared video memory accepted	NO
12		Dual-head support	YES
13	Speaker	Internal	YES
14	Integrated Features	Hot buttons/hot key sequence to permit enabling/disabling of wireless networks, speaker, external monitor	YES
15		Hot button/hot key sequence to permit enabling/disabling of touchpad	YES
16	Mouse	Multi-touch touchpad/pointer stick	Required
17	Networking	Wireless	802.11g/n
18		NIC speed, minimum (gbps)	1
19		Support for FIPS 140-2 and IEEE 802.11	YES
20	USB 2.0	number of ports, minimum	4
21	Integrated Camera, 720p HD resolution	present	YES
22	Primary Hard Drive	Interface	SATA
23		Capacity, minimum (GB)	250
24		RPM, minimum	7200
25	Optical Device	8X DVD +/- RW	YES
26	Battery/AC Adapter	Cells, minimum	cell count required to support a minimum run time, on battery, of 5 hours
27		EPA Energy Star rated	YES
28	Security	Smart card reader (Internal)	YES
29	Operating Systems Supported	Windows 7, Enterprise Ed.	YES
30		MS Certified for Win 7 (32 and 64 bit)	YES
31	Docking Station	Interface for port replicator	YES

Windows OS Laptop - Semi-Rugged

Laptop (Semi-Rugged) - Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM & Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Processor	Minimum Speed (Ghz)	2.5 Ghz
2		TPM Support: Desktop and Mobile Architecture for System Hardware (DASH) 1.1 or equivalent to include either Intel's vPro or AMD's DASH 1.1 compliant	YES
3		Minimum Number of Cores	2
4	Memory	Minimum Speed (Mhz)	1066
5		Minimum (GB)	4
6		Screen Size, Minimum (inches)	14
7	Display / Graphics	Minimum Resolution (pixels, h x v)	1366X768
8		Acceptable aspect ratios	16:9 or 16:10
9		Integrated graphics card	YES
10		Graphics memory, mimimum	512 MB
11		Dedicated video memory required	NO
12		Shared video memory accepted	YES
13	Networking	Wireless	802.11g/n
14		NIC speed, minimum (gbps)	1 GB
15		Support for FIPS 140-2 and IEEE 802.11	YES
16	Keyboard and Input	LED Backlighting	YES
17		Touchscreen LCD	YES
18		Keyboard Standard Sealed (to prevent water/dust damage)	YES
19		protective keyboard membrane	YES
20	Mouse	Multi-touch touchpad	Required
21	USB 2.0	number of ports, minimum	4
22	Speaker	Internal	YES
23	Integrated Camera, 720p HD resolution	Present	YES
24	Primary Hard Drive	Interface	SATA
25		Capacity, minimum (GB)	250
26		RPM, minimum	5400
27	Optical Device	Internal CD/DVD	YES
28	Battery/AC Adapter	Cells, minimum	cell count required to support a minimum run time, on battery, of 5 hours
29		EPA Energy Star rated	YES
30	Security	Smart card reader (Internal)	YES
31		Kensington Cable Lock slot	YES
32	Operating Systems Supported	Windows 7, Enterprise Ed.	YES
33		MS Certified for Win 7 (32 and 64 bit)	YES
34	Durability Features	* Modified drop resistant (from heights of 29 inches) * High-altitude pressure resistant * Vibration resistant * Splash resistant * Dust resistant * Operational temperature of -5 deg to 120 deg Farenheit	YES
35		Port covers	YES
36	Integrated Options	Backlit or front-lit keyboard lighting system	YES
37	Docking Station	Interface for Port Replicator	YES

Mac OS Laptop - Medium			
		Model/Part Number of machines that meet minimum requirements:	
	Technical Specification		Minimum Requirements
General Requirement			
Reference Number	**Parameter**	**Attribute**	**Medium (2.2GHz)**
1	Processor	*Minimum Speed (Ghz)*	2.2
2		*Number of Cores*	DUAL
3	Memory	*Minimum Speed (MHz)*	800
4		*Minimum (GB)*	4
5	Display / Graphics	*Screen Size, Minimum (inches)*	14"
6		*Minimum Resolution (pixels, h x v)*	1440X900
7		*Integrated graphics card*	YES
8		*Integrated graphics card Memory, minimum*	384
9		*Discrete graphics card*	YES
10		*Discrete graphics card Memore, minimum*	1 GB
11		*Wireless*	A+B+G+N
12	Mouse	*Multi-touch touchpad/pointer stick*	Required
13	Networking	*NIC speed, minimum (gbps)*	1
14		*Support for FIPS 140-2 and IEEE 802.11*	YES
15	BACKLIT KEYBOARD	*Backlit*	YES
16	WIRED KEYBOARD	*Integrated or wired - no wireless*	YES - integrated
17	USB 2.0	*number of ports, minimum*	2
18	Integrated Camera, 2.0MP	*Present*	YES
19	Primary Hard Drive	*Interface*	SATA
20		*Capacity, minimum (GB)*	320
21		*RPM, minimum*	5400
22	Optical Device	8X DVD +/- RW	YES
23	Battery/AC Adapter	*Cells, minimum*	Cell count required to support a minimum run time, on battery, of 5 hours
24		*EPA Energy Star rated*	YES
25	Operating Systems Supported	*OS X (latest commercially supported, e.g. 10.6 Snow Leopard or 10.7 Lion)*	YES
26		*REQUIREMENT DELETED*	

Mac OS Laptop - Heavy			
		Model/Part Number of machines that meet minimum requirements:	
	Technical Specification		Minimum Requirements
General Requirement			**Laptop**
Reference Number	**Parameter**	**Attribute**	**Heavy**
1	Processor	*Minimum Speed (Ghz)*	2.2
2		*Number of Cores*	QUAD
3	Memory	*Minimum Speed (MHz)*	800
4		*Minimum (GB)*	4
5	Display / Graphics	*Screen Size, Minimum (inches)*	17
6		*Minimum Resolution (pixels, h x v)*	1920x1200
7		*Integrated graphics card*	YES
8		*Integrated graphics card Memory, minimum*	384
9		*Discrete graphics card*	YES
10		*Discrete graphics card Memore, minimum*	1
11		*Wireless*	A+B+G+N
12	Mouse	*Multi-touch touchpad/pointer stick*	Required
13	Networking	*NIC speed, minimum (gbps)*	1
14		*Support for FIPS 140-2 and IEEE 802.11*	YES
15	BACKLIT KEYBOARD	*Backlit*	YES
16	WIRED KEYBOARD	*Integrated or wired - no wireless*	YES - integrated
17	USB 2.0	*number of ports, minimum*	2
18	Integrated Camera, 2.0MP	*Present*	YES
19	Primary Hard Drive	*Interface*	SATA
20		*Capacity, minimum (GB)*	500
21		*RPM, minimum*	5400
22	Optical Device	8X DVD +/- RW	YES
23	Battery/AC Adapter	*Cells, minimum*	Cell count required to support a minimum run time, on battery, of 5 hours
24		*EPA Energy Star rated*	YES
25	Operating Systems Supported	*OS X (latest commercially supported, e.g. 10.6 Snow Leopard or 10.7 Lion)*	YES
26		*REQUIREMENT DELETED*	

Mac OS Desktop			
		Model/Part Number of machines that meet minimum requirements:	
	Technical Specification		Minimum Requirements
General Requirement			**Desktop**
Reference Number	**Parameter**	**Attribute**	**All- in- One**
1	Processor	Minimum Speed (Ghz)	2.5
2		Number of Cores	QUAD
3	Memory	Minimum Speed (Mhz)	1333
4		Minimum (GB)	4
5	Display / Graphics	Screen Size, Minimum (inches)	21
6		Minimum Resolution (pixels, h x v)	1920x1080
7		REQUIREMENT DELETED	
8		REQUIREMENT DELETED	
9		Discrete graphics card	YES
10		Discrete graphics card Memore, minimum	512
11		Wireless	A+B+G+N
12	Mouse	Multi-touch touchpad/pointer stick	Required
13	Networking	NIC speed, minimum (gbps)	1
14		Support for FIPS 140-2 and IEEE 802.11	YES
15	BACKLIT KEYBOARD	Backlit	NO
16	WIRED KEYBOARD	Integrated or wired - no wireless	YES - must be specified.
17	USB 2.0	number of ports, minimum	4
18	Integrated Camera, 2.0MP	Present	YES
19	Primary Hard Drive	Interface	SATA
20		Capacity, minimum (GB)	500
21		RPM, minimum	7200
22	Optical Device	8X DVD +/- RW	YES
23	Battery/AC Adapter	Cells, minimum	NA
24		EPA Energy Star rated	YES
25	Operating Systems Supported	OS X (latest commercially supported, e.g. 10.6 Snow Leopard or 10.7 Lion)	YES
26		REQUIREMENT DELETED	

Windows OS Thin Client

Thin Client - Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		**OEM and Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Processor	*Minimum Speed (Ghz)*	1Ghz
2	Memory	*DDR (Minimum)*	2GB
3		*Flash (Minimum)*	2GB
4	Display / Graphics	*Display (Dual Display Support)*	1 VGA/1 DVI
5		*Resolution Support minimum*	1680x1050
6	Mouse	*USB*	Y
7	Keyboard	*USB*	Y
8	Networking	*Wireless (Optional)*	802.11 g/n
9		*Ethernet - 10/100/1000 Gigabit*	Y
10		*Support for FIPS 140-2 and IEEE 802.11*	Y
11	Media Drive	*CD/DVD*	N
12	USB 2.0	*Number of ports, minimum*	6
13	Power In	*EPA Energy Star rated*	Y
14	Security	*Smart card reader (Internal/external)*	Y
15		*(if external card reader it cannot take one of the required USD ports)*	
16	Height	*Minimum*	7"
17	Width	*Minimum*	1"
18	Depth	*Minimum*	8"
19	Operating Systems Supported	*Windows Embedded Standard 7*	
20	Virtualization Platforms Supported	*Citrix/Vmware/Microsoft*	

Monitors - Small			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Display	Minimum Viewable Size	18.5"
2	Display	Type	Widescreen
3	Display	Resolution (Minimum)	1366x768
4	Display	Display Position Adjustments	Tilt
5	Display	Minimum Response Time	5ms
6	Display	Aspect Ratio	16x9
7	Interface	VGA Input	Yes
8	Interface	DVI-D Input	Yes
9	Environmental	Energy Star Qualified	Yes

Monitors - Large			
Technical Specification		**Minimum Requirements**	
General Requirement - Model Proposed (Please include manufacturer's part number)		**Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Display	Minimum Viewable Size	21.5"
2	Display	Type	Widescreen
3	Display	Resolution (Minimum)	1920x1080
4	Display	Display Position Adjustments	Tilt
5	Display	Minimum Response Time	5ms
6	Display	Aspect Ratio	16x9
7	Interface	VGA Input	Yes
8	Interface	DVI-D Input	Yes
9	Environmental	Energy Star Qualified	Yes

Docking Station - Windows OS Laptop Tablet			
Technical Specification		**Minimum Requirements**	
General Requirement - Model Proposed (Please include manufacturer's part number)		**Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Docking Station	*Interface for port replicator*	YES
2		*REQUIREMENT DELETED*	
3		*Support for dual external monitors*	YES
4		*two (2) display ports, such as HDMI, VGA, DVI, and/or DisplayPort*	YES
5		*USB ports*	4
6		*Port for locking device to secure laptop to dock/replicator required*	YES
7		*Port for locking device to secure docking station/replicator to a fixed object (desk)*	YES
8		*NIC port*	YES
9		*Printer/Com Port*	YES
10		*Integrated 10/100 Ethernet LAN with RJ45 connector*	YES
11		*REQUIREMENT DELETED*	

Docking Station - Windows OS Laptop Light			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Docking Station	Interface for port replicator	YES
2		REQUIREMENT DELETED	
3		Support for dual external monitors	YES
4		two (2) display ports, such as HDMI, VGA, DVI, and/or DisplayPort	YES
5		USB ports	5
6		Port for locking device to secure laptop to dock/replicator required	YES
7		Port for locking device to secure docking station/replicator to a fixed object (desk)	YES
8		NIC port	YES
9		Printer/Com Port	YES
10		Integrated 10/100 Ethernet LAN with RJ45 connector	YES
11		REQUIREMENT DELETED	

Docking Station - Windows OS Laptop Medium			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Docking Station	Interface for port replicator	YES
2		REQUIREMENT DELETED	
3		Support for dual external monitors	YES
4		two (2) display ports, such as HDMI, VGA, DVI, and/or DisplayPort	YES
5		USB ports	5
6		Port for locking device to secure laptop to dock/replicator required	YES
7		Port for locking device to secure docking station/replicator to a fixed object (desk)	YES
8		NIC port	YES
9		Printer/Com Port	YES
10		Integrated 10/100 Ethernet LAN with RJ45 connector	YES
11		REQUIREMENT DELETED	

Docking Station - Windows OS Laptop Heavy			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Docking Station	*Interface for port replicator*	YES
2		*REQUIREMENT DELETED*	
3		*Support for dual external monitors*	YES
4		*two (2) display ports, such as HDMI, VGA, DVI, and/or DisplayPort*	YES
5		*USB ports*	5
6		*Port for locking device to secure laptop to dock/replicator required*	YES
7		*Port for locking device to secure docking station/replicator to a fixed object (desk)*	YES
8		*NIC port*	YES
9		*Printer/Com Port*	YES
10		*Integrated 10/100 Ethernet LAN with RJ45 connector*	YES
11		*REQUIREMENT DELETED*	

Docking Station - Windows OS Laptop Semi-Rugged			
Technical Specification		**Minimum Requirements**	
General Requirement - Model Proposed (Please include manufacturer's part number)		**Model/Part Number:**	
Reference Number	**Parameter**	**Attribute**	**Value**
1	Docking Station	*Interface for port replicator*	YES
2		*REQUIREMENT DELETED*	
3		*Support for dual external monitors*	YES
4		*two (2) display ports, such as HDMI, VGA, DVI, and/or DisplayPort*	YES
5		*USB ports*	5
6		*Port for locking device to secure laptop to dock/replicator required*	YES
7		*Port for locking device to secure docking station/replicator to a fixed object (desk)*	YES
8		*NIC port*	YES
9		*Printer/Com Port*	YES
10		*Integrated 10/100 Ethernet LAN with RJ45 connector*	YES
		REQUIREMENT DELETED	

Docking Station - Mac OS Laptop Medium			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Docking Station	Interface for port replicator	YES
2		REQUIREMENT DELETED	
3		REQUIREMENT DELETED	
4		One (1) display port, such as HDMI, VGA, DVI, and/or DisplayPort	YES
5		USB ports	5
6		Access to port for locking device to secure laptop to the desk when laptop is docked in dock/replicator	YES
7		REQUIREMENT DELETED	YES
8		NIC port	YES
9		Printer/Com Port (may use USB port)	YES
10		Integrated 10/100 Ethernet LAN with RJ45 connector	YES
11		REQUIREMENT DELETED	

Docking Station - Mac OS Laptop Heavy			
Technical Specification		Minimum Requirements	
General Requirement - Model Proposed (Please include manufacturer's part number)		Model/Part Number:	
Reference Number	Parameter	Attribute	Value
1	Docking Station	Interface for port replicator	YES
2		REQUIREMENT DELETED	
3		REQUIREMENT DELETED	
4		One (1) display port, such as HDMI, VGA, DVI, and/or DisplayPort	YES
5		USB ports	5
6		Access to port for locking device to secure laptop to the desk when laptop is docked in dock/replicator	YES
7		REQUIREMENT DELETED	YES
8		NIC port	YES
9		Printer/Com Port (may use USB port)	YES
10		Integrated 10/100 Ethernet LAN with RJ45 connector	YES
11		REQUIREMENT DELETED	