

WRAP ONLINE SYSTEM REQUIREMENTS

1 MIST Hardware and Software Requirements

1.1 Desktop and Laptop System Requirements

The following desktop and laptop devices can be used as MIST workstations.

1.1.1 Windows System Requirements

Category	Specification	Comments
Processor	<ul style="list-style-type: none"> Pentium 4 or later processor that supports SSE2 1 Ghz or greater 	
RAM	1 GB minimum (2 GB recommended)	
Operating Systems	Windows 7, 8 or 10	
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768 pixels, 32-bit color	
Supported Devices	Desktops, laptops	
Additional Required Hardware	Mouse, keyboard	
Supported Browsers	<ul style="list-style-type: none"> Internet Explorer 11 Firefox 37 and later Chrome 48 and later 	
Supported Secure Browsers	MIST Kiosk.exe, version 8.0	
Optional Software	Adobe Reader	

Notes

1. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.1.2 Macintosh System Requirements

Category	Specification	Comment
Processor	Any Intel x86-based Macintosh	
RAM	1 GB (2 GB recommended)	
Operating Systems	OS X 10.9 or later	
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768 pixels, 32-bit color	
Supported Devices	Desktops, laptops	
Additional Required Hardware	Mouse, keyboard	
Supported Browsers	Firefox 37 and later Chrome 48 and later Safari 9 and later	
Supported Secure Browser	MIST Kiosk	

Notes

1. The MIST Kiosk secure browser can be downloaded from the Proctor website.
2. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.1.3 Ubuntu Linux System Requirements

Category	Specification	Comment
Processor	Pentium 4 or later processor that supports SSE2.	
RAM	1 GB (2 GB recommended)	
Operating Systems	Ubuntu 12.04 LTS (kernel 3.2 or later) Ubuntu 14.04 LTS Ubuntu 16.04 LTS or later	<ul style="list-style-type: none"> • These operating system versions are supported only • 32-bit and 64-bit are supported
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768 pixels, 32-bit color	
Supported Devices	Desktops, laptops	Student tester devices must have <i>gsettings</i> and <i>gconftool</i> installed
Additional Required Hardware	Mouse, keyboard	
Supported Browsers	Firefox 37 and later Chrome 48 and later	
Supported Secure Browser	MIST Kiosk	

Notes

1. Student workstations must have *gsettings* and *gconftool* installed.
2. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.2 Tablet Requirements

The following tablets can be used as MIST workstations.

1.2.1 Android Tablets

Category	Specification	Comment
Processor	N/A	
Ram	N/A	
Operating System	Version 4.4 or later	
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768	Required
Supported Devices	Google Nexus Samsung Galaxy Note (ver. 10.1) Samsung Galaxy Tab 2 (ver. 10.1)	
Additional Required Hardware	External keyboard	Required. The keyboard <i>must</i> be enabled after installation
Supported Browsers	MIST Kiosk	Available at the Google Play Store
Supported Secure Browser	MIST Kiosk	Available at the Google Play Store

Notes

1. All tablets *require external keyboards*.
2. The keyboard *must* be enabled after the MIST Kiosk is installed onto the Android tablet.
3. All applications can be downloaded from the Proctor website.
4. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.2.2 Chromebooks

Category	Specification	Comment
Processor	N/A	
RAM	N/A	
Operating System	Chrome 48 or later	
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768	
Supported Devices	Chromebook	
Additional Required Hardware		
Supported Browsers	Chrome	
Supported Secure Browser	MIST Kiosk	Available at the Chrome Web store

Notes

1. Chromebooks *must* be managed in kiosk mode.
2. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.2.3 iPads

Category	Specification	Comment
Processor	N/A	
RAM	1 GB	Required
Operating System	iOS 9.3.2 or later	Required
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768	Required
Supported Devices	iPad 3 rd generation or later	Required
Additional Required Hardware	External keyboard	Required
Supported Browsers	Safari	
Supported Secure Browser	MIST Kiosk	Available at the App Store only.

Notes

1. All tablets *require external keyboards*.
2. All applications can be downloaded from the Proctor website.
3. A PDF viewer is required to read user guides and reports on the Proctor website.

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1.2.4 Windows Tablets

Category	Specification	Comment
Processor	<ul style="list-style-type: none"> Intel Atom X5 or later processor that supports SSE2 1 Ghz or greater 	
RAM	1 GB minimum (2 GB recommended)	
Operating System	Windows 7, 8 or 10	
Display	Size: 9.5 inch minimum, 32-bit color Minimum resolution: 1024 x 768	
Supported Devices	N/A	
Additional Required Hardware	External keyboard	
Supported Browsers	Internet Explorer 11 Firefox 37 or later Chrome 48 or later	
Supported Secure Browser	MIST Kiosk	

Notes

1. All tablets *require* external keyboards.
2. A PDF viewer is required to read user guides and reports on the Proctor website.
3. MIST is not supported on Windows RT or Windows tablets that have ARM processors.

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2 Network Requirements

Category	Specification	Comment
Bandwidth	Minimum: 25 kb/s per student Audio Accommodation: 150kb/ss per student	
Firewalls	Port 80 and 443 must be open.	Port 80 and 443 are used to communicate between the client and server during testing and proctoring
Proxy Server Bypass	The URL and IP address provided by the MI Project Manager IP address: 000.000.00.000 Port no: 443 (https) and 80 (http)	This information may be required to bypass a proxy server. The program asks for the URL address in the format specified

Notes

1. Network bandwidth capacity takes into consideration the following factors:
 - Number of student tester and proctor stations in the schools' computer labs
 - Total number of students (including proctors) that will be testing simultaneously
2. Special accessibility accommodations such as text-to-speech audio files must be taken into consideration when estimating network capacity.

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3 Voice Recognition and Speech-to-Text Software

MIST Kiosk is compatible with the following voice recognition and speech-to-text response applications.

Software	Version	OS	Add-On	Instructions
Windows Speech Recognition™	5.0	Windows 7, 8	Download Vocola 3.0	The microphone and volume must be on before starting MIST Kiosk
Dragon NaturallySpeaking™	11.0, 12, or 13	Windows 7, 8	None	The microphone and volume must be on before starting MIST
Dragon Dictate™	2.0 or later	OS X 10.6 or later	None	The microphone and volume must be on before starting MIST Kiosk

Notes

1. Work with the Project Manager to plan for and implement accessibility features.
2. Most special keyboards are compatible with MIST Kiosk when used with properly configured workstations. Work with the MI Project Manager to select and configure workstations with keyboards.
3. Touch screen monitors that meet the stated minimum resolution and system requirements for the workstation device are compatible with MIST Kiosk. Work with the MI Project Manager to select and configure workstations with touch screen monitors.