



MEASUREMENT INCORPORATED

Measurement Incorporated Secure Testing (MIST™)

Technical Guide for CMT and CAPT

Overview

How do I prepare for online testing using MIST?

This guide outlines the basic steps required to download and install the MIST application onto the testing computers at your school. It also includes the minimum technical specifications and information to determine the compatibility of supported hardware and software tools with the MIST application.

Preparing for online testing

This guide includes the following references to help prepare for MIST online testing.

- **Appendix A** – Online Assessment Technical Specifications
- **Appendix B** – MIST-Supported Hardware/Software Tools

To ensure that each school is ready for MIST online testing, complete the following tasks:

1. Review the MIST technical specifications in Appendix A for Windows, Macintosh and Linux to initially confirm that all testing computers meet the minimum hardware and software requirements.
2. Verify that all firewalls and proxy servers are configured to allow access to MIST servers.
3. Follow the steps in **Downloading the application** on page 3 to download MIST.
4. Optionally, you can check MIST compatibility with your network configuration by following the steps outlined in **MIST Compatibility** on page 6.
5. Review Appendix B for information related to the compatibility of hardware and software testing tools that are supported by MIST.

If you have any questions or concerns about preparing for online testing, please contact the MIST Technical Support Desk at (866) 691-1148 for assistance.

Downloading the application



This procedure must be performed by a technical staff person with the administrative privileges to install software on school computers. To download the MIST application, complete the following steps:

1. Open a supported browser (see Appendix A) on a network computer.
2. Type <https://mist.measinc.com> in the address field at the top of the browser window and press **Enter** to access the MIST Proctor Sign In page.

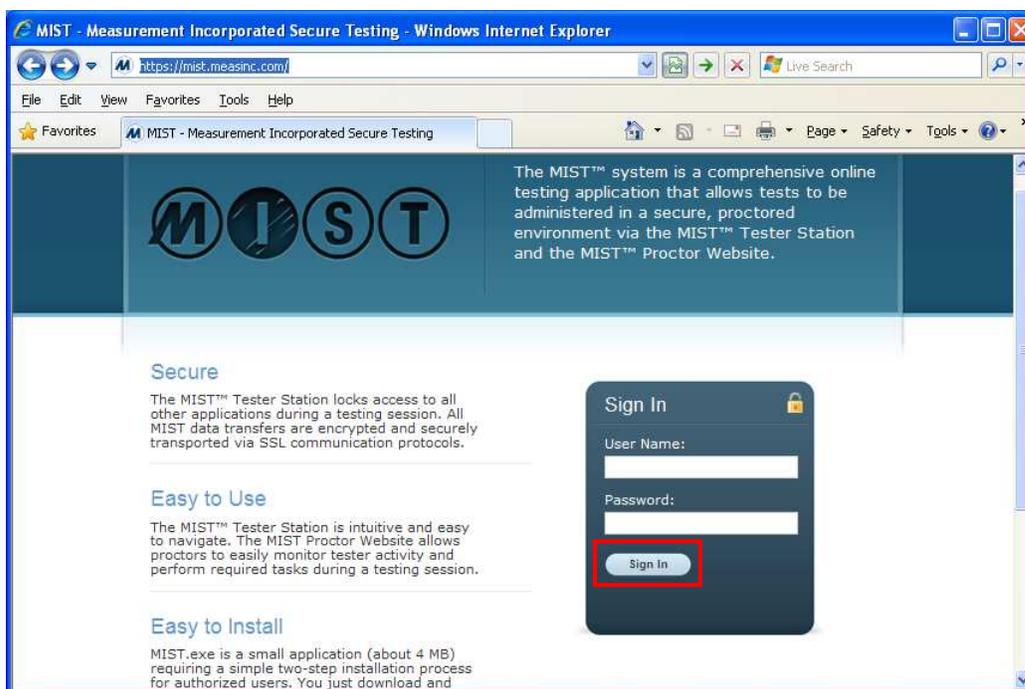


FIGURE 1 – MIST Proctor Sign In page

3. Type the user name and password you received from Measurement Incorporated in the applicable fields, then click **Sign In**.

If you do not know the username and password, contact the MIST Technical Support Desk at (866) 691-1148 for assistance.

4. On the Test Activity page, click the **Downloads** link on the left menu.

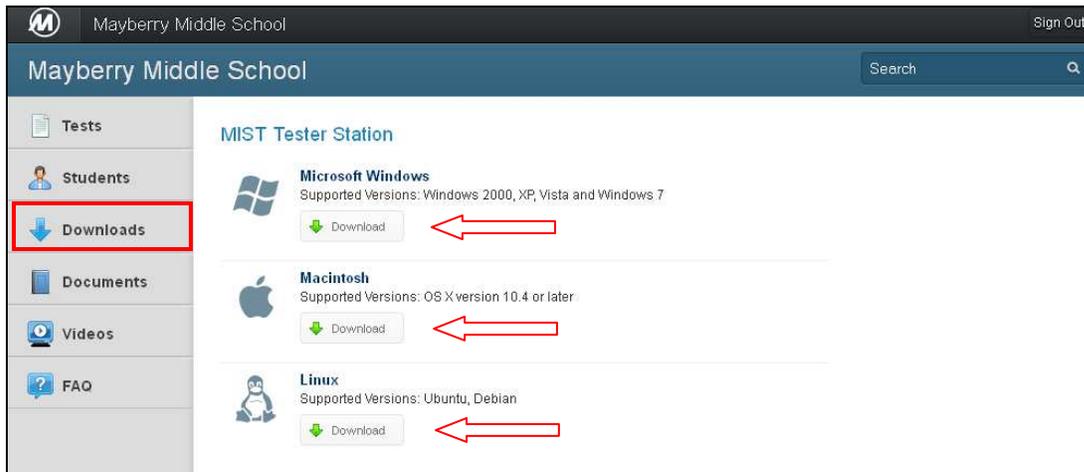


FIGURE 2 - Proctor Downloads page

5. On the Downloads page, click to select the Microsoft Windows, Macintosh, or Linux **Download** button, depending on the computer's operating system.
For Windows, a stand-alone application (MIST.EXE) will download (as shown in FIGURE 3). For Macintosh, a compressed file (MIST.zip) will download and automatically expand to an application file (MIST.app). For Linux, a package will download (MIST.deb) that must be installed by a system administrator.
6. When the File Download dialog box appears, click **Save**. [NOTE: Steps 6 through 8 may require additional action in accordance with the computer's operating system]

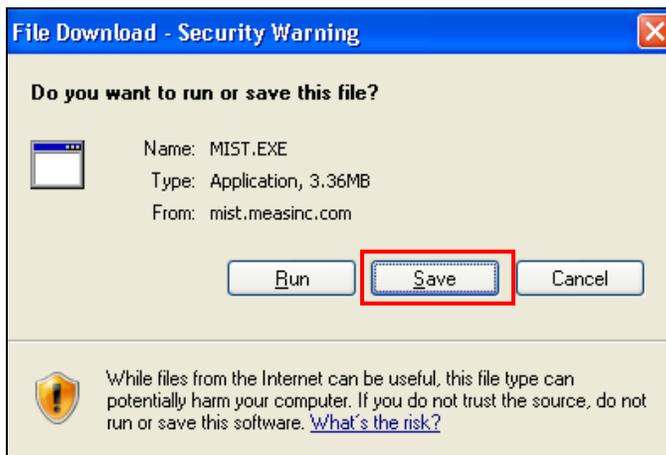
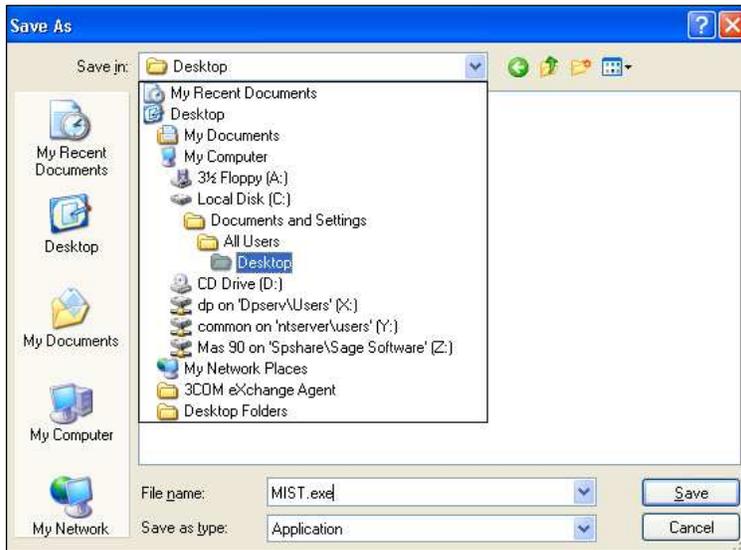


FIGURE 3 - Windows File Download dialog box

7. From the Save As dialog box,
 - a. Click on My Computer.
 - b. Double-click on C: drive, then *Documents and Settings*, then *All Users*, and finally *Desktop*.
 - c. Click **Save**.



Step 7 ensures that MIST is available for all users regardless of their permission levels.

FIGURE 4 – Saving the applet to the All Users desktop

An icon for the application is displayed on the computer’s desktop.



8. Double-click the new icon to run MIST.



When the MIST Login screen appears, you have successfully installed MIST (see FIGURE 5). Click **Cancel**.

If the MIST Login screen does not appear, follow the instructions displayed on the screen.

FIGURE 5 – MIST Login screen



If you continue to have downloading problems, contact the MIST Technical Support Desk at (866) 691-1148 for additional assistance.

9. Repeat steps 1 through 8 to download MIST onto the *All Users* desktop of each testing computer.

-or-

Since MIST is a stand-alone application, it can be downloaded once and then deployed across the network using any available network management tools.

MIST Compatibility

We have set up a test to check MIST's compatibility with your network configuration. To run MIST on your testing computers, complete the following steps.

1. Double-click the new icon on your computer's desktop.
2. When the MIST Login screen appears, type the following username and password in the appropriate fields.
For CMT:
Username: admin2014
Password: admin2014
For CAPT:
Username: cadmin2014
Password: cadmin2014
3. Click on a name on the MIST Student Selection screen and click **NEXT**.
4. Click on "MIST System Check" on the MIST Test Selection screen and click **NEXT**.
5. Click **CONFIRM** on the MIST Confirmation screen.
6. Click **START TEST** on the Welcome screen.
7. Click **NEXT** to navigate to the next screen and click **FINISH** when you are finished.
8. Click **EXIT** and then **CLOSE** to close the application.

NOTE

For districts that use Ncomputing virtual desktop software or other thin client networking tools, we recommend running MIST concurrently on twice the number of clients as the number of servers supporting the backend of your thin client network. This way each thin client server is experiencing the work load of multiple MIST testers. If you have any questions, contact the MIST Technical Support Desk at (866) 691-1148 for additional assistance.

APPENDIX A

**Online Assessment
Technical Specifications**

MIST Technical Specifications

System Requirements for Windows

Category	Specification
Processor	Pentium® II 450 MHz PC or faster
RAM	256 MB
Operating Systems	Windows XP, Vista, and 7
Internet Browsers*	Microsoft Internet Explorer 8.0 or later Firefox 8.0 or later Chrome 16.0 or later Safari 4.0 or later
Resolution	800 x 600 pixels, 16-bit color
Internet Access	High-speed internet (T1 or higher recommended)
Additional Hardware Requirements	Mouse Keyboard
Installed Software	Adobe Reader and Quick Time**

System Requirements for Macintosh

Category	Specification
Processor	PowerPC® G3 500MHz or faster Any Intel x86-based Macintosh
RAM	256 MB
Operating Systems	Mac OS X v10.4 or later
Internet Browsers*	Firefox 8.0 or later Chrome 16.0 or later Safari 4.0 or later
Resolution	800 x 600 pixels, 16-bit color
Internet Access	High-speed internet (T1 or higher recommended)
Additional Hardware Requirements	Mouse Keyboard
Installed Software	Adobe Reader and Quick Time**

* A browser is not required to run MIST. The browser is only required to download the application and proctor tests.

** Adobe Reader and Quick Time are not required to run MIST. The add-ons are only required to read the user guide, view reports, or view the MIST Instructional Videos during a proctoring session.

MIST Technical Specifications

System Requirements for Linux

Category	Specification
Processor	Pentium® II 450 MHz PC or faster
RAM	256 MB
Operating Systems	Ubuntu 9.04 or later (kernel 2.6.28 or later)
Internet Browsers*	Firefox 8.0 or later Chrome 16.0 or later
Resolution	800 x 600 pixels, 16-bit color
Internet Access	High-speed internet (T1 or higher recommended)
Additional Hardware Requirements	Mouse Keyboard
Installed Software	Adobe Reader**

* A browser is not required to run MIST. The browser is only required to download the application and proctor tests.

** Adobe Reader is not required to run MIST. It is only required to read the user guide and view reports during a proctoring session.

Network Requirements

Category	Specification	Description
Bandwidth	1500 kb/s for every 30 computers (T1 or higher recommended)	Bandwidth requirements may increase based on the number of students and size of test administration.
Firewalls	Port 80 and 443 must be open.	Port 80 and 443 are used to establish a connection, and are used during the test. Web services are used for communication between the client and server during testing and proctoring.
Proxy Server Bypass	URL address: https://mist.measinc.com IP address: 96.45.112.226 Port no: 443 (https)	This information may be required to bypass a proxy server. The program asks for the URL address in the format specified.
Executable	<i>md5sum=</i> 9593fed11d4a32dd7e7eb31efb65e266 <i>sha1sum=</i> 36a07e456c7c21190f99898d9fd1386920ce024d	This information may be required to verify whether the MIST executable has been modified.

APPENDIX B

**MIST-Supported
Hardware/Software Tools**

Hardware/Software Supported by MIST

Voice Recognition or Speech-to-Text Software

The MIST application is compatible with the following software packages for students requiring a Voice Recognition or Speech-to-Text response accommodation.

Software	Version	OS	Software Add-on	Additional Instructions
Windows Speech Recognition™	5.0	Windows XP	For XP w/ Office 7: Download Speech SDK 5.1	<ol style="list-style-type: none"> 1. Open the Control Panel 2. Click Regional and Language Options 3. Click the Languages tab 4. Click the Details button 5. Click the Advanced tab 6. Click to check the "Extend support of advanced text services to all programs" property 7. Reboot your computer 8. Dictation must be "on" before starting the MIST Tester Station
Windows Speech Recognition™	5.0	Vista, Windows 7	Download Vocola 3™	<p>For Windows 7, follow steps to turn on required Vocola option to support dictation:</p> <ol style="list-style-type: none"> 1. Right-click the green Vocola icon in the system tray. 2. Select "Options". 3. Click the checkbox labeled "Enable Vocola dictation by disabling WSR dictation scratchpad." 4. Click the OK button. 5. Exit Windows Speech Recognition and re-launch it.
Dragon NaturallySpeaking™	10.0	Windows XP	None	The microphone and volume must be "on" before starting the MIST Tester Station (MIST.exe)
Dragon NaturallySpeaking™	11.0	Vista, XP, Windows 7	None	The microphone and volume must be "on" before starting the MIST Tester Station (MIST.exe)
Dragon Dictate™	2.0	10.6 or later	None	The microphone and volume must be "on" before starting the MIST Tester Station (MIST.exe)
MacSpeech Dictate™	1.5	10.5		

Text Reader and Text Magnification

Both a Text Reader and Text Magnification function is available on the MIST application for students requiring a Reader and Large Print presentation accommodation, respectively. However, the Text Reader function may not be enabled for all test administrations. The Text Magnification function allows students to zoom out (make the text smaller) or zoom in (make the text larger) for easier viewing. The zoom levels include 0.65x, 0.8x, 1.0x, 1.25x, 1.6x, and 2.0x.

Special Keyboards

Most special keyboards (e.g., Intellikeys™) are compatible with the MIST application and should work properly on machines that meet the minimum OS requirements (see ***MIST Technical Specifications***).

Sticky Keys

For additional accessibility and ease-of-use, Sticky Keys (Ctrl, Alt, and Shift) are compatible with MIST and can be turned "on" (according to your operating system instructions) prior to setting up a Tester Station.

Touch Screen Monitors

Most touch screen monitors (e.g., Hyvision MV155 Touch LCD) that meet the minimum resolution requirements (see ***MIST Technical Specifications***) are compatible with the MIST application and should work properly on machines that meet the minimum OS requirements.

**If you have any questions or require additional assistance, contact the
MIST Technical Support Desk
1-866-691-1148**