

eMetric

SDAP IT Infrastructure Training

Technology Coordinator **Responsibilities:**

- **Review** iTester installation training guides and attend training.
 - Ensure your facilities meet the required technical specifications.
- **Prepare** computer labs/computers for testing.
 - Install iTester Client.
 - Perform testing to ensure successful installation (Workstation Readiness and Site Certification).
 - Troubleshoot technology problems at the district level (network configurations, etc.).
- **Communicate** with Test Coordinators.
 - Discuss testing timeframe and scheduling to ensure installation is complete on time.
 - Determine which labs/computers will be utilized.
 - Assist in the coordination of online test training for participating students (practice tests)

Technology Coordinator **Timeline:**

- Training: **September 2011**
- iTester installation: **September/October 2011.**
(Note: Installation and Site Certification must be complete prior to the EOC testing window if you plan on testing EOCs online)

Training Opportunities:

- Webinars
 - Multiple webinars offered at various times. These webinars will be recorded for later review.
- Documentation
 - System requirements, installation procedures, and all other required tasks will be documented for reference and review.

iTester Client Requirements:

- Hardware Requirements:
 - Pentium III 700 MHz or equivalent processors for PCs and PowerPC G3 400 MHz for Mac
 - 256 MB RAM
 - VGA Display supporting at least 1024 X 768 resolution
 - Mouse/Trackball
 - Keyboard
- Operating Systems:
 - Windows 2000 SP4, Windows XP SP1, Windows Vista, Windows 7; Mac OSX 10.4 and above
 - Java Runtime Environment 1.5 from Sun Microsystems
 - Updated graphics drivers
 - Workstations with ATI integrated graphics must have ATI Catalyst drivers version 9.3 or newer installed.

iTester Installation:

- Network install (Recommended)
- Local Workstation install

Application Update:

- Application checks for minimum supported version on launch.
- Check for latest version by running `updater.exe`

iTester Client Generated files:

- Write to userprofile folder (default) or a configured location (recommended) (eg:- Network Folder) with userprofile as fallback
- File Types
 - Encrypted backup (.beitr) files to \iTester_SD\responses\backups
 - Encrypted response (.eitr) files to \iTester_SD\responses, written only if the client is unable to reach the server
 - Log files capture events that occur during testing, \iTester_SD\Logs
- Rationale – offline support for student responses

Testing Environment (Do NOTs):

- The application will fail to launch in labs where test takers share the same physical userprofile location (eg:- students login to thin client workstations with common user credentials)
 - iTester client extracts the application files to a temporary folder in the userprofile directory and launches it from there.
 - iTester client uses the userprofile folder to ensure only one running instance of the application.
- Run resource intensive processes in the background while testing.

Testing Environment (DOs):

- Firewalls
 - Local workstation and network level should allow Java connectivity on ports 80 and 443.
- Proxy and content filter servers
 - Allow access to `sdap.emetric.net` on ports 80 and 443.
- Sandboxing applications (i.e. DeepFreeze)
 - While installing the Client, choose network folder location for storing log files and encrypted response files (recommended).
 - Make sure the `iTester_SD` folder and its contents in the userprofile folder are not deleted by these applications.
- Thin Clients
 - Ensure there is enough memory, CPU, and bandwidth on the server to accommodate multiple student test sessions
 - Client requires a minimum of 60 MB per Client session

Testing Environment: Calculating the number of simultaneous test starts

For a typical DSL connection: Available Bandwidth: 1500 Kbits/sec (This is variable depending on the type of connection available at each site)

To calculate the number of simultaneous students (x) that can start testing within a timeframe (y) of 60 sec (used as an example), when all students click on a '**Session**' at the same exact time on the clock is:

Bandwidth available in 60 (y) sec = 1500 Kbits/sec X 60 sec = 90,000 Kbits

Average Test Resource Size= 1216 Kbits (Example, varies by test)

Number of Students (x) = $90,000/1216 = 74$ (approx)

Over a minute, up to 74 students in a school with a shared T1 connection may simultaneously download and begin a typical test.

iTester Client Install Demo

SDAP Training: Takeaways for technology personnel

- Attend training sessions and review training material.
- Install the iTester Client and complete readiness testing as far in advance as possible.
- Maintain open lines of communication with district/school level personnel (administrators, test coordinators, and proctors).
- If you encounter a problem and are unsure of what to do, call eMetric support while the student is still on the computer.

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Questions/Feedback???