

Online Test Delivery



*Introducing computer efficiency
and security into large-scale assessment*





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A comprehensive approach to online test delivery ● ● ● ● ●

PEMSolutions™ (Pearson Educational Measurement Solutions) provides a comprehensive approach to assessment that includes a Web-based system delivering over a million tests annually while meeting the security requirements of high-stakes, large-scale assessment programs. Our Assessment Network can help you successfully transition to online testing with our proven experience in preparing your infrastructure and our student-friendly test interface.

Online test delivery can help your assessment program move away from the labor-consuming burden of paper-and-pencil tests. PEMSolutions Assessment Network features pioneering technologies to help you administer tests on demand and get results back quickly.

Benefits

- **More Scheduling Options.** Match testing schedules to semesters, blocks, or end-of-course programs.
- **Increase Participation.** Add students to a test session up until the day of administration and give makeup tests to help meet participation and graduation goals.
- **Reduced Anxiety Improves Student Performance.** Easy-to-use interface improves motivation and concentration. Innovative use of color, animation, and sound enhance the test-taking experience.
- **Tests Up and Running Sooner.** Eliminate the hassles of printed enrollment deadlines, material orders, printing, packaging, and delivery.
- **Faster Turnaround.** Get rapid reporting of results from selected-response and performance-based items, including automated essay scoring.
- **Full Setup and Support.** Expert guidance and support prepare your existing network infrastructure for successful implementation and administration.
- **Increased Security.** Decreased handling of printed items increases security. Accidental exposure of testing materials is virtually eliminated.
- **Reduced Time and Effort.** Eliminate the storage, logistics, labor, and time involved with paper tests.
- **Test with Minimal Disruption.** Our system isolates test computers from network fluctuations and is tolerant of temporary network outages.





Online Test Delivery

The Assessment Network represents a strong investment in the future of online, computer-based testing by creating not just technology but a comprehensive solution for online test administration and delivery. The Assessment Network offers consistently high levels of quality and accuracy by incorporating the same high standards applied to paper-based testing.

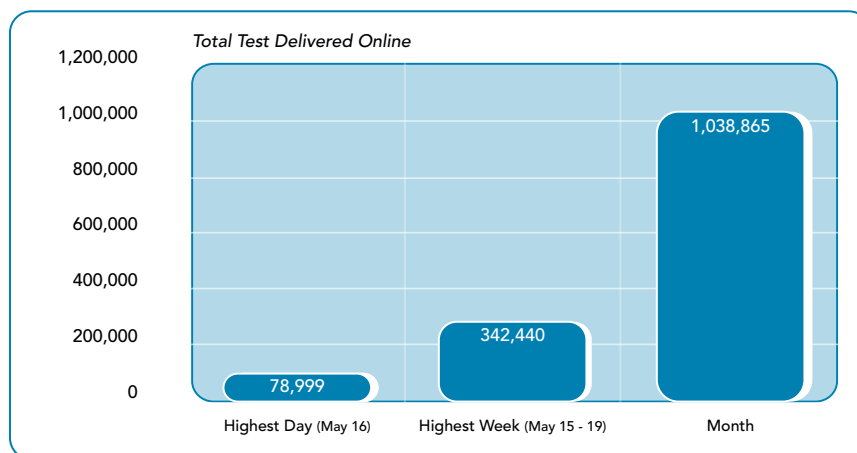
CMM Level IV

To our knowledge, Pearson Educational Measurement is the only organization in the high-stakes testing industry to be formally assessed at Level IV (out of five) on SEI's Capability Maturity Model (CMM), a level only eight percent of all software development organizations in the country have achieved.

Features

Student Data Management	Add and manage group (e.g., districts, schools, classes) and individual student data right up to the day of test administration. Data that is extracted from school, district, and state databases can be easily loaded via a secure electronic transfer.
Test Administration Management	Set the parameters of each test administration by assigning tests and forms, and establishing dates and times for when tests are available.
Test Session Management	Create test sessions, assign students to those sessions, and closely monitor the session before, during, and after testing.
Security	Assign and manage user access and privileges.
TestNav™ Test Delivery	Deliver tests securely and dependably with a student-friendly interface that enhances the test-taking experience.

MAY, 2006 – PEAK TESTING SEASON



Test Presentation

Recent surveys show that today's students are completely at home in a digital environment, where a keyboard, mouse, navigation buttons, toolbars, and point-and-click skills are familiar tools. The TestNav test delivery system of the Assessment Network uses these tools in a student friendly interface that is comfortable for all computer literacy levels.

- Test items are presented one at a time to provide less distraction to the student.
- Stimuli, such as reading passages or story problem artwork, appear in an adjustable split screen format for easy accessibility and reference. Audio versions can also be made available.
- Reading passages can be scrollable or split into traditional page lengths to accommodate testing preferences.
- Response selection can be by keyboard, or mouse-clicking on a radio button or the response itself to meet student preferences.
- Navigation dashboard lets students move forward and backward through the test, as well as mark items for later review, so they can manage time and pace better.
- Menu icons give students access to approved test taking tools when appropriate, such as a calculator, drawing/graphing tools, ruler, compass, highlighter, eraser, and exhibits (e.g., passages, periodic table, or mathematical formulas), mimicking the paper environment.
- Test formats can be linear or adaptive.
- Multiple item types can be accommodated to replicate current test formats.
 - Multiple choice
 - Multiple selection
 - Short response
 - Gridded response
 - Extended response (essay)

Added Features

The Assessment Network provides industry-leading functionality and continues to develop improvements to our online testing solution to better serve our customers.

- Seamless coordination with performance scoring
- Technology accommodations for students with disabilities
- New tools for graphing, charting, hot spots, and flood with color
- Split sessions for two day testing
- Integration of new technologies, such as Anoto and Tablet PC

Preparing Students

While most students today are computer proficient, we recognize the need for educators and parents to be assured that students are completely familiar with the TestNav interface before testing begins. The Assessment Network provides various methods for students to use to become comfortable with the system.

- **Instructional, Non-interactive Tutorial.** Uses narration, visual cues, and on-screen messages to show students how to logon and begin a test, answer an item, navigate through a test, use the various tools, and review answers prior to completion.
- **eTools Live Custom CD-ROM.** Illustrated training resource that allows students to practice with the test tools in a non-testing environment and at their own pace.
- **Practice Tests.** Similar in content, difficulty, and design to an actual assessment, allowing student to have further exposure to the system in addition to specific directions or instructions that govern the real test.



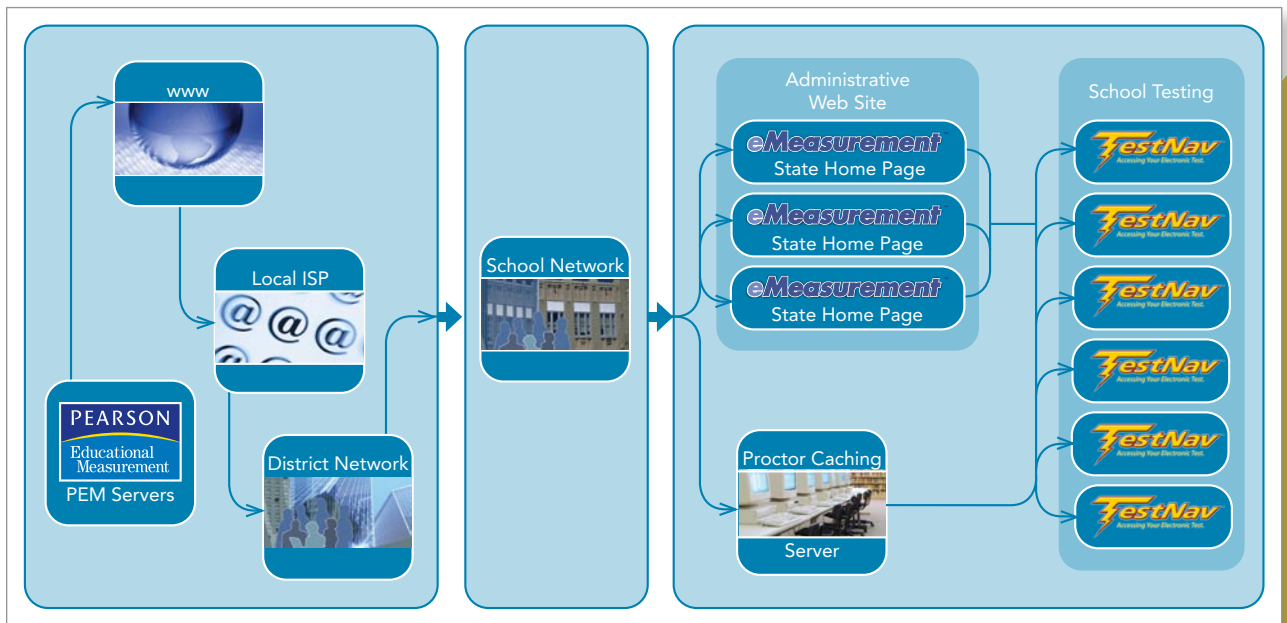


School Readiness Assessment

The Assessment Network offers a quick readiness assessment to test each school's infrastructure prior to live administration. Using a wizard-like interface, each school enters information about their infrastructure, which the assessment uses to conduct simple tests of network connectivity and bandwidth. The assessment returns an overall appraisal of the school's readiness for online testing that can be used for planning and scheduling. When used in conjunction with other verification checklists, a transition to online testing can be both practical and successful.

Reduced Bandwidth

Bandwidth is a precious commodity when you are talking about delivering content over a network. The Assessment Network, based on years of successful, large-scale implementation of online testing, solves bandwidth bottlenecks through a solution called proctor caching. Proctor caching uses a single, secure workstation on a school's network to temporarily store an encrypted file of the test, then stage test content to the testing computers where it is unencrypted. This staging of test content accelerates the delivery of the test and reduces the amount of bandwidth required. Reduced bandwidth means more students can be taking a test at one time.



A proctor caching server helps speed test delivery and protects against outages or slowdowns in Internet service.

*To learn how to put the power and convenience of
PEMSolutions distributed scoring to work for you, visit
<http://www.PEMSolutions.com> or call 1-800-627-0365.*

