

Caveon Data Forensics™



Whether you already know that your test program has been breached or you just found out how vulnerable it is, you need to know the nature and extent of the problem. Caveon Data Forensics™ gives you that knowledge—and more control than you’ve ever had before—to challenge cheaters head-on.

Like other criminals, cheaters leave clues, often in the form of hard-to-detect patterns that can appear on individual tests, within a specific testing site, or worldwide. For some time there has been a significant need for technologies that can quickly and continuously quantify, verify, and control exam compromise to protect both the value of the test and the reputations of the test publisher or administrator. Until recently, however, no adequate avenue was available for spotting the aberrant patterns that can indicate cheating or test fraud.

Now Caveon has developed proprietary, forensic methods to monitor test data for anomalies and response patterns that may indicate fraud. These methods provide clues—and even strong evidence—of the presence of test fraud, including where and when it’s occurring and who may be involved. Since all statistical procedures are subject to error, actual fraud must be confirmed by direct observation. Our methods are sensitive to those who steal questions and those who use memorized material while taking exams.

Caveon is actively pursuing and researching methods that will provide evidence of proxy test-taking and test coaching. Caveon’s commitment to research means you will have access to the latest tools in expanding your forensics arsenal.

What Are Caveon Data Forensics?

Caveon statisticians and psychometricians have developed and continue to develop proprietary statistical tools and methods that are particularly sensitive to aberrant test-taker patterns. These tools turn cheaters’ clues into useful information about the data so you can secure your tests.

Caveon Data Forensics returns three basic types of detailed reports to give you a snapshot of what is happening once your test is “out there.”

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Reports let you see just where your test program stands:

- **Temporal report.** Shows aberrance, which indicates piracy and cheating.
- **Geographical report.** Shows where aberrant test scores are appearing.
- **Examinee report.** Identifies who is compromising your tests.

You have control of your program because you can track and measure its performance:

Temporal Report

Provides periodic data so you can see when natural test drift occurs and when results become aberrant, indicating the possibility of piracy and cheating. If the program is in good shape—it's not drifting too far—tests won't have to be redeveloped as early as you had planned. If the test results are aberrant, it may be in your best interests to pull and redevelop the tests earlier than planned. Either way, you can make an informed decision about the best course of action.

Geographical Report

Identifies in which locations aberrant test scores are appearing. For example, if hundreds of examinees in a certain geographic area score well above the norm on the same test, you should be suspicious and investigate further.

Examinee Report

Indicates who may be compromising your tests. Proxy test-takers leave clues, like cheaters do, and the Examinee report helps you identify them.

Aberrance shows up in many ways, and with Caveon Data Forensics you'll see it. And because the reports you receive are detailed, they provide needed documentation and evidence should you pursue legal action against individuals or entities that pirate or cheat on your tests.

What If I Need More?

Beyond Caveon Data Forensics, Caveon also offers Advanced Analysis Services. This includes access to Caveon Security Directors who drill into critical data to understand the nature of the suspected test compromise. The services provide you with access to psychometricians and statisticians to formulate and estimate detailed models for gaining a deeper view of the potential compromise.

Caveon, pronounced kav-eh-on, comes from the latin word caveo which means "to be on guard against", "to take care of", "to beware", and "to give security."

Caveon offers comprehensive services to combat test fraud and piracy with **detection** services to identify security breaches, **remediation** services to confirm suspicions and leverage legal processes to halt abuses of sensitive test information, and **prevention** services to secure tests from compromise.

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