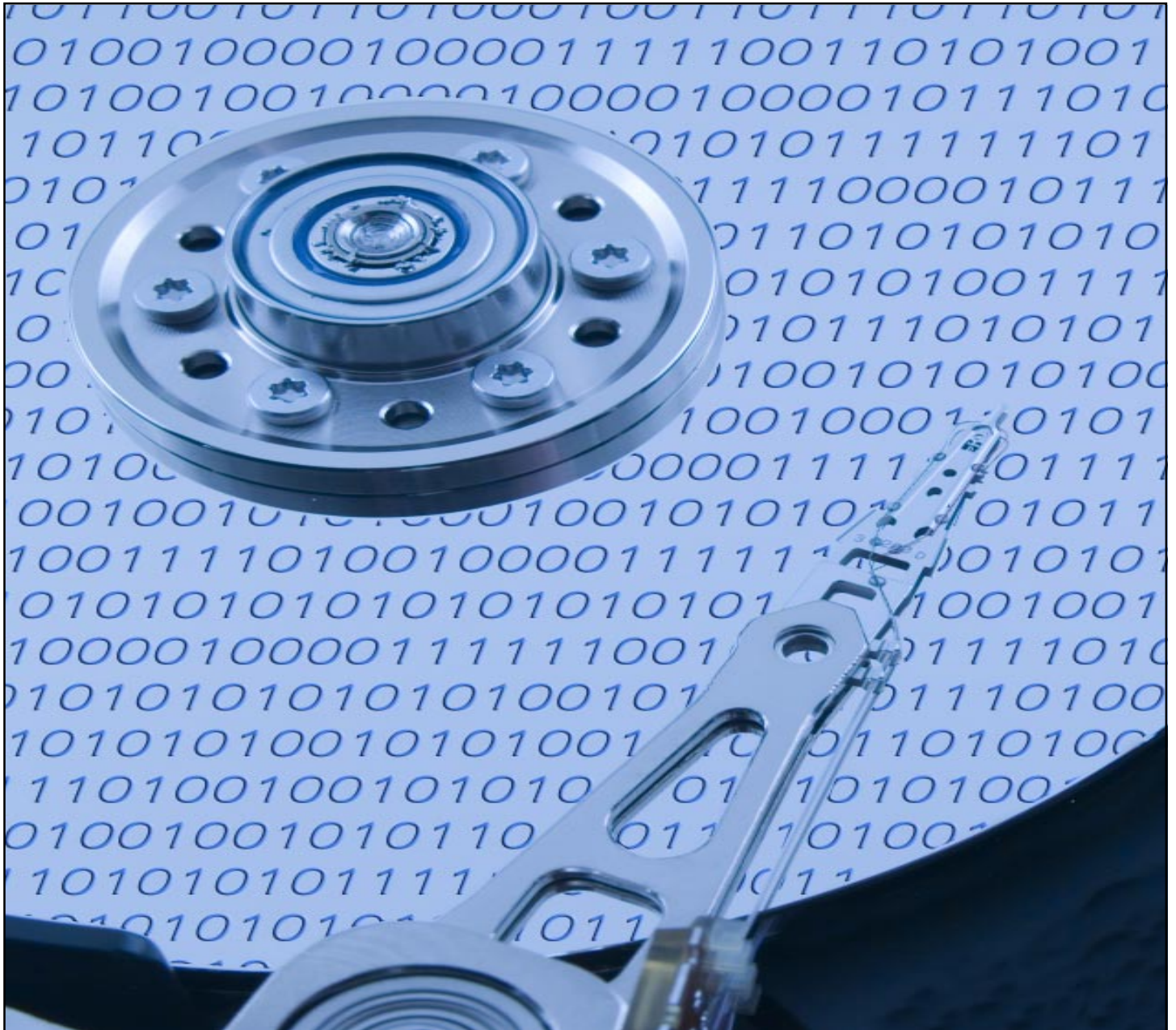




Data Forensics



**When You Need To Find Out
Who, What, When, Where and How**

When You Need To Find Out How Computer Related Conduct Has Affected Your Operations

What JANUS Does

JANUS helps you find the key pieces of digital evidence that someone else may have attempted to hide, tamper, or destroy.

JANUS' data forensic professionals will assist you by:

- Preserving the integrity and admissibility of evidence with best practices chain of custody protocols, and mirror imaging technology;
- Recovering data lost due to hardware and/or software malfunction or by attempted deliberate destruction;
- Cracking passwords, protected or encrypted files;
- Recreating computer events in chronological sequence to demonstrate possible motive and intent;
- Providing your organization with court admissible information should prosecution be necessary.



"Now that I've reformatted this drive they'll never catch me."

Understanding what data forensics is and when you need to use it represents an important first step should a situation arise. JANUS' team of data forensic professionals work closely with you throughout the process utilizing legal best practices to protect your organization and assets.

What Is Data Forensics

Data forensics is a complex process that accurately investigates events or activities on computer systems while maintaining the total integrity of the data contained on that system. JANUS' specially trained personnel, custom designed mobile forensics platforms while utilizing court accepted methodologies throughout the process. A strong chain of custody for all evidence materials and the creation of mirror-images of data sources are some of the initial steps in this process. The fundamental questions of: if something occurred, who did what, when did it happen, and how was it accomplished are asked and answered.

There are 5 steps to a JANUS data forensics engagement. This methodology assures you of accurate, legal court admissible results.

1. Consulting

A JANUS data forensic engagement begins with technical consulting to ascertain specifically what services your investigation requires and to define what we will deliver.

2. Data Collection

JANUS professionals will perform collection of the data at your site or ours. Our data forensic professionals hold a *Department of Defense Top Secret* facility clearance for information handling.

3. Forensic Recovery and Data Analysis

JANUS data forensic professionals utilize industry-leading data recovery hardware and software to help access and restore data that may have been purposely tampered with or deleted. Our engineers analyze the data using court approved methods and technology to uncover information related to your investigation.

4. Results and Reporting

When the forensic analysis is complete, JANUS provides you with the results of the investigation in a form that meets your specific needs.

5. Affidavits and Testimony

JANUS' data forensic professionals are considered subject matter experts and are extremely well regarded in the industry for their level of expertise. They are able to support your investigations and legal case by providing affidavits and/or expert testimony as necessary.

Data Capture & Discovery

When your discovery process requires capturing data for future analysis, JANUS technical experts will make a mirror image of the storage media. This results in an exact bit image of what existed within the target computer, such as empty sectors, data that is flagged as deleted, and temporary storage, to name a few. Every last byte of what currently exists can be preserved for future analysis without worrying that it will be overwritten with new data or permanently erased.

JANUS experts can either go to the site where the data resides or it can be brought to JANUS' secure laboratory.

Mobile Forensics Platforms . . . On-location, JANUS consultants can work through an entire site or in any portion of it – connecting our traveling forensics platforms to the targeted media and carefully reproducing an exact duplicate of whatever exists on that medium.

JANUS Secure Laboratories . . . JANUS maintains secure laboratories for evidence storage and forensics processing. Each of these carries a *Department of Defense Top Secret* facility clearance for information handling.

With JANUS you can rest assured that:

- The target machine will not be booted from the computer in question, thereby ensuring that no modifications will be made to the data.
- No alterations will be made to the operating system.
- All aspects of the original data will be preserved.
- No modifications will be made.

Data Recovery

JANUS experts utilize proprietary tools to attempt to recover data that you need. In most cases we can reconstruct damaged, deleted, reformatted, and erased files and directories. JANUS' techniques can also usually recover password protected or encrypted data. This process is typically undertaken in a JANUS laboratory where our staff works with tools and techniques to carefully recover *all* the information that exists.



JANUS can recover what others have attempted to hide.

Analysis

Analysis can begin from the first moment we appear on a case. Counsel may need to determine what the possibilities are in structuring a production request. JANUS can assist in this area too.

JANUS staff can collaborate with the legal team, determining the 'sense' of the case, providing direction and/or support on how to structure the computer discovery tasks. We can assist in analyzing the documentation, utilizing our computer backgrounds to pinpoint additional discovery points that will provide fruitful information. This is a reiterative process in most computerized discovery situations and in each your JANUS technical partner will work through the technical aspects to provide existing pertinent information.

Evidence analysis can be a very tricky business. JANUS staff always duplicates the medium before beginning any analytical process. Even then, unless the defendant is cooperative and provides the names and versions of programs used, we must recover and reconstruct the data only on a duplicate medium to format the data into easily readable documents for legal staff. Original capture media is protected so that it retains its original structure.

Forensic Protocol

Strict chain of custody procedures are maintained throughout the discovery process. JANUS staff are careful to maintain the integrity of the data at all times. All evidence is locked in the JANUS government secure laboratory.

Neutral Party Services

JANUS can perform services as a neutral agent of the parties when both agree. Often, acting as an agent of the Court, or as agreed to by the involved groups, JANUS will capture, recover, and filter the data in question.

Working with the attorneys or the court, JANUS can utilize its proprietary techniques to find pertinent data and provide only non-privileged information for discovery. This information can be provided in the manner required, to the Court, to each party, or to one party, according to the agreed upon disposition

Other Business Considerations

While the technology, techniques, and tools of computer forensics are similar in any environment, application of the forensics concept as an internal methodology for business requires more than technical skills and an understanding of the law. It requires *business savvy*.

For example; a court has the legal wherewithal to *order* an interruption of business operations for the purpose of evidence gathering or seizure, top executives in commercial ventures are generally unwilling to interrupt their own operations for such investigations. Yet because the very equipment which drives most business today - computer equipment - is involved, is it possible to conduct such an investigation *without* such interruption? And, what other issues must be considered?

When businesses initiate their own computer forensics investigations, many factors come into play. Tough questions (and the right ones) must be asked, and answered - sometimes in very short time frames and under the pressure of a real-time security breach. Questions such as these:

- Do the benefits of an investigation outweigh the potential of loss?
- What action should be taken as a result of the findings? Prosecution? Personnel Action?
- If action is to be taken, has the right evidence been gathered in the right way, so as to support that action and can it be upheld in court?
- Should law enforcement be brought in? Which agency? When?
- What about maintaining customer confidence?
- What if the media finds out? How should they be handled?
- What technology tools are required?
- What methods should be employed?
- What data should be recovered? When? Where? How?
- How do you avoid contamination of the evidence?
- What *is* evidence?

Implicit Trust of Our Clients

For 18 years JANUS Associates has served some of the most respected and prestigious organizations in the nation. Our clients trust us implicitly to handle their engagements in a professional and cost-effective manner and our reputation attests to these facts. JANUS clients cover the entire spectrum of Fortune 500 companies, federal, state and municipal entities, and Not-For-Profits.

Here is what a few of them had to say.

"Based on our experience, I believe you will be fully satisfied with JANUS Associates as your information security consultant." *Ed Zeitler, Sr. V.P. Information Security Services, Charles Schwab*

"Recently and under very intense deadline JANUS provided expert knowledge and skill in supporting our development of automated risk analysis /assessment tools, corporate level procedures for risk assessment, awareness and training to divisional components... Typically these are 1) performed at a moment's notice, 2) through long hours of commitment and 3) results deliver exceptional products with professionalism noticed by high level management ...making our vision realized. I congratulate JANUS Associates for their leadership, performance and a job well done." *Kahletta Montgomery, Oversight Manager-Information Security Staff, Federal Deposit Insurance Corporation*

"...working out wonderfully. ...great with providing recommendations to improve the process and working with me to get things to completion. ...understands the different technologies and is extremely process-oriented." *Jason Harrell, Local Security Officer, ABN AMRO Bank*

Federal Agencies Served

Centers for Medicare & Medicaid Services
Department of Veterans Affairs
Federal Aviation Administration
Federal District Court – S. Dist. of NY
Natl. Aeronautics & Space Administration
U.S. Customs Service

Department of Agriculture
Environmental Protection Administration
Federal Bureau of Investigation
Freddie Mac
Social Security Administration
U.S. Navy

Department of Interior
Fannie Mae
Federal Deposit Insurance Corporation
Government Accountability Office
U.S. Air Force



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