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| **AC313 Chapter 11 Glossary**

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| **antiforensic software**  | Software that overwrites empty spaces on hard drives to prevent possible data recovery. |
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| **automated fingerprint identification system (IAFIS; sometimes called *AFIS*)**  | Database system that matches suspects' whole or partial fingerprints against a database of fingerprints. |
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| **biometrics**  | Science of identifying persons by their physical characteristics. |
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| **black powder dusting**  | Method of lifting fingerprints that works only on nonporous surfaces with fresh prints. |
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| **brain printing**  | Investigatory technique that involves showing a subject a photo while monitoring the pattern of the subject's brain activity with special instruments to determine whether the subject is familiar with the photo's contents. |
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| **cache storage**  | Temporary storage of data from RAM in internal computer memory while they are not being processed; normally not directly accessible by computer users and may disappear when a machine is shut down or turned off. |
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| **chain of custody**  | Process of collecting and transmitting evidence in such a way to clearly document that it is not altered, damaged, contaminated, or destroyed during the investigative procedures and transmittal processes. |
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| **checksum**  | Hash number that can be created for a disk or a file; when applied to a disk and a copy of the disk, a matching checksum ensures that the disk and its copy are identical. |
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| **class**  | Group of persons or objects with similar characteristics; an individual or object is said to be a member of a class if he, she, or it shares common points of comparison. |
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| **class identification**  | Linking of an object or person to a class. |
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| **Combined DNA Index System (CODIS)**  | Database of DNA profiles used to search the NDIS database. |
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| **Computer Analysis and Response Team (CART)**  | FBI team whose members are highly trained in information technology and networking. |
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| **computer forensics**  | Application of computer science techniques to legal investigations. |
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| **criminalists**  | Technicians or investigators who specialize in finding, collecting, and preserving physical evidence at crime scenes. |
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| **dactylography**  | Another name for the science of fingerprinting. |
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| **data mining**  | Technique to identify suspicious persons or transactions using artificial intelligence to analyze large volumes of data by considering the relationships between individual data items. |
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| **Daubert test**  | Current standard in federal and many state courts for the acceptance of expert testimony; requires a technique or theory to satisfy four criteria: be subjected to scientific testing, be published in peer-reviewed scientific journals, have an error rate that is reasonably estimated or known, and be accepted in the relevant scientific community. |
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| **Department of Defense (DOD) "wipe" standard**  | Standard for deleting disk data that calls for at least seven passes over every sector, each time overwriting with new data. |
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| **diplomatics**  | Science of document identification and verification of document authenticity. |
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| **distributed name server (DNS)**  | Database usually hosted by the user's Internet service provider that contains Web addresses and their related IPs. |
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| **dynamic IP**  | Temporary IP address issued to computers that access the Internet. |
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| **exemplar**  | Reference specimen obtained from a known subject to be used for comparison purposes. |
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| **FinCEN (Financial Crimes Enforcement Network)**  | Treasury Department agency that focuses on money laundering. |
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| **forensic identification**  | Unequivocal linking of physical evidence to a particular object or person. |
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| **forensic science**  | Application of science to legal matters. |
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| **forensic scientist**  | Scientist who focuses on interpreting evidence gathered by criminalists. |
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| **Frye test**  | Standard for expert testimony that was once dominant in the federal courts and still applies in some state courts; requires scientific method to be generally accepted in the scientific community. |
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| **IAFIS**  | See *automated fingerprint identification system.*  |
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| **imaging method**  | Method of copying disk data at the hardware level on a bit-by-bit basis in deleted files still on the disk and not overwritten while ignoring file structures. |
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| **IP address**  | Unique number assigned to each computer on the Internet. |
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| ***Kumho Tire Co. v. Carmichael*.**  | U.S. Supreme Court decision that made Daubert determination mandatory in all cases involving expert testimony. |
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| **Locard exchange principle**  | Statement relating to forensic identification: "Every contact leaves a trace." |
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| **logical versus physical erasure/deletion of data**  | Data that are only logically deleted but protected and can be "undeleted" versus data physically deleted that can be recovered only when not overwritten by new data. |
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| **magnetic-force microscopy**  | Highly advanced data recovery technique that can recover disk data that have been overwritten many times. |
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| **magnetic-force tunneling microscopy**  | Highly advanced data recovery technique that can recover disk data that have been overwritten many times. |
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| **National Crime Information Center (NCIC) Network**  | Real-time system that contains a national index of theft reports, warrants, fugitives, missing persons, gang membership data, and other data submitted by participating members; available to most federal and state law enforcement agencies. |
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| **National DNA Index System (NDIS)**  | FBI-operated database system that contains DNA profiles of convicted criminals and profiles of DNA collected from crime scenes. |
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| **National Integrated Ballistics Information Network (NIBIN)**  | System that compares bullets, bullet casings, and firearms from crime scenes to related evidence (images of fired bullets and cartridge cases collected from crime scenes and recovered firearms) stored in a joint FBI–ATF database. |
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| **National Law Enforcement Telecommunications Systems (NLETS)**  | Nationwide criminal justice communication network that connects all 50 states and various federal agencies. |
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| **packet sniffer**  | Wiretap device that records all packets of data passing through a communication link. |
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| **palaeography**  | Science of questioned document examination; also called *diplomatics.*  |
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| **points of comparison**  | Specific characteristics used to link objects or persons in forensic identification. |
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| **profiling method**  | Method to identifying criminals using general characteristics such as age, marital status, education, living community, income, personality factors, and so on; part of the more general science of data mining. |
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| **proxy server**  | Server that is an intermediary for Web traffic; connects to some Web site and effectively hides the connection's true origin. |
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| **sector editing software**  | Software that completely bypasses the hard drive's file structure to search for data including normal user files and hidden system files. |
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| **simple mail transfer protocol (SMTP) server**  | Mail server that accepts outgoing e-mail from users for relaying to a destination e-mail server. |
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| **spoof**  | Term that refers to falsifying user's identity in a network environment. |
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| **striations**  | Mark, sometimes very small, that can be used to identify unique objects. |
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| **superglue method**  | Method using gasified superglue to reveal latent fingerprints. |

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