

Ethics in Information Technology

Chapter 4
Privacy

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Learning Objectives

- What is the right of privacy, and what is the basis for protecting personal privacy under the law?
- What are some of the laws that provide protection for the privacy of personal data, and what are some of the associated ethical issues?
- What are the various strategies for consumer profiling, and what are the associated ethical issues?

Learning Objectives

- Why and how are employers increasingly using workplace monitoring?
- What are the capabilities of advanced surveillance technologies, and what ethical issues do they raise?

Privacy Protection and the Law

- **Bill of Rights**: Ten amendments that were ratified to protect the privacy of individuals
- Fourth Amendment: States that the right of the people to be secure in their persons, houses, papers, and effects must not be violated
 - Unless a warrant has been issued upon probable cause
- Right of privacy: Right to be left alone, the most comprehensive of rights, and most valued by free people

Information Privacy

- Combination of communications privacy and data privacy
 - Communications privacy Ability to communicate with others without those communications being monitored by other persons or organizations
 - Data privacy Ability to limit access to one's personal data in order to exercise control over that data and its use

Privacy Laws, Applications, and Court Rulings: Financial Data

- Fair Credit Reporting Act: Regulates the operations of credit-reporting bureaus
- Right to Financial Privacy Act: Protects the records of financial institution customers from unauthorized scrutiny by the federal government
 - Does not cover disclosures to private businesses or state and local governments

Privacy Laws, Applications, and Court Rulings: Financial Data

- Gramm-Leach-Bliley Act (GLBA): Bank deregulation law that repealed the Glass-Steagall law
 - Financial privacy rule
 - **Opt out**: Customers' refusal to give the institution the right to share personal data with third parties
 - **Opt in**: Customers give financial institutions the right to share their personal data to other financial institutions

Privacy Laws, Applications, and Court Rulings: Financial Data

- Safeguards rule Requires financial institutions to document a data security plan for clients' personal data protection
- Pretexting rule Addresses attempts by people to access personal information without proper authority
- Fair and Accurate Credit Transactions Act:
 Allows consumers to request and obtain a free
 credit report once each year from each of the three
 primary consumer credit reporting companies

Privacy Laws, Applications, and Court Rulings: Health Information

- Health Insurance Portability and Accountability Act (HIPAA)
 - Improves the portability and continuity of health insurance coverage
 - Reduces fraud, waste, and abuse
 - Simplifies the administration of health insurance
- American Recovery and Reinvestment Act:
 Contains provisions for electronic health records
 - Bans the sale of health information, promotes the use of audit trails and encryption, and provides rights of access for patients

Privacy Laws, Applications, and Court Rulings: Children's Personal Data

- Family Educational Rights and Privacy Act (FERPA): Assigns certain rights to parents regarding their children's educational records
- Children's Online Privacy Protection Act (COPPA): Aims to give parents control over the collection, use, and disclosure of their children's personal information over the Internet
 - Does not cover the dissemination of information to children

- Communications Act: Established the Federal Communications Commission to regulate all:
 - Non-federal-government use of radio and television broadcasting
 - Interstate telecommunications and international communications that originate or terminate in the U.S.

- Foreign Intelligence Surveillance Act (FISA): Describes procedures for the electronic surveillance and collection of foreign intelligence information
- Title III of the Omnibus Crime Control and Safe Streets Act: Regulates the interception of wire and oral communications
 - Allows law enforcement officials to use wiretapping
 - Known as the Wiretap Act

- Electronic Communications Privacy Act (ECPA)
 - Protection of communications while in transfer from sender to receiver
 - Protection of communications held in electronic storage
 - Prohibition of devices from recording dialing, routing, addressing, and signaling information without a search warrant

- National Security Letter (NSL): Compels holders of personal records to turn them over to the government
- **Pen register**: Records electronic impulses to identify the numbers dialed for outgoing calls
- **Trap and trace**: Records the originating number of incoming calls for a particular phone number

- Communications Assistance for Law Enforcement Act (CALEA): Required the telecommunications industry to build tools into its products
 - For use by federal investigators, after obtaining a court order, to intercept communications

- USA PATRIOT Act (Uniting and Strengthening America by Providing Appropriate Tools Required to Intercept and Obstruct Terrorism): Increased the ability of law enforcement agencies to search personal records
 - **NSL gag provision**: Prohibits NSL recipients from informing anyone that the government has secretly requested an individual's records

- Foreign Intelligence Surveillance Act (FISA) Amendments Act: Granted NSA expanded authority to collect international communications as they flow through U.S. telecom network equipment and facilities
- Fair information practices: Set of guidelines that govern the collection and use of personal data
 - **Transborder data flow**: Flow of personal data across national boundaries

Privacy Laws, Applications, and Court Rulings: Fair Information Practices

- Organisation for Economic Co-operation and Development (OECD) - International organization that aims to set policies and agreements on topics for which multilateral consensus is required
- European Union Data Protection Directive
 - Ensures that data transferred to non-European Union countries is protected
 - European Data Protection Regulation: Enforces a single set of rules for data protection across the EU, eliminating the need for costly administrative processes

Privacy Laws, Applications, and Court Rulings: Access to Government Records

- Freedom of Information Act (FOIA): Grants citizens the right to access certain information and records of federal, state, and local governments upon request
 - Request must:
 - Not require wide-ranging, unreasonable, or burdensome searches for records
 - Be made according to procedural regulations published in the Federal Register

Privacy Laws, Applications, and Court Rulings: Access to Government Records

- Privacy Act: Sets rules for the collection, maintenance, use, and dissemination of personal data kept in systems of records by federal agencies
 - Prohibits U.S. government agencies from concealing the existence of any personal data record-keeping system

Key Privacy and Anonymity Issues

Data breaches **Electronic** discovery

Consumer profiling

Workplace monitoring Advanced surveillance technology

Data Breaches

- Caused by:
 - Hackers breaking into a database
 - Failure to follow proper security procedures
- Health Information Technology for Economic and Clinical Health Act
 - Mandates that within 60 days after discovery of a data breach, each individual whose health information has been exposed must be notified

Electronic Discovery (e-discovery)

- Collection, preparation, review, and production of electronically stored information for use in criminal and civil actions and proceedings
- Electronically stored information (ESI): Any form of digital information stored on any form of electronic storage device
- E-discovery software helps:
 - Analyze large volumes of ESI quickly
 - Simplify and streamline data collection
 - Identify all participants in an investigation to determine who knew what and when

Consumer Profiling

- Information about Web surfers can be obtained through the use of:
 - Cookies
 - Tracking software
- Criticism Personal data may be gathered and sold to other companies without the permission of consumers who provide the data

Workplace Monitoring

- The Fourth Amendment does not limit how a private employer treats its employees
- State privacy statutes tend to favor employers over employees
- Privacy advocates stress on the need for federal legislation to keep employers from infringing upon the privacy rights of employees

Camera Surveillance

- Goal Deter crime and terrorist activities
- Criticism May provide leeway for abuse and blackmail
- Domain Awareness system
 - Joint effort of the New York Police Department and Microsoft
 - Goal is to combat terrorist activities and reduce the time required to respond to an incident

Vehicle Event Data Recorder (EDR)

 Records vehicle and occupant data for a few seconds before, during, and after any vehicle crash severe enough to deploy the vehicle's air bags

Purposes

- To capture and record data to make changes to improve vehicle performance in the event of a crash
- For use in a court of law to determine what happened during a vehicle accident

Stalking App

- Cell phone spy software that can be loaded onto a cell phone or smartphone
- Performs location tracking, records calls, views text messages sent or received, and records the URLs of any Web site visited on the phone
- Illegal to install the software on a phone without the permission of the phone owner

Summary

- Laws, technical solutions, and privacy policies are required to balance needs of business against rights of consumers
- A number of laws have been enacted that affect a person's privacy particularly in the areas of financial and health records, protection following a security breach, children's personal data, electronic surveillance, export of personal data, and access to government records

Summary

- Identity theft is fastest-growing form of fraud
- E-discovery can be expensive, can reveal data of a private or personal data, and raises many ethical issues
- Web sites collect personal data about visitors
- Consumer data privacy has become a major marketing issue
- Code of Fair Information Practices and 1980
 OECD privacy guidelines provide an approach to treating consumer data responsibly

Summary

- Employers monitor employees to maintain employee productivity and limit exposure to harassment lawsuits
- Advances in information technology provide new data-gathering capabilities but also diminish individual privacy
 - Surveillance cameras
 - GPS systems