

IS 497B: Information Security and Assurance
Reading Preparation Assignment
Management of Information Security
Chapter 10

Read selected sections of Chapter 10, Protection Mechanisms, of the *Management of Information Security* textbook.

I am presuming that you have completed course IS 435 Business Data Systems covering the technical aspects of securing networks. Therefore, discussion on protection mechanisms here will focus on managerial issues that affect InfoSec security and planning. Read the following sections/subsections of the chapter:

The opening scenario, pp. 343-344
Introduction, p. 345
Access Controls, pp. 346-358
Managing Firewalls, pp. 365-366
Managing Wireless Connections, pp. 374-375
Managing Cryptographic Controls, pp. 391-393
Managing Scanning and Analysis Tools, pp. 378-379

The following review questions will be used to lead class discussion. Note, while I feel that it is a good idea to write out the answers to these questions, please know that I will not be collecting them as homework.

1. What are the differences between the controls that defend against threats from inside the organization and those that defend from outside the outside the organization?
2. What is the difference between authentication and authorization? Can a system permit authorization without authentication? Why or why not?
3. What is the most widely accepted biometric authorization technology? Why?
4. What is the most effective biometric authorization technology? Why?
5. What must an organization do to properly manage access controls?
6. What are some of the ways that firewalls are limited by the constraints of their programming and rule sets?
7. What are some of the measures organizations may use to secure wireless networks?
8. What are some of the drawbacks in using scanners and analysis tools, content filters, and trap and trace tools?
9. What are some of the important issues in managing cryptographic controls?