

Integrity Models and Hybrid Models

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Draws extensively from:

Memon's notes, Brooklyn Poly

Pfleeger Text, Chapter 5

Bishop's text, Chapter 6 and 7,

Bishop's slides, Chapter 6 and 7

Types of Security Policies

- A *military security policy* (also called government security policy) is a security policy developed primarily to provide confidentiality.
 - Not worrying about trusting the object as much as disclosing the object
- A *commercial security policy* is a security policy developed primarily to provide a combination of confidentiality and integrity.
 - Focus on how much the object can be trusted.
- Also *confidentiality policy* and *integrity policy*.

Commercial Environments

Commercial requirements differ from military requirements in their emphasis on preserving data integrity. For Example:

1. Users will not write their own programs, but will use existing production programs and databases.
2. Programmers will develop and test programs on a non-production system; if they need access to actual data, they will be given production data via a special process, but will use it on their development system.
3. A special process must be followed to install a program from the development system onto the production system.
4. The special process in 3, above, must be controlled and audited.
5. The management and auditors must have access to both the system state and to the system logs that are generated.