

Outline for February 7, 2008

1. CISS
 - a. Intended for medical records; goals are confidentiality, authentication of annotators, and integrity
 - b. Patients, personal health information, clinician
 - c. Assumptions and origin of principles
 - d. Access principles
 - e. Creation principle
 - f. Deletion principle
 - g. Confinement principle
 - h. Aggregation principle
 - i. Enforcement principle
 - j. Comparison to Bell-LaPadula: lattice structure but different focus
 - k. Comparison to Clark-Wilson: specialization
2. ORCON
 - a. Originator controls distribution
 - b. DAC, MAC inadequate
 - c. Solution is combination
3. Role-based Access Control (RBAC)
 - a. Definition of role
 - b. Partitioning as job function
 - c. Containment
4. Problem with instantiation of Bell-LaPadula Model
 - a. Covert channel example: what is “writing”?
 - b. Composition of lattices
 - c. Principles of autonomy and security
5. Deterministic noninterference
 - a. Model of system
 - b. Example
 - c. Relationship of output to states
 - d. Projections and purge functions