

Outline for February 10, 2012

Reading: §7.1

1. Chinese Wall Policy
 - a. Low-level entities are objects; all objects concerning the same corporation form a CD (company dataset); CDs whose corporations are in competition are grouped into COIs (Conflict of Interest classes)
 - b. Intuitive goal: keep one subject from reading different CDs in the same COI, or reading one CD and writing to another in same COI
 - c. Simple Security Property: Read access granted if the object:
 - i. is in the same CD as an object already accessed by the subject; or
 - ii. is in a CD in an entirely different COI.
 - d. Theorems:
 - i. Once a subject has accessed an object, only other objects in that CD are available within that COI;
 - ii. Subject has access to at most 1 dataset in each COI class
 - e. Exceptions: sanitized information
 - f. *-Property: Write access is permitted only if:
 - i. Read access is permitted by the simple security property; and
 - ii. No object in a different CD in that COI can be read, unless it contains sanitized information
 - g. Key result: information can only flow within a CD or from sanitized information
 - h. Comparison to BLP
 - i. Comparison to Clark-Wilson