# ECS 235B Module 38 Break-the-Glass Policies

#### Break-the-Glass Policies

- Motivation: when security requirements conflict, some access controls may need to be overwritten in an unpredictable manner
  - Example: a doctor may need access to a medical record to treat someone, yet that person is unable to give consent (without which access would be denied)
- User overrides the denial
  - Controls notify some people about the override
  - Controls log override for later audit

## Example: Rumpole

- Implements a break-the-glass policy
- Evidential rules: how to assemble evidence to create context for request
- Break-glass rules: define permissions
  - Includes constraints such as obligations to justify need for actions
- *Grant policies*: how rules are combined to determine whether to grant override

## Example: Rumpole Enforcement Model

- Request: subject, desired action, resource, obligations acceptable to subject
- Decision point:
  - Grants request
  - Denies request
  - Returns request with set of obligations subject must accept; subject then can send a new request with that set of obligations, if they are acceptable

#### Quiz

When it is necessary to break the glass to override an access control mechanism, which of the following is critical to do?

- 1. The break the glass mechanism and associate metadata (such as the entity requesting the override, the time, the reason, and so forth) must be logged
- 2. The break the glass mechanism must immediately refer the request to a higher authority, who must immediately approve or disapprove
- 3. The break the glass mechanism immediately disables the access controls that it is overriding
- 4. The break the glass mechanism immediately disables all access controls, in case the requesters need to access other data or resources