ENGINEERING ONLINE

Lecture Notes

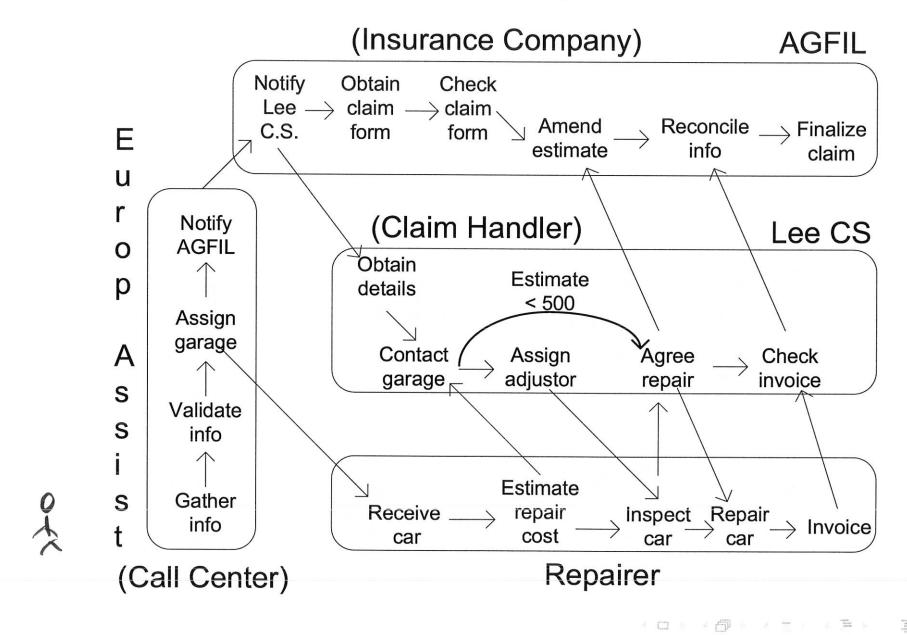
Course Number: CSC 513

Instructor: Dr. Singh

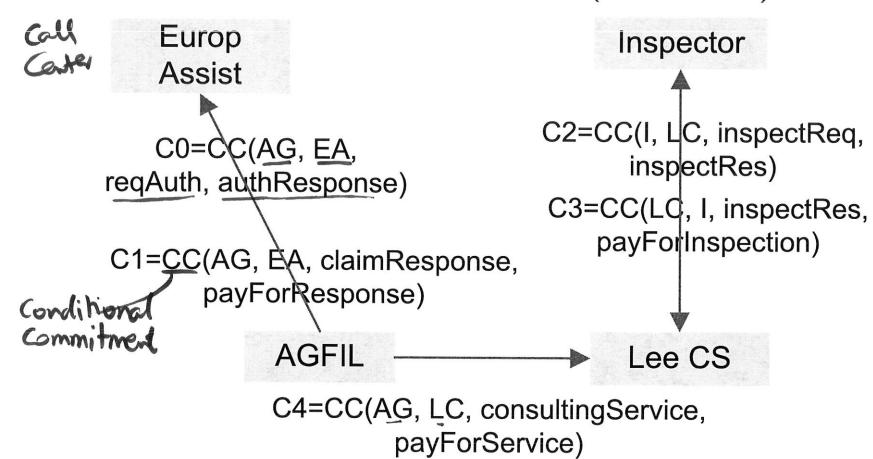
Lecture Number: 13



A Real-Life Service Engagement (Repeated)



Example Contractual Relationships (at Outset)



John Doe

Mechanic

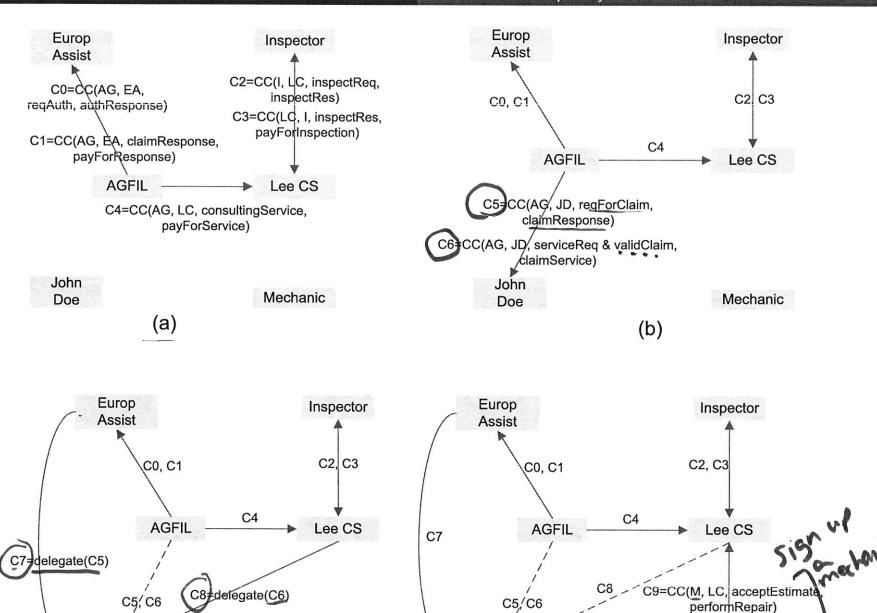
C5,/C6

C11 delegate (C8)

(d)

John

Doe



John

Doe

(c)

Mechanic

990

performRepair) C10=CC(LC, M, performRepair, payment)

Mechanic

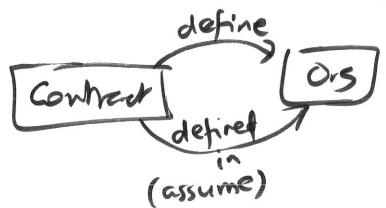
Achieving Governance: Agents and Orgs

Put collaboration center stage

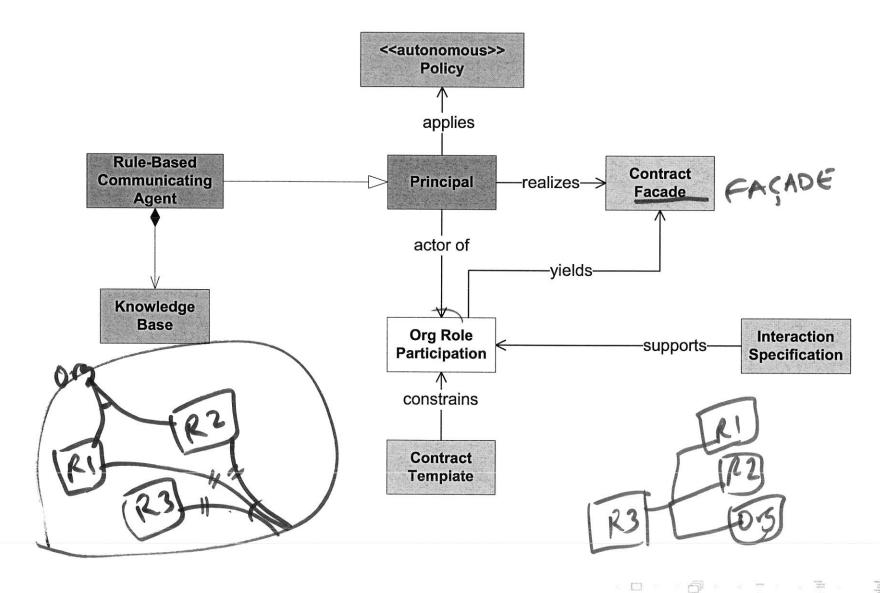
- Agents represent the stakeholders: people and organizations
 - Provide a locus for interaction
- Orgs are like *institutions*: have an identity and life time distinct from their members; also modeled as agents
 - Examples: NCSU, UNC System, . . .
 - Provide a locus for roles and authorizations (and other norms)
 - Enforce behavioral constraints on members
 - Their main hold over their members is the threat of expulsion

Duality of Contracts and Orgs

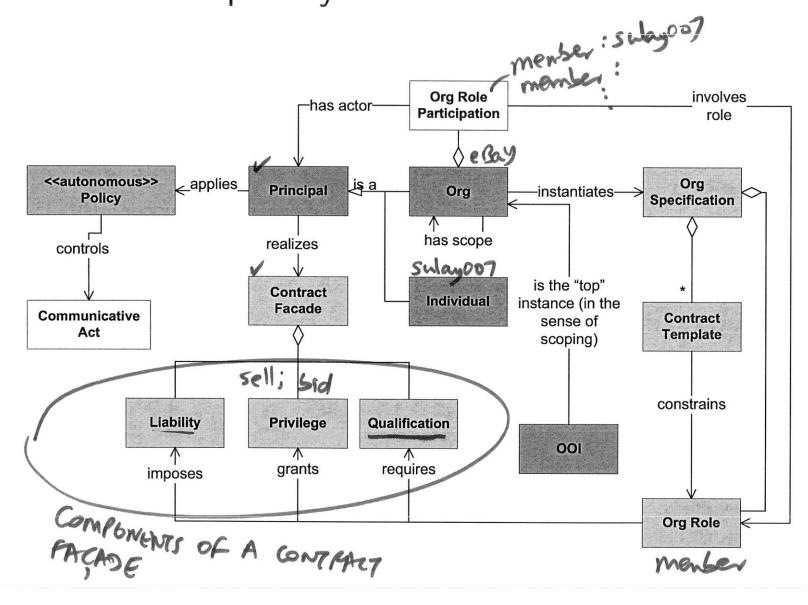
- A set of contracts define an Org
 - ► Roles, with their qualifications, privileges, liabilities
- ► An Org provides the context for defining contracts

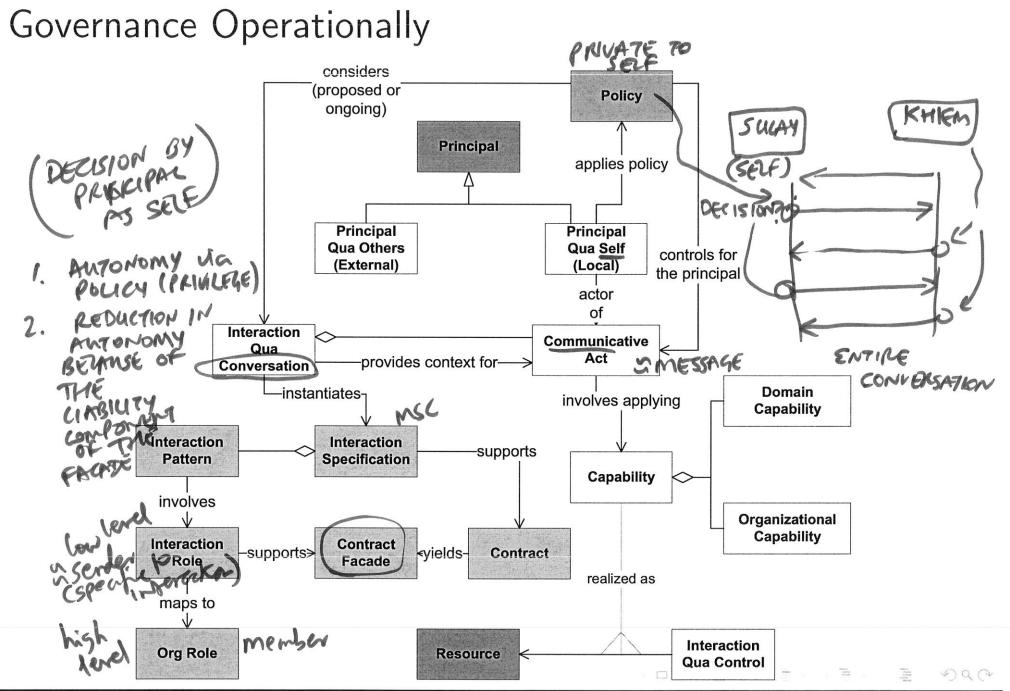


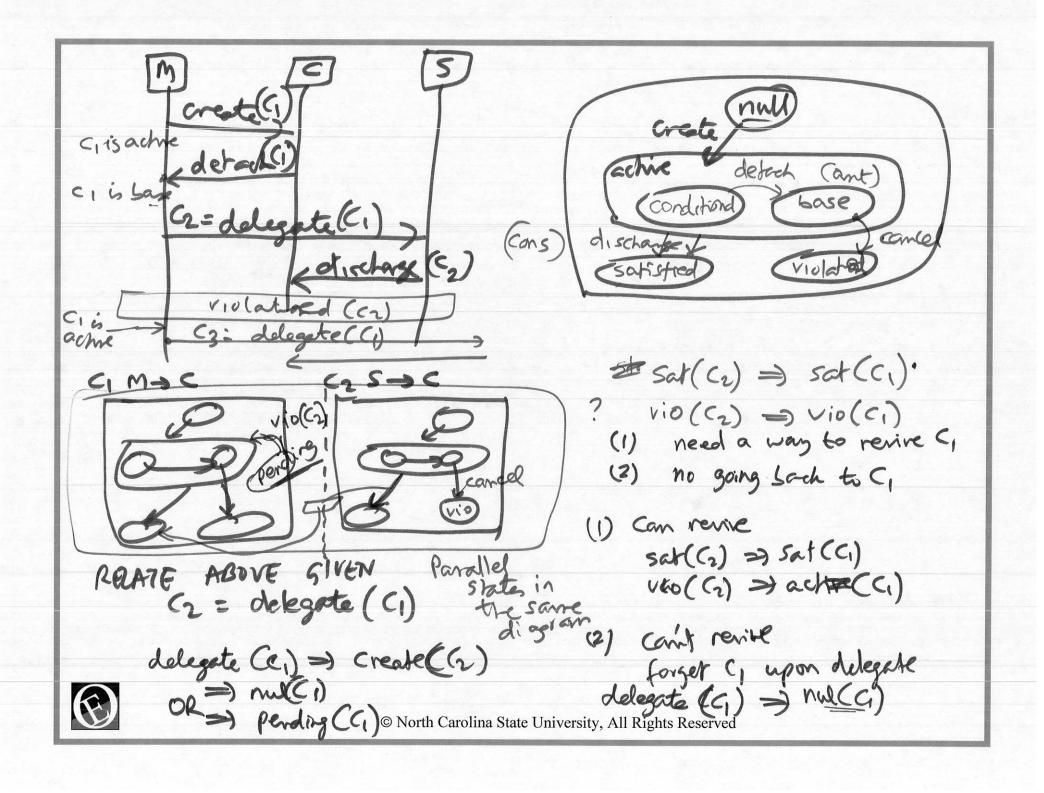
Governance Overview



Governance Conceptually



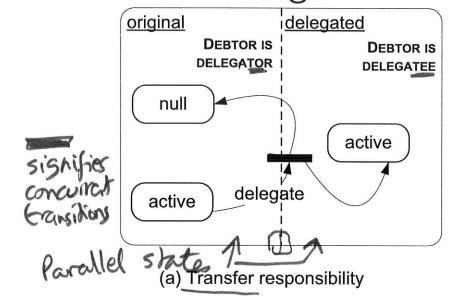


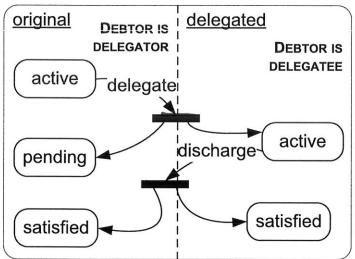


Patterns for Delegate

ONLY SHOWING RELEVANT STATES







(b) Retain responsibility

