Security Mediation

Dealmaker Subcontract

Objective:
Enable effective and secure interoperation among remote, autonomous business partners

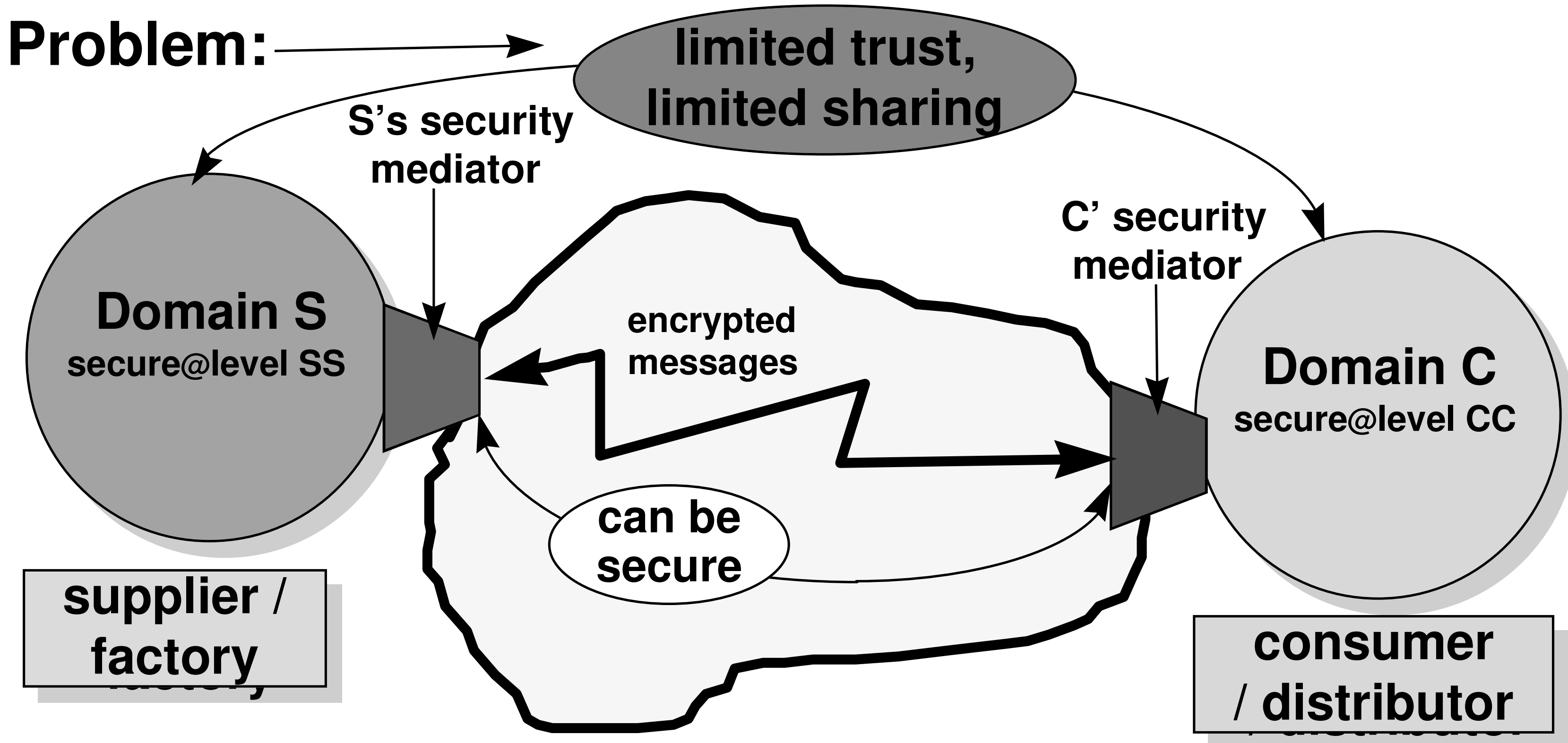
Knowlege Systems Laboratory

Stanford University

Gio Wiederhold, CoPI

gio@cs.stanford.edu

Interoperating Domains



Participants only wish to share limited information

- **catalogs with prices** *not* **cost structure**
- **RFQs, …** *not* **end-use, QoH**

Mediation for Security

Supplier needs

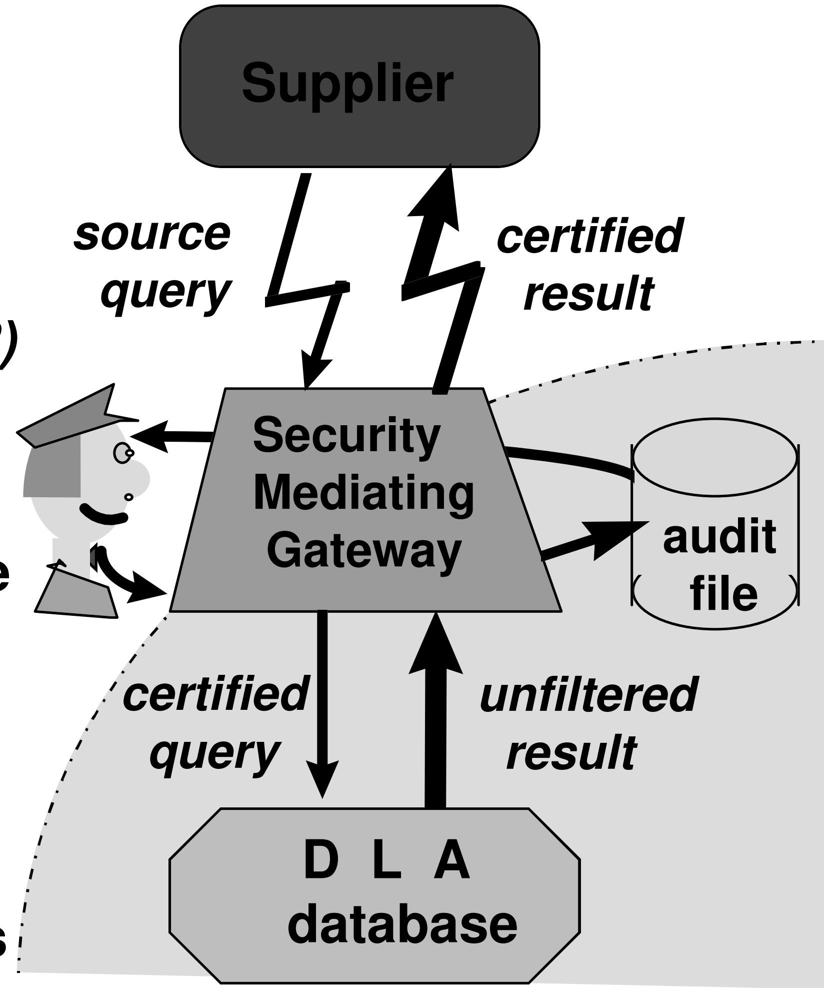
- **Requests for quotes**
- **Specifications, drawings, . . .**

Security Mediating Gateway *(MLS?)*

- **Owned by security officer (SO)**
- **Verifies requests & responses**
- **Can operate fully manually, or be *partially* automated with rules**
- **unmatched rules default to SO**

Purchasers' databases

- **Fully available internally**
- **Not accessible to outside threats**



Security Mediation Summary

Business partners will not want to share **all** ***information.***

Network communication security is improving, but inside a partner's domain protection of data is poor.

Protection required for effective on-line business requires **security officers** ***(SO) with effective tools.***

Statement of Work:

- **Establish gatekeeper workstations which mediate information exchange among partner's domains**
- **Provide the owning SOs appropriate tools for defining and monitoring rules of cooperative data sharing**
- **Defer any uncertainty to the SO for resolution**
- **Provide tools for ongoing audit & feedback to SO.**