

Context Aware Identity Delegation

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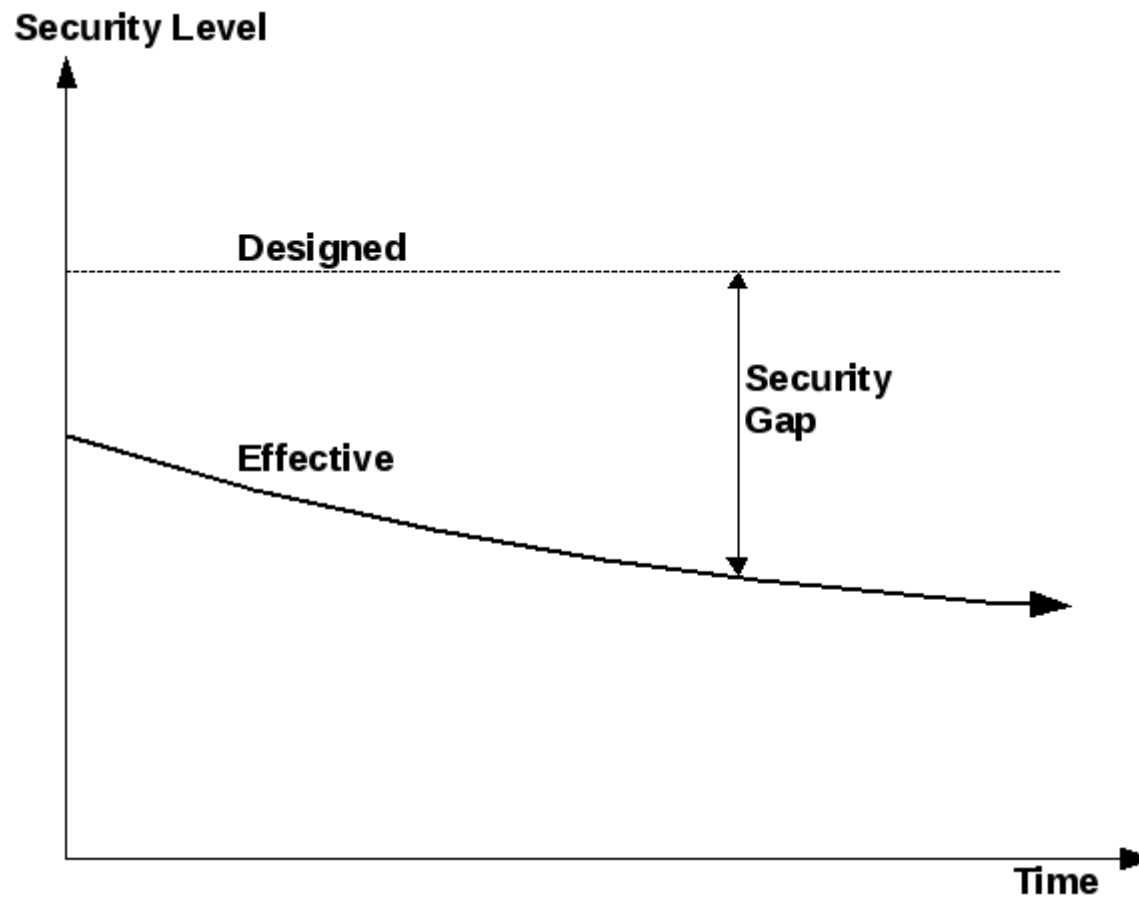
Human Computer Interaction

- Paradigm of Computing
 - (1) Mainframe
 - (2) Personal
 - (3) Ubiquitous

Evolution of Users

- Stationary Users
- Mobile Users
- Nomadic Users

An Abstract View



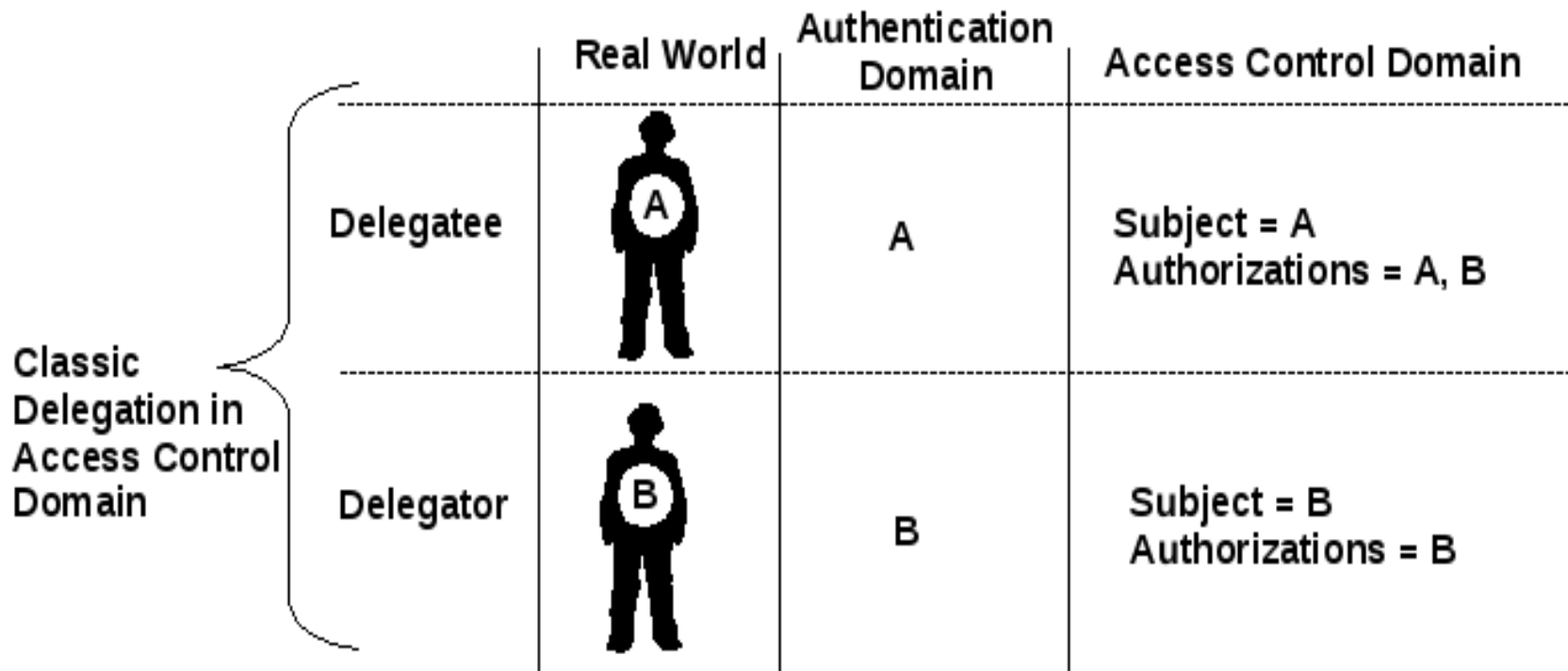
What is Delegation ?

Our Focus

- Human-to-Human Delegation
- Human = ??? | Nomadic User
- Collaborative Nomadic Environment

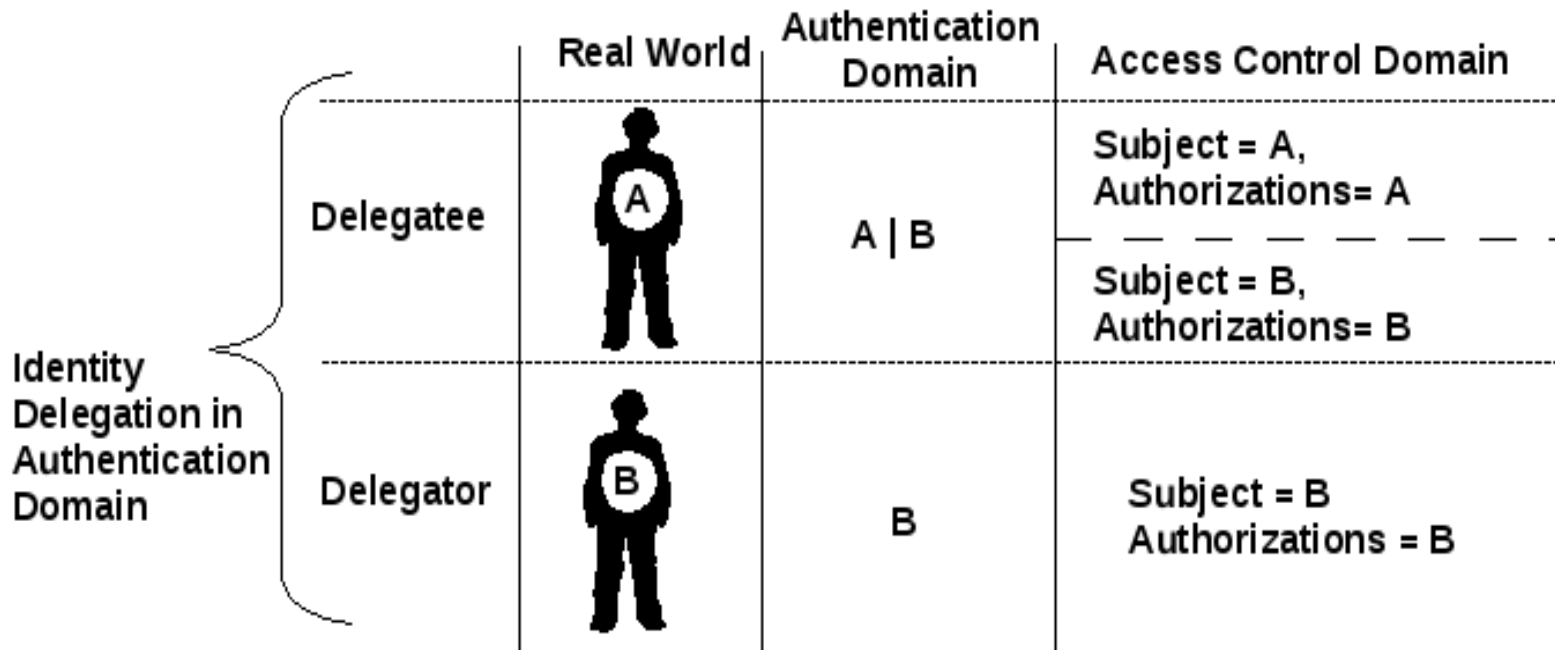
Classic Model of Delegation

- Access Control Domain



Alternate Model of Delegation

- Delegation in Authentication Domain



Price To Pay

- Violation of the Principle of Least Privileges

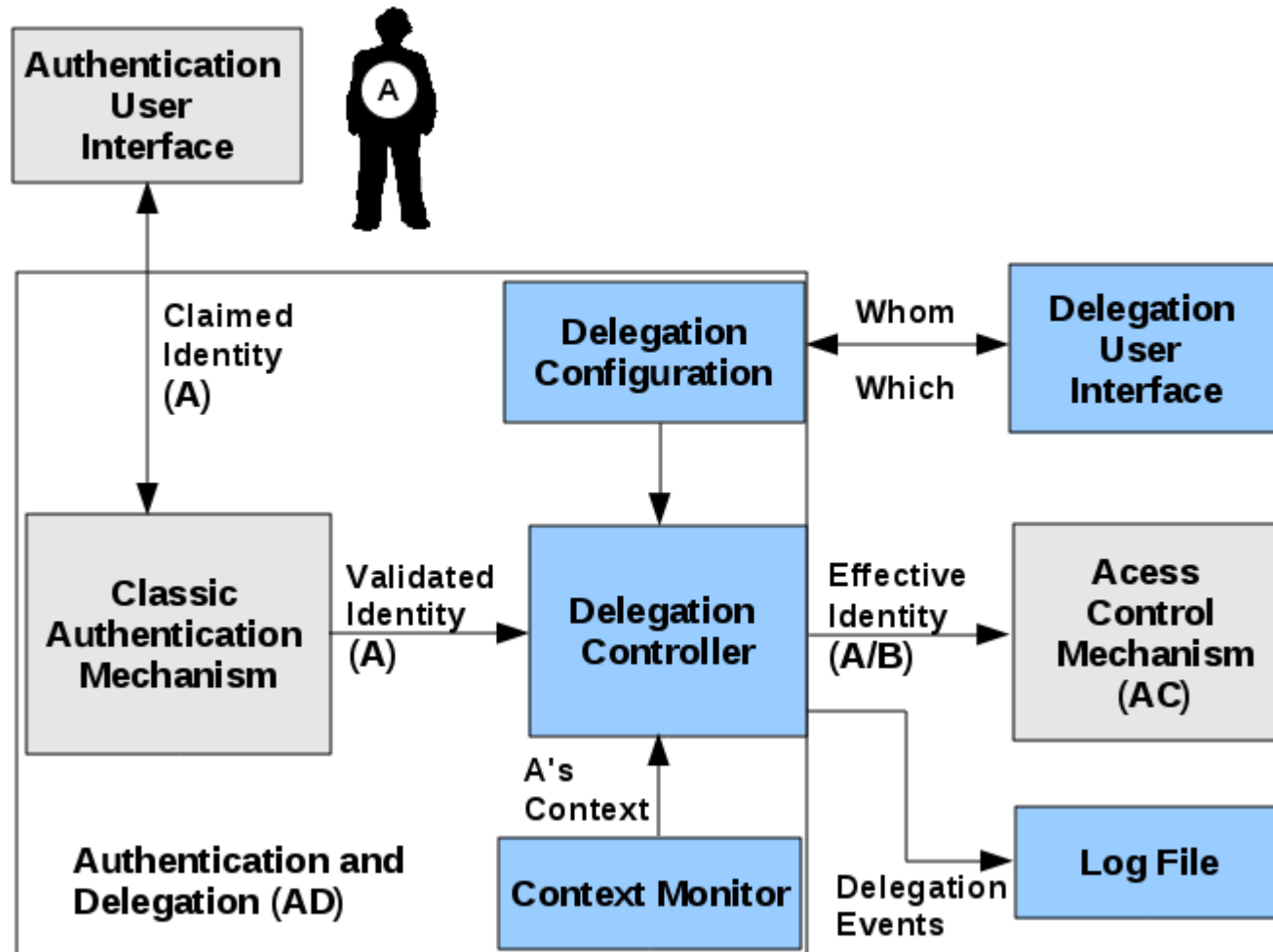
Justifications ... !

- Usability
- Principle of Least Privileges
- Effective Security

Our Proposal

- Use of Context in Delegation
 - Context ::= Location, Time, Other Users, etc.
 - Advantages
 - Restricting the spread of authorizations
 - Relaxing the trust assumptions
 - Auto revocation

How It Works ?



User Interface of Delegation: *dlg*

- **dlg set** Alice @imm.322.011 [0800-1600]
- **dlg switch** Bob
- **dlg reset** Alice
 - Dlg get
 - Dlg reset-all
 - Dlg
 - Dlg reset-rec

Questions & Feedback