

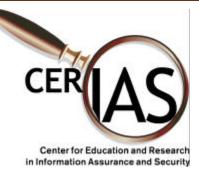
Purdue University

Center for Education and Research in Information Assurance and Security



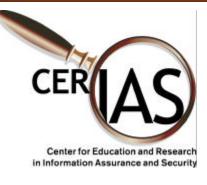
Trust in a dotcom world

Martin Sadler Hewlett-Packard Laboratories



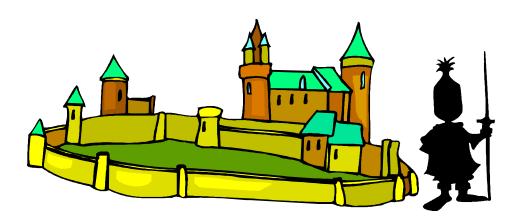
Outline

- Context
 - how much do we understand?
- Challenges
 - what should we be addressing?

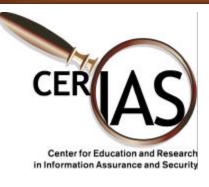


A metaphor

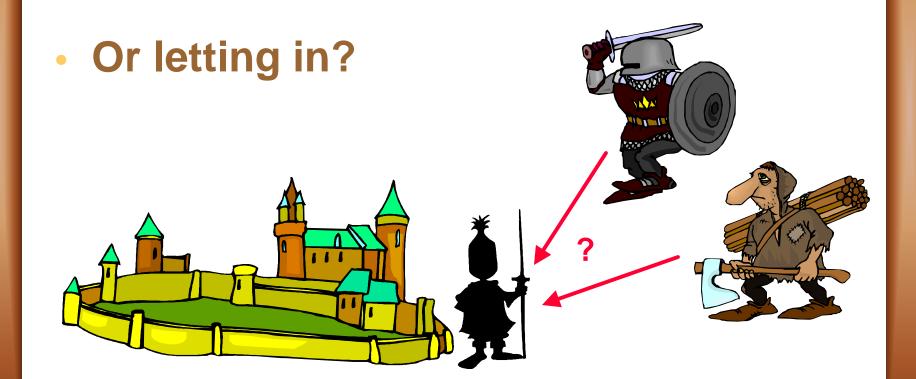
Enterprises as walled cities

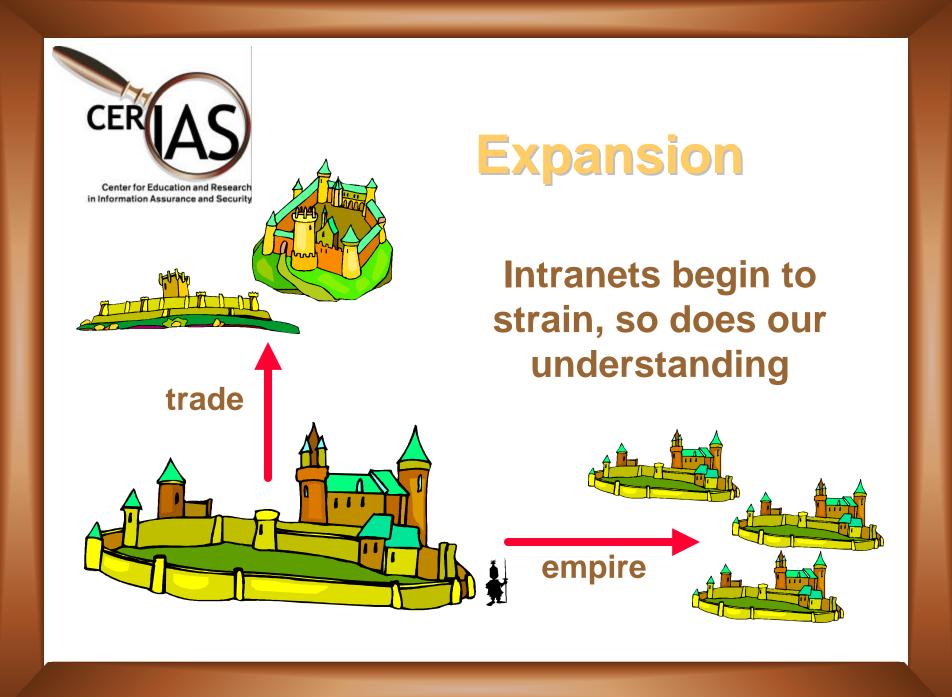


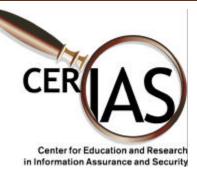
Much of our understanding is built on this metaphor



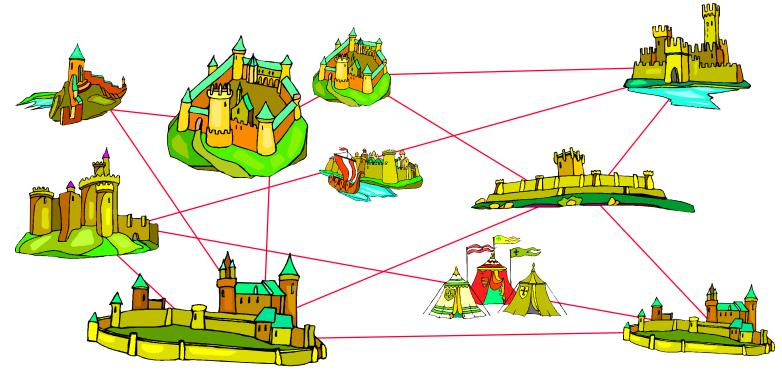
Keeping out



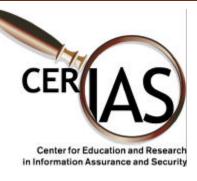




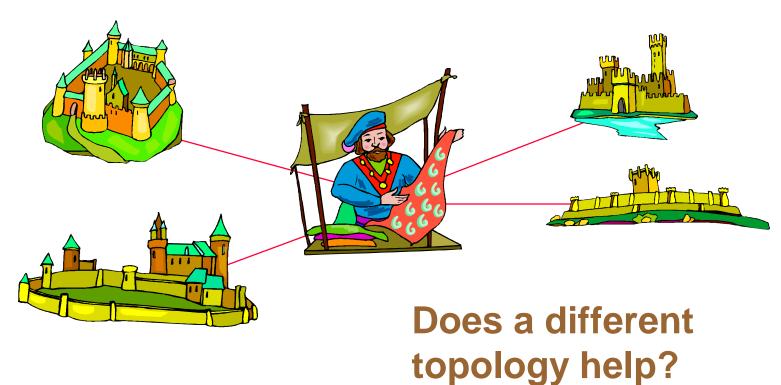
Complexity



Any-to-any

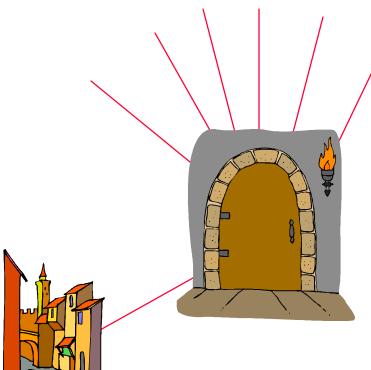


Marketplaces

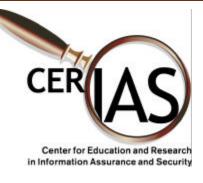




Portals



Does mediated access help?

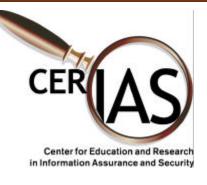


Solutions

- Empire
 - VPN
 - firewalls
 - anti-virus
 - intrusion
 - authentication

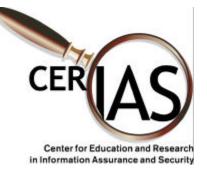
- Trade
 - credentials
 - -PKI
 - payment

Are we focusing in the right area?



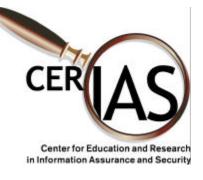
Challenges

- So what issues should we be addressing?
- Claims (a view from HP labs)
 - focus on trade (rather than just empire)
 - key role of marketplaces and portals
 - integrate: end-to-end, top-to-bottom
 - package our understanding



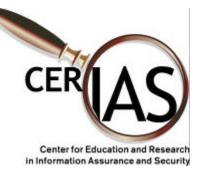
Challenge - platforms

- Improve our foundations
 - trusted platforms
 - www.trustedpc.org
 - trusted OS
 - better separation of concerns



Challenge - passports

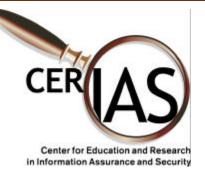
- How do we make certificates/credentials
 - pervasive?
 - inter-operable?
 - light-weight?
- Is this just about identity?



Privacy

Challenge - Pand P





Challenge - contracts

bid and offers service negotiation

contract

How do we integrate with business processes?

contractenforcement

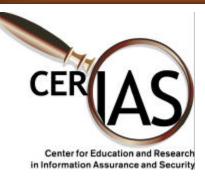


Challenge - global



Global interaction yet different social norms different laws

A cross-discipline, cross-border approach essential



CERIAS

 CERIAS provides a forum in which such challenges can be shared, worked on collaboratively, insights gained and new paradigms established

So what are your challenges?