
Security Management via Distributed Policy Decision Points

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IST FP6 SEINIT

- Develop a **trusted** and **dependable** security framework, working across **multiple devices** and **heterogeneous networks**, being **organisation independent** and **centred around the end-user**
- Participating to the core research initiatives towards eEurope-2005



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IST FP6 SEINIT

- Aimed for personal, and business use
- Personal priorities
 - Ease of use, privacy protection
- Business priorities
 - Heterogeneity and mobility
- To create a security framework for real life scenarios
- Nomadic users, pervasive computing environments



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Security Management in Pervasive Environments

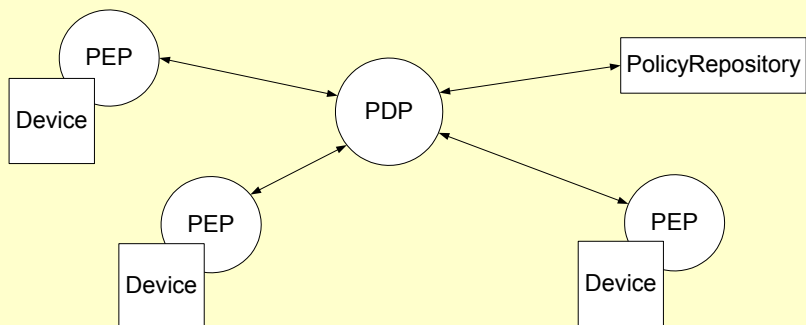
- SEINIT is based around securing end user in pervasive computing environments
- There is not always a central administrative control that can maintain your security(p2p, adhoc)
- This Project aims at providing security management in pervasive computing environments where there is no central administrative control
- Through the use of distributed decision making



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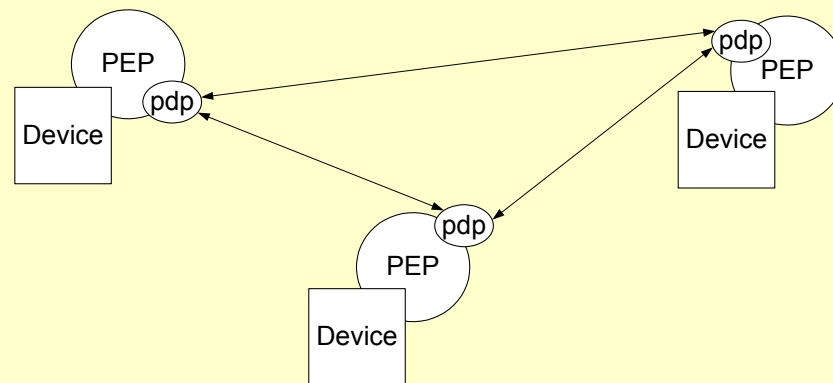
Centralised PBM

- Where a central administrator is available, possibly some hierarchy structures



PBM via Distributed PDP

- Where no central administration is available, so decisions are distributed throughout the system



Challenges

- Initial specification of Policy
- Initial distribution of Policy
- How can decision making be distributed
- How can decision outcome be distributed
- How to make it scalable, reliable, efficient compared to current PBM systems
- How to define policy rules, models, etc.
- The stability of this system
- Protection against malicious devices

Thank you for your attention