Netsec '06 Topics

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Interconnected Broadband Home Netwoks

Threat analysis for home network

- In this topic you should identify the assets in a home network and analyze the threats to these assets
- The point of view is technical, but the context of a home network requires considereing the user too
- Related to the topic by Kristiina Karvonen on percieved risks in home networks

Access control in home networking

- As home networks are evolving from one PC connected to a modem towards networks involving multiple (pervasive) devices, the need for access contol becomes real
- A few approaches are again possible:
  - If you have a background in usability studies, find out what kind of access control users really need
  - If you have a more technical background, explore what is offered now and how this could be extrapolated to new pervasive networks

Cost of usable security

- Traditionally cost analysis for security considers the cost of the security mechanisms and the loss if secuity fails
- The goal of this work is to include the user in the equation
  - Can we measure how much poor usability costs to the user?
  - Poor usability lowers security, what is the cost?
  - What do we gain and loose by making security more usable?

Ubicom in learning

- Pervasive computing opens new possibilities for mobile learning e.g. using augmented reality
- Possible approaches for the topic
  - Security in mLearning: what threats are there in mLearning and how can they be countered or solved?
  - using mLearning for security education: can pervacive computing be used for security education?