

# Recent Developments in WLAN Roaming

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# Development in Finland

- Autumn 2002 WirLab presents WLAN roaming for commercial organizations based on RADIUS hierarchy -> first thoughts also for roaming between academic organizations
- Autumn 2002 WLAN roaming with TUT and WirLab.
- CSC/FUNET was interested -> unofficial root radius proxy server in TUT since autumn 2002.

# Development in Finland

- October 2003: Palosaari campus wireless network (Vaasa) joined to roaming area.
- December 2003: Sparknet (operating mainly in Turku) joined to roaming area.
- January 2004: panOulu joined to roaming area.
- January 2004: CSC officially started WLAN roaming pilot until June 2004.
- January 2004: Wireless Lappeenranta (LUT) joined to roaming area.

# European wide roaming

- TERENA has Task Force for European wide roaming (TF-Mobility).
  - Officially started at beginning of 2003, Unofficial meetings earlier.
  - Ending 06/2004
- TUT/ICE has been representing Finland/FUNET in that group.
- <http://www.terena.nl/tech/task-forces/tf-mobility/>

# European wide roaming

- Deliverables we have done/participated:
  - **Deliverable F:** "Inventory of web-based solution for inter-NREN roaming"
  - **Deliverable D:** "Inventory of 802.1X-based solutions for inter-NRENS roaming"
  - **Deliverable G:** (New!) "Preliminary selection for inter-NREN roaming"
  - Currently working on Deliverable H: Design of the test-bed and creation of the test-plan based on the roaming concepts selected out of Del G

# European wide roaming

- Roaming hierarchy is also RADIUS based.
- Currently connected countries/NRENs:
  - Croatia
    - 199 realms/organizations
  - Portugal
    - 12 realms/organizations
  - Finland
    - 20 realms/organizations
  - UK
    - Currently only UoS – full pilot is due 2nd half 2004
  - Germany
  - Netherlands
    - Ca. 20 realms/organizations

# Conclusion

- Proof of concept: RADIUS is scalable enough so technically this can be done
  - Nation wide
  - European wide
  - Worldwide if needed
- Main problems are political.
- Now it is up to CSC to start official service and up to organizations to join that service.