WIND: Wireless Networks of Devices

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Vision

• What?
  – System and protocols for location-dependent, mobile applications of wireless networks, devices, sensors and actuators

• Why?
  – Today’s protocols and APIs are inadequate

• How?
  – Invent an Intentional Naming System where names describe intent (e.g., attributes of data and entities)
Progress Through December 1998

- RadioLAN wireless LAN in building
  - Preliminary installation done on part floor
  - Measured throughputs in 5Mbps range

- WIND software
  - INS designed and implemented (preliminary) in Java
  - Intentional Name Resolvers resolve and route data
  - Efficient algorithms for name lookups and forwarding
  - Name discovery protocol for tracking
Six Month Plan

• Self-organizing protocol for Intentional Name Resolvers
  – Avoids manual configuration
  – Bootstrap, neighbor discovery and load management algorithms

• Applications
  – Complete and deploy mobile camera application
  – New applications with other devices (handhelds, TVs, etc.)