MANET AUTOCONF:
overview & scope

Thomas Clausen, Shubhranshu Singh

MN'05-Paris'05

- MN, '05
  - Ad hoc network Auto configuration BOF
    - IETF community interest
    - Comments on the work scope
- MN, '05-Paris'05
  - Charter refinement
  - IESG/IAB/Autoconf ML discussions
  - IESG approved the charter for external review

Paris'05

- Positive response & interest on the proposed charter
- Comments on the "problem statement" document

Autoconf Context

- MANETs assume
  - no a priori infrastructure
  - multi-hop environment
- Existing mechanisms for autoconf (IPv6 stateless, DHCP)
  - assume multicast link among all nodes, and/or
  - assume a central entity, reachable from all nodes

Main Purpose

- Standardize mechanisms for MANETs, allowing nodes to
  - configure unique local addresses
  - configure globally routable addresses
- support, but not necessarily depend on, the existence of any particular MANET (routing) protocol

Deliverables

- terminology and problem statement
- stateless mechanism for IPv6/MANETs
  - unique local, global (where applicable) addresses
- statefull mechanism for IPv6/MANETs
  - recognition that dhcp-hacks are used on MANETs already
- Mechanism to promote configured address uniqueness maintenance

A Couple of Comments

- Reuse existing specifications where appropriate
  - e.g. we should answer "how to make IPv6 stateless autoconf or DHCPv6 work in a MANET environment"
  - we should not e.g. "invent a new version of DHCPv6"
- Develop specifications
  - "configured address uniqueness maintenance"

WWW-page

- http://www.lix.polytechnique.fr/Labo/Thomas.Clausen/IETF/MANETAUTOCONF
  - mailing-list archives & subscription information
  - related I-D's

Thanks !

Shubhranshu@samsung.com
Thomas.Clausen@polytechnique.fr