AUTOCONF Charter

62th IETF, Minneapolis

- Charter proposal presented
  - broad ideas, few firm decisions
  - no milestones, deliverables, specifics
  - purposely open-ended - solicit/provoke thoughts
- Goal between 62th and 63th
  - trim off the excess
  - reach consensus on
    - firm & narrow charter
    - fix milestones

From 62th IETF in Minneapolis

Proposed charter

- To develop an address autoconfiguration solution, supporting
  - stand-alone, hybrid and/or intermittently connected mobile ad-hoc networks
  - IPv6 and/or IPv4
  - unique address assignment in face of
    - network partition
    - network merger
    - random node mobility within network
    - random node joining/leaving network

63th IETF in Paris

- Charter approved by the IESG for ext. review
  - context, deliverables, milestones
  - resulting from iterations with IESG/IAB & on Autoconf mailing-list

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.

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
- continued address-uniqueness promotion

Milestones

Oct 05: Submit "terminology and problem statement" document for WG review
Oct 05: Submit initial I-D(s) of candidate proposed AUTOCONF mechanisms and design frameworks

Feb 06: Submit "terminology and problem statement" document to IESG for publication as an informational RFC

Apr 06: Submit initial I-D of "stateless autoconfiguration mechanism" for WG review
Apr 06: Submit initial I-D of "statefull autoconfiguration mechanism" for WG review
Apr 06: Submit initial -ID of "configured address uniqueness maintenance" for WG review

Milestones

Aug 06: Revise WG documents and review

Dec 06 Revise documents based upon implementation experience

Apr 07: Submit "stateless autoconfiguration mechanism" specification and supporting documentation to IESG for publications as Proposed Standard

Apr 07: Submit "statefull autoconfiguration mechanism" specification and supporting documentation to IESG for publications as Proposed Standard

Apr 07: Submit "configured address uniqueness maintenance" specification and supporting documentation to IESG for publications as Proposed Standard

Oct 07: Close or recharter the WG

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"