

Agenda

- Agenda Bashing
- Status Update
- MANET address auto configuration for legacy hosts
- Next Steps

Status

- RFC5889 (finally) published
- Charter WGLCed,
 - Sent to IESG (today)

Charter (i)

Description of Working Group:

RFC 5889 presents one possible IPv6 addressing model for ad hoc nodes. In this model the ad hoc routers need to configure their network interface(s) with addresses valid in the ad hoc network, and may configure additional prefixes for use by attached nodes.

After completing the work on RFC 5889, the main purpose of the AUTOCONF WG is to standardize how existing IPv6 address configuration tools can be used for address configuration.

1. DHCPv6 operation over MANET, including:

- A DHCPv6-based mechanism for configuring required interface addresses for the routers in the ad hoc network. This mechanism is expected to produce addresses with properties outlined in RFC 5889. This mechanism uses the existing DHCPv6 protocol unchanged, and assumes a central node that can allocate addresses on a first-come-first-served basis. Other nodes in the ad hoc network will relay messages to the central node in order to help a new node get an address for itself. This mechanism is only suitable for deployments where a central node can be set up. It should be noted that many existing deployments employ Internet gateways that can act as such a central node as well. Future extensions such as central node election may make this mechanism suitable for also for stand-alone ad hoc networks.
although may exploit information maintained by such a routing protocol, if available.

Charter (ii)

- A DHCPv6-based mechanism for delegating a prefix(es) to each router for use by applications running on the routers themselves, or for configuration of attached hosts/networks. This mechanism works in a similar manner to the one above, but allocates prefixes instead of addresses.

Both mechanisms should be independent from operation of any specific MANET routing protocol, although may exploit information maintained by such a routing protocol, if available.

The working group will adapt and/or reuse existing protocols whenever reasonable and possible. No new duplicate address detection mechanisms are will be specified; it is expected that address uniqueness is guaranteed by the central node alone.

2. Analysis of Problem Space for distributed address configuration and service discovery.

The working group plans to establish design teams for rapidly advancing towards initial submissions for these two work items.

Goals and Milestones:

- Jan 2011 First working group draft of the "DHCPv6 operation over MANET"
- Jan 2011 First working group draft of the "Analysis of Problem Space"
- Sep 2011 Submission of the "DHCPv6 operation over MANET" to the IESG for publication as
- Sep 2011 Submission of the "Analysis of Problem Space" the IESG for publication as Informational RFC
- Sep 2011 Rechartering or Closing WG