APLUSP (A+P) BoF

IETF 76 – Hiroshima November 8-13, 2009

Wednesday: 13:00-15:00

Chairs:

Christian Jacquenet, christian.jacquenet@orange-ftgroup.com

Dan Wing, dwing@cisco.com

Note Well

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Logistics

- Note taker and jabber scribe?
- Meeting Materials (Slides, Agenda, etc.)
 - https://datatracker.ietf.org/meeting/76/materials.html
- Jabber/XMPP
 - aplusp@jabber.ietf.org
- Mailing List
 - shara@ietf.org
 - http://www.ietf.org/mailman/listinfo/shara

Agenda

13:00	BoF Goals	(Chairs, 20)
13:20	Overview of Address + Port draft-levis-behave-ipv4-shortage-framework-02	(Pierre Levis, 30)
13:50	Address + Port in a Mobile Environment draft-sarikaya-aplusp-dsmip-00 draft-sarikaya-aplusp-pmip-00	(Behcet Sarikaya, 15)
14:05	Issues with Address + Port	(Dave Thaler, 20)
14:25	Open Discussion	(all, 30)
14:55	Next Steps	(chairs, 15)

APLUSP BoF Scope

- BoF is limited to discussion of Dual-Stack Lite encapsulation scenario
 - To encourage IPv6 adoption
 - Other A+P scenarios add additional complexity
 - We are still learning what needs to be developed for A+P deployment
- We are **not** deciding between the four solutions
 - That is a Working Group decision

APLUSP BoF Scope

- Define requirements for IPv4 address and port borrowing applied to dual-stack lite
- Document and resolve IP suite of protocols problems with A+P applied to dual-stack lite
- Define requirements for provisioning A+P
 - Address assignment and port borrowing
 - Other endpoint coordination for routing, port assignment

Why A+P in Dual-Stack Lite

- Dual-stack lite uses IPv4-in-IPv6 encapsulation to provide IPv4 service over IPv6 core
- In SP deployment, NAT is in SP core

 A+P moves NAT back to subscriber endpoint

Work Outline

- A+P is in early stage of development
- Prototypes have demonstrated packet forwarding
- Some impacts of A+P already known; others will be discovered
 - Provisioning, operation
 - Unexpected side-effects on other protocols
- Need to explore those impacts in a constrained problem space

APLUS BoF: Goal

- Decide: should IETF take on this work?
 - Problem statement clear / solvable?
 - Who will help with charter text?
 - Who is willing to write / edit documents?
 - Who thinks the work should be taken on?
 Should NOT be taken on?

APLUSP BoF: Goal

- Should this work be Experimental? Standards Track?
- Should a new WG be formed for this work?
- Should this work be a new work item in an existing WG?
- Should this work be added to existing work item in an existing WG?