Network Virtualization Overlays (NVO3)

NVO3 Meeting, IETF 88, Vancouver

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Note Well

This summary is only meant to point you in the right direction, and doesn't have all the nuances. The IETF's IPR Policy is set forth in BCP 79; please read it carefully.

The brief summary:

- By participating with the IETF, you agree to follow IETF processes.
- If you are aware that a contribution of yours (something you write, say, or discuss in any IETF context) is covered by patents or patent applications, you need to disclose that fact.
- You understand that meetings might be recorded, broadcast, and publicly archived.

For further information, talk to a chair, ask an Area Director, or review the following:
BCP 9 (on the Internet Standards Process)
BCP 25 (on the Working Group processes)
BCP 78 (on the IETF Trust)
BCP 79 (on Intellectual Property Rights in the IETF)
Administrivia

• Blue Sheets
• Note takers + Jabber Scribe
• Mailing List:
  General Discussion: nvo3@ietf.org
  To Subscribe: nvo3-request@ietf.org
  In Body: subscribe your_email_address
Meeting Objectives
(Priority order)

- Progress current milestones
- Progress gap analysis and architecture
Agenda - 1

Opening Intro (15min)
1. Blue sheets, agenda bash, status update – Chairs – 15 mins

WG Updates
2. Data Plane Requirements – Marc Lasserre – 5 mins
draft-ietf-nvo3-dataplane-requirements-01
draft-ietf-nvo3-security-requirements-01
draft-ietf-nvo3-gap-analysis-00
Agenda -2

Architecture Discussion – 20 mins

5. NVO3 Architecture – Design Team – 20 mins
draft-narten-nvo3-architecture-01

6. NVE<->NVA communication for TRILL/LISP (Linda Dunbar, 10 min)
draft-dunbar-nvo3-nva-gap-analysis-01

Next Steps – 20 mins

7. Next steps discussion led by chairs
Agenda -3

Other GA/Applicability Statements – 60 mins

8. VXLAN L3VPN Encap (Lucy Yong, 15 min)
   draft-yong-l3vpn-nvgre-vxlan-encap-03.txt

9. GRE in UDP
   draft-yong-tsvwg-gre-in-udp-encap-02.txt

10. Generic Protocol Extensions in VXLAN (Paul Quinn, 5 min)
    draft-quinn-vxlan-gpe-01.txt

11. DHCP and Multicast Addresses in VXLAN (B. Sarikaya, 5 min)
    draft-sarikaya-dhc-vxlan-multicast-02.txt

12. L2TP Virtualization Profile. (Frank Xialiang, 5 min)

===== slides not received ======

13. LISP Control Plane (Yves Hertogs, 10 min)
    draft-hertoghs-nvo3-lisp-controlplane-unified-00.txt

14. ForCES as NVE to NVA Control Protocol. (Jamal Hadi Salim, 10 min)
    No draft
Changes to Milestones Updated!

Done Dec 2012 - Problem Statement submitted for IESG review
Nov 2013 Dec 2012 - Framework document submitted for IESG review
Dec 2013 2012 - Data plane requirements submitted for IESG review
Feb 2014 Dec 2012 - Operational Requirements submitted for IESG review
Feb 2014 Dec 2013 - Control plane requirements submitted for IESG review
Mar 2014 2013 - Gap Analysis submitted for IESG review
Apr 2014 2013 - Recharter or close Working Group

• Need to add milestones for Architecture and Use Cases
Document Status - 1

• New RFCs
  – None yet

• RFC Editors Queue
  – draft-ietf-nvo3-overlay-problem-statement
    • Mis-ref to draft-ietf-nvo3-framework
Document Status - 2

- draft-ietf-nvo3-framework
  - Awaiting update following WG LC
- draft-ietf-nvo3-dataplane-requirements
  - On agenda
- draft-ietf-nvo3-use-case
  - On going
- draft-ietf-nvo3-mobility-issues
  - On going
Document Status - 3

• draft-ietf-nvo3-nve-nva-cp-req
  – On going
• draft-ietf-nvo3-gap-analysis
  – On agenda
• draft-ietf-nvo3-security-requirements
  – On agenda
Next Steps Discussion - 1

• Process to rechartering for solutions (from Orlando IETF):

  Requirements → Gap Analysis → Decision → Shutdown, Recharter
Next Steps Discussion – 2

Documents

Problem

Framework/Requirements

Gap Analysis

Solution(s)

Solution(s)

NVO3

Other WGs

Existing outside NVO3, or new as individual draft in NVO3

GA A

Solution A

GA B

Solution B

GA C

Solution C

GA D

Solution D

Recharter/Shutdown Decision

Architecture

Defines how solutions hang together

Requirements

Recharter/Shutdown Decision

Architecture

Defines how solutions hang together

Solution(s)
Next Steps Discussion - 3

Decisions needed:
1. Do not need a new data plane
2. Look for consensus on 2 or 3 existing encaps
3. Control plane needs to support multiple data planes and NVO3 architecture

Chairs will ask list for WG consensus for data plane:
- Document consensus in individual drafts
- Any extensions will be evident from gap analysis