Network Virtualization Overlays (NVO3) Working Group

IETF 96, July 2016, Berlin

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Secretary:

Open

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Administrivia

- Blue Sheets!
- Note takers + Jabber Scribe?
- Jabber / XMPP

  xmpp:nvo3@jabber.ietf.org?join

- Mailing List:

  General Discussion: nvo3@ietf.org

  To Subscribe: https://www.ietf.org/mailman/listinfo/nvo3

  Archive: http://www.ietf.org/mail-archive/web/nvo3/index.html

Agenda

1.   **WG Chairs - Welcome, Agenda Bashing, Status Update**   (15 min)

2.   **IEEE802.1Qcn update: VDP extension to support NVO3** (10 min)
   https://datatracker.ietf.org/doc/draft-ietf-nvo3-hpvr2nve-cp-req   Presenter: Pat Thaler

3.   **Identifier Locator Addressing** (10 min)
   https://datatracker.ietf.org/doc/draft-herbert-nvo3-ila/   Presenter: Tom Herbert

4.   **Overlay OAM Design team update** (20min) Presenter: Greg Mirsky

5.   **In-band OAM for NVO3** (10 min)   draft-brockners-inband-oam-requirements-00.txt
   draft-brockners-inband-oam-data-00.txt
   draft-brockners-inband-oam-transport-00.txt
   draft-brockners-proof-of-transit-00.txt
   Presenter: Shwetha Bhandari shwethab@cisco.com

6.   **Discussion** (25min)
   - Data Plane encapsulation

If time permits

7.   **NVo3 Control Plane Protocol Using IS-IS** (10min)
   https://tools.ietf.org/html/draft-xu-nvo3-isis-cp-02   Presenter - Xuxiao Hu

8.   **Tunnel stitching for NVO traffic** (10min)
   https://tools.ietf.org/html/draft-yong-nvo3-tunnel-stitching-00   Presenter - Lucy Yong

Personnel

- Sam Aldrin has taken over as co-chair from Benson
    - Please welcome Sam
    - Thanks to Benson for many years of contribution and support to the WG
- Looking for volunteers for secretary

Milestones

-      Dec 2015   Recharter or close working group
-      Oct 2015   Data Plane Solution submitted for IESG review
-      Oct 2015   End Device - NVE Control Plane Solution submitted for IESG review
-      Oct 2015   NVE - NVA Control Plane Solution submitted for IESG review
-      Oct 2015   Security Requirements submitted for IESG review
-      Oct 2015   Operational Requirements submitted for IESG review
-      Oct 2015   Control Plane Requirements submitted for IESG review
-      Oct 2015   Data Plane Requirements submitted for IESG review
-      Apr 2015   Use Cases submitted for IESG review
-      **Publication requested**   Architecture submitted for IESG review
-      **Done**   Framework document submitted for IESG review
-      **Done**   Problem Statement submitted for IESG review

OAM

- Routing Area Overlay OAM DT: Common OAM framework across overlay networks
  - On agenda
- NVo3 OAM work
  - Develop OAM Requirements and Framework for NVo3 Data Encaps
  - Solutions - Transcending TraceRoute, PMTUD, Path Detection etc..
  - Discussion of YANG model

Document Status - 1

- RFCs
  - RFC7364: Problem Statement: Overlays for Network Virtualization
  - RFC7365: Framework for Data Center (DC) Network Virtualization
  - No new RFCs since last IETF

- RFC Editors Queue
  - None

Document Status - 2

Requirements:

– draft-ietf-nvo3-dataplane-requirements

• Completed WG Last Call

– draft-ietf-nvo3-nve-nva-cp-req-04

– draft-ietf-nvo3-hpvr2nve-cp-req-02

• Liasion to IEEE, pending update to VDP

– draft-ietf-nvo3-security-requirements-04

• Completed WGLC with inadequate feedback

We plan to progress requirements in parallel with applicable solutions

Document Status - 3

Architecture:

- draft-ietf-nvo3-arch-04

- Publication requested

Multicast Framework:

-draft-ietf-nvo3-mcast-fwk-04

-Passed WG last call.

-Awaiting shepherds write up

Use Cases:

- draft-ietf-nvo3-use-case-08

- Chairs a looking for comments on how this draft helps define solutions before progressing

Document Status - 4

- Other work:
  - Control Plane mapping distribution draft
    - draft-dunbar-nvo3-nva-mapping-distribution-03.txt
    - Authors have requested adoption as working group draft
  - YANG Models
    - Looking for consolidated effort to develop NVO3 YANG model
    - Volunteers to help with IEEE YANG modelling
    - VXLAN: draft-chen-nvo3-vxlan-yang-03.txt
    - Others?

Data Plane Draft Discussion

- Three WG documents on data plane encap solutions
  - draft-ietf-nvo3-vxlan-gpe-02
  - draft-ietf-nvo3-gue-04 => IntArea WG
  - draft-draft-ietf-nvo3-geneve-02
- We are not helping the community by progressing all three to draft standard
- Possible options:
  1. Publish all as informational/experimental
     - Move one to standards track later
  2. Pick one now
  3. Others?