Network Virtualization Overlays (NVO3) Working Group

IETF 96, July 2016, Berlin

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Secretary: Open
Note Well

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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
Agenda

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

2. **IEEE802.1Qcn update: VDP extension to support NVO3** (10 min)
   - Presenter: Pat Thaler

3. **Identifier Locator Addressing** (10 min)
   - 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

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

   **If time permits**

7. **NVo3 Control Plane Protocol Using IS-IS** (10min)
   - Presenter - Xuxiao Hu

8. **Tunnel stitching for NVO traffic** (10min)
    - 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
• Liaison 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
  2. Pick one now
  3. Others?