Network Virtualization Overlays (NVO3) Working Group

IETF 98, March 2017, Chicago

Chairs:  Sam Aldrin <aldrin.ietf@gmail.com>
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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
Meeting Logistics

• First 40 mins will run like a “normal” IETF meeting
• Final 50 mins will be roundtable session on some topics of importance to the working group
• We will follow a similar pattern to the roundtable sessions in Seoul.
• As usual, this is an experiment.
• We have a second session on Thursday that we will use to report back on these sessions
Agenda – Tuesday 28th March

1. Welcome, Agenda Bashing, Status Update - WG Chairs (10 min)

2. Data Plane Design Team and draft-geneve update, 10 min – Sami Boutros
   draft-dt-nvo3-encap-01
   draft-ietf-nvo3-geneve-04

3. draft-huang-nvo3-vxlan-extension-for-vbras-00, 5 min – Lu Huang

4. draft-ooamdt-rtgwg-ooam-header, 5 min – Greg Mirsky.

5. draft-ooamdt-rtgwg-demand-cc-cv, 5 min – Greg Mirsky.

6. Moving to roundtables, topics, and expectations. 5 min. – WG chairs.

7. Roundtable discussions. 50 min.
Agenda – Thursday 30th March

1. Administrativia. 5 min. WG Chairs.
2. Feedback from Roundtable Sessions, 45 min - Roundtable topic leaders.
3. WG plans. 10 min - WG Chairs.
WG Progress: Milestones

Done - Problem Statement submitted for IESG review
Done - Framework document submitted for IESG review
Done - Architecture submitted for IESG review
Done - Use Cases submitted for IESG review
Aug 2017 - Data Plane Solution submitted for IESG review
Sep 2017 - Data Plane Requirements submitted for IESG review
Dec 2017 - Control Plane Requirements submitted for IESG review
Dec 2017 - Operational Requirements submitted for IESG review
Dec 2017 - NVE - NVA Control Plane Solution submitted for IESG review
Dec 2017 - End Device - NVE Control Plane Solution submitted for IESG review
Dec 2017 - OAM Solution submitted for IESG Review
Dec 2017 - Recharter or close working group
Encapsulation Design Team

• Design Team has published a draft:
  – draft-dt-nvo3-encap-01
  – On agenda

• Draft recommends progressing draft-ietf-nvo3-geneve

• draft-geneve is being updated in line with recommendations

• Other encapsulation drafts will be parked for now and may be progressed as informational/experimental later

• Status of encapsulation DT draft:
  – Draft documents the experience of picking an encapsulation, which is worth preserving
  – Chairs intend to issue a call for WG adoption in due course

• Formal design team will be closed once draft is adopted
Virtual interim Meeting – 1st March 2017

• Virtual interim discussed output of design team and next steps
• On agenda of this meeting
• RFCs
  – RFC7364: Problem Statement: Overlays for Network Virtualization
  – RFC7365: Framework for Data Center (DC) Network Virtualization
  – RFC8014: An Architecture for Data-Center Network Virtualization over Layer 3 (NVO3)

• RFC Editors Queue
  – draft-ietf-nvo3-use-case-17
Document Status - 2

Requirements:
- draft-ietf-nvo3-dataplane-requirements
  • Completed WG Last Call
- draft-ietf-nvo3-nve-nva-cp-req
- draft-ietf-nvo3-hpvr2nve-cp-req
- draft-ietf-nvo3-security-requirements
  • Completed WGLC with inadequate feedback
  • Text should be used to define security considerations in solutions drafts
  • Currently expired

We plan to progress requirements in parallel with applicable solutions
Document Status - 3

Multicast Framework:
  - draft-ietf-nvo3-mcast-fwk-05
  - Awaiting shepherd’s write up (Sam)

Data Plane Encapsulation:
  – Draft-ietf-nvo3-geneve-04
  – On agenda
Session Presentations
1. Data Plane
   - Identify and try to resolve outstanding issues with the chosen data plane encapsulation
     • Sami Boutros

2. Control Plane
   - What solutions can we apply to NVO3? Consideration of both centralised and distributed solution applicability to NVO3. Plan for applicability draft for solutions.
     • Benson Schliesser

3. Security
   - Solutions to address security requirements in NVO3. What is really needed? How is data plane and control plane impacted? Anything missing from draft-geneve?
     • Daniel Migault
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Thursday Afternoon Session III

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Agenda – Thursday 30th March

1. Administrativia. 5 min. WG Chairs.

2. Feedback from Roundtable Sessions, 45 min - Roundtable topic leaders.
   - Data Plane, 15 min – Sami Boutros
   - Control Plane, 15 min – Benson Schliesser
   - Security – 15 min – Daniel Migault

3. WG plans. 10 min - WG Chairs.
NVO3 Next Steps

1. Update draft-dt-nvo3-encap-01 per round table discussion
   – WG call for adoption
2. If we have consensus:
   – Update draft-ietf-nvo3-geneve-04
   – WG Last call
3. Chairs would like to see more progress on control plane
   – Form a design team for a control plane applicability draft
   – F2F Interim meeting to progress control plane prior to next IETF.
   – Comments?