Network Virtualization Overlays (NVO3) Working Group

IETF 98, March 2017, Chicago

Chairs: Sam Aldrin <aldrin.ietf@gmail.com> Matthew Bocci <matthew.bocci@nokia.com>

Secretary: Ignas Bagdonas <ibagdona.ietf@gmail.com>

Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of RFC 5378 and RFC 3979 (updated by RFC 4879).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult RFC 5378 and RFC 3979 for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

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

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)
- 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 stepsOn agenda of this meeting

Document Status - 1

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

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

Roundtable Topics and Chairs

- 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

Network Virtualization Overlays (NVO3) Working Group

IETF 98, March 2017, Chicago Thursday Afternoon Session III

Chairs: Sam Aldrin <aldrin.ietf@gmail.com> Matthew Bocci <matthew.bocci@nokia.com>

Secretary: Ignas Bagdonas <ibagdona.ietf@gmail.com>

Note Well

Any submission to the IETF intended by the Contributor for publication as all or part of an IETF Internet-Draft or RFC and any statement made within the context of an IETF activity is considered an "IETF Contribution". Such statements include oral statements in IETF sessions, as well as written and electronic communications made at any time or place, which are addressed to:

- The IETF plenary session
- The IESG, or any member thereof on behalf of the IESG
- Any IETF mailing list, including the IETF list itself, any working group or design team list, or any other list functioning under IETF auspices
- Any IETF working group or portion thereof
- Any Birds of a Feather (BOF) session
- The IAB or any member thereof on behalf of the IAB
- The RFC Editor or the Internet-Drafts function

All IETF Contributions are subject to the rules of RFC 5378 and RFC 3979 (updated by RFC 4879).

Statements made outside of an IETF session, mailing list or other function, that are clearly not intended to be input to an IETF activity, group or function, are not IETF Contributions in the context of this notice. Please consult RFC 5378 and RFC 3979 for details.

A participant in any IETF activity is deemed to accept all IETF rules of process, as documented in Best Current Practices RFCs and IESG Statements.

A participant in any IETF activity acknowledges that written, audio and video records of meetings may be made and may be available to the public.

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 – 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?