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Network Virtualization Overlays (NVO3)

NVO3 Meeting, IETF 85,
Atlanta, GA

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Matthew Bocci (matthew.bocci@alcatel-lucent.com)

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

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

Meeting Objectives

(Priority order)

- The agenda will be organized to align with our Dec 2012 milestones.
- See <http://tools.ietf.org/wg/nvo3/charters> for more information.

Agenda -1

Opening Intro (05 min)

- 05 mins - Blue sheets, agenda bash, status update – Chairs

Problem Statement and Framework Discussion (40 min)

- 20 mins - Framework - Marc Lasserre
draft-ietf-nvo3-framework
Objective: Get this to WG last call
- 20 mins - Problem Statement – Thomas Narten
draft-ietf-nvo3-overlay-problem-statement
Objective: Get this to WG last call

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Requirements (25 min)

15 mins - Data Plane Requirements - Nabil Bitar

draft-bl-nvo3-dataplane-requirements

Objective: Adopt as a WG draft

5 mins - Discussion of Operational Requirements - Chairs

draft-ashwood-nvo3-operational-requirement

Objective: Adopt as a WG draft

5 mins - Discussion of Control Plane Requirements - Chairs

draft-kreeger-nvo3-overlay-cp

draft-kreeger-nvo3-hypervisor-nve-cp

Objective: Adopt as a WG draft

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Milestone-related Drafts (45 min)

10 mins - Network-related VM Mobility Issues - Yakov Rekhter
draft-rekhter-nvo3-vm-mobility-issues

10 mins - Requirements for Mobility and Interconnection of Virtual Machine and Virtual Network Elements - Richard bin Liu
draft-khasnabish-vmmi-problems

10 mins - Signaling VM Activity to the NVE - Kireeti Kompella
draft-kompella-nvo3-server2nve

10 mins - Mechanism and signalling between TES and NVE - Yingjie Gu
draft-gu-nvo3-tes-nve-mechanism

10 mins - Path Optimization for LAN Extension - Xiaohu Xu
draft-xu-nvo3-lan-extension-path-optimization

10 mins - Use Cases for DC Network Virtualization Overlays - Lucy Yong
draft-mity-nvo3-use-case

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Architecture (20 mins)

20 mins – NVO3 Architecture -Chairs

Milestones

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

Working Group Document Status

- draft-ietf-nvo3-overlay-problem-statement
 - On agenda
 - Ready for WG Last Call?
- draft-ietf-nvo3-framework
 - On agenda
 - Ready for WG Last Call?

Interim Meeting

- Interim meeting was held in Westford, MA, on 20th September 2012
- Significant discussion of problem statement and framework, control and data plane requirements, as well as operational requirements and some solutions
- Minutes / proceedings available at:
<http://www.ietf.org/meeting/interim/proceedings.html>

Operational Requirements

- We are chartered to cover operational requirements
- draft-ashwood-nvo3-operational-requirement-00.txt
- Would like to see more progress
- Chairs looking for volunteers from operators to help with this effort
- Will issue a call for adoption shortly

Control Plane Requirements

- Following the interim meeting, the control plane requirements draft has been split into:
 - Overlay CP requirements:
 - draft-kreeger-nvo3-overlay-cp-02
 - NV Hypervisor-to-NVE CP requirements:
 - draft-kreeger-nvo3-hypervisor-nve-cp-00
- Please read the drafts and send comments to the list
- Looking to adopt CP requirements following adoption of the data plane requirements

NVO3 Architecture

- Framework already provides a guide to the functional components and how they relate
 - Requirements/solutions are difficult if scope too broad
 - Goal: better-define the focus of the WG
- Architecture will provide a skeleton built from the framework components into which solutions can fit

NVO3 Architecture

- Design team has been volunteered to capture consensus of the WG in an architecture draft
- This draft will evolve in parallel with solutions