NVo3 Interim meeting: 10/21/14

Attendees: Alia, JF Tremblay, Lawrence K, Linda D, Michael S, Sowmini, Thomas N, Tom H, Qiang Z, Ilango G, Sebastein J, Lucy Y, Erik N, Behcet S, Jesse G, David M, Jon H, Pat T, Dan R,

Minutes:

- No recording due to space issues on Webex. Ray is working to solve this issue, but couldn't get it resolved by this meeting.
- Matthew could not attend the meeting due to some personal work.
- Have three presentation/drafts for this interim

Charter Update:
- Completed the re-charter
- Posted the milestones
- Split into requirement milestones and solution milestones

Linda> There will be many NVE-NVA drafts, do you think all should be submitted by the milestone indicated?
Benson> These milestones are not meant to be prescriptive. May not happen by the time indicated but use as a guideline.
Erik> Regd requirements, is there enough energy to finish?
Benson> According to the charter, these (requirements) are optional.
Erik> You want to use this to pick a solution? If the goal is to help choose a solution, as requirements is a non-trivial exercise.
Benson> Would like you and others to critique on the mailing list. Charter specifies one control plane, but we do have wiggle room for others.
Tom H> Will solutions be considered now?
Benson> Encourage to have solution related documents submitted

Behcet – VM Mobility protocol
- There are some terminology issues in the draft and presentation. So, please ignore them for now
- There is some disconnect between 7364 and 7365
- If VM gets new address, use registrations to NVE or VM manager.
- If address do not change, use host routes and use BGP to optimize the updates.
Tom H> If VM gets new address mean, does it mean it will translate to new address?
Thomas > This WG never contemplated VM changing its address
Behcet> Explaining pros and cons of each type
Bhumip > We could articulate in the draft

- When VM with one subnet address to another subnet, then it is topologically incorrect
- VM with register with D-NVE

- Another mechanism is to use Tunnels but adds overhead

Behcet – Is this something the WG should work on?

Pat> I thought it was implicit and we tunneling to let the NVE know where the node is. Already settled on tunnel based solution.

Benson> Take it to the list.

Linda: TS Migration

- This draft added solution from Rahul Agarwal draft.
- Here we are advocating NVA to administer locally administered VLAN ID's
- Two solutions, NVA based and E-VPN based.
- For details, please look into draft
- Optimal routing has two solution proposed.

Bhumip> In terms of implementations, does option 1 and 2 been implemented

Linda> Both were implemented. NVGRE implementations use proxy based model.

Alia> In NVo3 we are not talking about BGP based solutions.

Linda> We just explained it, is that ok?

Alia> No

Benson> If you want to develop a solution, only NVA based solution is to be in NVo3. E-VPN should be in BESS WG

- L3 migration, main issue is IP optimal routing
- Host routing and Designated NVE's are two solutions
- There are some issues when encryption is used

Tom H> With triangular routing, it is not optimal

Erik> Are you assuming NVE3 do L3 for host routing?

Linda> Yes

Tom H> Should quantify which solution could be used where

- Had good discussion on mailing list.
- Would like to call for WG adoption

Benson> We should take it to mailing list.

Benson> Need to explore more on triangular routing. Could talk at Honolulu and see how to take it forward.

Linda: NVA mapping distribution mechanism

- NVA to NVE's could be connected in many ways
- NVA could be hosted on a separate server or embedded on a NVE.

Bhumip> Have we decided to focus on logically centralized NVA?

Benson> Charter says Logically centralized NVA.

Tom H> You mention VNID bitmap, doesn't it make a large bitmap? The virtual networks ID may not be sequential.

Linda> We could take the details to mailing list

Tom H> How frequent is it?

Linda> There are more ways. One way is to request at the re-start, to request all the VN ID's. Later on it could be incremental.

- As this is first version and received lots of suggestions, will take it to mailing list.

Benson: Open Discussion

- Sam to send out the WG slot request later today. Will limit to the topics which had discussion on the mailing list.

Bhumip> When the charter be officially finalized
Benson> AFAIK, it is done and is on datatracker.
Benson> See you all at Honolulu