NEMO Multihoming Issues:

Status Report

Prepared for 61st IETF NEMO WG

By

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draft-ietf-nemo-multihoming-01.txt

Change-Log

- ☐ Changes to draft-ietf-nemo-multihoming-issues-01.txt
 - Mostly to address issues raised by Marcelo
 - **❖**Issues List:

http://www.mobilenetworks.org/nemo/draft-ietf-nemo-multihoming-issues/

Issues #1 (Accepted)

- □[Section 1]: IP version
 - ❖IP version: IPv4 or IPv6 or Both?
- □ Resolution:
 - **❖**Inserted clarifying text

Issues #2 (Rejected)

□[Section 2]: Discussion of MNNs being multihomed

❖Is discussion on whether MNN is multihomed useful in a NEMO WG document?

□ Resolution:

*We felt that such discussion is beneficial

Issues #3 (Accepted)

□[Section 2.3]: Home Agents Advertising Different Prefix

❖ Use of reference [9] together with text on home agents being in different domains advertising same prefix

□ Resolution:

❖Removed text on description of whether HA belongs to the same administrative domain or not

Issues #4 (Partly Accepted)

□ [Sect 2.6]: Description of (n,1,n) network

❖ Description of (n,1,n) network: objection to the use of the word: "different" in different multiple global routes and different mobile network prefixes.

□ Resolution:

The text is modified to

The (n,1,n) mobile network has more than one MR; multiple global routes and different MNPs are advertised by the MRs.

Issues #5 (Rejected)

- □[Section 3]: Descriptions of benefits of multihoming
 - ❖ Description of benefits of multihoming: Keep it in reference [6] or put in the draft
- □ Resolution:
 - ❖If reference [6] is published, no reason to duplicate text

Issues #6 (Partly Accepted)

- □[Section 3.1]: Description of benefits in each deployment scenario
 - Some benefits were not mentioned when they should be
- □ Resolution:
 - Updated the benefits listing

Issues #7 (Accepted)

- □[Section 3.2]: Description of prerequisite
 - ❖ Suggest addition of multiple tunnels maintained simultaneously

□ Resolution:

Updated the description that multiple tunnels must be maintained simultaneously to enjoy certain benefits

Issues #8 (Rejected)

- □[Section 4.1]: Inclusion of other cases when discussing problem
 - ♦ Only case (1,1,1) is analyzed in Section 4.1
 - ❖Suggest to analyze all or none
- □ Resolution:
 - ❖To list all, would be too lengthy
 - To list none, there would be no illustration
 - ❖ Modified text to clarify that (1,1,1) is just an example

Issues #9 (Accepted)

□[Section 4.3]: Description on ingress filtering

❖Too many implicit assumptions on the specific configuration used to describe the problem

□ Resolution:

- **❖**Modify text so that:
 - Include general description of ingress filtering in the beginning of the section
 - The example given in Figure 9 is clearly specified as such: an example only

Issues #10 (Accepted)

□[Section 4.4]: Description on failure detection

- ❖ Did not explore other failure modes
- Media availability detection may be used to support ubiquity and failure detection

□ Resolution:

- ❖ Added text to Section 4.4 to explore failure modes other than the egress link of mobile router
- **❖** Added Section 4.5: Media Detection

Issues #11 (Accepted)

- □[Section 4.10/11]: Description of Routing Infrastructure
 - The problem domain of Multi6 WG
 - **❖** What is "Internet Router Registry"?
- □ Resolution:
 - We would add in more text to follow Multi6
 WG
 - Remove "Internet Router Registry" and instead describe burden to routing table

Issues #12-13 (Open)

☐ Issue #12: [Appendix B]

- ❖ Description of tunnel re-establishment mechanism in Appendix B
- **❖** Nested tunneling
- ❖ Did not solve the problem of ingress filtering with multiple prefixes

☐ Issue #13: [Appendix B]

- ❖ The mechanism in Appendix B requires more work to fully develop it
- ❖ Suggest to move it into a separate draft

☐ Resolution:

Open

Moving Forward

□Issues marked as [Accepted/Rejected]:

Would be marked as [Close] without further comments

☐ How to close issues #12-13

- ❖Option 1: Ignore it, its just an appendix
- ❖Option 2: Move it to a separate draft

Which Problems Should be Solved