

Additional Work Items for NEMO deployment

***Mext Working Group
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Thierry Ernst / INRIA

- ◆ 2007 missions
 - ◆ Gather NEMO RO requirements from 3 use cases
 - ◆ Automobile: draft-baldessari-c2ccc-nemo-req-01.txt
 - ◆ Aeronautics: draft-eddy-nemo-aero-reqs-01.txt
 - ◆ Personal mobile router: draft-ng-nemo-ce-req-00.txt
- ◆ Purpose:
 - ◆ Work on solutions that will allow NEMO deployment
 - ◆ Help the industry behind these use cases to get involved at the IETF

NEMO work items in MEXT: A bit of history

- ◆ NEMO WG was chartered to work on RO requirements as a follow up of:
 - ◆ RFC 4888: NEMO RO PS
 - ◆ RFC 4889: NEMO RO Sol Space Analysis
- ◆ Documents are considering all scenarios where routing is not optimal
- ◆ Aim 1: defining NEMO WG work items before rechartering NEMO WG
 - ◆ Potential mobile edge multihoming work items left for MonAmi6 WG
- ◆ Aim 2: avoid working on solutions for RO scenarios where there is no use cases

NEMO work items in MEXT: Deployment requirements

- ◆ Situation has changed:
 - ◆ NEMO WG, MonAmi6 WG and MIP6 merged into MEXT
 - ◆ Time has passed
- ◆ Sometimes, there is no clear cut between RO and multihoming
 - ◆ e.g. global HAHA
- ◆ Just collecting RO requirements doesn't make much sense anymore:
 - ◆ RO solutions alone will not help deploying NEMO
 - ◆ May be counter productive to work on RO solutions without considering deployment requirements
 - ◆ If not considered all at once, the RO solution may be broken by solutions for other deployment requirements

NEMO work items in MEXT: Deployment requirements

- ◆ Originally, use case requirements were not only considering RO requirements:
 - ◆ <http://www3.ietf.org/proceedings/06nov/slides/nemo-3/sld1.htm>
 - ◆ <http://www3.ietf.org/proceedings/07mar/slides/nemo-7.pdf>
- ◆ For the 3 use cases, we should collect requirements for deploying NEMO considering the following issues:
 - ◆ RO:
 - ◆ **NEMO to NEMO**
 - ◆ **nested NEMO**
 - ◆ Multihoming
 - ◆ **Support of multiple global HAs**
 - ◆ **HA synchronisation (cf RFC 4980)**
 - ◆ **MR synchronisation (cf RFC 4980)**
 - ◆ **multiple HoAs**
 - ◆ Prefix delegation
 - ◆ And also
 - ◆ **Multicast**
 - ◆ **Security / access control / location privacy**

NEMO work items in MEXT: Moving forward

- ◆ Extend the documents with non-RO requirements
- ◆ Use RFC 4888, 4889 and 4980 as an (non complete) input
- ◆ Identify common requirements for all 3 identified use cases
- ◆ Work in priority on solutions for common requirements
- ◆ Solutions shall be the same for all use cases