

# Current Status of the NEMO RO Discussion

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# Outline

- Current status
- Mailing list discussions
- Conclusion

# Current Status

- Related I-Ds
  - draft-thubert-nemo-ro-taxonomy-04
  - draft-watari-nemo-nested-cn-01
  - draft-clausen-nemo-ro-problem-statement-00
  - draft-zhao-nemo-ro-ps-01

# Current Status

- Compared with the WG charter requirements
  - A detailed problem statement for route optimization
    - ✓ The problem of sub-optimal route in various NEMO scenarios are analyzed completely.
  - Analysis of various approaches to solving this problem
    - ✓ The space of various approaches are classified and explored though there are some concerns remained.
  - Analysis of the issues and tradeoffs involved
    - ✓ The related tradeoffs are analyzed almost completely though there are some new issues raised.
  - The interaction between route optimization and IP routing
    - ✓ NEMO RO does not change the existing Internet routing infrastructure but some involved nodes, CN, CR, MR etc.
  - Security considerations for the various approaches
    - ✓ Security considerations are analyzed to the various extents in the related I-Ds. More discussions are needed.

# Discussions on the Mailing List

- General discussions
  - Should we separate the problem statement part from the solution space analysis part?
  - The draft should avoid being solution-specific.

# Discussions on the Mailing List

- Approach analysis related discussions:
  - Completeness issue
  - Taxonomy: how to classify the space of approaches
- Intra-NEMO problem:
  - Nested topology discovery (to reach the Internet)
  - Topological loop prevention
  - MANET, Tree-Discovery?

# Discussions on the Mailing List

- Tradeoff related discussions:
  - the effects of handoff in relations with delay, number of signaling messages, and nest level.
- Security related discussions:
  - Inside nested NEMO network
    - Authentication, authorization, malicious node etc.
  - RR test on network prefix: the new challenges to the original MIP6 RR test
    - draft-ng-nemo-rrnp-00

# Contents of WG Draft

- Problem Statement
- Analysis of RO Approaches
- Related Issues and Trade-offs of RO
- Appendix?
  - Classification (as in draft-watari)?
  - Evaluations criteria/matrix (as in draft-zhao)?

# Questions

- Is this content sufficient?
- Should these be in single or multiple documents?
- Use draft-thubert as the base and merge in other drafts?