A Realization of Network Slices for 5G Networks Using Current IP/MPLS Technologies

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History Log Since IETF#119

-04 (03/24): WGLC

-05 (04/24)
  - Changes to address the comments raised during the WGLC period, mainly from Jie and Xuesong, e.g.,
    - Ensure **better alignment** with the application I-D
    - Use **consistent** terminology
    - Clarify customer of end-to-end slice customer vs. customer (realization)
    - **Removed NRP** from the list of transport plane candidate because NRP is not part of "current IP/MPLS technologies commonly used in operators’ networks"
  - Suggestion to remove the addressing example to a separate document
    - Authors explained that this is **not about making recommendation**, but **exemplifying** a local design that can be used by operators using existing tools
  - No follow-up since then
History Log Since IETF#119

• -06 (05/24) to -08 (06/24)
  – Received a thorough review from Adrian
    • **Document structure and new content**
      – Many changes to enhance the overall document structure.
      – Most of Adrian’s suggestions were taken into account (add scalability discussion, etc.)
    • **Keep or remove the 3GPP Appendix**
      – An LS was sent to 3GPP for review
    • **Map/Unmap**: Clarified in the draft that binding back a packet received from the TN is not within the scope and classification is the business of the non-TN domain
    • **Transport plane vs NRP vs Filtered Topology slice**
      – Went with “Inter-PE Transfer Plane” as we need a term to refer to the realization of that part
      – Added new text to explain the link with the concept of “underly-transport” defined in other RFCs
      – Clarified that (multiple) NRPs can be used but that’s out of scope. This is consistent with the changes made in -05
      – Revealed some confusion about the use of “and” in some RFC 9543 definitions. That discussion can happen as part of the erratum discussion, not this draft
  • **No follow-up from Adrian since 31/05**
History Log Since IETF#119

-07 (05/24)
  - Comments from Deborah about addressing
    - Deborah ACKed that the revised version is "clearer on the addressing being local" but questioned that this might not belong to “existing technologies”
    - Authors clarified that configuring explicit addresses is definitely an existing practice
    - No follow-up since 05/24. We consider that point closed

-08 (06/24)
  - Questions for clarification from Greg about OAM
    - Whether there are gaps in RFC7276 or how to assess isolation objectives
  - Clarified that there are missing tools (e.g., SFC) but the scope is to leverage existing tools
  - No change was needed
  - ACKed by Greg (06/24)
Next Steps

• The authors actively engaged with all reviewers to address their comments, make changes, and provide rationale for not making changes, etc.

• The authors believe -08 is ready to be sent to the IESG for publication