IETF Network Slice Controller and its associated data models
draft-contreras-teas-slice-controller-models-00

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Problem statement

• **NSC structure:** two essential procedures to be performed by the NSC
  • Mapping of IETF Network Slice requests
  • Realization of them
• **Data models:** Different views at the time of provisioning and operating IETF Network Slices
  • Customer's view, mostly focused on the individual IETF Network Slice request
  • Provider's view, mostly focused on the provisioning and operation of the overall IETF Network Slices in the network
• **Goal:** identify major NSC components and how associated data models apply
Proposal

From [I-D.nsdteas-ietf-network-slice-definition]

✓ Structure
  • **Mapper** - processes the customer request, putting it into the context of the overall IETF Network Slices in the network
  • **Realizer** - processes the complete view of all the slices in the network, decides the proper technologies for realizing the IETF Network Slice and triggers its realization

✓ Models
  • **(a)** -> customer’s view, e.g. [I-D.wd-teas-ietf-network-slice-nbi-yang]
  • **(b)** -> provider’s view, e.g. [I-D.liu-teas-transport-network-slice-yang]
  • **(c)** -> models per network controller, out of scope
Next steps

- Solve some open points (signaled as TODO items in the document):
  - Breakdown of "NS mapper" and "NS Realizer"
  - Discuss complementarity of the aforementioned models for satisfying Type 1 and Type 2 Services as per [RFC8453].
- Collect feedback / comments from the WG
- Propose the draft as agreed outcome of TEAS NS DT
  - Co-authors of the two proposed models so far are also co-authors of this draft
- Prepare a new version for IETF#110