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

draft-srld-teas-5g-slicing-02

Krzysztof Szarkowicz, Richard Roberts, Julian Lucek, John Drake (*Juniper*)
Mohamed Boucadair (*Orange*)
Luis M. Contreras (*Telefonica*)
Ivan Bykov (*Ribbon Communications*)
Reza Rokui *(Ciena)*
Luay Jalil *(Verizon)*
Beny Dwi Setyawan (*XL Axiata*)

Overall Goal: a reminder

- Assess to what extent IETF Network Slices can be implemented using current IP/MPLS technologies
- With slicing for 5G as the use-case.

Diffs between -02 and -00

- Reza Rokui, Luay Jalil and Beny Dwi Setyawan have joined as co-authors.
- Added to Section 2: We describe how the Network Function to Network Function datapath is segmented, corresponding to different orchestration domains (NSC vs SMO).
- Moved the overview of 5G networking from Section 2 to Appendix B
- Section 3 includes an additional hand-off method: Interprovider Option B. We may add some more methods in a future version.
- Added a new Section, Section 5, about mapping to underlays
  - 5QI-unaware Mode
  - 5QI-aware Mode

Next Steps

- Request adoption as a WG draft
  - Strong support in the WG for the draft: seems to be the right direction