

Mobility Aware Transport Network Slicing for 5G

draft-ietf-dmm-tn-aware-mobility-03

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Updates in draft-ietf-dmm-tn-aware-mobility-02 and 03

- 0 Focus on mobile - transport network slicing
(comment in IETF 112: draft text is all over the place)
- 0 Reference to drafts on slices
(comment in IETF 112)
- 0 Miscellaneous editorial changes

Focus on mobile - transport network slicing

Snippets of few key changes

< 1. Introduction >

... A slice in 3GPP is a logical chunk of 3GPP network resources that is dynamically created and may include core network control and user plane functions as well as access network functions. A slice instance that spans user plane network functions including the UPF (User Plane Function), gNB-CU (generalized Node-B Centralized Unit) and gNB-DU (generalized Node-B Distributed Unit) and its interfaces N3, N9, F1-U) are clearly defined, however:

- o 3GPP standards do not specify the underlying IP transport network capabilities or slices thereof.
- o Though 3GPP standards define how interfaces N3, N9, F1-U are reselected following mobility but do not specify the underlying transport network reselection aspects following mobility.
- o Slice details in 3GPP, ATIS or NGMN do not specify how slice characteristics for QoS, hard /soft isolation, protection and other aspects should be satisfied in IP transport networks.

< 1. Introduction >

... A transport underlay across 3GPP interfaces N3, N9 and F1U may use multiple technologies or network providers on path and the slice in 3GPP domain should have a corresponding mapping in the transport domain. This document proposes to map a slice in the 3GPP domain to a transport domain slice. Key considerations including simplicity(e.g., use of L2 VLAN), routed networks on path (i.e., IP based mapping), efficiency of inspecting the slice mapping parameter and others are described in subsequent sections.

Actions remaining

- Share with other working groups
- Detailed reviews within dmm working group

Comments?