5G transport network benchmarking

<draft-contreras-bmwg-5g-00>

Luis M. Contreras
J. Rodríguez
L. Luque
Telefónica

Montreal, BMWG, July 2019
Motivation

• 5G Access is starting to be offered by operators
  – Multiple technological areas impacted: radio, mobile core, transport, etc.

• Then, important for operators to have a good basis of benchmarking solutions
Scope of the draft

• Overview available solutions and define guidelines to assist on the benchmarking of 5G transport networks
• Identify gaps that could require further work
• Provide guidelines on 5G transport Networks benchmarking
Subjects of benchmarking analysis

• Data plane (HW capabilities, encapsulations)
  – E.g.: IEEE TSN, SRv6, etc.

• Control plane
  – E.g.: SDN (RFC8456), …

• Management plane
  – E.g.: (Transport) network slice lifecycle

• Architecture
  – E.g.: DetNet, …
Proposed next steps

• Collect interest from the WG on progressing in this direction

    .... and, if so ...

• Start identifying the requirements and characteristics that 5G imposes in each of the subjects of interest

• Progress the draft for IETF#106
General Discussion - Q&A

ACK:: This work has been (partially) funded by the EU H2020 5G-EVE Project (grant no. 815074)