MCover5GS Requirements analysis – CT1#135

Rapporteur: Lazaros Gkatzikis

Network slicing stage-2 requirements

- SA6 has specified that certain NS-related configuration could be locally (pre) configured at the UE (as part of Initial UE configuration=bootstrapping configuration).

"The Initial MC service UE configuration shall contain at least one network slice identity (S-NSSAI) on a per HPLMN and optionally also per VPLMN basis.

If Network Slice-Specific Authentication and Authorization is used, the Initial MC service UE configuration or UE (pre)configuration shall provide the corresponding credentials for the network slice identity (S-NSSAI)."

- **Assumption**: for simplicity we focus on individual S-NSSAIs

- What are those MC-specific S-NSSAIs?
  - Not clear
  - Most probably **configured S-NSSAIs** => follow structure of configured S-NSSAI

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Network slicing stage-2 requirements on default S-NSSAI

- SA6 mentions that a special marking of some S-NSSAIs as default should be supported.

"At least one S-NSSAI in the Initial MC service UE configuration shall be marked as default S-NSSAI."

- TS24.501 definition: **"Default S-NSSAI**: An S-NSSAI in the subscribed S-NSSAIs marked as default."

- Can UE initial configuration replace UE subscription info? **No**. 5GS as transport needs to be aware and allow slice usage.

- Indication that the term "default S-NSSAI" has been misused

Study TR 23.783

"6.4.1.3   Network slicing subscription and authorisation

A subscription profile may contain one or more (Single) Network Slice Selection Assistance Information (S-NSSAIs) one marked as a default S-NSSAI [10]. An S-NSSAI can be subject to Network Slice-Specific Authentication and Authorization.

Further details are in 3GPP TS 23.501 [10]."

- Can there be multiple default S-NSSAIs for a PLMN? **Yes,** an NSSAI is a container of multiple S-NSSAIs.

- How should this indication be used? **Unclear**

Next step: LS to SA6 for clarification and adjust agreed structure if needed.

Open issues

1. Clarification on use of default S-NSSAI (SA6 feedback pending)
2. AA credentials
3. Mapped S-NSSAI(s)
4. Semantics clarification on use of existing **IPV6required** with new **PDU session Type**
5. MO updates to align with agreed TS 24.484
6. Potential impact of MC service resource management

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