



SGP.22 v2.2.2 eSIM Application Note

5G Support in Remote SIM Provisioning

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Overview

The purpose of this Application Note is to provide guidance for the SM-DP+ to provision 5G profiles.

This applications note applies to an SM-DP+ that communicates with eUICCs and Devices according to SGP.22 version 2.2.2 and higher.

Details of Issues

SGP.22 v2.2.2 defines new fields, i.e., eUICC Capability (`uiccCapability`) and Device Capability (`deviceCapability`) denoting 5G support. SIMalliance Profile Package specification [SAIP] v2.3.1 defines the 5G profile package format and Subscription Concealed Identifier (SUCI) calculation by USIM. However it is not explicitly described in SGP.22 how the SM-DP+ performs eligibility check regarding the 5G support of the eUICC and Device.

Recommendations

The following recommendations apply to the SM-DP+.

- The SM-DP+ should check if the eUICC supports GET IDENTITY, i.e., `getIdentity` bit is set in `uiccCapability`. If it is not supported, the SM-DP+ should not configure service n°125 in `EF_UST`, and should not provide `DF_SAIP` in the profile package.
- The SM-DP+ should check if the eUICC supports SAIP v2.3.1 (or higher). If it is not supported and the profile is intended to contain `DF_5GS`, the SM-DP+ should provide the `DF_5GS` by using Generic File Management PE.
- The SM-DP+ may provide a profile with additional 5G features even if the Device does not support 5G core access (neither `eutraN5gcSupportedRelease` nor `nr5gcSupportedRelease` is present in `deviceCapability`).