

3GPP TSG CT WG1 Meeting #121

C1-198453

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Source: Nokia, Nokia Shanghai Bell

Title: Comparison between solutions to include S-NSSAIs in the
REGISTRATION REQUEST message for various mobility scenarios

Agenda item: 16.2.4.1

Document for: Information

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1. Reference solutions

Based on papers submitted in 3GPP-TSG CT WG Meeting #120

- C1-196769
 - Source: MediaTek Inc., Nokia, Nokia Shanghai Bell, Ericsson, Huawei, HiSilicon
 - Solution 1
- C1-196986
 - Source: Qualcomm Incorporated, InterDigital, vivo
 - Solution 2

2. 5GS → 5GS

A. VPLMN A → VPLMN B

- Clarifications
 - The UE had a PDU session associated with {S-NSSAI 31, S-NSSAI 49} in VPLMN A.
 - S-NSSAI 49 for HPLMN is mapped to S-NSSAI 27 in VPLMN B.
 - Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	{S-NSSAI 27, S-NSSAI 49}	Unclear (from C/A-NSSAI)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	None	Unclear (from DC-NSSAI, if any)
	Requested mapped NSSAI	S-NSSAI 49	-
	Requested session NSSAI	-	S-NSSAI 49

2. 5GS → 5GS

B. (E)HPLMN → VPLMN X

- Clarifications
 - The UE had a PDU session associated with S-NSSAI 49 in (E)HPLMN.
 - S-NSSAI 49 for HPLMN is mapped to S-NSSAI 27 in VPLMN X.
 - Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	{S-NSSAI 27, S-NSSAI 49}	Unclear (from C/A-NSSAI)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	None	Unclear (from DC-NSSAI, if any)
	Requested mapped NSSAI	S-NSSAI 49	-
	Requested session NSSAI	-	S-NSSAI 49

2. 5GS → 5GS

C. VPLMN Y → (E)HPLMN

- Clarifications
 - The UE had a PDU session associated with {S-NSSAI 31, S-NSSAI 49} in VPLMN A.
 - Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	S-NSSAI 49	Unclear (from C/A-NSSAI)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	S-NSSAI 49	Unclear (from DC-NSSAI, if any)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49

3. EPS → 5GS

A. VPLMN A → VPLMN B

- Clarifications
 - The UE had a PDN connection associated with a HPLMN S-NSSAI “S-NSSAI 49”.
 - S-NSSAI 49 for HPLMN is mapped to S-NSSAI 27 in VPLMN B.
 - Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	{S-NSSAI 27, S-NSSAI 49}	Unclear (from C/A-NSSAI)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	None	Unclear (from DC-NSSAI, if any)
	Requested mapped NSSAI	S-NSSAI 49	-
	Requested session NSSAI	-	S-NSSAI 49

3. EPS → 5GS

B. (E)HPLMN → VPLMN X

- Clarifications

- The UE had a PDN connection associated with a HPLMN S-NSSAI “S-NSSAI 49”.
- S-NSSAI 49 for HPLMN is mapped to S-NSSAI 27 in VPLMN X.
- Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	S-NSSAI 49	Unclear (from C/A-NSSAI)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	S-NSSAI 49	Unclear (from DC-NSSAI, if any)
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49

3. EPS → 5GS

C. VPLMN Y → (E)HPLMN

- Clarifications
 - The UE had a PDN connection associated with a HPLMN S-NSSAI “S-NSSAI 49”.
 - Only the S-NSSAIs related to the PDU session are of interest.

		Solution 1	Solution 2
C/A-NSSAI available in VPLMN B	Requested NSSAI	S-NSSAI 49	S-NSSAI 49
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49
C/A-NSSAI not available in VPLMN B	Requested NSSAI	S-NSSAI 49	S-NSSAI 49
	Requested mapped NSSAI	None	-
	Requested session NSSAI	-	S-NSSAI 49

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