

oai-cn5g-nssf



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Purpose

- Network Slice Selection Service
- Network Slice Availability Service

Current status -

https://gitlab.eurecom.fr/oai/cn5g/oai-cn5g-nssf/-/blob/develop/docs/FEATURE_SET.md



Network Slice Selection Service

<https://example.com/nnssf-nsselection/v2/network-slice-information>

HTTP Methods -

1. GET



1. Network Slice Selection Service - Initial Register (AMF Reselection)

(not implemented - planned for release 2)

Registration with AMF re-allocation
Section 4.2.2.2.3, 3GPP TS 23.502

[When requested snssai is not present
in subscribed snssai (udm)]

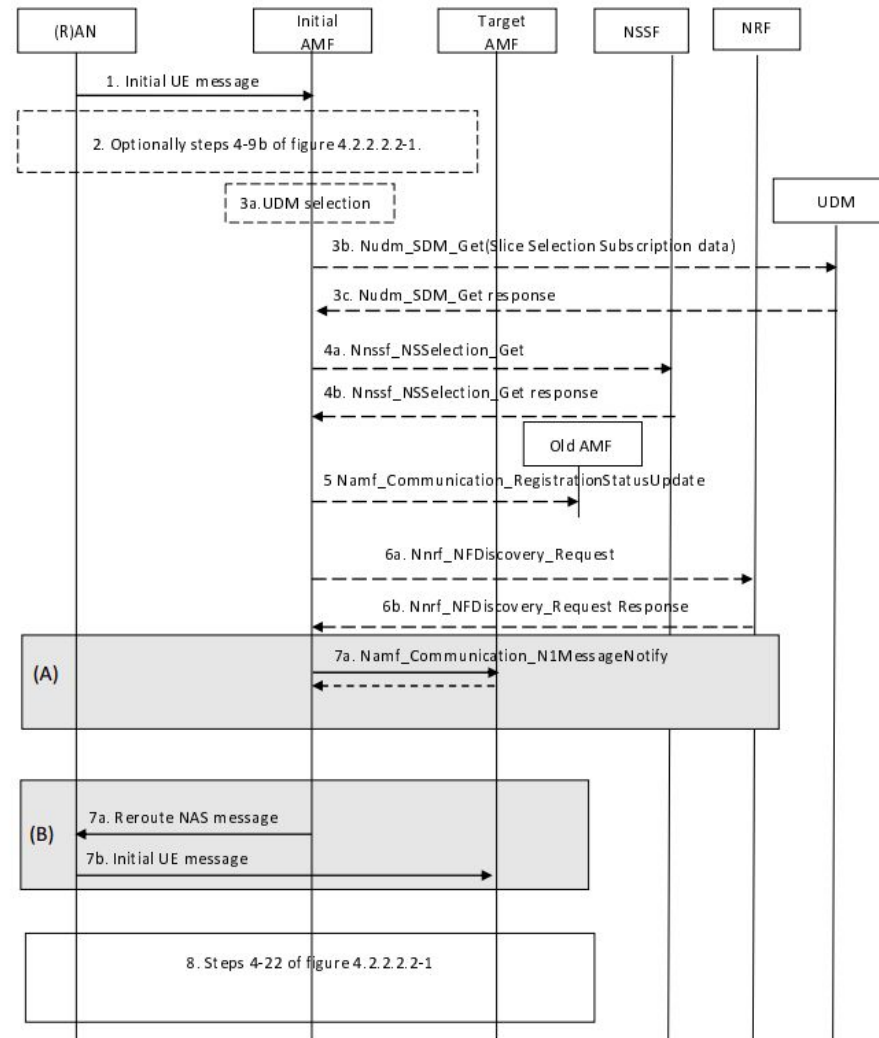


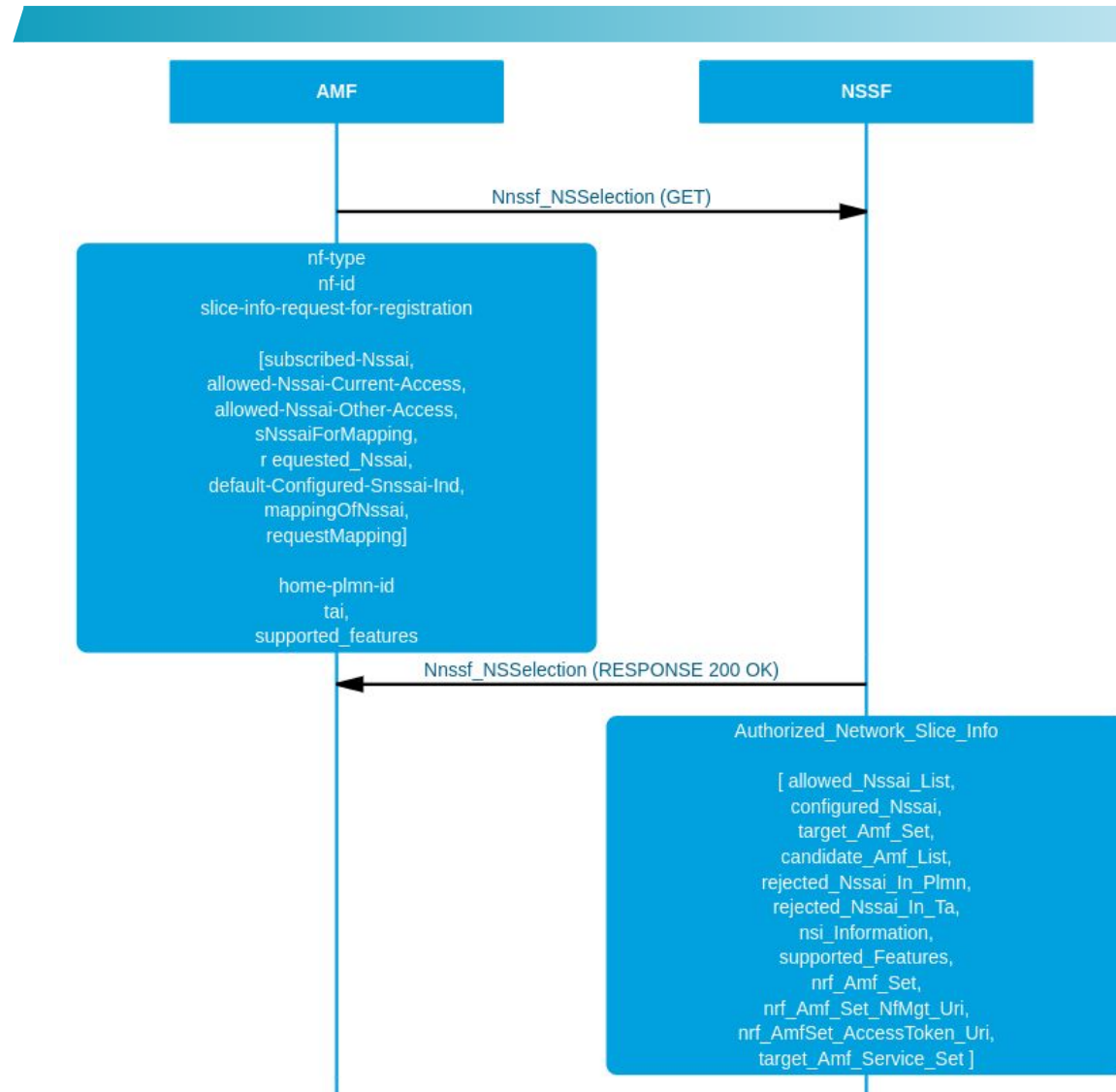
Figure 4.2.2.2.3-1: Registration with AMF re-allocation procedure

1. Network Slice Selection Service - Initial Register (AMF Reselection)

(not implemented - planned for release 2)

Registration with AMF re-allocation
Section 4.2.2.2.3, 3GPP TS 23.502

[When requested snssai is not present
in subscribed snssai (udm)]



2. Network Slice Selection Service - PDU Session (implemented)

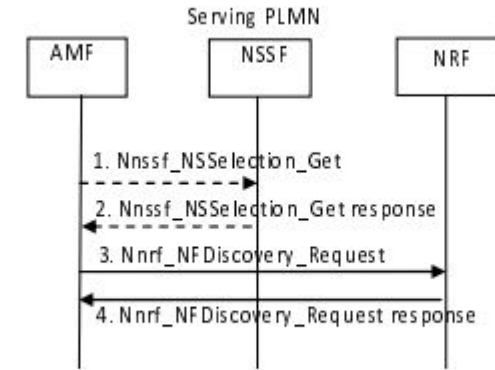
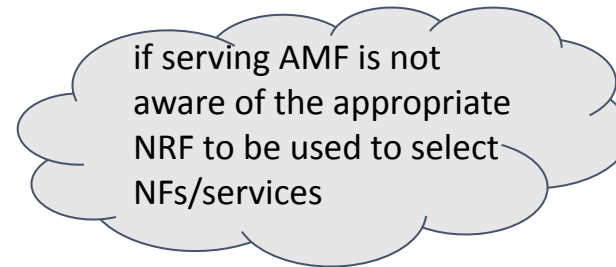


Figure 4.3.2.2.3.2-1: SMF selection for non-roaming and roaming with local breakout scenarios

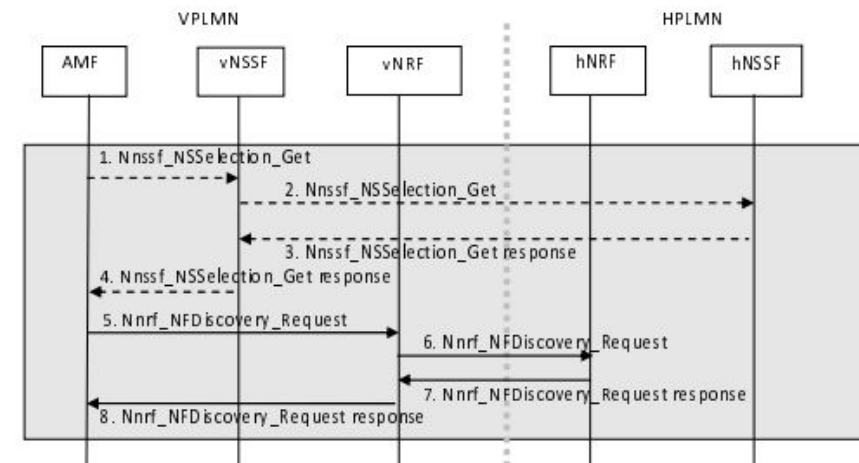


Figure 4.3.2.2.3.3-1: Option 1 for SMF selection for home-routed roaming scenarios

SMF selection for non-roaming and roaming with local breakout
section 4.3.2.2.3.2, 3GPP TS 23.502

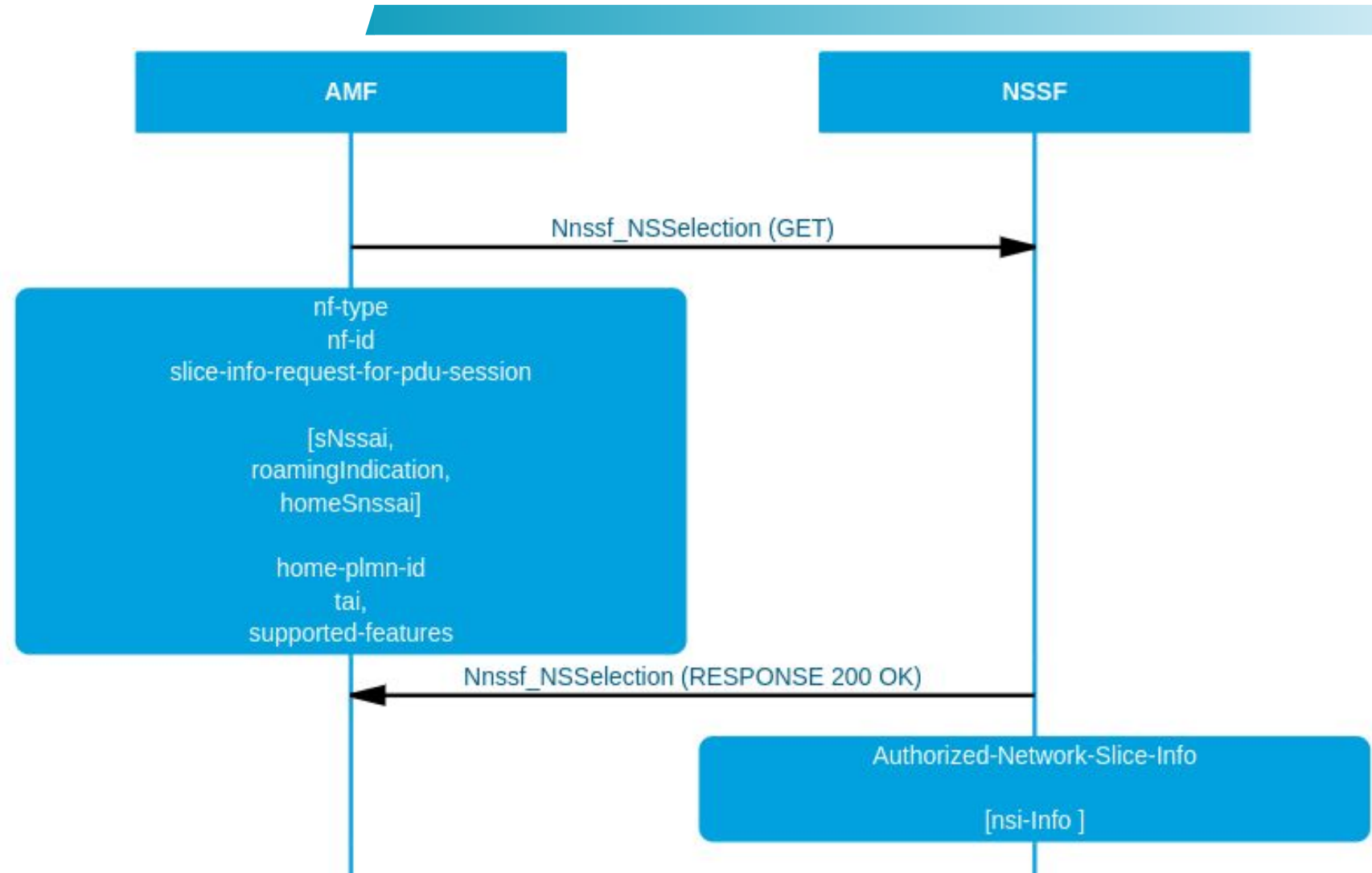
or
SMF selection for home-routed roaming scenario
section 4.3.2.2.3.3, 3GPP TS 23.502

[AMF or NSSF in the different PLMN]

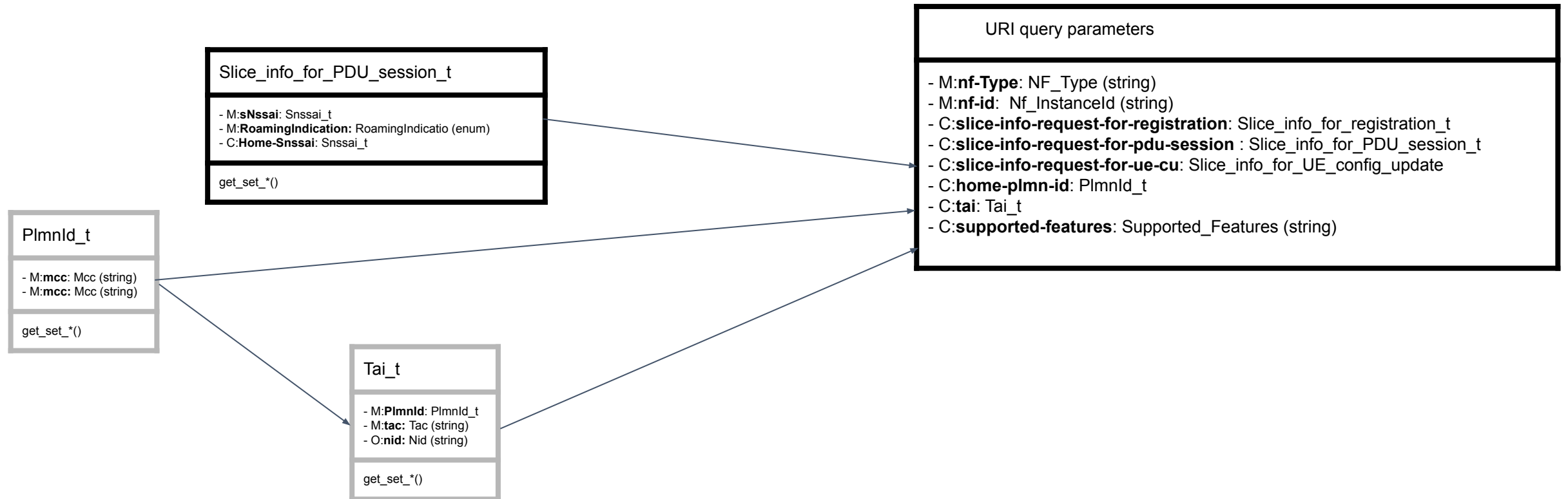
Two main branches of deployment scenarios to consider:

- Non-roaming and roaming with local breakout, clause 4.3.2.2.3.2
- Home routed roaming, clause 4.3.2.2.3.3

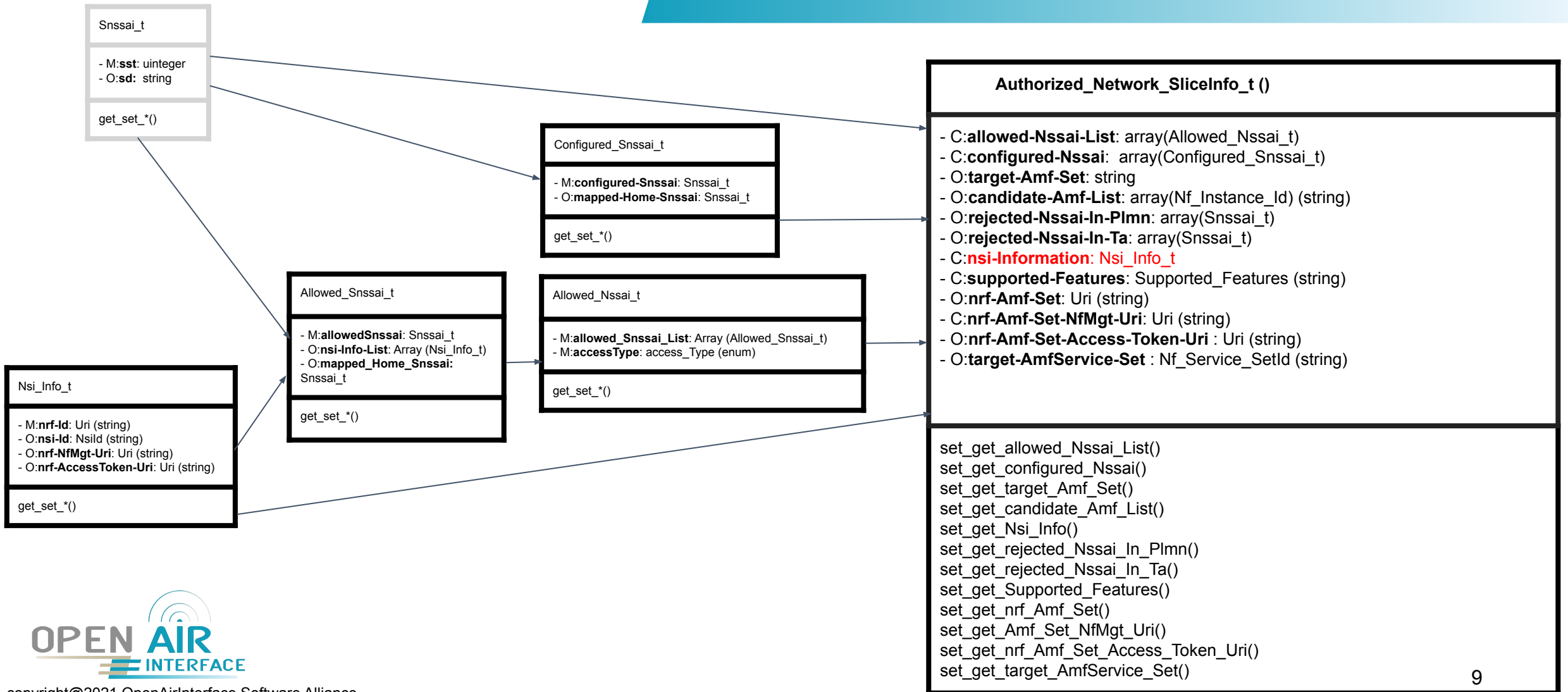
2. Network Slice Selection Service - PDU Session



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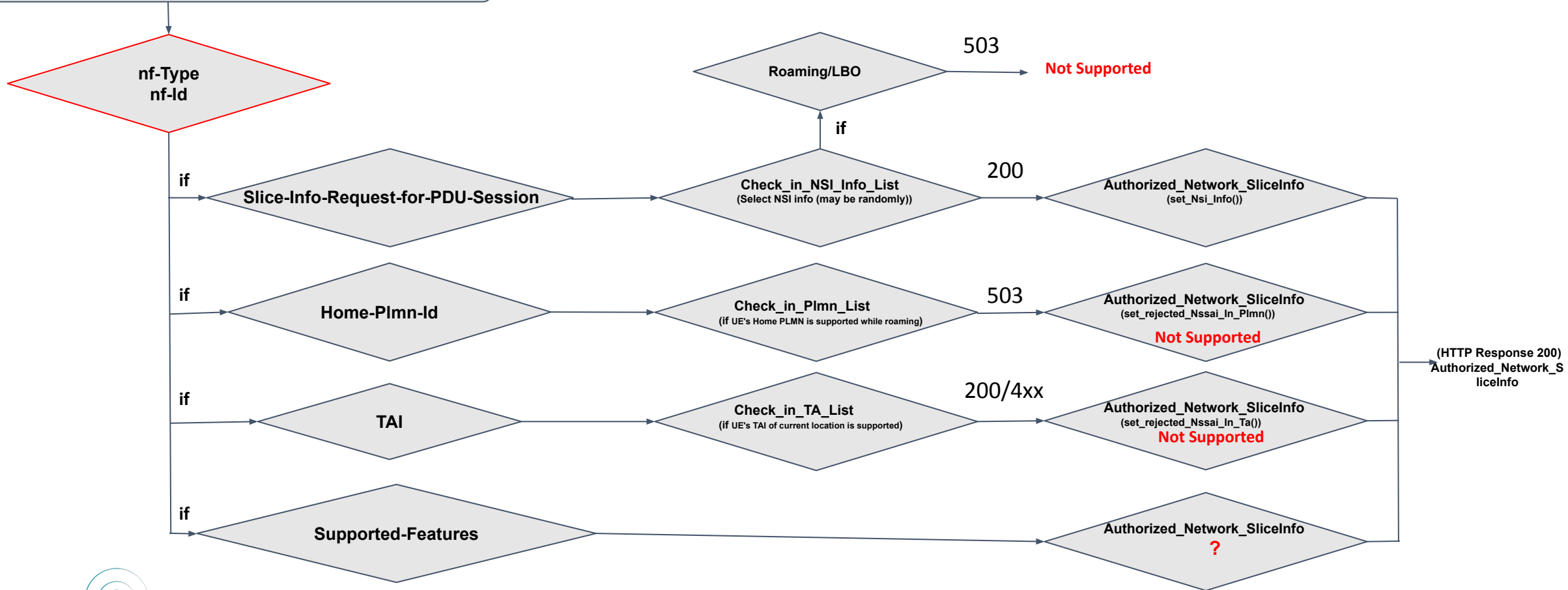


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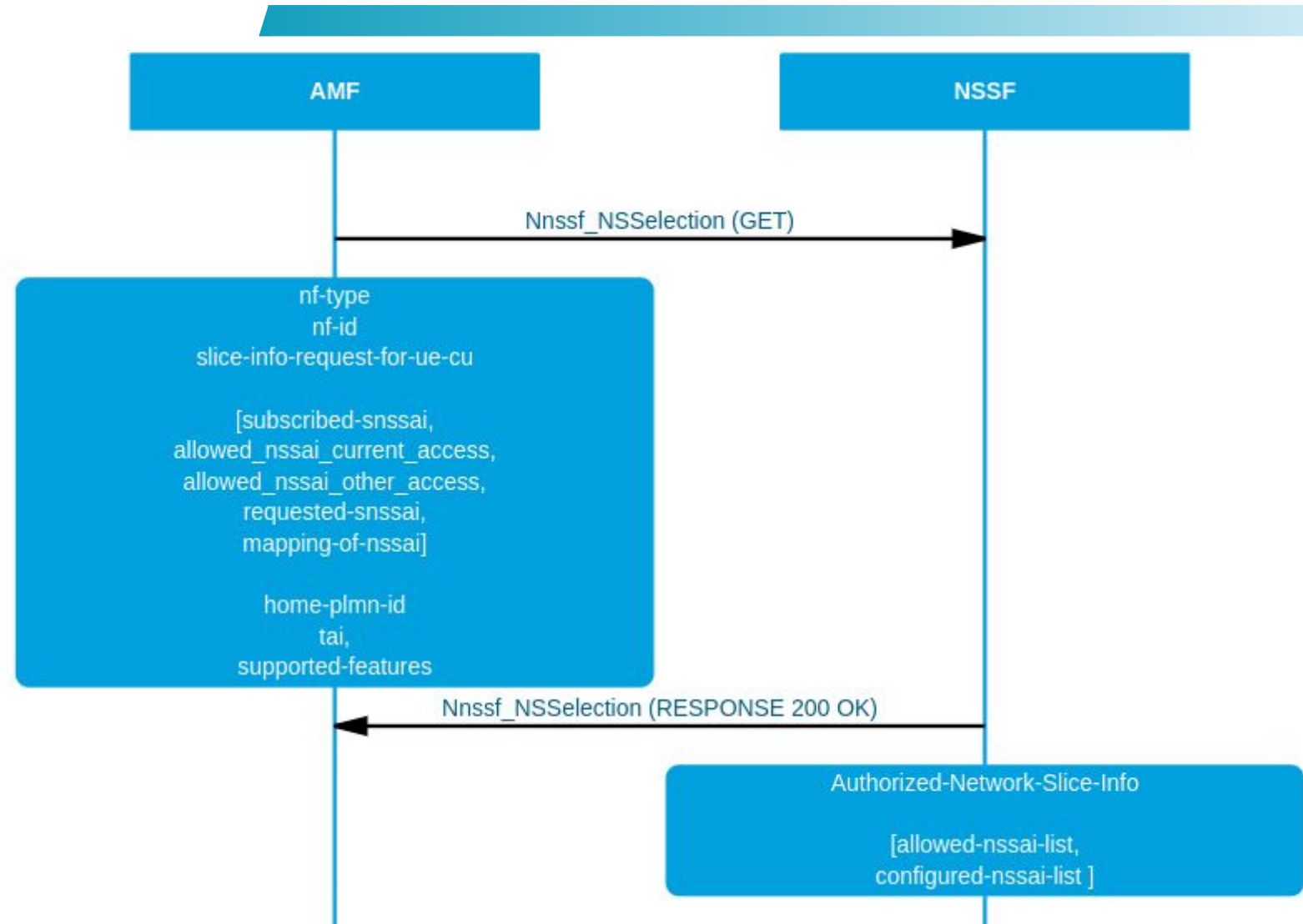
/nnsf-nsselection/v2/network-slice-information



Network Slice Selection Service - UE Config Update

(not implemented - not in roadmap)

UE Configuration Update procedure
Section 4.2.4.2, 3GPP TS 23.502



Network Slice Availability Service

Nnssf_NSSAIAvailability

(not implemented - planned for release 2)



Network Slice Availability Service

<https://example.com/nssf-availability/v2/nssai-availability{nflid}>

Update the S-NSSAI(s) the AMF supports on a per TA basis on the NSSF

HTTP Methods -

1. PUT
2. PATCH
3. DELETE



Network Slice Availability Service

<https://example.com/nnssf-availability/v2/nssai-availability/subscriptions{subscriptionId}>

Subscribe and unsubscribe the notification of any changes to the NSSAI availability information on a per TA basis, of the S-NSSAIs available per TA (unrestricted) and the restricted SNSSAI(s) per PLMN in that TA in the serving PLMN of of the UE

HTTP Methods -

1. POST
2. PATCH
3. DELETE

