S-NSSAI based SMF Selection

Feature Summary and Revision History

Summary Data

Table 1: Summary Data

Applicable Product(s) or Functional Area	AMF
Applicable Platform(s)	SMI
Feature Default Setting	Enabled - Always-on
Related Documentation	Not Applicable

Revision History

Table 2: Revision History

Revision Details	Release
First introduced.	2021.04.0

Feature Description

For Custom Slice selection without NSSF, AMF now supports SMF selection based on S-NSSAIs received from UE (Requested S-NSSAI) during PDU session establishment procedures.

AMF supports SNNSAI-based SMF selection only using NRF (Network Repository Function).

During PDU session establishment procedure, AMF queries the necessary NRF serving PLMN by issuing the Nnrf_NFDiscovery_Request including SNSSAI to select SMF.

The NRF serving PLMN provides a set of the discovered SMF instances or Endpoint Addresses of SMF service instance(s) in Nnrf_NFDiscovery_Request response message. AMF uses the information provided by NRF and connects to the necessary SMF for further interactions.

Feature Configuration

To configure this feature, use the following configuration:

```
config
 profile
  network-element network_element network_element_name
   nf-client-profile nf_client_profile_name
   query-params query_params
   end
```

NOTES:

- network-element network_element network_element_name—Specify the peer network element and its name.

- nf-client-profile nf_client_profile_name—Specify the NF client profile name.

- query-params query_params—Specify the query parameter for NF discovery.

Configuration Example

The following is an example configuration.

```
config
 profile
  network-element smf SMF1
   nf-client-profile SMF1
   query-params [ snssais ]
   end
```

Configuration Verification

To verify the configuration:

```
show running-config profile network-element
Wed Oct  20 07:22:45.870 UTC+00:00
profile network-element smf SMF1
nf-client-profile SMF1
query-params [ snssais ]
```