# S-NSSAI based SMF Selection


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# 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 ]
```