E2E Network Slicing Demoshow based on Guilin Deliverables

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Functions:
1. **Service Template Design** for CST, NST, RAN NSST, BH TN NSST, CN NSST, ServiceProfile T, RAN SliceProfile T, TN SliceProfile T, CN SliceProfile T.
2. **Create a Slice Service** (including Manual intervention on NSMF Portal)
3. **Activate a Slice Service**
4. **Deactivate a Slice Service**
5. **Terminate Slice Service**
Architecture Enhancements

ONAP

**Design Time**
- SDC
- CST
- Service Profile
- NST
- Slice Profile
- NSST

**Run Time**
- **U-UI**
  - CSMF Portal
  - NSMF Portal
- **EXT-API**
  - CSMF Operation Interface
- **SO**
  - CSMF WF
  - NSMF WF
  - NSSMF Adaptor
  - NSSMF WFs
- **OOF**
  - NST Selection
  - NSI Selection
- **Policy**
  - CSMF Policy
  - NSMF Policy
- **A&AI**
  - CS Instance
  - Service Profile
  - NSI Instance
  - Slice Profile
  - NSSI Instance

**Notes**
1. New in G Release
2. Improvements in G Release
Tested Flow for Allocating a Slice

5G Service request
CST id
CS profile

Slice request
Service Profile

NSMF Adapter

RAN NSSMF

Core NSSMF

Trans NSSMF

OOF

New NSI creation (non-shareable or shareable but no reusable NSI)

Allocate NSSI
S-NSSAI, NSSI ID, Slice Profile, EP info

Tested in G Release

Reuse existing NSI (shareable case)

Allocate NSSI

To be tested in H Release

Allocate NSSI
SDC Service Template Design

Notes
New in G Release
SO Module Enhancements

- **NSMF and Common NSSMF sequence diagram**
  Please refer to the following link:
  [https://wiki.onap.org/display/DW/NSMF+and+Common+NSSMF](https://wiki.onap.org/display/DW/NSMF+and+Common+NSSMF)

- **NSSMF Adapter APIs**

  ![NSSMF Adapter Diagram]

  ![Diagram Link:](https://wiki.onap.org/display/DW/NSSMF+Adapter)

  Link: [https://wiki.onap.org/display/DW/NSSMF+Adapter](https://wiki.onap.org/display/DW/NSSMF+Adapter)
Simulators for 5G Network Slicing Use Case have been merged or are being merged into the Integration project.

```
integration/
|   ├── simulators
|   |   ├── 5G-core-nf-simulator(merged)
|   |   └── core-nssmf-simulator(Option2)
|   │   └── ran-nssmf-simulator(Option2)
|   │   └── ran-simulator(merged)
```

ACTN Simulator(for TN) will be added to the integration project in H Release.
5G Network Slicing Demo Show

Send a Service Creation request from UUI (CSMF Portal)

Observe NST Selection

Show NSI Selection (NSMF output)

Confirm NSI/NSSI Selection in UUI (NSMF Portal)

Show the Slice creation process

Check details in UUI after Slice is successfully created

Configuration Review
The following parts on this page are designed for you to experience the 5G Network Slicing Use Case.

**Install Minimum Scope ONAP for Option2** (Combine H Release)

Install Simulators
- External RAN NSSMF
- External Core NSSMF Simulator User Guide
- ACTN Simulator User Guide

**Template Design for Option2**

**Manual Configuration after installation** (Combine H Release)

**UI Operation Guidance for Guilin**