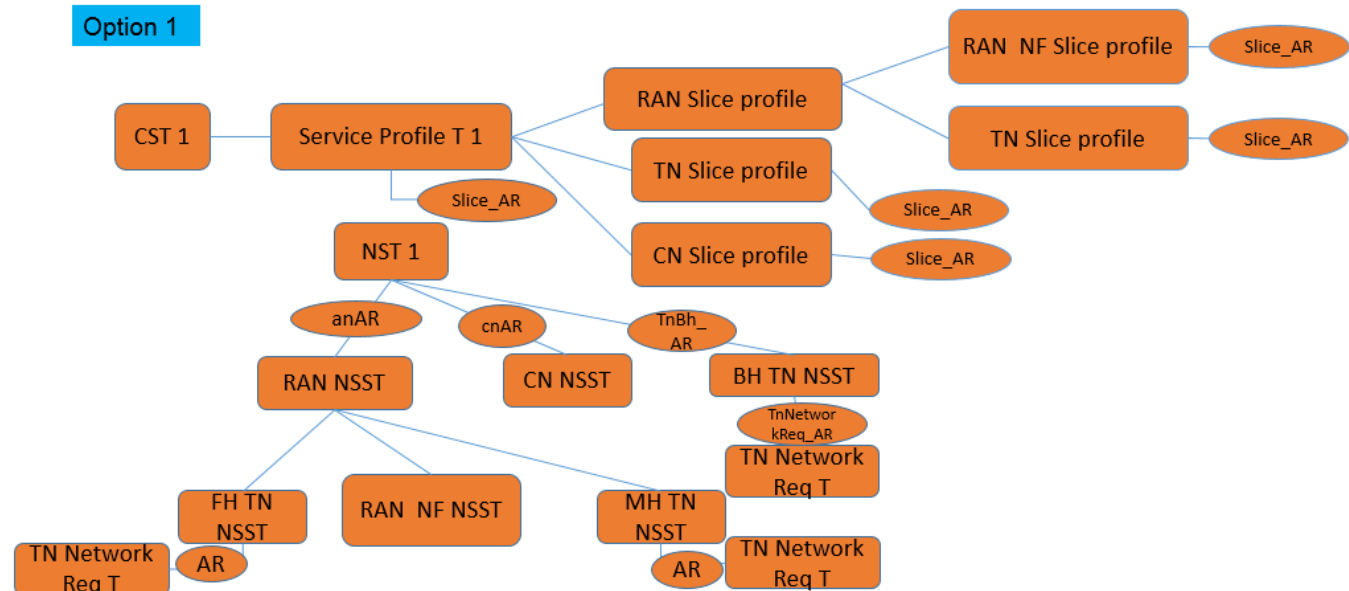


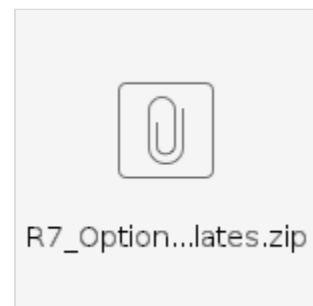
Template Design for Option 1

This page mainly describes the template design steps of option1 for the E2E Network Slicing use case for Guilin release.

Template design for Option1 is as follows:



Sample Service Templates for Option 1:



- Create Service Category
- 1.Create CN_NSST
- 2.Create TN_Network_Req_T
- 3.Create TN_Network_Req_ARAllotted Resource)
- 4.Create TN_BH_NSST
- 5.Create TN_FH_ARAllotted Resource)
- 6.Create TN_MH_ARAllotted Resource)
- 7.Create TN_MH_NSST
- 8.Create TN_FH_NSST
- 9.Create NrtRIC_resource
- 10.Create CUCP_Resource
- 11.Create CUUP_Resource
- 12.Create DU_Resource
- 13.Create RAN_NF Service Template
- 14.Create TESTRANTOPNSST(TOP RAN Service Template)
- 15.Create CN_ARAllotted Resource
- 16.Create Tn_BH_ARAllotted Resource
- 17.Create AN_ARAllotted Resource
- 18.Create NSTO1 Service Template
- 19.Create Slice_ARAllotted Resource
- 20.Create TN_SliceProfile Service Template
- 21.Create CN_SliceProfile Service Template
- 22.Create SliceProfile_AN_NF_O1 Service Template
- 23.Create SliceProfile_AN_O1 Service Template
- 24.Create ServiceProfile_O1 Service Template
- 25.Create CST_O1 Service Template

- [A&AI Configuration:](#)

Create Service Category

Login SDC HOME page with Admin Role create the following categories:

CSTServiceProfileAN SliceProfileAN NF Slice Profile, CN SliceProfileTN SliceProfileNST TN BH NSST, TN MH NSST, TN FH NSST, TN Network RequirementAN NF NSSTCN NSST, AN NSST.

1.Create CN_NSST

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'CN_NSST' as the name to indicate the meaning of the service.
- Select 'CN NSST' as Category.
- Provide 'ONAP_internal' as Service Role

2. NSST should be composed of network service(NS). For NS helm artifacts, CBA package and other design time activities, please follow below link:

<https://wiki.onap.org/display/DW/5GC+Instantiation+and+Modify+Config+flow+through+CDS>

[E2E Network Slicing Meeting Notes for Oct 12, 2020 – Design Time Demo \(32:00 - 58:00\)](#)

3. In Composition section, drag the elements of 'Fiveg'(NS) from the Elements palette to the service canvas.

4. In Properties Assignment section, define Service properties.

a. Click **+ Add Property**

b. Input name and select 'org.opencomp.datatypes.NSSCapabilities' as type.

c. Set property values as shown below.

<input type="checkbox"/> activityFactor	30	<input type="checkbox"/> pLMNidList	39-00
<input type="checkbox"/> areaTrafficCapDL	800	<input type="checkbox"/> resourceSharingLevel	Shared
<input type="checkbox"/> areaTrafficCapUL	800	<input type="checkbox"/> sST	eMBB
<input type="checkbox"/> expDataRateDL	1000	<input type="checkbox"/> survivalTime	10
<input type="checkbox"/> expDataRateUL	1000	<input type="checkbox"/> uEMobilityLevel	stationary
<input type="checkbox"/> latency	20	<input type="checkbox"/> maxNumberOfUEs	10000

5. Distribute the service model and check the results.

2.Create TN_Network_Req_T

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TN_Network_Req_T' as the name to indicate the meaning of the service.
- Select 'TN Network Requirement' as Category.
- Provide 'ONAP_internal' as Service Role

2. In Properties Assignment section, define the following service properties.

Properties		Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save		
SELF							
<input checked="" type="checkbox"/> ConnectionLink	string		{"get_input":"ConnectionLink"}				
<input type="checkbox"/> jitter	string		10				
<input type="checkbox"/> latency	integer		10				
<input type="checkbox"/> maxBandwidth	integer		1000				

3. Distribute the service model and check the results.

3.Create TN_Network_Req_AR(Allotted Resource)

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Suggest 'TN_Network_Req_AR' as the name to indicate the meaning of the service.
- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition sectionsearch 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click 'AllottedResource 0' in the right pane

b. Use the value of TN_Network_Req_T to set 'providing_service_invariant_uuid' and 'providing_service_uuid' and 'providing_service_name'.

Properties Assignment		Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save		
R ALLOTTEDRESOURCE 0							
<input type="checkbox"/> max_instances	integer		1				
<input type="checkbox"/> min_instances	integer		1				
<input type="checkbox"/> providing_service_invariant_uuid	string		2362d823-9597-4efb-8eb4-5f44a65e62f3				
<input type="checkbox"/> providing_service_name	string		TN_Network_Requirement				
<input type="checkbox"/> providing_service_uuid	string		4dc25143-0f42-45c5-bdd7-4b0d7d939dca				

4.Create TN_BH_NSST



Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TN_BH_NSST' as the name to indicate the meaning of the service.
- Select 'TN BH NSST' as Category.
- Provide 'ONAP_internal' as Service Role

2. In Composition section search 'TN_Network_Req_AR', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define the following service properties.

Properties		Inputs	Policies	Search 			Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save				
SELF									
<input type="checkbox"/> jitter	string		10						
<input type="checkbox"/> latency	integer		10						
<input type="checkbox"/> maxBandwidth	integer		1000						
<input type="checkbox"/> pLMNIdList	string		39-00						

4. Distribute the service model and check the results.

5. Create TN_FH_AR Allotted Resource)

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Suggest 'TN_FH_AR' as the name to indicate the meaning of the service.
- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition section search 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click 'AllottedResource 0' in the right pane

b. Use the value of TN_Network_Req_T to set 'providing_service_invariant_uuid' and 'providing_service_uuid' and 'providing_service_name'.

Properties Assignment

Properties	Inputs	Policies	Search	🔍	🔼	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save			
R ALLOTTEDRESOURCE 0								
<input type="checkbox"/> max_instances	integer		1					
<input type="checkbox"/> min_instances	integer		1					
<input type="checkbox"/> providing_service_invariant_uuid	string		2362d823-9597-4efb-8eb4-5f44a65e62f3					
<input type="checkbox"/> providing_service_name	string		TN_Network_Requirement					
<input type="checkbox"/> providing_service_uuid	string		4dc25143-0f42-45c5-bdd7-4b0d7d939dca					

6.Create TN_MH_ARAllotted Resource)

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Suggest 'TN_MH_AR' as the name to indicate the meaning of the service.
- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition sectionsearch 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click 'AllottedResource 0' in the right pane

b. Use the value of TN_Network_Req_T to set 'providing_service_invariant_uuid' and 'providing_service_uuid' and 'providing_service_name'.

Properties Assignment

Properties	Inputs	Policies	Search	🔍	🔼	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save			
R ALLOTTEDRESOURCE 0								
<input type="checkbox"/> max_instances	integer		1					
<input type="checkbox"/> min_instances	integer		1					
<input type="checkbox"/> providing_service_invariant_uuid	string		2362d823-9597-4efb-8eb4-5f44a65e62f3					
<input type="checkbox"/> providing_service_name	string		TN_Network_Requirement					
<input type="checkbox"/> providing_service_uuid	string		4dc25143-0f42-45c5-bdd7-4b0d7d939dca					

7.Create TN_MH_NSST

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TN_MH_NSST' as the name to indicate the meaning of the service.
- Select 'TN MH NSST' as Category.
- Provide 'TRANSPORT' as Service Type.
- Provide 'TN_MH' as Service Role.

2. In Composition sectionsearch 'TN_MH_AR', drag the element from the Elements palette to the service canvas.

8.Create TN_FH_NSST

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TN_FH_NSST' as the name to indicate the meaning of the service.
- Select 'TN FH NSST' as Category.
- Provide 'TRANSPORT' as Service Type.
- Provide 'TN_FH' as Service Role.

2. In Composition sectionsearch 'TN_FH_AR', drag the element from the Elements palette to the service canvas.

9.Create NrtRIC_resource

Login SDC HOME page with Designer Role, add new VF.

In the General section, complete all required fields.

- Suggest 'NrtRIC_resource' as the name to indicate the meaning of the service.
- Select 'Network Elements' as Category.
- Provide '5G RAN' as Vendor Name.
- Provide '1' as Vendor Release.

2. In Composition sectionsearch 'ExtCP2' from Generic Category, drag the element from the Elements palette to the service canvas.

- Rename ExtCP2 as 'EP_E2'.

10.Create CUCP_Resource

Login SDC HOME page with Designer Role, add new VF.

In the General section, complete all required fields.

- Suggest 'CUCP_Resource' as the name to indicate the meaning of the service.
- Select 'Network Elements' as Category.
- Provide '5G RAN' as Vendor Name
- Provide '1' as Vendor Release

2. In Composition sectionsearch 'ExtCP2' from Generic Category, drag the element from the Elements palette to the service canvas.

- Rename ExtCP2 as 'EP_NG_c'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_E1'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_E2'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_F1C'.

11.Create CUUP_Resource

Login SDC HOME page with Designer Role, add new VF.

In the General section, complete all required fields.

- Suggest 'CUUP_Resource' as the name to indicate the meaning of the service.
- Select 'Network Elements' as Category.
- Provide '5G RAN' as Vendor Name
- Provide '1' as Vendor Release

2. In Composition sectionsearch 'ExtCP2' from Generic Category, drag the element from the Elements palette to the service canvas.

- Rename ExtCP2 as 'EP_NG_u'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_E1'.

- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_E2'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_F1U'.

12.Create DU_Resource

Login SDC HOME page with Designer Role, add new VF.

In the General section, complete all required fields.

- Suggest 'DU_Resource' as the name to indicate the meaning of the service.
- Select 'Network Elements' as Category.
- Provide '5G RAN' as Vendor Name
- Provide '1' as Vendor Release

2. In Composition section search 'ExtCP2' from Generic Category, drag the element from the Elements palette to the service canvas.

- Rename ExtCP2 as 'EP_E2'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_FH'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_F1C'.
- drag another 'ExtCP2' element from Generic Category and rename ExtCP2 as 'EP_F1U'.

13.Create RAN_NF Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

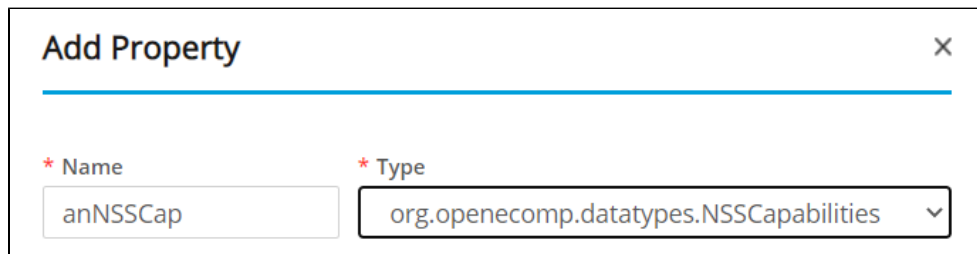
- Suggest 'RAN_NF_NSST' as the name to indicate the meaning of the service.
- Select 'AN NF NSST' as Category.
- Provide 'RAN' as Service Type.
- Provide 'AN_NF' as Service Role.

2. In Composition section drag the elements of 'NrtRIC_resource' 'CUCP_Resource' 'CUUP_Resource', 'DU_Resource' from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click  **Add Property**

b. Input name and select 'org.openecomp.datatypes.NSSCapabilities' as type.



4. Distribute the service model and check the results.

14.Create TESTRANTOPNSST(TOP RAN Service Template)

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TESTRANTOPNSST' as the name to indicate the meaning of the service.
- Select 'AN NSST' as Category.
- Provide 'RAN' as Service Type.
- Provide 'ONAP_internal' as Service Role.

2. In Composition section drag the elements of 'RAN_NF_NSST' 'TN_MH_NSST' 'TN_FH_NSST' from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click  **Add Property**

b. Input name and select 'org.openecomp.datatypes.NSSCapabilities' as type.

Add Property
×

* Name

* Type

4. Distribute the service model and check the results.

15.Create CN_ARAllotted Resource

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition sectionsearch 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click '[AllottedResource 0](#)' in the right pane

b. Use the value of CN_NSST to set '[providing_service_invariant_uuid](#)' and '[providing_service_uuid](#)' and '[providing_service_name](#)'.

16.Create Tn_BH_ARAllotted Resource

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition sectionsearch 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click '[AllottedResource 0](#)' in the right pane

b. Use the value of TN_BH_NSST to set '[providing_service_invariant_uuid](#)' and '[providing_service_uuid](#)' and '[providing_service_name](#)'.

17.Create AN_ARAllotted Resource

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Select 'Allotted Resource' as Category.
- Provide 'ONAP' as Vendor Name.
- Provide '1.0' as Vendor Release.

2. In Composition sectionsearch 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click '[AllottedResource 0](#)' in the right pane

b. Use the value of TESTRANTOPNSST to set '[providing_service_invariant_uuid](#)' and '[providing_service_uuid](#)' and '[providing_service_name](#)'.

18.Create NSTO1 Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'NSTO1' as the name to indicate the meaning of the service.
- Select 'NST' as Category.
- Suggest 'ONAP_internal' as Service Role

2. In Composition section drag the elements of 'AN_AR' 'Tn_BH_AR' 'CN_AR' from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click [+ Add Property](#)

Add the property "latency" as a separate property of type integer and provide the value as 45

Set property values as shown bellow.

<input type="checkbox"/> activityFactor	<input type="text" value="60"/>	<input type="checkbox"/> pLMNidList	<input type="text" value="39-00"/>
<input type="checkbox"/> availability	<input type="text" value="0.6"/>	<input type="checkbox"/> reliability	<input type="text" value="99%"/>
<input type="checkbox"/> dLThptPerSlice	<input type="text" value="1000"/>	<input type="checkbox"/> resourceSharingLevel	<input type="text" value="Shared"/>
<input type="checkbox"/> jitter	<input type="text" value="10"/>	<input type="checkbox"/> sST	<input type="text" value="eMBB"/>
<input type="checkbox"/> latency	<input type="text" value="20"/>	<input type="checkbox"/> survivalTime	<input type="text" value="10"/>
<input type="checkbox"/> maxNumberOfConns	<input type="text" value="100000"/>	<input type="checkbox"/> uEMobilityLevel	<input type="text" value="stationary"/>
<input type="checkbox"/> maxNumberOfUEs	<input type="text" value="1000"/>	<input type="checkbox"/> uLThptPerSlice	<input type="text" value="1000"/>

4. Distribute the service model and check the results.

19. Create Slice_AR Allotted Resource

Login SDC HOME page with Designer Role and add VF.

1. In the General section, complete all required fields.

- Suggest 'Slice_AR' as the name to indicate the meaning of the service.
- Select 'Allotted Resource' as Category.

2. In Composition section search 'Allotted Resource', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click '[AllottedResource 0](#)' in the right pane

b. Select '[providing_service_invariant_uuid](#)' and '[providing_service_uuid](#)' and click Declare Input.

Properties		Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save		
<div> <div>R</div> <div>ALLOTTEDRESOURCE 0</div> </div>							
<input type="checkbox"/> max_instances	integer		1				
<input type="checkbox"/> min_instances	integer		1				
<input checked="" type="checkbox"/> providing_service_invariant_uuid	string		{"get_input": "allottedresource0_providing_service_invariant_"}				
<input type="checkbox"/> providing_service_name	string						
<input checked="" type="checkbox"/> providing_service_uuid	string		{"get_input": "allottedresource0_providing_service_uuid"}				

20.Create TN_SliceProfile Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'TN_SliceProfile' as the name to indicate the meaning of the service.
- Select 'TN SliceProfile' as Category.

2. In Composition sectionsearch 'Slice_AR', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section,define Service properties.

a. Add some properties as the picture shown below.

Properties		Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save		
SELF							
<input checked="" type="checkbox"/> jitter	string		{"get_input": "jitter"}				
<input checked="" type="checkbox"/> latency	integer		{"get_input": "latency"}				
<input checked="" type="checkbox"/> maxBandwidth	integer		{"get_input": "maxBandwidth"}				
<input checked="" type="checkbox"/> pLMNidList	string		{"get_input": "pLMNidList"}				
<input checked="" type="checkbox"/> sNSSAI	string		{"get_input": "sNSSAI"}				
<input checked="" type="checkbox"/> sST	integer		{"get_input": "sST"}				

b. Select all properties and click Declare Input.

c. Click 'Slice_AR 0' in the right pane

d. Select 'allottedresource0_providing_service_invariant_uuid' and 'allottedresource0_providing_service_uuid' and click Declare Input.

4. Distribute the service model and check the results.

21.Create CN_SliceProfile Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.
 - Suggest 'CN_SliceProfile' as the name to indicate the meaning of the service.
 - Select 'CN SliceProfile' as Category.
2. In Composition sectionsearch 'Slice_AR', drag the element from the Elements palette to the service canvas.
3. Properties Assignment section, define Service properties.

- a. Click [+ Add Property](#)
- b. Input name and select 'org.openecomp.datatypes.SliceProfile' as type.
- c. Add some properties as shown bellow.

<input checked="" type="checkbox"/>	ipAddress	 	string		<div>{ "get_input": "ipAddress" }</div>
<input checked="" type="checkbox"/>	logicInterfaceId	 	string		<div>{ "get_input": "logicInterfaceId" }</div>
<input checked="" type="checkbox"/>	nextHopInfo	 	string		<div>{ "get_input": "nextHopInfo" }</div>

- d. Select all properties and click Declare InputFor the sliceprofile type, select all attributes
- e. Click '[Slice_AR 0](#)'in the right pane
- f. Select 'allottedresource0_providing_service_invariant_uuid' and 'allottedresource0_providing_service_uuid' and click Declare Input.
4. Distribute the service model and check the results.

22.Create SliceProfile_AN_NF_O1 Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.
 - Suggest 'SliceProfile_AN_NF_O1' as the name to indicate the meaning of the service.
 - Select 'AN NF SliceProfile' as Category.
2. In Composition sectionsearch 'Slice_AR', drag the element from the Elements palette to the service canvas.
3. In Properties Assignment section,define Service properties.

- a. Click [+ Add Property](#)
- b. Input name and select 'org.openecomp.datatypes.SliceProfile' as type.
- c. Add some properties as shown bellow.

<input type="checkbox"/>	ipAddress	 	string		<div>{ "get_input": "ipAddress" }</div>
<input type="checkbox"/>	logicInterfaceId	 	string		<div>{ "get_input": "logicInterfaceId" }</div>
<input type="checkbox"/>	nextHopInfo	 	string		<div>{ "get_input": "nextHopInfo" }</div>

- d. Select all properties and click Declare InputFor the sliceprofile type, select all attributes

<input type="checkbox"/> anSP		SliceProfile		<input checked="" type="checkbox"/> activityFactor	{"get_input":"anSP_activityF
				<input checked="" type="checkbox"/> areaTrafficCapDL	{"get_input":"anSP_areaTra
				<input checked="" type="checkbox"/> areaTrafficCapUL	{"get_input":"anSP_areaTra
				<input checked="" type="checkbox"/> cSAvailabilityTarget	{"get_input":"anSP_cSAvaila
				<input checked="" type="checkbox"/> cSReliabilityMeanTime	{"get_input":"anSP_cSReliab

e. Click 'Slice_AR 0' in the right pane

f. Select 'allottedresource0_providing_service_invariant_uuid' and 'allottedresource0_providing_service_uuid' and click Declare Input.

Properties	Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input	Composition
Property Name	Type	EntrySchema	Value	Discard	Save		SLICEPROFILE_AN_O2
SLICE_AR 0							SELF
<input checked="" type="checkbox"/> allottedresource0_providing_service_invariant_uuid	string		{"get_input":"slice_ar0_allottedresource0_providing_service_				Slice_AR 0
<input checked="" type="checkbox"/> allottedresource0_providing_service_uuid	string		{"get_input":"slice_ar0_allottedresource0_providing_service_				

4. Distribute the service model and check the results.

23.Create SliceProfile_AN_O1 Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'SliceProfile_AN_O1' as the name to indicate the meaning of the service.
- Select 'AN SliceProfile' as Category.

2. In Composition section drag the elements of 'SliceProfile_AN_NF_O1''TN_SliceProfile' from the Elements palette to the service canvas.

24.Create ServiceProfile_O1 Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'ServiceProfile_O1' as the name to indicate the meaning of the service.
- Select 'ServiceProfile' as Category.

2. In Composition section search 'Slice_AR', 'SliceProfile_CN''SliceProfile_AN_O1''SliceProfile_TN'drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section, define Service properties.

a. Click Add Property

b. Input name and select 'org.openecomp.datatypes.ServiceProfile' as type.

c. Select some attributes of ServiceProfile as bellow picture shows and click Declare Input .

<input type="checkbox"/> spProp		ServiceProfile	<input checked="" type="checkbox"/> resourceSharingLevel	{"get_input": "spProp_resou
			<input checked="" type="checkbox"/> sNSSAI	{"get_input": "spProp_sNSSA
			<input checked="" type="checkbox"/> coverageAreaTAList	{"get_input": "spProp_cover
			<input checked="" type="checkbox"/> sST	{"get_input": "spProp_sST"}
			<input checked="" type="checkbox"/> dLThptPerUE	{"get_input": "spProp_dLThp
			<input checked="" type="checkbox"/> uEMobilityLevel	{"get_input": "spProp_uEMo
			<input checked="" type="checkbox"/> latency	{"get_input": "spProp_latenc
			<input checked="" type="checkbox"/> uLThptPerUE	{"get_input": "spProp_uLThp
			<input checked="" type="checkbox"/> maxNumberOfUEs	{"get_input": "spProp_maxN

d. Add input for activityFactor param with a value(i.e. 20)

4. Distribute the service model and check the results.

25.Create CST_O1 Service Template

Login SDC HOME page with Designer Role, add new service.

1. In the General section, complete all required fields.

- Suggest 'CST_O1' as the name to indicate the meaning of the service.
- Select 'CST' as Category.
- Fill in the "Service Type" field with the value "embb"

2. In Composition sectionsearch 'ServiceProfile_O1', drag the element from the Elements palette to the service canvas.

3. In Properties Assignment section,define Service properties.

a. Click **+ Add Property**

b. Input name and select 'org.openecomp.datatypes.CSProperties' as type.

c. Select all attributes of ServiceProfile except 'sNSSAI' and click Declare Input .

Properties		Inputs	Policies	Search	Declare Input	Declare Policy	Create List Input
Property Name	Type	EntrySchema	Value	Discard	Save		
SELF							
<input type="checkbox"/> csProp	CSProperties		<div> <input checked="" type="checkbox"/> coverageAreaList <input type="checkbox"/> expDataRateDL <input checked="" type="checkbox"/> expDataRateUL <input checked="" type="checkbox"/> latency <input checked="" type="checkbox"/> maxNumberOfUEs <input checked="" type="checkbox"/> resourceSharingLevel <input type="checkbox"/> sNSSAI <input checked="" type="checkbox"/> uEMobilityLevel <input checked="" type="checkbox"/> useInterval </div>	<div> <input type="text" value='{"get_input":"csProp_coverageAreaList"}'/> <input type="text" value='{"get_input":"csProp_expDataRateDL"}'/> <input type="text" value='{"get_input":"csProp_expDataRateUL"}'/> <input type="text" value='{"get_input":"csProp_latency"}'/> <input type="text" value='{"get_input":"csProp_maxNumberOfUEs"}'/> <input type="text" value='{"get_input":"csProp_resourceSharingLevel"}'/> <input type="text"/> <input type="text" value='{"get_input":"csProp_uEMobilityLevel"}'/> <input type="text" value='{"get_input":"csProp_useInterval"}'/> </div>			

4. Distribute the service model and check the results.

A&AI Configuration:

If the service distribution to A&AI failed, like the picture shows bellow

Total Artifacts 6										Notified 3		Downloaded 3		Deployed 1		Not Notified 3		Download Errors 0				Deploy Errors 1	
✓	SO-COpenSource-Env11		2	Notified 1		Downloaded 1		Deployed 1		Not Notified 1		DISTRIBUTION_COMPLETE_ERROR				Deploy Errors 0							
✓	aai-ml		2	Notified 1		Downloaded 1		Deployed 0		Not Notified 1		COMPONENT_DONE_ERROR				Deploy Errors 1							
✓	cds		2	Notified 1		Downloaded 1		Deployed 0		Not Notified 1		Download Errors 0				Deploy Errors 0							

Add 'ServiceProfile' and 'NSTAR' model to A&AI through postman.(ServiceProfile/NSTAR Model Id and Invariant Id can be find on SDC page.)

- model-invariant-id is SERVICE_INVARIANT_ID
- model-version-id is SERVICE_MODEL_UUID
- model-type is SERVICE_TYPE
- model-name is SERVICE_NAME

```
curl --user AAI:AAI -X PUT -H "X-FromAppId:AAI" -H "X-TransactionId:get_aai_subscr" -H "Accept:application/json" -H "Content-Type:application/json" -k "https://{worker-vm-ip}:30233/aai/v21/service-design-and-creation/models/model/bfd35bbf-4469-44d2-aa13-eb531b2d4e7a" -d '{
  "model-invariant-id": "bfd35bbf-4469-44d2-aa13-eb531b2d4e7a",
  "model-type": "Service",
  "model-vers": {
    "model-ver": [
      {
        "model-version-id": "fd4ca61e-2147-4693-ad2c-2786889b51a5",
        "model-name": "NST01",
        "model-version": "1.0"
      }
    ]
  }
}'
```

NOTE: If any service template composed of Allotted Resource(AR) fails to distribute in AAI, then add created Allotted Resource Configuration to AAI as given above.