Application Oriented On-demand 5G Slice Service Provisioning by ONAP
ONAP

Open ONAP Capabilities like slice Activation, Policies, Customized PM Defining, etc. to 3rd party’s App server

Internet Apps

Provide Apps and differentiated user experience to end users

End User

Service Providers

B2B

B2C

B2B2C

Vertical Industries

Customers

Business Pattern
The internet companies, eg: Tencent, have the need to buy **on-demand 5G service**.

1. They only want 5G service to be provided *in hot spot and some specific time period* instead of keeping it alive all the time.
2. They have the demand to *divide their App users to different slices* according to their VIP level and the slice SLA.
3. They want to *monitor and measure the slice performance* based on their rules.

User Case Realization

Dublin Supported

- Preparation
  - Design
  - On-boarding
  - Network environment preparation

Existing Case Covered

- Commissioning
  - Creation

Our Focus Area

Lifecycle of a Network Slice Instance

- Activation
- Supervision
- Reporting
- Modification
- De-activation
- Termination

 Decommissioning
Architecture

1. Provide an implementation reference of CSMF and Business Exposure Platform within ONAP
2. Provide an implementation reference of NSMF within ONAP and a decouple solution of NSMF and NSSMF by ONAP connecting NSSMF from different vendor and different domain.
3. Open ONAP abilities to 3rd Parties.
1. 3rd Party Order Slice Service

2. End Users Use App under 4G

3. 3rd Party Provide Time-based Slice Activation Policy

4. End Users Use App under 5G

5. 3rd Party Monitor Slice Service KPI
登录

用户名
密码

登录

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VR360 Test Case
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### Slice Status

<table>
<thead>
<tr>
<th>App</th>
<th>User Number</th>
<th>Usage of Bandwidth</th>
<th>Health Status</th>
<th>Healthy</th>
<th>Total Flow of the Slice</th>
</tr>
</thead>
<tbody>
<tr>
<td>apl</td>
<td>0</td>
<td>0</td>
<td></td>
<td>Healthy</td>
<td>0</td>
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</tbody>
</table>

Close
Lab Environment
1. Customized E2E Slice Service Monitoring

Provide the customized slice PM function as a Micro service:
Provide a general manner for slice consumers to define customized Slice performance measurement and generate the KPI result according to user’s definition. *(Business Exposure Platform + NSMF)*

2. Slice Service Change

3rd party modify service order when demands change, eg:
*maxNumberOfUEs, coverageAreaTAL. (CSMF)*
ONAP will update the slice service by updating NSI according to the new Service Profile. *(NSMF)*

3. User-Slice Allocation Policy Configuration

App server provides the mapping relation between the end users and the slices to ONAP via Business Exposure Platform according to their VIP level and slice SLA, ONAP then will process the mapping relation and configure the allocation policy via PCF. *(Business Exposure Platform)*

Follow-ups In ONAP
Thanks!