Modeling R7 Architecture Review

Project Overview

- Both Python and Java based Parser will not be updated in R7, the R7 release will use the same as previous release.
- The etsicatalog project provides package management service and parser service by Micro Service. It can be used to store packages distributed by the SDC, which then can be consumed by other projects or components, such as UUI, VF-C, SO etc. It also includes a TOSCA parser service.

Architecture changes from F release:
Modeling/etsicatalog project will support SDC direct interface by implementing python-based Dmaap library to subscribe topics of other components.

For more component description - ARC Modeling Component Description – Guilin (R7) Release

New component capabilities for Guilin, i.e. the functional enhancements

etsicatalog

- Support SDC direct interface
- Support ETSI package APIs and storage for ETSI packages in runtime
- Improve platform maturity (TSC must have items)

New or modified interfaces

New interfaces:
- None

Modified interfaces:
- None

Consumed interfaces

<table>
<thead>
<tr>
<th>Interface Name</th>
<th>Interface Definition</th>
<th>Interface Capabilities</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDCE-6</td>
<td>SDC Interface</td>
<td>Distribution Engine publishes service notification to DMaaP. ONAP components subscribe to service notification from DMaaP</td>
<td>From R7</td>
</tr>
<tr>
<td>SDCE-7</td>
<td>SDC Interface</td>
<td>ONAP components retrieve service models from the Design Catalog</td>
<td></td>
</tr>
<tr>
<td>DMaaP-3</td>
<td>DMaaP Message Router Consuming Interface</td>
<td>Provides a message receiving service to the DMaaP user</td>
<td>From R7</td>
</tr>
<tr>
<td>MSBE-1</td>
<td>Micro Service Bus Interface</td>
<td>An interface for registration and discovery with the ONAP Micro Service Bus</td>
<td></td>
</tr>
</tbody>
</table>

Interface naming

Etsicatalog API naming is as followed:

<table>
<thead>
<tr>
<th>Interface Name</th>
<th>Interface Definition</th>
<th>Interface Capabilities</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>etsicatalogAPIE-1</td>
<td>Catalog API</td>
<td>Provide catalog management interface</td>
<td>/api/catalog/v1/</td>
</tr>
<tr>
<td>etsicatalogAPIE-2</td>
<td>NSD Management API</td>
<td>Provide NSD management interface (Align with ETSI SOL005 specification)</td>
<td>/api/nsd/v1/</td>
</tr>
<tr>
<td>etsicatalogAPIE-3</td>
<td>VNF Management API</td>
<td>Provide VNF management interface (Align with ETSI SOL003 specification)</td>
<td>/api/vnfpkgm/v1/</td>
</tr>
<tr>
<td>etsicatalogAPIE-4</td>
<td>Parser API</td>
<td>Provide Parse interface:</td>
<td>/api/parser/v1/</td>
</tr>
</tbody>
</table>

Reference to the interfaces

Wiki page: Etsicatalog API Document

Swagger: etsicatalog_API.yaml

What are the system limits

Now the component Redundancy and scaling depends on Kubernetes.
Involved use cases, architectural capabilities or functional requirements
etsicatalog will contribute to the following functional requirements:

- ETSI-Alignment Support for Guilin

Listing of new or impacted models used by the project (for information only)
None.