Software Defined Network Controller Project

Each project should have its own page with all of the associated project pages / attachments under it.

- SDNC Approved Project Proposal
- Release Planning
  - Amsterdam Release
  - B Release
  - C Release
- Meetings
  - Meeting Minutes
- SDNC APIs

SDNC Approved Project Proposal

Release Planning

Amsterdam Release
- M1 Release Planning Template
- M1 Release Planning Checklist
- M2 Functionality Freeze Checklist link
- M3 API Freeze Checklist link
- M4 Code Freeze Checklist link
- RC0 Checklist link
- RC1 Checklist link
- Sign-Off Checklist link

B Release

C Release

Meetings

SDNC Weekly Meeting

UTC 1:00 PM - 2:00 PM
PST  6:00 AM - 7:00 AM
EST  9:00 AM - 10:00 AM
https://zoom.us/j/330824945

Meeting Minutes


SDNC APIs

Link to SDNC APIs Page (Included below)

- Incoming APIs:
  - RESTCONF APIs:
    - Healthcheck : used to verify health of SDNC.
    - Swagger JSON : SLI-API(2016-11-10).json (Readthedocs : SLI-API)
- **Generic VNF API**: API used to request resources for VNFs (vDNS, vFW, and vCPE use cases)
  - Swagger JSON: [VNF-API(2015-07-20).json](Readthedocs: VNF-API)
- **GENERIC-RESOURCE-API**: used to assign resources and create networks for VoLTE and vCPE use cases.
  - Swagger JSON: [GENERIC-RESOURCE-API(2017-08-24).json](Readthedocs: GENERIC-RESOURCE-API)
  - Application Interface Document ([Updated for Beijing]: Generic_Resource_ONAP_AID.docx)
  - Blueprint for Capability Contribution and integration to Generic Resource API: [Blueprint for Capability Contribution and integration to Generic Resource API.docx](Readthedocs: GENERIC-RESOURCE-API)

- **SDC client**: used to listen for distributions from SDC. This is used to receive and consume TOSCA models

- **DMAAP listener**: used to listen for event notifications from DMaaP.
  - For Amsterdam release, the vCPE use case posts a notification to DMAAP that alerts SDNC when a BRG receives an IP from DHCP. The DMAAP listener then will invoke the GENERIC-RESOURCE-API to set up a WAN connection for that BRG.
  - **For Beijing release, SDN-C will also subscribe to an additional topic on DMaaP to receive LCM events, which will in turn invoke the LCM API.**

- **New for Beijing release**:
  - **LCM (Lifecycle Management) API**: used in Change Management and Manual Scale Out functional requirements to allow SDNC to process lifecycle events for L1-L3 VNFs.
  - The same rest api northbound is used in both SDNC (L1-L3) and APPC (L4-L7) - auto-generated from LCM-API.yang but the “action” parameters that can be sent via that API - some dont work on SDNC like start/stop/restart/evacuate - others like ModifyConfig will work on SDNC
  - See [APP-C LCM API guide](Readthedocs: APP-C LCM API guide) for additional information

- **Outgoing API**:
  - A&AI: SDNC will read/write objects to A&AI. The base aaa-service class is capable of reading/writing any object defined in A&AI XSD schema. The directed graphs for the use cases will drive which specific objects are read/written.
  - External SDNC controllers: SDNC will interface to external SDNC controllers to create underlay/overlay networks (for VoLTE). These external controllers expose a RESTCONF interface, which SDNC will invoke using its restapi-call-node interface.

APIs used by client projects:

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<thead>
<tr>
<th>Client Project</th>
<th>API(s) used</th>
</tr>
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<tbody>
<tr>
<td>SO</td>
<td>Generic VNF API (vDNS, vFW, vCPE)</td>
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<tr>
<td></td>
<td>GENERIC-RESOURCE-API (VoLTE, vCPE, vFW (CDS use case))</td>
</tr>
<tr>
<td>DMaaP</td>
<td>DMaaP Listener</td>
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<tr>
<td>SDC</td>
<td>SDC client</td>
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