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 Checkakist 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

Zoom meeting. Join from PC, Mac, Linux, iOS or Android: https://zoom.us/j/330824945 Or iPhone one-tap (US Toll): +16465586566,330824945# or +14086380968,330824945# Or Telephone: Dial: +1 646 558 8656 (US Toll) or +1 408 638 0968 (US Toll) +1 855 880 1246 (US Toll Free) +1 877 369 0926 (US Toll Free) Meeting ID: 330 824 945 International numbers available: https://zoom.us/zoomconference?m=RltS256rDo_7UtIz54jzZNmj7GbO

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](Readthedocs: GENERIC-RESOURCE-API)
  - 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 don’t work on SDNC like start/stop/restart/evacuate - others like ModifyAsync 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:

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

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- **APP-C LCM API guide**: [APP-C LCM API guide](Readthedocs: APP-C LCM API guide)