SDNC APIs

- **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)
    - GENERIC-RESOURCE-API: used to assign resources and create networks for VoLTE and vCPE use cases.
      - 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
  - 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 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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<th>API(s) used</th>
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<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>
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<tr>
<td>DMaaP</td>
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