

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)
 - 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](#)
 - 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:

Client Project	API(s) used
SO	Generic VNF API (vDNS, vFW, vCPE) GENERIC-RESOURCE-API (VoLTE, vCPE, vFW (CDS use case))
DMAAP	DMAAP Listener
SDC	SDC client