Service Design & Creation (5/17/17)

Project Name:
- Proposed name for the project: SDC
- Proposed name for the repository: sdc, sdc/sdc-distribution-client, SDC, SDC/SDC-Distribution-Client, TBD

Project description:
- Provides a well-structured organization of visual design & testing tools, templates and catalogs to model and create resources, and services. The output of the SDC is a set of models which drives the orchestration.

SDC in ONAP WIKI

Scope:
- Full and comprehensive VNF/Software Application(VF), and service design, which includes, not limited to:
  - SDC portal
  - Onboarding VNF/ VF
    - Onboarding heat based VNF/VF
    - Onboarding TOSCA based VNF/VF
  - Service design
  - VNF/VF design
  - Workflow design
    - lifecycle flows
    - change management flows
    - Discovery of available workflow actions (related to Micro Services and discovery)
  - API design
  - Close loop design
  - policy design
  - Service function chaining Design
  - VNF/VF License Design
  - VF/VNF deployment flavor design
  - Export NS/VNF as CSAR Package
    - including the service template
    - including the implementation artifacts
  - Collaborative design
    - versioning
    - Design Lifecycle
    - Project/Admin dashboard (include user management, VNF/VF and Services relevant to the project).
  - VNF/VF/SERVICE testing and certification
  - Distribution to ONAP
    - TOSCA parser
    - Distribution to multiple clouds.
  - External API for VNF/VF and service
  - Image management
  - Identify the usecase in the Release 1
    - Service and VNF design
    - Workflow design
  - VoLTE usecase
  - vCPE
    - Service and VNF design
    - Workflow design
  - Test
    - VNF/VF automatic distribution and testing.
    - Service automatic distribution and testing.
  - Integration with BSS / Customer ordering.

- Describe the functionality to be provided by the project. Please provide the full intended scope of the project; not just what is intended for the project’s first release.
- Specify any interface/API specification proposed,
- Identity a list of features and functionality will be developed.
- Identify what is in or out of scope. During the development phase, it helps reduce discussion.

Architecture Alignment
- An alignment between the below projects should be agreed on
  - CLAMP is showing “Designing the Control Loop”
  - ICE – there is a link with onboarding
  - Modelling – we intend to provide modelling for A&AI in SDC
  - Network Function Change Management is showing “This project provides users with the ability to design workflows”
  - Policy Framework Project Proposal is showing “Policy Design GUI - work with SDC project to integrate the Policy Design GUI”
- VNF SDK – there is a link with onboarding
- DCAE
- VF-C
- SO
- What kind of dependency other projects will have with SDC, e.g. SO modeling?
- How will multi VIM project influence on the input/output we have for SDC?
- How to align to standards like ETSI VNF packaging?

**Architecture Alignment:**

current integration and new integrations for SDC in ONAP

**Legend:**

- How the existing functionality is going to align in ONAP
- How it will integrate with:
  - VNF-SDK
  - ICE (VNF certification)
  - Modeling
- What kind of dependency other projects will have with SDC, e.g. SO modeling?
- How will multi VIM project influence on the input/output we have for SDC?
- how do we keep close integration with the VIM that impacts modeling
- How to align to standards like ETSI VNF packaging/OASIS TOSCA/TMF?

**Resources:**

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Other Information:

- link to seed code:
  - SDC Source
    - https://gerrit.open-o.org/r/p/common-tosca-catalog.git
    - https://gerrit.open-o.org/r/p/common-tosca-model-designer.git
    - https://github.com/zte/winery/tree/workflow-modeler
  - Vendor Neutral
    - The current SDC seed code has been already scanned and cleanup to remove all proprietary trademarks, logos, etc. except openecomp to be replaced by onap
    - Subsequent modification to the existing seed code should continue to follow the same scanning and clean up principles.
  - Meets Board policy (including IPR)

Key Project Facts

Project Name:
- JIRA project name: Service Design and Creation
- JIRA project prefix: SDC-

Repo name: SDC and SDC/sdc-distribution-client
Lifecycle State:
- Primary Contact: Ofir Sonsino, Tal Halfon
- Project Lead: Ofir Sonsino (AT&T), Avi Ziv (amdocs)
- mailing list tag sdc

Committers:

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*Link to TSC approval:
Link to approval of additional submitters: