VNF Requirements Charter

Project Name:

- Proposed name for the project: VNF Requirements
- Proposed name for the repository: vnfrqts

Project description:

- Create and maintain VNF Requirements targeted to ONAP user audiences and the tasks they perform. For example:
  - a VNF Provider (developer) using VNF Requirements in designing, testing, and certifying a VNF for use on ONAP
  - a Service Provider using VNF Requirements as prototype text for RFPs to acquire VNFs to run in an ONAP context
- This project will build an ecosystem for ONAP compatible VNFs by publishing guidelines and requirements:
  - For VNF vendors across the VNF lifecycle
    - For the VNF Packages at acquisition time
    - For the VNF validation and testing tools at onboarding time
    - For the VNF functionality common to all VNFs during Service Operation.
    - Including VNF functionality considering vendor VNF CI/CD tool chains
    - Including VNF functionality considering in service ONAP and network cloud CI/CD tool chains
    - Including requirements and processes considering VNF validation and testing tools and processes
  - For service providers to use as prototype text for RFPs such that
    - the guidelines and requirement are individually numbered for tracking purposes e.g.
      - to assess the degree of compliance by a VNF
      - to assess the degree of compliance in VNF onboarding testing & validation programs
- This project will develop the VNF test cases and procedures for use in the VNF validation program

Scope:

- This project will deliver a unified set of VNF Guidelines and Requirements.
  - The VNF Guidelines and Requirements must be versioned to enable evolution based on operational experience
  - The VNF Guidelines and Requirements will support the ONAP Architecture Principles.
- Identify a list of features and functionality will be developed.
  - The VNF Guidelines and Requirements will support the Release 1 Use Cases.
    - Use cases focused on VNF Requirements may be developed in this project, and they will need to be aligned with the ETE Platform use cases.
    - It will be incorporating and integrating the source material on VNF Guidelines and Requirements from OPEN-O and ECOMP in Release 1
    - VNF Guidelines and Requirements are to be refined beyond prototype text (e.g. through EPIC statements, use cases) to deliver test cases and test procedures for use in VNF onboarding & validation. VNF Requirement level use cases to be aligned with ETE platform use cases
- Identify what is in or out of scope. During the development phase, it helps reduce discussion.
  - VNF Guidelines may be forward looking, or include best practices in VNF design and VNF lifecycle processes.
  - VNF Requirements from ONAP APIs should be linked to the ONAP Release
  - VNF Requirements may include:
    - expected operational characteristics (e.g. security, resilience, upgradeability)
    - conditional requirements (e.g. When configured for deployment on High Availability Network Cloud Infrastructure, the VNF Shall …)

Architecture Alignment:

- How does this project fit into the rest of the ONAP Architecture?
  - Please include architecture diagram if possible
What other ONAP projects does this project depend on?

- SDN-C (for API requirements on VNFs)
- APPC (for VNF configuration requirements)
- VF-C (for VNF life cycle management and configuration)
- Service Design & Creation (for VNF onboarding)
- DCAE (for VNF reporting requirements)
- Authentication and authorization Framework (for VNF Security Requirements)
- Modeling (for Tosca Data Modeling for VNF)
- Multi-VIM/ MultiCloud (for network cloud infrastructure requirements)

What other projects depend on this project?

- VNF SDK
  - VNF tooling should support the development and packaging of VNFs that are conformant to the VNF Requirements
- VNF Validation program (ICE)
  - VNF Validation should be traceable against the VNF Requirements
- Documentation
  - References to deliverables produced by this project may be included in various ONAP release documents maintained through the documentation project
- Reference VNFs (now Integration Project)
  - Reference VNFs should be VNF Requirement compliant. The Integration Project maintaining those Reference VNFS would be dependent on the VNF Requirements for validating compliance.

How does this align with external standards/specifications?

- External specifications of APIs/Interfaces or Information/data models to be referenced where applicable

Are there dependencies with other open source projects?

- OPEN-O (Mercury release)
- OpenECOMP
- OpenStack (Network Cloud Infrastructure Requirements)

Resources:

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### Project Roles (include RACI chart, if applicable)

#### RACI Chart (Roles and Responsibilities Matrix)

<table>
<thead>
<tr>
<th>VNF Requirements</th>
<th>VNF SDK</th>
<th>VNF Validation</th>
<th>Reference VNFs</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop VNF Requirements as prototype RFP text</td>
<td>R/A</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Develop Requirements for VNF Package</td>
<td>R/A</td>
<td>C</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Develop Requirements for VNF Validation</td>
<td>R/A</td>
<td>I</td>
<td>C</td>
<td>I</td>
</tr>
<tr>
<td>Develop Requirements for VNF functionality during service design</td>
<td>R</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Develop Requirements for VNF functionality during operation</td>
<td>R/A</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Develop Requirements for VNF operation during in service ONAP and network cloud CI/CD tool chain operations</td>
<td>R</td>
<td>I</td>
<td>I</td>
<td>I</td>
</tr>
<tr>
<td>Develop VNF requirements reflecting VNF validation processes</td>
<td>R</td>
<td>I</td>
<td>A</td>
<td>I</td>
</tr>
</tbody>
</table>

R = Responsible, A = Accountable, C = Consulted, I = Informed

### Other Information:

- Seed: Code / documentation
- VNF: Guidelines for Network Cloud and OpenECOMP,
- VNF: Management Requirements for OpenO
- VNF: Management Requirements for Open-O
- VNF: Cloud Readiness Requirements for OpenECOMP,
- VNF: Heat template Requirements for OpenECOMP
- VNF: TOSCA Template Requirements for Open-O

- Vendor: Neutral
- Meets Board policy (including IPR): YES

Use the above information to create a key project facts section on your project page

### Key Project Facts

**Project Name:**

- JIRA: project name: VNF Requirements
JIRA project prefix: vnfrqts

Repo name: (all under https://gerrit.onap.org)

- vnfrqts/guidelines
- vnfrqts/requirements
- vnfrqts/epics
- vnfrqts/usecases
- vnfrqts/testcases

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*Link to TSC approval:

Link to approval of additional submitters: