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 us 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:

- Primary Contact Person: Steven Wright (AT&T) sw3588@att.com
- Names and affiliations of the committers:
  - Steven Wright sw3588@att.com (AT&T)
  - Wenyao Guan guanwengao@chinamobile.com (China Mobile)
  - Andrei Kojukhov andreik@amdocs.com (Amdocs)
  - Shitao Li lishitao@huawei.com (Huawei)
  - Yuanxing Feng feng.yuanxing@zte.com.cn (ZTE)
  - Herb Patten hp1256@att.com (AT&T)
  - Ying Li liyingji@chinamobile.com (China Mobile)
- Names and affiliations of any other contributors:
  - Ryan Hallahan rh173x@att.com (AT&T)
Other Information:

- **Vendor Neutral**: YES
- **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

Primary Contact: Steven Wright (AT&T) sw3588@att.com
Project Lead: Steven Wright (AT&T) sw3588@att.com

(confirmed by email June 21st, 2017)

mailing list tag [vnfrqts]
Committers:

Steven Wright (AT&T) sw3588@att.com (AT&T)

Wenyao Guan guanwenyao@chinamobile.com (China Mobile)

Andrei Kojukhov andreik@amdocs.com (Amdocs)

*Link to TSC approval:

Link to approval of additional submitters: