ONAP VNF Model (PROPOSAL for Release 1)

During the 4 August 2017 virtual meeting, the VNF SDK Models sub-project reached consensus on the recommendations with respect to the VNF Package Model and the VNF Descriptor Model for ONAP Release 1 (Amsterdam): specifically the VNF package model should endorse the ETSI NFV SOL004 v2.3.1 based CSAR Option 2 with focus on Manifest file.

Decision revisited and amended on 25 August 2017, as part of the VNF SDK Project Meeting based on time constraints driven by VF-C and VNF-vendors supplying the VNF's for ONAP R1.

Discussed revised references during 1 September 2017 call

TOSCA version spec: TOSCA Simple Profile in YAML Version 1.1 TOSCA CSAR-Version: 1.1 With option 1 (a TOSCA-Metadata directory): Manifest file: CSAR package support with and without manifest file

VNF Package Model Proposal for Release 1

- TOSCA Simple Profile in YAML Version 1.1 (updated 1 SEP 2017)
- TOSCA CSAR-Version: 1.1 With option 1 (a TOSCA-Metadata directory): Manifest file: CSAR package may optionally support with manifest file (for integrity check) (updated 1 SEP 2017)
- ~~CSAR format compatible with what is used by the VF-C project (25 AUG 2017)~~
- ~~CSAR format for R1 is to be based on TOSCA 1.1 CSAR format with Metadata Files (25 AUG 2017)~~
- ~~ETSI NFV SOL004 v2.3.1 focus on Manifest~~
- ~~(Optionally consider VNF Package model draft requirements in VNFRQTS-28 for beyond Release 1)~~
- ~~Proposal for ONAP CSAR R1 are uploaded in the modeling contribution files directory https://wiki.onap.org/download/attachments/8226078/ONAP_CSAR.pptx?api=v2~~
  ~~With a focus on the VNF Package Structure (Option 2): TOSCA-YAML CSAR without Metadata File~~
- **Note: Team will continue to evolve the models beyond this recommendation.**

VNF Descriptor Model Proposal for Release 1

- VNF Descriptor be based on OASIS TOSCA NFV YAML Profile v1.0 CSD04
- For release 1 use of OASIS TOSCA NFV YAML Profile WD04-rev6 may be acceptable for the current implementations to help aid with backward compatibility
- It is desirable to include Approved IFA011 Change Requests - VDU restructuring (i.e. key-value pair arrays)
- (Optionally consider VNF Descriptor model draft requirements in VNFRQTS-28 for beyond Release 1)
- **Note: Team will continue to evolve the models beyond this recommendation.**

VNF Descriptor Model Starting Points (with public document links)...

- ETSI NFV IFA011 v2.1.1 (VNF Packaging Specification)
- Approved IFA011 Change Requests - VDU restructuring
  - Create pointers to opaque key/value pair arrays to specify EPA requirements
- ETSI NFV IFA014 v2.1.1 (Network Service Descriptor)
- ETSI NFV IFA015 v2.1.2: NFV Information Model
- ETSI NFV SOL001 v0.51 (TOSCA)
- ETSI NFV IM; Papyrus Guidelines
- ETSI NFV IM; Modeling Guidelines
- ETSI NFV IM; External Touchpoints related to NFV IM
  - zipped files
- OASIS TOSCA Simple Profile for NFV v1.0 CSD04
- OASIS TOSCA Simple YAML Profile v1.1 (Committee Specification)
- OASIS TOSCA-Simple-Profile-YAML-v1.2-wd01-rev09

ETSI NVF Information Model: Links provided by ETSI at the ONAP Modeling Workshop 12/14/17

Latest published model:

http://www.etsi.org/deliver/etsi_gr/NFV-IFA/001_099/015/02.03.01_60/gr_NFV-IFA015v020301p0.zip (Including UML and Gendoc)

The IFA015 PDF:

http://www.etsi.org/deliver/etsi_gr/NFV-IFA/001_099/015/02.03.01_60/gr_NFV-IFA015v020301p.pdf

Latest draft version of the model:

https://docbox.etsi.org/ISG/NFV/Open/Drafts/IFA015ed241_Info_Model_Report

Guidelines for Papyrus and modeling:

Papyrus: http://www.etsi.org/deliver/etsi_gr/NFV-IFA/001_099/016/02.01.01_60/gr_NFV-IFA016v020101p.pdf

Modeling: http://www.etsi.org/deliver/etsi_gr/NFV-IFA/001_099/017/02.01.01_60/gr_NFV-IFA017v020101p.pdf