ONAP for the newbies: feedbacks and proposals for Beijing

Eric Debeau Orange,
Greg Glover AT&T

February, 8 2018
ONAP for the newbies

• First feedbacks from
  - Orange internal
  - Eco-system local actors
  - Hackathon organization discussion

• Various newbies
  - Developers who develop/improve components
  - VNF Vendor who need to on-board VNF
  - Service designers who need to compose complex Services from Resources
  - Testers/Approvers who need to test and certify Resources and Services
  - Administrators who create user accounts, assign roles, and install applications within ONAP
  - System and network administrators who need to instantiate, manage, and monitor Resources, Services, and Products on an existing ONAP system
  - Research teams
How they start?

• Test: where to find the documentation
  - First reflex: use search engine

• Get the installation guide:
  - [ONAP Installation in Vanilla OpenStack - Developer Wiki - Confluence](#)
  - [Setting Up ONAP - Developer Wiki – Confluence](#)
  - [Setting Up Full ONAP — master branch ...](#)
Documentation for users

• Videos
  - Youtube

• White papers
  - Architecture Overview
  - vCPE Use Case Whitepaper
  - VoLTE Use Case Whitepaper

  - VNF Provider Guidelines and Requirements
  - Service Designer
  - Service Administrator
  - User Portal
  - Mainly written in silo mode,

• Wiki very rich, but not cleaned
  - Using ONAP
    • ONAP Portal
    • Design
    • Deploy
    • Operate
    • Application overviews
  - Running the ONAP Demos
How to play with ONAP?

• Full official installation requires huge footprint
  - VM based installation using Heat template
  -

• Optimized installation using ONAP Operations Manager
  - Docker based installation using Kubernetes

• Possible to set up some components

• Not (yet) available ONAP as a Service solution
Use-case tutorial

• Step-by-step with no detailed explanation

• Confusion on the various roles for design phase

• Robot usage to perform some tasks
  - Requires to connect to the VM

• VIM configuration
Design phase

• Globally UI quite intuitive

• A lot of pre-defined objects with no documentation

• No way to clean the “tested” models

• No “high-level” description for
  - Directed Graphs in SDNC, APPC
  - BPMN workflow
General comments on Amsterdam

• Various use cases to illustrate ONAP capabilities

• Many code / rule for the use-case implementation
  - Not always documented
  - May require some reverse-engineering

• Default configuration
  - Not always documented

• Modeling concepts to be aligned
  - Naming may vary (eg Virtual Functions)
The guidelines for modeling/workflows

- Directed Graph
  - Tutorial ok

- SO workflow:
  - Camunda Modeler

- Policy rules
  - Ok for standalone

- Closed loop
Documentation project working: **ONAP for Newcomers**

- **"Welcome to ONAP" Flows and Text**
  - Convert existing component level diagrams to high level flows and text. Include high level Architecture, as well as as typical use cases such as: VNF Onboarding, Fault management, and Capacity management.

- **ONAP "Light" for SEs, Architects**
  - ONAP "Light" version (non-coding) targeted for SEs, architects on how to use the platform. Install ONAP on their local cloud environment
  - Run Health Check. Run three Use cases: vFW, vDNS, vCPE
  - Documentation - Put each step into context, both what and why

- **"Sandbox"**
  - "Sandbox" for developers to actually interact with the code. Install on laptops, pre-configured environment
  - Allow for coding, build and compile
  - Default IDEs
  - Does not impact live Master Branch
  - Available for hackathon
  - Documentation; Need tutorial materials (videos, text, flows?)

https://wiki.onap.org/display/DW/Beijing+%28Release+2%29+Doc+Work+Plan
Proposals

• Use-case documentation
  - High-Level call flows
  - Detailed call flows
  - Harmonized documentation for use-cases

• Use-case tutorial
  - Do not mix UI & scripts => develop some UI for the test
  - Simplify with predefined License Model
  - Create specific user to enable all roles
Call flow using plantUML
A proposed learning curve for connectivity services

- **SDNC**
  - NetConf/Yang Directed Graph
- **SDNC**
  - AAI
  - REST API ONAP Modeling
- **SDNC**
  - SO
  - BPMN
  - SDC
- **SDNC**
  - AAI
  - SO
  - SDC
  - DCAE
  - Policy
  - CLAMP

Connectivity, Inventory upgrade, Modeling, Closed-loop
Need community help to reach S3P

• S3P: Scale, Stability, Security and Performance

• Documentation is key to reach ONAP usability

• More documentation required for every component
  - Default configuration
  - More example

• More focus on end to end documentation
  - Call flows
  - Explanation

• Training/University efforts should be prioritized
MERCI ;-)