SDN Platform-OPEN API Platform Integrator

Sitharaman Trichy Ramasubramanian (sitha)
Outline

- Intro ONAP
- Opportunity to expose ONAP/SDN Platform Microservice Component’s as-service using OPEN API
- Modern day Requirement and Solution Architecture
- Solution in tandem with Open Digital Architecture
- Use Case – Bring Your Own Inventory (BYOI)
SDN Platforms – Open API Innovation Pipeline

Individual components are built using Micro Service but platform is not tightly coupled with components.

- **Microservice**
- **Plug & Play**
- **Platform integration**
- **Open Digital Enablement System**

Create a ecosystem to use in-house developed inventory/provisioning systems with SDN platform.

Across all SDN platform integration with legacy OSS system.

Adopt API First design and Standardize ONAP using Open API based on domain-driven design.
SDN Platform OpenAPI Adaptor – Approach

- Model
- Publish
- Manage

- API Catalog Blue Print
- API Spec Mapper
- Resource Plug-in Blue prints
- Data Dictionary Mapper

- Mapper mS
- Translation Objects Service
- Orchestration G/W Service

- As-a-Service / Configurability

- Design process model
- Run Orchestration
- Life Cycle Management

- SDN Platform
- ONAP
- Legacy Inventory Systems
- Local Data storage

IBM Services, ONS / 04 Apr, 2019 / © 2018 IBM Corporation
SDN Platform Open API Adaptor – Summary

Capability & IT Portfolio Dimension

- **Monolithic Architecture**
  - Integration across components of the platform is difficult

- **Launch**
  - Microservice Architecture
  - Platform Components are tightly coupled
  - Practiced & Consistent

- **Grow**
  - Plug & Play and Open Integration external Platforms
  - Able to integrate with Legacy to maintenance & transform
  - Reliable & Scaled

- **Create**
  - Mongolithic Architecture
  - Integration, across component's of platform is difficult
  - Not Practiced

- **Benefits**
  - Improves **Business Agility** and interoperability across Platform and Legacy OSS integration with cutting edge Digital platform
  - Promote **Innovation** - as adaptor will save resources on building fundamental basic building blocks
  - Partnering for **New Services** – Application integration and New service on-boarding would be much more faster
Thank you