



ONAP

OPEN NETWORK AUTOMATION PLATFORM

Telstra ONAP Priorities

May 31st , 2019

Use Case #1 ONAP as “Third Party” Operational Domain Manager

Business Drivers

Executive Summary - In case of tier 1 / brownfield operators, it's more likely that ONAP might need to interface with existing orchestration platforms for specific domains This use case will provide ONAP capability to be operational domain manager for third party services. Service providers will be able to use ONAP to provide end to end automation for composite or white labelled services which could be provided and managed by third parties. This use case will enable federated catalog and orchestration management.

Business Impact - The use case will provide capability in ONAP for seamlessly on-boarding services from partner (or specific) domain catalog. Lack of this capability today will lead to manual creation of partner services in ONAP which is time consuming and error prone. With introduction of this capability, ONAP will be able to consume domain specific service definitions via Open APIs and publish the same to run time components. Next phase of this use case will extend the operational domain manager capabilities to support complete service operations value chain for “Third Party” or Domain specific services via federation.

Business Markets

- Potential candidates for Third Party Domains which can be supported by ONAP in this context:
 - National Broadband Network (NBN) [Ref: <https://www.nbnco.com.au/>] Fixed Broadband Service,
 - Managed Network Service from other service providers (Telco Peers)
 - Hybrid cloud ecosystem of private and public clouds from multiple cloud service providers
 - Special case could be composite services which include service components managed by a existing domain manager
- This use case is also relevant service provider environment where all services are managed by single ONAP environment (e.g. If there is need to move catalog from dev / test to production)
- This will be very relevant for automation of digital services delivered via diverse 5G Ecosystem (B2B2X Models) for vertical industry solutions

Funding/Financial Impacts -

- This use case, once developed, can be used by any service provider deploying and using ONAP.
- ONAP as “Third Party” Domain manager will play a significant role in on-boarding partner domains in a uniform manner.
- Service definition from “Third Party” will be made available to service provider in few hours, consumable via an abstraction layer (optional) (NaaS in Telstra context).
- Once catalog is on-boarded ONAP can publish the service definition to other design time and run time components such that ONAP can support complete life cycle management of the service via federation

All this will essentially bring down time to market significantly for partner services. Telstra is committed to drive the implementation of these capabilities in ONAP across next few releases.

Organization Mgmt, Sales Strategies - There is no additional organizational management or sales strategies for this use case outside of a service providers "normal" ONAP deployment and its attendant organizational resources from a service provider.

Usecase#1: ONAP as “Third Party” Operational Domain Manager

Detailed View

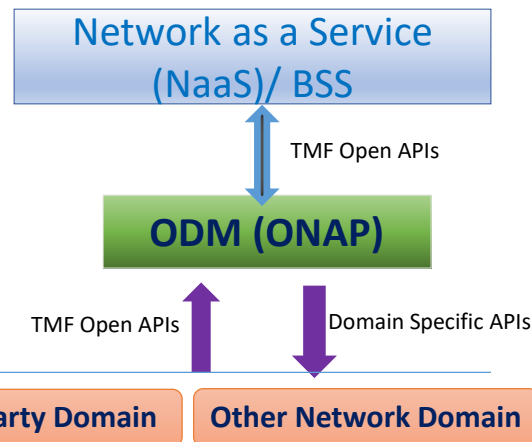
Use Case Overview

- A standards-based approach that allows a service provider to have a network automation platform for composite or white labelled services managed by specific/ Third Party “ domain managers
- ONAP provides Operations Domain Management (ODM) and other complementary capabilities to ensure full automation of the E2E lifecycle management of the service via federation
- Services are exposed and consumed via Network as a Service (NaaS) which is an abstraction layer above the operational domains and exposes the services to BSS
- Consistent way of consuming 3rd party services for service providers like Telstra
- ONAP will facilitate service operations value chain for third party domain via federation
- Substitutes multiple handovers between parties/teams and applications to enable zero touch automation

- **This use case implementation will be phased out across release F and G**

Initial Impact Analysis

- Service Provisioning
 - **SDC – Import 3rd party service definition, Publish catalog to run time ONAP components**
 - Any potential SO enhancements for orchestration
 - A&AI – add references on 3rd party domain inventory
 - Enhancements to Ext APIs (POST Operation for Catalog API)
- Service life cycle management action associated with O2A and T2R must be supported via federation
 - CM: change management (capacity increase to meet scaling demands);
 - IM: Support incident management (problem identification and fix); and
 - VM: Any support (workflow/notification if any) for services associated with VNFs managed by “Third Party”)
- Remediation actions are triggered automatically using ONAP as ODM
- Necessary references to service provided by “Third Party” domains will be made available to support C2M/P2O processes



An abstraction layer above the operational domains which acts as a gateway ; exposes the services to BSS

Operational Domain Manager to support Third Party Services via federation

Partner Domain – which can be another SP or another ONAP or non ONAP instance

Changes mentioned in Grey are proposed for subsequent ONAP Releases beyond Frankfurt

Beneficiary: 3rd party providers and Service Providers like Telstra