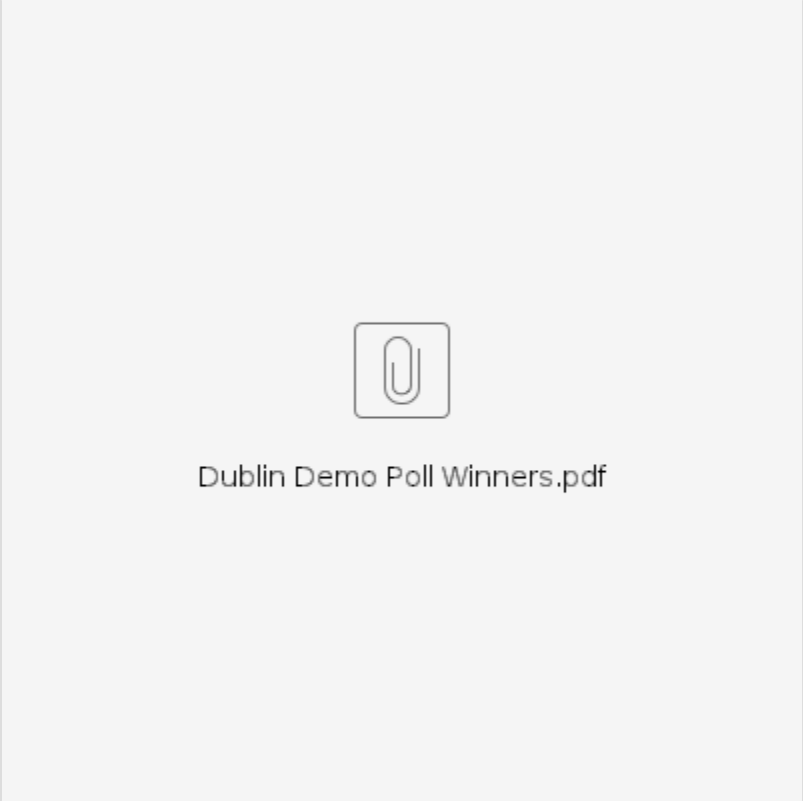
ONAP Community Awards: Dublin Release (Demos Only)

Demo Poll Results

The ONAP TSC and the End-user Advisory Group were invited to review the demo submissions and select their favorites. No specific guidelines on technical merit vs. ease of understanding, etc were provided. The top three demos were revealed and celebrated at the 22 Aug 2019 meeting of the TSC and are presented below:

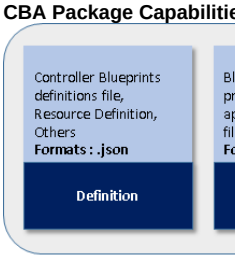


Demo Details

DESCRIPTION: There will be an event to show off all of the work that has been done in R4.

Demo	Description	Wiki, Recording, Slides

DCAE - New features and service components	DCAE new functionality that is demoed: Platform Function • Multisite K8S cluster deployment support for DCAE services (via K8S cloudify plugin) • Helm chart deployment in DCAE via new Helm cloudify plugin • Blueprint generator tool • Dashboard Integration Service Components (introduced in Dublin) • PM-Mapper • VES_mapper • RestConf • BBS-Eventprocessor • SON-handler • Heartbeat MS • DataLake handlers Demoer - Vijay Venkatesh Kumar / DCAE Team (Joseph O'Leary , Stavros Kanarakis , Kedar Ambekar ,krishna moorthy , KOTAGIRI, RAMPRASAD <rp5662@att.com>, Jack Lucas , user-f79d0 , SERPICO, MICHAEL V <ms236b@att.com>, Guobiao Mo) Projects Highlighted: DCAE Supporting Slides: ONAP_DCAE_Highlights.pdf	**DCAE Service Components C** https://docs.onap.org/en/latest/ DCAE R4 Service Component **Demo Videos:** PM-Mapper MS & BBS-Eventpr https://wiki.onap.org/download/ version=1&modificationDate=1 VES-Mapper MS & SON-Handl /DCAE_Weekly_04252019_De Dashboard & DCAE Multisite d /DCAE_Weekly_04252019_De RESTConf Collector & Heartbe /DCAE_Weekly_05022019.mp4 Blueprint generator : https://wik version=1&modificationDate=1 Datalake (PoC):https://wiki.ona version=1&modificationDate=1 Walkthrough on BP generation /attachments/15630468/DCAE_ version=1&modificationDate=1 Helm Plugin -https://wiki.onap.c
OOF SON: Centralized PCI Optimization & Centralized ANR	Description: This Demo will show a SON function: centralized PCI optimization which is the intelligent assignment of Cell Identifiers for a 5G wireless network and Automatic Neighbor Relations (ANR). It uses a simulated RAN network. Demoer: N.K. Shankaranarayanan , Swaminathan Seetharaman , krishna moorthy , at WinLab (Rutgers Open Wireless Lab OWL) Projects Highlighted: DCAE, SDN-R, Policy, OOF Wiki Page: OOF-PCI Use Case - Dublin Release - ONAP based SON for PCI and ANR Supporting Slides: Slides Demo Date: Friday, June 28 2019 (10AM to 1PM) OWL, July 24 (Remote) - Video recording	

Improved E2E Automation using SO Building block and CDS.	Description: This Demo show case the **E2E ONAP** capabilities for **Zero Touch Declarative Provisioning** automation by leveraging **SO Building Block and CDS** for the **vDNS use case**. In Dublin release, the CDS community delivered two new building block in order to enable e2e automation post instantiation steps. We can see that a configuration is generated and saved in CDS DB via the new **ConfigAssignBB**. And later during the instantiation process, the configuration is deployed on the VF module by CDS via the new **Config DeployBB** Demoer: Abdelmuhaimen Seaudi Projects Highlighted: SO, SDNC with Netbox, Naming mS and Controller Design Studio aka CDS, AAI, Policy, SDC, DMAAP. Wiki Page: E2E Automation vDNS w/ CDS Use Case - ONAP-02-Design Time E2E Automation vDNS w/ CDS Use Case - ONAP-03-Run Time- Video Demo for vDNS CDS Dublin Supporting Slides: (link to slides)	**E2E Zero Touch Declarative P** https://wiki.onap.org/download/ version=2&modificationDate=15 NOTE: • Leveraging SO Building Bl • CDS emerged as a critical Portal to models the provis **Package** [CBA] that enabl CDS generic components. • **CBA Package Capabilitie**  • CDS Solution Eliminates a generation and ip assign **CDS Solution is powered by**

Controller Design Studio Initiative: Cloud Native Micro-services Declarative Provisioning and Configuration Management Solution	Description: In Dublin release, the CDS community has delivered a **cloud native micro-services provisioning and configuration management** solution for controllers that enables **Zero Touch Declarative Provisioning**. This demo illustrates the power of the CDS architecture, modeling and run time capabilities that enable service providers and vendors to rapidly react to customer demands and technology evolution. Demoer: Alexis de Talhouët Marc-Alexandre Choquette Projects Highlighted: CDS Wiki Page: CDS- Modeling Concept Controller Design Studio-Dublin-[01]-Overview/Planning Supporting Slides: https://wiki.onap.org/download/attachments/60890295/CDS%20-%20ONS%20NA%202019_v2.pptx?version=1&modificationDate=1554746360000&api=v2	**CDS Cloud Native Micro-serv** https://wiki.onap.org/download/ NOTE: • CDS emerged as a critical Portal to models the provis **Package** [CBA] that enabl CDS generic components. • **CBA Cloud Native Micro** • Design Ti UI JavaScript based User Controller Blu Blueprint & Data Dictio Enrich Validate Data Dictionary Cor Workf Artifa Node **CDS Solution is powered by**
Policy Framework Architecture: Introduction and demonstration of the new Policy Framework architecture components	Description: In Dublin, The Policy Framework project re-architected its components to support Policy Lifecycle API based on TOSCA compliant Policy Types, new PAP for policy distribution and grouping PDPs, scalable PDP architecture and a new Decision API to support ONAP components. Demoer: Pamela Dragosh Ram Krishna Verma Liam Fallon Chenfei Gao Jorge Hernandez Projects Highlighted: Policy Wiki Page: The ONAP Policy Framework TO BE DELETED - refer to Dublin Documentation Supporting Slides: (link to slides) Using ONAP readthedocs documents directly for presentation: https://onap.readthedocs.io/en/latest/submodules/policy/parent.git/docs/architecture/architecture.html https://onap.readthedocs.io/en/latest/submodules/policy/parent.git/docs/design/design.html https://onap.readthedocs.io/en/latest/submodules/policy/parent.git/docs/api/api.html https://onap.readthedocs.io/en/latest/submodules/policy/parent.git/docs/pap/pap.html	DDF Recording - Overview of F https://wiki.lfnetworking.org/dov version=4&modificationDate=1! The above recording includes: 1) Overview of the new Policy F 2) Explaining the new compone 3) Explaining the installation of 4) Demo of how the ToscaPolic defined using a single ToscaSe 5) Demo of how to create & dep 6) Demo of how to create & dep 7) Demo of how to create & dep

BBS (Broadband Service) use case	Description: E2E demo for BBS use case Demoer: David Perez Caparros Projects Highlighted: BBS relies on ExtAPI, SO, DCAE (PRH, BBS-EP, VES mapper, VES collector, RESTCONF collector), Policy (APEX engine), AAI, SDNC Wiki Page: BBS Broadband Service Use Case (Dublin) BBS Documentation (Dublin) Supporting Slides: ONS_NA_2019_BBS_Demo_Final.pptx	BBS Documentation (Dublin)#E • BBS_01_Create_VLM.mo • BBS_02_ResourceOnboa • BBS_03_E2EServiceDesi • BBS_04_HSIACreationAn • BBS_05_NomadicONT.m Demo session during LFN DDF • 20190613_ONAP_DDF_B • 20190613_ONAP_DDF_B
Portal Internationalization Support and Angular 6 upgrade	Description: • Support other languages in ONAP Portal screens - Locale/Internationalization language support • Angular 6 Upgrade of ONAP Portal SDK Demoer: Leimeng Shi, Manoop Talasila Projects Highlighted: Portal Wiki Page: Internationalization language support (Dublin Release) Supporting Slides: portal-multi-language.pptx	ONAP Portal Overview: ONAP Portal ONAP Portal Intro Portal_SDK_App_Dev.pdf Angular 6 upgrade sample doc multi-language solution details

ONAP Orchestrated SD-WAN and Edge: An E2E demonstration was done in ONS NA 2019 involving provisioning and closed loop flows using ONAP.

Description:

The demo mainly focused on orchestration of SDWan and Edge through ONAP right from the design to the deployment and assurance.

Its demonstrated in multiple steps involving:

- Demonstrate the provisioning of a new site resource to an existing service.
- Demonstrate the auto provisioning of resources on plug and play.
- Demonstrate the closed loop recovery of the network on an anomaly.
- Service Quality assurance via bandwidth on demand (BoD)
- Real time monitoring of the service and resource health from the UI

Demoer: Gaurav Agrawal Seshu Kumar Mudiganti

cc : Chuanyu Chen

Projects Highlighted: UUI, SDC, SO, SDNC, A&AI, DCAE, Holmes, Policy

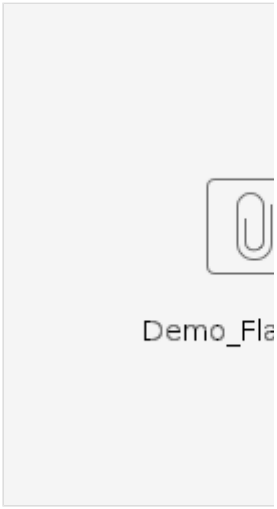
Demo of ONS NA 2019.

Supporting Slides:

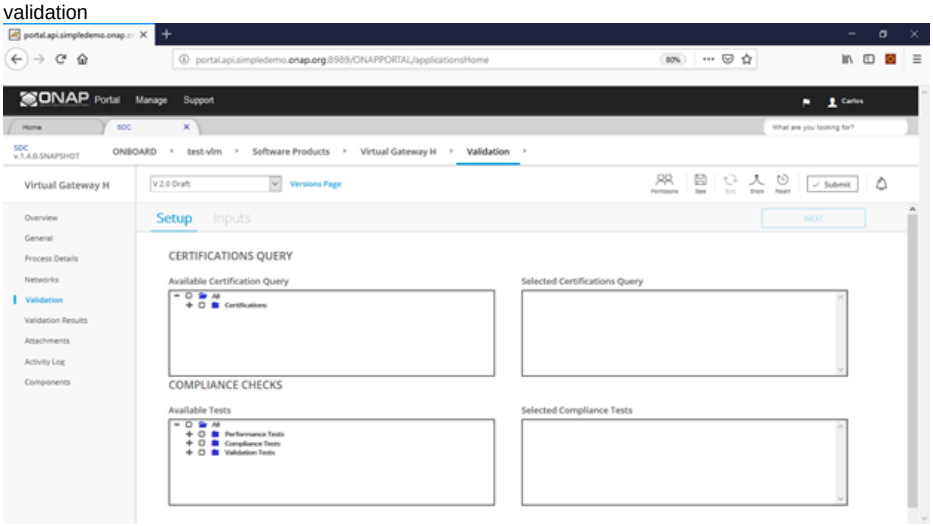
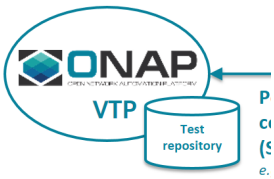
ONS NA 2019 Demonstration s

Handouts:

Detailed Flash video showcasir



Cross-Carrier Optical Interconnect use-case : On-boarding 3rd party Transport SDN Controllers integrating T-API / OpenROADM standards	Description: In this demo for Dublin, we showcase controller on-boarding and topology mapping enabling resource management across optical network domains, as an the initial step towards establishing cross-carrier Optical interconnect services through ONAP. Demoer: THIRILOSHINI KRISHNAKUMAR Raghavan Subramanian cc (Brian Freeman Olivier Augizeau Denise Provencher) Projects Highlighted: SDN-C, A&AI were key components that we used in this demo along with 3rd party SDN controllers supporting Open Standard data models for Service Provisioning & Topology Wiki Page: Multi-domain Optical Network Services Supporting Slides: Transport_Controller_Onboarding_topology.pptx	Run-time Video recording show ONS-ONAP-demo-recording.a
Kubernetes based Cloud-region support : Deploying Container and VM based workloads on Kubernetes deployment	Description: This Demo will show the deployment of vFW and Edgex use-cases in a Kubernetes based cloud region via the multicloud-k8s plugin. This demo will upload self-contained HELM Charts in SDC that will be customized and instantiated by SO in a kubernetes cloud region. Demoer: Kiran Kamineni, Eric Multanen, Ritu Sood Projects Highlighted: Multicloud-k8s, Multicloud, SO, SDC Wiki Page: https://onap.readthedocs.io/en/latest/submodules/integration.git/docs/docs_vfw_edgex_k8s.html#docs-vfw-edgex-multicloud-k8s Supporting Slides: (link to slides) Demo Date:	
CCVPN Use case - Dublin Extention (CCVPN + 5G)	Description: This demo was shown at 2019 MWC-SH, the development of which is based on Dublin release, supporting multi sites creation and intelligent security surveillance. Besides the basic VPN stretch delivering internal data between enterprise HQ and branches, deployment of AI analysis apps is also provided as value added service, as well as 5G slice provisioning in case of an emergency. Demoer: LIN MENG Zhang Min cc: Chuanyu Chen Seshu Kumar Mudiganti Projects Highlighted: SDC, U-UI, SDN-C, Policy, DCAE, SO, Multi-cloud, A&AI Highlighted Features: 1. Provide an ONAP-based comprehensive solution including enterprise VPN service, high speed 5g slice, edge computing and intelligent analysis 2. Development is based on Dublin release. Add 5G slice creation based on D release, which proves that ONAP could support agile service design and creation. 3. Deploy intelligent security system developed by CMCC team Wiki Page:CCVPN+5G Demo--VPN PLUS Demo: "CCVPN+5G–VPN PLUS.swf" Demo Date: 6.26-6.28, 2019	

VSP Compliance check - Check the VNF compliance based on Operator's requirment and query from 3rd-party registries	Description: When Operator on-board the VSP in SDC, wanted to verify the compliance of the VSP based on the their specific requirements such as • whether its compute flavor matches the Operator telco cloud flavors, • is SRIOV enabled or not To support this feature, SDC introduced following 2 tabs in VSP on-boarding process 1. validation  2. validation result In addition, it supports to check the VNF certification by querying OVP or 3rd-party registries. Demoer: Rabi Abdel user-67d6fBryan Whittle Projects Highlighted: It relies on following projects: 1. ONAP projects: SDC, VNFSDK - VTP, CLI - Open Command Platform (ocomp) 2. Operator's project: on-board new modules in VTP for certification queries and operator specific requirement checking *Demo hosted at following Events* 1. ***ONS NA 2019***	Wiki Page: VSP Compliance Check within  Supporting Slides: Demo Video: *VSP Compliance Checks Demo* User Guide *https://wiki.onap.o docx?version=2&modifica* Corporate Sponsors: **Huawei, i**
OVP ecosystem- Certify the VNF and NFVi under the guidence of LFN CVC	Description: Linux Foundation Networking (LFN) compliance and verification committee(CVC) defines the specifications for standardising the certification of the vendor's VNF and NFVI with Telco operator's requirements. To support this initiative, OPNFV and ONAP comminuties are working together to streamline the NFVI and xNF respectively and incubating the 'OVP ecosystem' project, which brings out the colloboration among multiple Vendors and different Telco Operators. Operators and vendors can setup this project as part of their CI & CD for performing the VNF testing. Demoer: Rabi Abdel Kanagaraj Manickam Victor Gao yangguanzhi@huawei.com Projects Highlighted: It relies on following projects: 1. OVP 2. ONAP projects: VNFSDK - VTP 3. OPNFV projects: dovetail **Demo hosted at following Events** **ONS EU 2019**	Huawei is hosted the site to su VSP Compliance and Validatio https://wiki.lfnetworking.org/dis Slide deck

vFW HPA Automation using HEAT	Description: Automation Script that can be used to run the vFW/vDNS (possibly vIPsec but not tested) with HPA use case from start to finish. This script makes the process for setting up and running the the HPA use cases very easy and fast by calling various ONAP CLI commands that were added by the Intel Team in the Dublin release in order to support setting up and running use cases from start to finish using the ONAP CLI. Demoer: Itohan Ukponmwan Projects Highlighted: In addition to the main ONAP projects required to run a use case, this demo relies heavily on; 1. Multicloud 2. OOF 3. Policy Supporting Slides: **2019 June DDF Slide Deck** : https://wiki.lfnetworking.org/download/attachments/15630468/ONAP_Dublin_SO_Multicloud.pdf?version=1&modificationDate=1560495527000&api=v2 **(Starts at slide 9)**	**README**: https://github.com/o **Demo Video:** https://wiki.onap.org/download/ **2019 June DDF Slide Deck** : h /ONAP_Dublin_SO_Multicloud. This Feature is enabled by **Inte**
OOM ONAP Offline Installer, Dublin CI/CD Pipeline	Description: The offline installer addresses a major challenge in ONAP's usability in production environments. It eliminates the need for public Internet access which often is not available in the environment where ONAP is deployed due to security reasons. With the offline installer all the required resources for deployment are being made available locally, so with the Dublin release there is no need to create unsafe pinholes in the network anymore. This demo shows the automation scripts that are gathering all artifacts needed to install ONAP on environment where there is no access to internet. Set of Jenkins jobs for easier usage of those scripts and for verification. Demoer: Mateusz Pilat Projects Highlighted: OOM/Offline-installer Wiki Page: https://onap.readthedocs.io/en/latest/submodules/oom/offline-installer.git/docs/index.html	OOM_offline_installer_cicd_de
VNFM Adapter and SO Monitoring	Description: Demonstrates the deployment of a VNF through ONAP using an ETSI SOL003 compliant VNFM. The demo utitises the VNFM-Adapter added to SO in the Dublin project and also shows the capability of the SO Monitoring tool for monitoring and debugging flows in SO Demoer: Michael Morris Gareth Roper Projects Highlighted: SO, VID Wiki Page: SO Plug-in Support for VNFM (SO VNFM Adapter) Supporting Slides: https://wiki.lfnetworking.org/download/attachments/15630468/ONAP%20SOL003%20Adapter%20and%20Roadmap-%20final.pptx?version=1&modificationDate=1560436355000&api=v2 Demo Date: (Logistics)	Recording of the demo at LFN https://wiki.lfnetworking.org/dov 20SO-Monitoring.mp4?version=

TITLE (Template)	Key Fields (Template)	Supporting Material
TITLE OF DEMO	Description: (Give a 1-paragraph description of the Demo) Demoer: Put the Demo-team (with LF "@" tags), at Location (e.g. OWL Lab) Projects Highlighted: List ONAP platform projects e.g.: DCAE, SDN-R, Policy, OOF Wiki Page: Give a link to the ONAP WIKI Page Supporting Slides: Insert Slides (or give WIKI link to Slides) Demo Date: (Logistics)	SLIDES WIKI PAGE DEMO VIDEO USER GUIDE CORPORATE SPONSORS: EXTRA INFO