



DCAE Dublin Features Highlights

Vijay Venkatesh Kumar
(vv770d@att.com)

DCAE Dublin (R4) Platform Enhancement

- Multisite K8S cluster deployment support for DCAE services (via K8S plugin)
- Support helm chart deployment in DCAE using new Helm cloudify plugin
- DCAE Healthcheck enhancement
- Dynamic AAF based topic provisioning support through Dmaap cloudify plugin
- PolicyHandler Enhancement to support new Policy Lifecycle API's
- Blueprint generator tool to simplify deployment artifact creation
- Dashboard Integration (UI for deployment/verification)
- Cloudify Manager resiliency

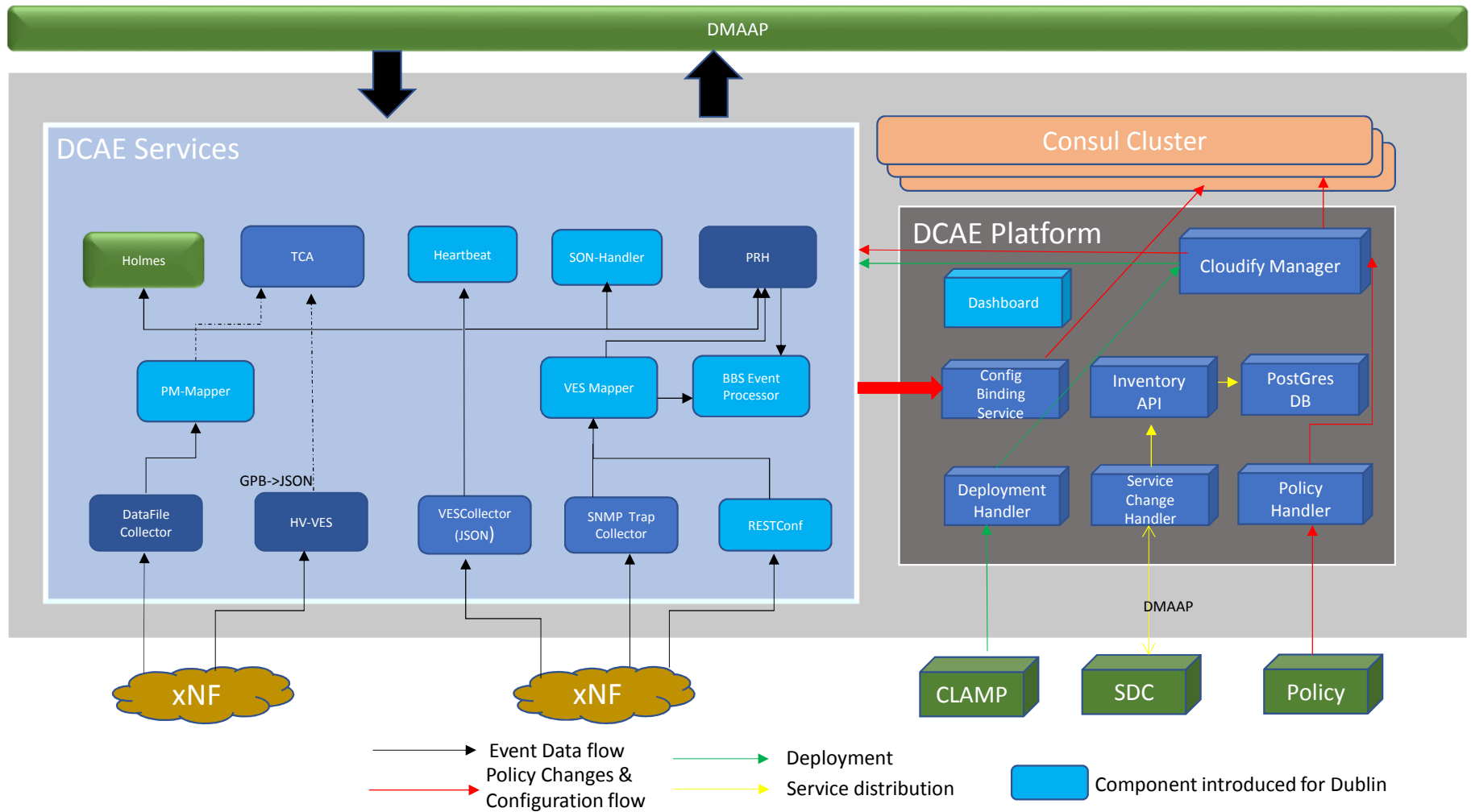
DCAE Dublin (R4) - New Service components

- **Collectors**
 - RESTConf collector - Provides RESTCONF interface support and subscribe events from multiple controllers
- **Event Processors**
 - VES/Universal Mapper - MS to translate non-VES event input (SNMPTrap Collector and RESTConf) into VES event
 - 3gpp PM-Mapper - MS to translate non-VES PM payload received via data-router into VES
 - BBS Event processor – Supports PNF-Reregistration and CPE Auth events
 - DataLake Handlers (POC) (<https://wiki.onap.org/display/DW/DataLake+POC>)
- **Analytics/RCA**
 - SON-Handler – Supports pre-processing and co-ordination actions of various RAN SON use cases (PCI optimization and ANR updates are handled in Dublin release)
 - Heartbeat MS – Tracks for VNF's VES heartbeats and trigger CL event when VNF-type misses consecutive heartbeats for configured interval

More info on each service is under RTD :

<https://onap.readthedocs.io/en/dublin/submodules/dcaegen2.git/docs/sections/services/serviceindex.html>

ONAP DCAE R4 ARCHITECTURE



DCAE Deployment updates for Dublin

DCAE Platform

- Migrated to helms charts for all prior components
- Cloudify Blueprint for R4 new components

DCAE Services

- Option 1 : Static Components (instantiated through DCAE-bootstrap)
- Option 2 : On-demand deployment through CLAMP
- Option 3 : On-Demand deployment through DCAE-Controller cli

Advantages with new deployment strategy

- 1) Deploy Services components in ONAP/DCAE usecase specific as required
- 2) Reduce overall ONAP and DCAE footprint for default installation
- 3) Helm migration of platform component to simplify external integration

DCAE Dublin New Features – Demo Recordings

PM-Mapper MS	
BBS-Eventprocessor MS	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_2019_04_18.mp4?version=1&modificationDate=1555597136000&api=v2
VES-Mapper MS	
SON-Handler MS	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_04252019_Demo-Session1.mp4?version=1&modificationDate=1556202975000&api=v2
Dashboard (platform)	
DCAE Multisite deploy (K8s plugin)	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_04252019_Demo-Session2.mp4?version=1&modificationDate=1556212411000&api=v2
RESTConf Collector	
Heartbeat MS	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_05022019.mp4?version=1&modificationDate=1556809046000&api=v2
Blueprint generator	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_2019_03_21.mp4?version=1&modificationDate=1555597171000&api=v2
Datalake (PoC)	https://wiki.onap.org/download/attachments/53249727/DCAE_Weekly_05232019.mp4?version=1&modificationDate=1558621621000&api=v2
Walkthrough on BP generation to deployment via Dashboard (DDF topic)	https://wiki.lfnetworking.org/download/attachments/15630468/DCAE_DDF_Session_06122019.mp4?version=1&modificationDate=1560958181711&api=v2