

ARC DCAE Component Description - Jakarta-R10

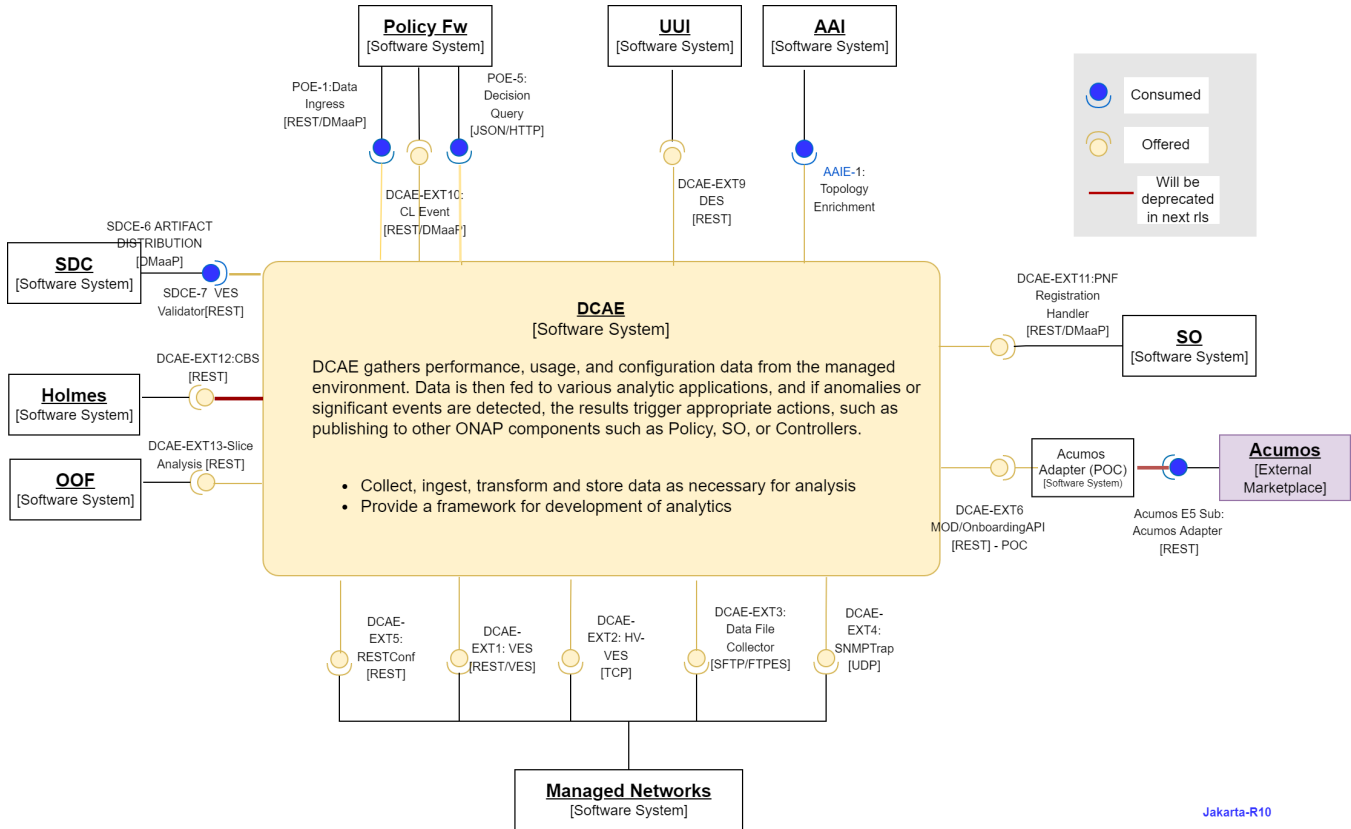
Page Status: Updated for Jakarta- 24 Jan 2022

Component Status: Pending PTL updates and ArchCom Review

Last Reviewed on: 04 Jan 2022

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1. High Level Component Definition and Architectural Relationships



2. Component API definitions

DCAE Component provides the following interfaces:

Interface Name	Interface Definition	Interface Capabilities	Protocol	Status	Consumed Models	API Spec (Swagger)
DCAE-EXT1	VES Collector	An interface to share FM/PM data for VNF FCAPS from the VNFs via the EMS Driver to VES Collector	REST	Available	VES	VES-Collector
DCAE-EXT2	HV-VES Collector	Interface to support GPB over TCP for highvolume VES Events	Proto/TCP	Available	VES	HV-VES (High Volume VES)
DCAE-EXT3	DataFileCollector	Supports bulk/batch datafile collection from xNF	http/sftp /ftpes	Available	3GPP	NA
DCAE-EXT4	SNMPTrap	Supports SNMP traps collection from SNMP agents deployed in the network	UDP	Available		NA
DCAE-EXT5	RESTConf	Subscribes to external controllers and retrieves data	restconf	Available		RESTConf
DCAE-EXT6	OnboardingAPI (MOD)	Used for onboarding MS component spec file and data-format into Design catalog	REST	Available (POC)		Onboarding HTTP API (MOD)

DCAE-EXT7	Deployment-Handler	High level API for deploying/undeploying-composed DCAE services	REST	Available		Deployment Handler
DCAE-EXT8	Inventory API	DCAE Inventory is a web service that provides the following: 1. Real time data on all DCAE services and their components 2. Comprehensive details on available DCAE service types	REST	Available		Inventory API
DCAE-EXT9	Data Extraction Service (DES)	Provides basic computation and data retrieval /access from datastorage maintained by DL handlers (Feeder)	REST	Available (Guilin)		des-swagger.json
DCAE-EXT10	DCAE Openloop /CL Event	Open loop and Control Loop event trigger from DCAE analytics/correlation MS into DMAAP	REST	Available		CL Event Structure
DCAE-EXT11	PNF Registration Handler	PNF Registration event published through DMAAP	REST	Available	VES	PRH (PNF Registration Handler)
DCAE-EXT12	ConfigBindingService (CBS)	The CBS provides API for all DCAE deployment mS to retrieve configuration from Consul.	REST	Available		CBS API
DCAE-EXT13	SliceAnalysis MS	API to provide details of remaining capacity available for queried slice instance (NSI/NSSI) NSI/NSSI Selection based on resource occupancy levels	REST	Available		https://wiki.onap.org/download/attachments/117740396/slice-analysis-swagger.yaml?version=1&modificationDate=1640159785000&api=v2
DCAE-EXT14	PM Subscription Handler Service	Adds API support for Subscription/Filters /Measurement group management	REST	Available		https://gerrit.onap.org/r/c/dcaegen2/+ /126725

DCAE Component consumes the following Interfaces:

Interface Name	Interface Definition	Interface Capabilities	Protocol	Status	Consumed Models	API Spec (Swagger)
POE-4	Policy update-notification via DMAAP	Receive updates to DCAE MS configuration policies via DMAAP (consumed by DCAE Policy Handler)	REST	Available	tosca.policies-foot TOSCA	
POE-5	PDP - DCAE Policy Sidecar	Fetches policies for DCAE MS from the Policy Framework via PDP query	REST	Available	Defined by policy	POE-5 (Policy Decision API)
AAIE-1	Topology Enrichment	Enrichment query by Correlation/analytics MS	REST	Available		AAI REST API Documentati on on readthedocs. io
Acumos-E5 Subscription	Acumos - AA (MOD)	Acumos Adapter - Retrieves models from Acumos using E5 interface and onboard them into DCAE (MOD) using OnboardingAPI and make it available in Catalog	REST	Available (POC)		
SDCE-6	Artifact Distribution	DCAE Platform (SCH) uses notification to determine if artifact (blueprint) retrieval must be triggered DCAE-VESOpenAPI manager uses notification to retrieve VES schema uploaded and perform validation	REST	Available		https://docs.onap.org/projects/onap-sdc/en/latest/offeredapis.html

SDCE-7	Artifact Retrieval (Cloudify-blueprint)	DCAE Platform (SCH) retrieve MS Blueprint based on service-uuid identified in the distribution message	REST	Available		https://docs.onap.org/projects/onap-dcaegen2/en/latest/offerodapic.html
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3. Component Description:

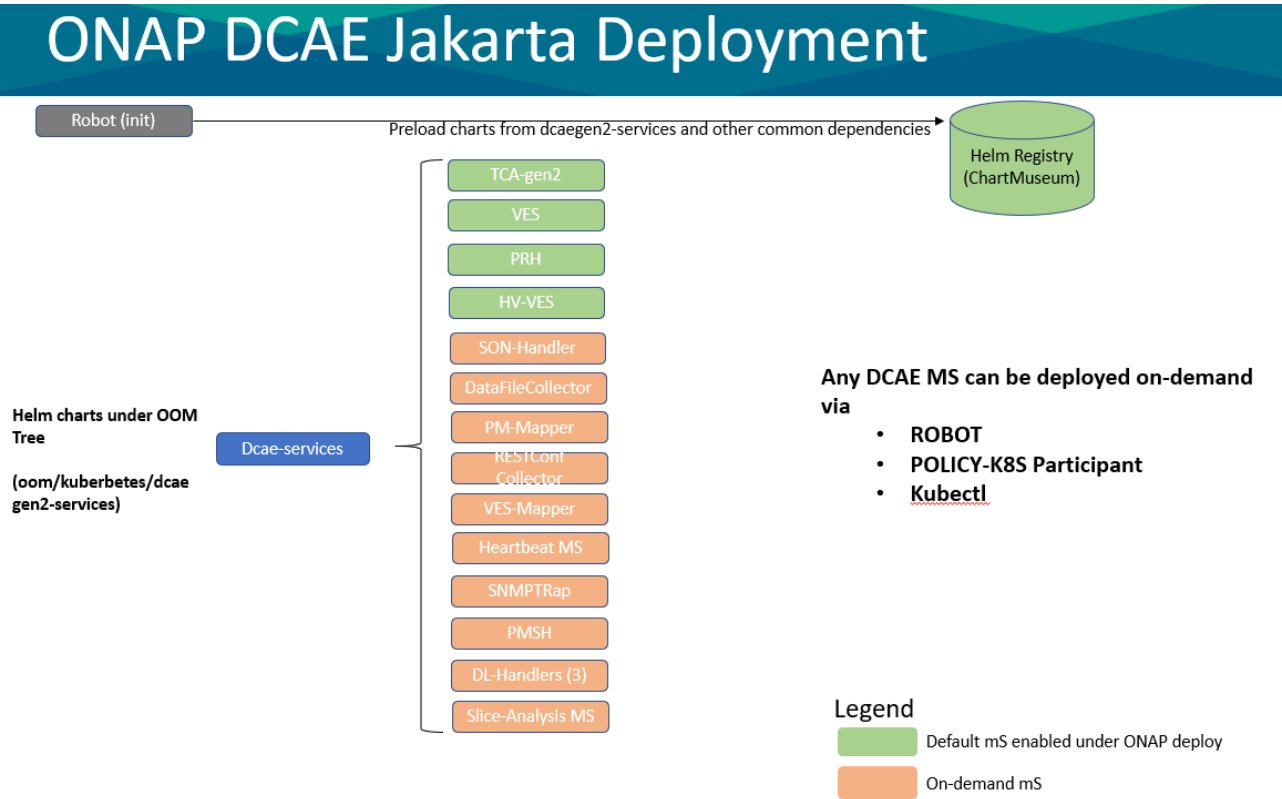
DCAE R10 Jakarta M2 Release Planning#Architecture
<https://docs.onap.org/projects/onap-dcaegen2/en/latest/sections/architecture.html>

4. Known system limitations

Architectural Technical Debt
Hardening MOD components (delivered as POC in Honolulu) as mainstream component and integration with Helm flow support

5. System Deployment Architecture

<https://docs.onap.org/projects/onap-dcaegen2/en/latest/sections/release-notes.html>



6. New Release Capabilities

DCAE R10 M2 Architecture Review
DCAE R10 Jakarta M2 Release Planning

7. References

1. DCAE Architecture
 - a. [DCAE R10 Jakarta M2 Release Planning#Architecture](#)
 - b. RTD - <https://docs.onap.org/projects/onap-dcaegen2/en/latest/sections/architecture.html>
2. DCAE Onboarding (via MOD)
 - a. RTD - <https://docs.onap.org/projects/onap-dcaegen2/en/latest/sections/design-components/index-onboarding.html>
 - b. RTD - <https://docs.onap.org/projects/onap-dcaegen2/en/latest/sections/design-components/requirements-guidelines.html>