

# ARC DCAE Component Description - Jakarta-R10

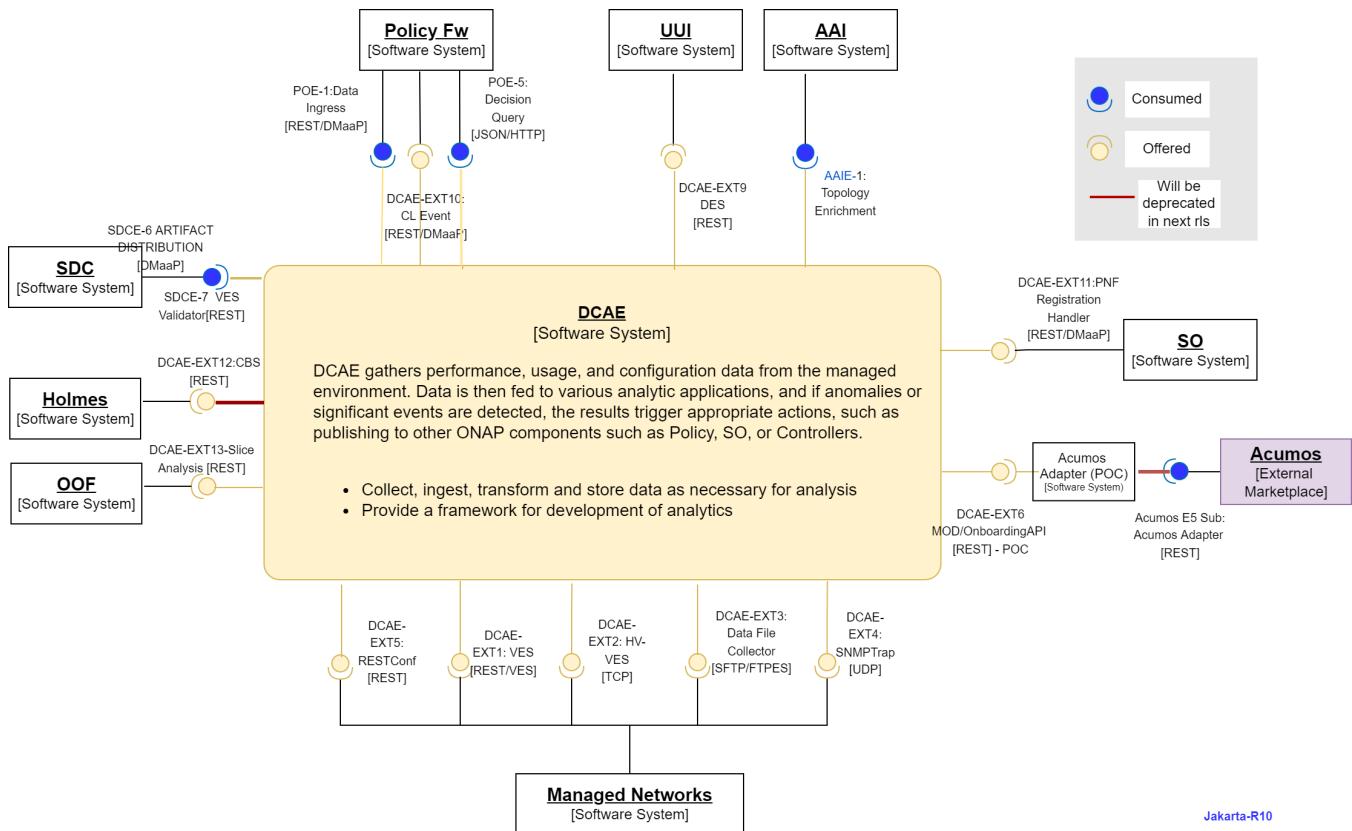
**Page Status:** Updated for Jakarta- 24 Jan 2022

**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	<a href="#">VES-Collector</a>
DCAE-EXT2	HV-VES Collector	Interface to support GPB over TCP for highvolume VES Events	Proto/TCP	Available	VES	<a href="#">HV-VES (High Volume VES)</a>
DCAE-EXT3	DataFileCollector	Supports bulk/batch datafile collection from xNF	http/sftp/ftps	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		<a href="#">RESTConf</a>
DCAE-EXT6	Onboarding API (MOD)	Used for onboarding MS component spec file and data-format into Design catalog	REST	Available (POC)		<a href="#">Onboarding HTTP API (MOD)</a>

DCAE-EXT7	Deployment Handler	High level API for deploying/undeploying composed DCAE services	REST	Available		<a href="#">Deployment Handler</a>
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		<a href="#">Inventory API</a>
DCAE-EXT9	Data Extraction Service (DES)	Provides basic computation and data retrieval /access from datastorage maintained by DL handlers (Feeder)	REST	Available (Guilin)		<a href="#">des-swagger.json</a>
DCAE-EXT10	DCAE Openloop /CL Event	Open loop and Control Loop event trigger from DCAE analytics/correlation MS into DMAAP	REST	Available		<a href="#">CL Event Structure</a>
DCAE-EXT11	PNF Registration Handler	PNF Registration event published through DMAAP	REST	Available	VES	<a href="#">PRH (PNF Registration Handler)</a>
DCAE-EXT12	ConfigBindingService (CBS)	The CBS provides API for all DCAE deployment ms to retrieve configuration from Consul.	REST	Available		<a href="#">CBS API</a>
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		<a href="https://wiki.onap.org/download/attachments/117740396/slice-analysis-swagger.yaml?version=1&amp;modificationDate=1640159785000&amp;api=v2">https://wiki.onap.org/download/attachments/117740396/slice-analysis-swagger.yaml?version=1&amp;modificationDate=1640159785000&amp;api=v2</a>
DCAE-EXT14	PM Subscription Handler Service	Adds API support for Subscription/Filters /Measurement group management	REST	Available		<a href="https://gerrit.onap.org/r/c/dcaegen2/+126725">https://gerrit.onap.org/r/c/dcaegen2/+126725</a>

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	<a href="#">tosca.policies-reet</a> <a href="#">TOSCA</a>	
POE-5	PDP - DCAE Policy Sidecar	Fetched policies for DCAE MS from the Policy Framework via PDP query	REST	Available	Defined by policy	<a href="#">POE-5 (Policy Decision API)</a>
AAIE-1	Topology Enrichment	Enrichment query by Correlation/analytics MS	REST	Available		<a href="#">AAI REST API Documentation on readthedocs.io</a>
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		<a href="https://docs.onap.org/projects/onap-sdc/en/latest/offeredapis.html">https://docs.onap.org/projects/onap-sdc/en/latest/offeredapis.html</a>

SDCE-7	Artifact Retrieval (Cloudify blueprint)	DCAE Platform (SCH) retrieve MS Blueprint based on service uid- identified in the distribution message	REST	Available		<a href="https://docs.onap.org/projects/onap-dcae/en/latest/offeredapis.html">https://docs.onap.org/projects/onap-dcae/en/latest/offeredapis.html</a>
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### 3. Component Description:

DCAE R10 Jakarta M2 Release Planning#Architecture

<https://docs.onap.org/projects/onap-dcae/en/latest/sections/architecture.html>

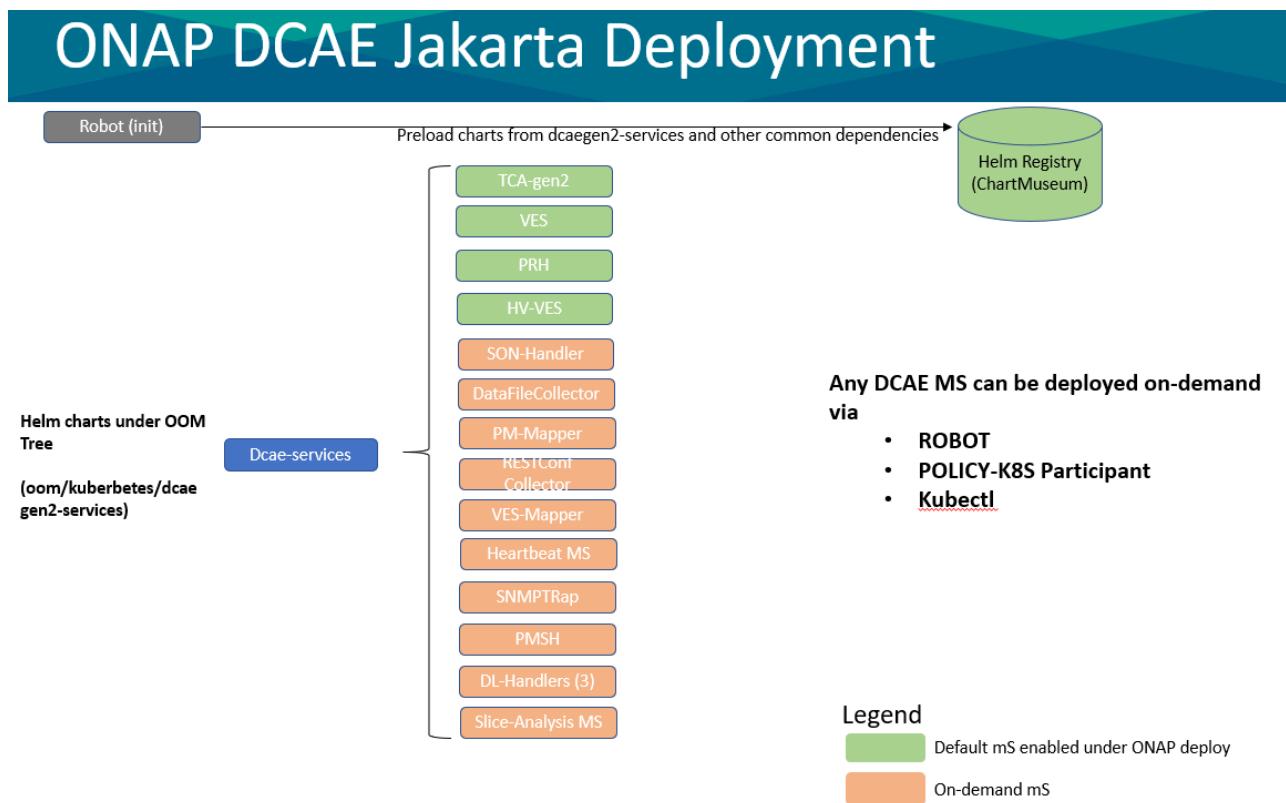
### 4. Known system limitations

#### 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-dcae/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>