

# DCAE R2 M0 Release Planning

## DRAFT PROPOSAL FOR COMMENTS

The content of this template is expected to be fill out for M1 Release Planning Milestone.



### Info

Use the "Copy" and "Move" options (available under the ..., top right of this page) to duplicate this template into your project wiki.  
Use the Wiki to document the release plan. Don't provide PowerPoint.  
Use as much diagrams and flow charts as you need, directly in the wiki, to convey your message.

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## Overview

| Project Name            | Enter the name of the project                                 |
|-------------------------|---------------------------------------------------------------|
| Target Release Name     | Beijing                                                       |
| Project Lifecycle State | Incubation                                                    |
| Participating Company   | AT&T, Huawei, Cloudify, Cisco, Tech Mahindra, Netcracker, ZTE |

## Scope

### What is this release trying to address?

The DCAE Beijing release has two primary objectives: 1. improving platform maturity; 2. supporting use cases.

In addition, DCAE will add support for more analytics platform(s): PNDA, Flink, Prometheus; and enhancements for DCAE platform, analytics and collection.

## Use Cases

From R1:

- [vFW/vDNS](#),

- [Residential Broadband vCPE](#),
- [vVoLTE](#)

From R2:

- [VNF Scale Out](#): Reuse capability/components for R1 use cases. No additional impact.
- [Hardware Platform Enablement In ONAP](#) No DCAE impact needed for supporting this use case. Will follow and plan how to use in future release (e.g. additional collection and analytic).













## Minimum Viable Product






The MVP of DCAE for R2 will include the necessary subcomponents supporting the primary objectives: meeting platform maturity goals and supporting the use cases.

## Functionalities

List the functionalities that this release is committing to deliver by providing a link to JIRA Epics and Stories. In the JIRA Priority field, specify the priority (either High, Medium, Low). The priority will be used in case de-scoping is required. Don't assign High priority to all functionalities.











## Epics











| Key                           | Summary                                                                                                                            | T                                                                                   | Created      | Updated      | Due | Assignee   | Reporter | P  | Status              | Resolution |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------|-----|------------|----------|----|---------------------|------------|
| <a href="#">DCAE GEN2-390</a> | <a href="#">PNF PnP - PNF Registration Handler</a>                                                                                 |    | Mar 12, 2018 | Jul 10, 2019 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-346</a> | <a href="#">R2 DCAE-Controller to stop merging policies into app config and deliver the whole policy body objects to component</a> |    | Feb 15, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-254</a> | <a href="#">R2 - Refactor code for facilitating easier ingestion</a>                                                               |  | Jan 17, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-247</a> | <a href="#">R2 DCAE Supporting Platform Maturity Usability Requirements</a>                                                        |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-246</a> | <a href="#">R2 DCAE Supporting Platform Maturity Manageability Requirements</a>                                                    |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-245</a> | <a href="#">R2 DCAE Supporting Platform Maturity Scalability Requirements</a>                                                      |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-244</a> | <a href="#">R2 DCAE Supporting Platform Maturity Security Requirements</a>                                                         |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-243</a> | <a href="#">R2 DCAE Supporting Platform Maturity Resilience Requirements</a>                                                       |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-242</a> | <a href="#">R2 DCAE Supporting Platform Maturity Stability Requirements</a>                                                        |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-235</a> | <a href="#">R2 DCAE VES Enhancements</a>                                                                                           |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-234</a> | <a href="#">R2 DCAE Platform Enhancements</a>                                                                                      |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Done       |
| <a href="#">DCAE GEN2-233</a> | <a href="#">R2 DCAE Design Time Support: tools (DCAE CLI, TOSCA lab) and documentation</a>                                         |  | Jan 08, 2018 | Jul 24, 2018 |     | Unassigned | None     | == | <span>CLOSED</span> | Won't Do   |

|               |                                                                                                                                                         |                                                                                   |              |              |            |      |   |        |      |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|--------------|------------|------|---|--------|------|
| DCAE GEN2-232 | R2 MSB Integration: MSB API registration and proxy                                                                                                      |  | Jan 08, 2018 | Jul 24, 2018 | Unassigned | None | = | CLOSED | Done |
| DCAE GEN2-231 | R2 DCAE Deployment Enhancements: Supporting reduced-footprint deployments, network cloud deployment (i.e. multi-tiered sites, edge vs central).         |  | Jan 08, 2018 | Jul 24, 2018 | Unassigned | None | = | CLOSED | Done |
| DCAE GEN2-230 | R2 DCAE Component Containerization and Kubernetes Support: Continuous evolution of DCAE components for better containerization, and Kubernetes support. |  | Jan 08, 2018 | Jul 24, 2018 | Unassigned | None | = | CLOSED | Done |
| DCAE GEN2-229 | R2 CSIT Testing: Supporting CSIT testing for R2                                                                                                         |  | Jan 08, 2018 | Jul 24, 2018 | Unassigned | None | = | CLOSED | Done |
| DCAE GEN2-222 | R2-Beijing release compliance                                                                                                                           |  | Jan 03, 2018 | Jul 24, 2018 | Unassigned | None | = | CLOSED | Done |

17 issues

## Stories

| Key           | Summary                                                                                                                  | T                                                                                   | Created      | Updated      | Due | Assignee   | Reporter   | P | Status | Resolution |
|---------------|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------|--------------|-----|------------|------------|---|--------|------------|
| DCAEG EN2-514 | docker stats memory values are misleading                                                                                |  | May 18, 2018 | May 21, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-477 | Bring up a dcae postgres instance as part of OOM installation                                                            |  | Apr 27, 2018 | May 02, 2018 |     | Jack Lucas | Jack Lucas | = | CLOSED | Done       |
| DCAEG EN2-465 | SNMP Trap collector startup error                                                                                        |  | Apr 21, 2018 | May 02, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-461 | Create health check for use with OOM/Kubernetes DCAE deployment                                                          |  | Apr 20, 2018 | May 02, 2018 |     | Jack Lucas | Jack Lucas | = | CLOSED | Done       |
| DCAEG EN2-449 | policy-handler to accept CLAMP policy-updates                                                                            |  | Apr 17, 2018 | Apr 24, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-438 | dcaepolicyplugin and onap-dcae-dcaepolicy-lib in cloudify to discover consul under consul:8500 instead of localhost:8500 |  | Apr 09, 2018 | Apr 17, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-434 | DCAE heat deployment support                                                                                             |  | Apr 06, 2018 | Apr 19, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-428 | Deployment support for K8S                                                                                               |  | Apr 03, 2018 | Jul 23, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-425 | update blueprints for k8s-based postgres                                                                                 |  | Mar 29, 2018 | Apr 27, 2018 |     | Unassigned | None       | = | CLOSED | Done       |
| DCAEG EN2-421 | Provide scripts to create a DCAE bootstrap container                                                                     |  | Mar 27, 2018 | Apr 19, 2018 |     | Jack Lucas | Jack Lucas | = | CLOSED | Done       |

|               |                                                                               |                                                                                   |              |              |            |            |   |        |      |
|---------------|-------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------|--------------|------------|------------|---|--------|------|
| DCAEG EN2-419 | dcaepolicyplugin to use dns to discover policy-handler under k8s              |  | Mar 26, 2018 | Apr 09, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-417 | OOM Deployment                                                                |  | Mar 25, 2018 | May 02, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-415 | dockerplugin to pick up onap-dcae-dacepolicy-lib that parses configAttributes |  | Mar 23, 2018 | Mar 26, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-414 | parse the configAttributes string into json in onap-dcae-dcaepolicy-lib       |  | Mar 23, 2018 | Mar 23, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-413 | parse configAttributes in policy_filter in dcaepolicyplugin                   |  | Mar 23, 2018 | Mar 23, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-411 | Update component blueprints to use Kubernetes plugin                          |  | Mar 22, 2018 | May 11, 2018 | Jack Lucas | Jack Lucas | = | CLOSED | Done |
| DCAEG EN2-410 | Develop a Cloudify DCAE Kubernetes plugin                                     |  | Mar 22, 2018 | Mar 27, 2018 | Jack Lucas | Jack Lucas | = | CLOSED | Done |
| DCAEG EN2-409 | Support additional topics for VESCollector                                    |  | Mar 22, 2018 | Mar 23, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-405 | Blueprints template for new services                                          |  | Mar 20, 2018 | Mar 27, 2018 | Unassigned | None       | = | CLOSED | Done |
| DCAEG EN2-404 | policy-handler to use dns to discover the deployment-handler                  |  | Mar 19, 2018 | Mar 26, 2018 | Unassigned | None       | = | CLOSED | Done |

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## Longer term roadmap

DCAE is the collection and analytics platform serving ONAP. The value of DCAE lies in the number of types of data being collected, the number of analytics algorithms, the number of open/close control loops, and how well/easy they are supported for ONAP uses.

After the initial R1 deliverables, starting from R2, DCAE will focus more on this long term roadmap by starting to add support for more analytics platforms (e.g. PDNA, Flink, Prometheus, etc); more collection apparatus.

## Release Deliverables

Indicate the outcome (Executable, Source Code, Library, API description, Tool, Documentation, Release Note...) of this release.

| Deliverable Name | Deliverable Description |
|------------------|-------------------------|
|                  | To fill out             |

## Sub-Components

List all sub-components part of this release.

Activities related to sub-components must be in sync with the overall release.

Sub-components are repositories and are consolidated in a single centralized place. Edit the [Release Components name for your project](#) in the centralized page.

## Architecture

## High level architecture diagram

At that stage within the Release, the team is expected to provide more Architecture details describing how the functional modules are interacting.

Indicate where your project fit within the [ONAP Architecture diagram](#).

Block and sequence diagrams showing relation within the project as well as relation with external components are expected.

Anyone reading this section should have a good understanding of all the interacting modules.

## Platform Maturity

Referring to [CII Badging Security Program](#) and [Platform Maturity Requirements](#), fill out the table below by indicating the actual level , the targeted level for the current release and the evidences on how you plan to achieve the targeted level.

| Area          | Actual Level | Targeted Level for current Release | How, Evidences | Comments                                                                                                                                                                                                                                                  |
|---------------|--------------|------------------------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance   | 1            | 1                                  |                | <ul style="list-style-type: none"><li>0 -- none</li><li>1 – baseline performance criteria identified and measured</li><li>2 &amp; 3 – performance improvement plans created &amp; implemented</li></ul>                                                   |
| Stability     | 1            | 2                                  |                | <ul style="list-style-type: none"><li>0 – none</li><li>1 – 72 hours component level soak w/random transactions</li><li>2 – 72 hours platform level soak w/random transactions</li><li>3 – 6 months track record of reduced defect rate</li></ul>          |
| Resiliency    | 1            | 1+                                 |                | <ul style="list-style-type: none"><li>0 – none</li><li>1 – manual failure and recovery (&lt; 30 minutes)</li><li>2 – automated detection and recovery (single site)</li><li>3 – automated detection and recovery (geo redundancy)</li></ul>               |
| Security      | 0            | 1                                  |                | <ul style="list-style-type: none"><li>0 – none</li><li>1 – CII Passing badge + 50% Test Coverage</li><li>2 – CII Silver badge; internal communication encrypted; role-based access control and authorization for all calls</li><li>3 – CII Gold</li></ul> |
| Scalability   | 0            | 1                                  |                | <ul style="list-style-type: none"><li>0 – no ability to scale</li><li>1 – single site horizontal scaling</li><li>2 – geographic scaling</li><li>3 – scaling across multiple ONAP instances</li></ul>                                                      |
| Manageability | 0            | 1                                  |                | <ul style="list-style-type: none"><li>1 – single logging system across components; instantiation in &lt; 1 hour</li><li>2 – ability to upgrade a single component; tracing across components; externalized configuration management</li></ul>             |
| Usability     | 1            | 1                                  |                | <ul style="list-style-type: none"><li>1 – user guide; deployment documentation; API documentation</li><li>2 – UI consistency; usability testing; tutorial documentation</li></ul>                                                                         |

## • API Incoming Dependencies

List the API this project is expecting from other projects.

Prior to Release Planning review, Team Leads must agreed on the date by which the API will be fully defined. The API Delivery date must not be later than the [release API Freeze date](#).

Prior to the delivery date, it is a good practice to organize an API review with the API consumers.

| API Name                   | API Description                              | API Definition Date | API Delivery date | API Definition link (i.e.swagger)        |
|----------------------------|----------------------------------------------|---------------------|-------------------|------------------------------------------|
| SDC model distribution API | API for retrieving TOSCA model of close loop |                     | To fill out       | Link toward the detailed API description |

|                      |                                                                                                                                                   |  |  |  |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Policy Engine        | API for retrieving configuration policy updates                                                                                                   |  |  |  |
| A&AI                 | API invoked for information enhancements                                                                                                          |  |  |  |
| DMaaP Message Router | API for topic publish / subscribe                                                                                                                 |  |  |  |
| DMaaP Bus Controller | DMaaP Bus Controller is a part of DMaaP that provides topic provisioning; this is the API for topic provisioning. (TBD based on AAF availability) |  |  |  |

## • API Outgoing Dependencies

API this project is delivering to other projects.

| API Name                | API Description                                          | API Definition Date                           | API Delivery date | API Definition link (i.e. swagger)       |
|-------------------------|----------------------------------------------------------|-----------------------------------------------|-------------------|------------------------------------------|
| VES Ingestion           | API for VNFs to send VES data                            | Date for which the API is reviewed and agreed | To fill out       | Link toward the detailed API description |
| DCAE Deployment Handler | NB API for invoking the deployment of DCAE subcomponents |                                               |                   |                                          |
| DCAE Inventory          | API for Add/Delete DCAE copy's TOSCA models              |                                               |                   |                                          |

## • Third Party Products Dependencies

Third Party Products mean products that are mandatory to provide services for your components. Development of new functionality in third party product may or not be expected.

List the Third Party Products (OpenStack, ODL, RabbitMQ, Elasticsearch, Crystal Reports, ...).

| Name             | Description | Version |
|------------------|-------------|---------|
| OpenStack        |             |         |
| Cloudify Manager |             |         |
| Consul           |             |         |
| CDAP             |             |         |
| Hadoop           |             |         |
| PND              |             |         |
| Flink            |             |         |
|                  |             |         |

In case there are specific dependencies (Centos 7 vs Ubuntu 16. Etc.) list them as well.

## • Testing and Integration Plans

Provide a description of the testing activities (unit test, functional test, automation,...) that will be performed by the team within the scope of this release.

Describe the plan to integrate and test the release deliverables within the overall ONAP system.

Confirm that resources have been allocated to perform such activities.

## • Gaps

This section is used to document a limitation on a functionality or platform support. We are currently aware of this limitation and it will be delivered in a future Release.

List identified release gaps (if any), and its impact.

| Gaps identified | Impact      |
|-----------------|-------------|
| To fill out     | To fill out |

## • Known Defects and Issues

Provide a link toward the list of all known project bugs.

| Key           | Summary                                                                                     | T | Created      | Updated      | Due | Assignee   | Reporter   | P  | Status | Resolution |
|---------------|---------------------------------------------------------------------------------------------|---|--------------|--------------|-----|------------|------------|----|--------|------------|
| DCAEG EN2-725 | parameter missing from vcpe demo envs                                                       | 🔴 | Aug 22, 2018 | Nov 30, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-590 | problem during vFW Closed Loop                                                              | 🔴 | Jul 06, 2018 | Nov 30, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-532 | unit-test fails on policy-handler on get /gc/stats after shutdown of the web-server         | 🔴 | May 24, 2018 | May 24, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-512 | DCAE bootstrap should register Holmes components in Consul                                  | 🔴 | May 16, 2018 | May 17, 2018 |     | Jack Lucas | Jack Lucas | == | CLOSED | Done       |
| DCAEG EN2-511 | Config fetch issue from CBS for Holmes                                                      | 🔴 | May 16, 2018 | May 17, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-510 | OOM DCAE Cloudify Manager deployed TCA using an old tag                                     | 🔴 | May 16, 2018 | May 16, 2018 |     | Unassigned | None       | >  | CLOSED | Done       |
| DCAEG EN2-508 | In OOM deployment Inventory pod startup wait time not long enough                           | 🔴 | May 14, 2018 | May 21, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-507 | Allow OOM to set custom docker registry (proxy)                                             | 🔴 | May 14, 2018 | May 15, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-506 | VES configuration update from Consul not working                                            | 🔴 | May 14, 2018 | May 14, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-502 | Message Router preconfigured topics do not work                                             | 🔴 | May 11, 2018 | May 16, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-501 | TCA bails on Config provided in R1 format                                                   | 🔴 | May 11, 2018 | May 11, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-500 | deployment-handler fails to bring node-instances from cloudify manager                      | 🔴 | May 10, 2018 | May 11, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-497 | K8s blueprint for inventory-api/servicechange-handler missing default docker tags           | 🔴 | May 09, 2018 | May 09, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-496 | k8s bootstrap script has hard-coded reference to 'dcae' namespace                           | 🔴 | May 08, 2018 | May 14, 2018 |     | Jack Lucas | Jack Lucas | == | CLOSED | Done       |
| DCAEG EN2-495 | policy handler blueprint default image version is incorrect                                 | 🔴 | May 08, 2018 | May 09, 2018 |     | Unassigned | Jack Lucas | == | CLOSED | Done       |
| DCAEG EN2-494 | containers do not restart in Heat deployment                                                | 🔴 | May 08, 2018 | May 11, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |
| DCAEG EN2-493 | DCAE fails health check on OOM deployment                                                   | 🔴 | May 07, 2018 | May 14, 2018 |     | Jack Lucas | None       | >  | CLOSED | Duplicate  |
| DCAEG EN2-491 | on deployment-handler - increase the allowed size of the incoming message for policy-update | 🔴 | May 07, 2018 | May 09, 2018 |     | Unassigned | None       | == | CLOSED | Done       |
| DCAEG EN2-490 | [LF] Missing released dcaegen2.platform/policy-handler:2.4.1 for dep-policy-handler         | 🔴 | May 07, 2018 | May 14, 2018 |     | Unassigned | None       | ^  | CLOSED | Done       |

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## • Risks

List the risks identified for this release along with the plan to prevent the risk to occur (mitigation) and the plan of action in the case the risk would materialized (contingency).

| Risk identified | Mitigation Plan | Contingency Plan |
|-----------------|-----------------|------------------|
|                 | To fill out     | To fill out      |

## • Resources

Fill out [the Resources Committed to the Release](#) centralized page.

## • Release Milestone

The milestones are defined at the [Release Level](#) and all the supporting project agreed to comply with these dates.

## • Team Internal Milestone

This section is optional and may be used to document internal milestones within a project team or multiple project teams. For instance, in the case the team has made agreement with other team to deliver some artifacts on a certain date that are not in the release milestone, it is recommended to provide these agreements and dates in this section.

It is not expected to have a detailed project plan.

| Date        | Project     | Deliverable |
|-------------|-------------|-------------|
| To fill out | To fill out | To fill out |

## • Documentation, Training

- Highlight the team contributions to the specific document related to the project (Config guide, installation guide...).
- Highlight the team contributions to the overall Release Documentation and training asset
- High level list of documentation, training and tutorials necessary to understand the release capabilities, configuration and operation.
- Documentation includes items such as:
  - Installation instructions
  - Configuration instructions
  - Developer guide
  - End User guide
  - Admin guide
  - ...



### Note

The Documentation project will provide the Documentation Tool Chain to edit, configure, store and publish all Documentation asset.

## Other Information

### • Vendor Neutral

If this project is coming from an existing proprietary codebase, ensure that all proprietary trademarks, logos, product names, etc. have been removed. All ONAP deliverables must comply with this rule and be agnostic of any proprietary symbols.

### • Free and Open Source Software



FOSS activities are critical to the delivery of the whole ONAP initiative. The information may not be fully available at Release Planning, however to avoid late refactoring, it is critical to accomplish this task as early as possible.

List all third party Free and Open Source Software used within the release and provide License type (BSD, MIT, Apache, GNU GPL,... ).

In the case non Apache License are found inform immediately the TSC and the Release Manager and document your reasoning on why you believe we can use a non Apache version 2 license.

Each project must edit its project table available at [Project FOSS](#).

## Charter Compliance

The project team comply with the [ONAP Charter](#).