

PCEI R6 Release Notes

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Summary

Public Cloud Edge Interface (PCEI) is implemented based on Edge Multi-Cluster Orchestrator (EMCO) and Controller Design Studio (CDS).

Components of the release

1. Edge Multi-Cloud Orchestrator (EMCO)
2. Controller Design Studio (CDS) and Controller Blueprint Archives
3. PCEI North Bound API (NBI APIs)
4. Azure IoT Edge Helm Charts
5. AWS Greengrass Core Helm Charts
6. PCEI Location API Helm Charts
7. PCEI Location API Code
8. Simulated IoT Client Code
9. Azure IoT Edge Custom Software Module Code
10. Terraform Plans
11. Ansible Playbooks
12. Sample Camunda workflow

Dependencies of the release (upstream version, patches)

EMCO:

- <https://git.onap.org/multicloud/k8s/>

CDS

- <https://gitlab.com/akraino-pcei-onap-cds/equinix-pcei-poc/-/tree/main/>

NBI APIs

- <https://wiki.akraino.org/x/Qy0wAw>

Azure IoT Edge Helm Charts

- <https://github.com/Azure/iotedge>

PCEI Location API Spec

- The ETSI MEC ISG MEC012 Location API described using OpenAPI. The API is based on the Open Mobile Alliance's specification RESTful Network API for Zonal Presence
- ETSI MEC013 V1.1.1 Location Service API
- http://www.etsi.org/deliver/etsi_gs/MEC/001_099/013/01.01.01_60/gs_mec013v010101p.pdf
BSD-3-Clause

Host OS

- Ubuntu 18.04.5 LTS (GNU/Linux 4.15.0-143-generic x86_64)

Kubernetes

- v1.15.3

Helm

- v2.17.0

Camunda

- 7.15.0

Ansible

- 2.8.5

Differences from previous version

- CDS CBAs:
 - Ansible Executor
- NBI APIs
 - Ansible Executor API
- Camunda workflow engine

Upgrade Procedures

None.

EMCO/CDS Deployment procedures: <https://wiki.akraino.org/x/Ti0wAw>

PCE/3PE Deployment procedures: <https://wiki.akraino.org/x/TC0wAw>

Release Data

Module version changes

None.

Document Version Changes

Initial versions.

Software Deliverable

- Edge Multi-Cloud Orchestrator / Controller Design Studio Deployment
<https://wiki.akraino.org/x/Ti0wAw>

<https://gitlab.com/akraino-pcei-onap-cds/equinix-pcei-poc/-/tree/main/>

- Azure IoT Edge Helm Charts

<https://github.com/Azure/iotedge>

- AWS Greengrass Core Helm Charts
- PCEI Location API Helm Charts
- PCEI Location API Code
- Simulated IoT Client Code
- Azure IoT Edge Custom Software Module Code

<https://gerrit.akraino.org/r/pcei> (for all items above)

Documentation Deliverable

[PCEI R6 Installation Guide](#)

[PCEI R6 End-to-End Validation Guide](#)

Fixed Issues and Bugs

None

Enhancements

- PCEI Location API Code version 2.1.

<https://gerrit.akraino.org/r/pcei> (for all items above)

- CDS CBA
 - Ansible Executor CBA
- NBI APIs
 - Ansible Playbook Executor API
- Camunda Workflow Engine

Functionality changes

- CDS CBA
 - Ansible Executor CBA
- NBI APIs
 - Ansible Playbook Executor API
- Camunda Workflow Engine

New Features

- CDS CBA
 - Ansible Executor CBA
- NBI APIs
 - Ansible Playbook Executor API
- Camunda Workflow Engine
- Deployment of Kubernetes on bare metal

Version change

First Release

Deliverable

1. Edge Multi-Cloud Orchestrator Deployment
2. Controller Design Studio Deployment
3. Azure IoT Edge Helm Charts
4. AWS Greengrass Core Helm Charts
5. PCEI Location API Helm Charts
6. PCEI Location API Code
7. Simulated IoT Client Code
8. Azure IoT Edge Custom Software Module Code
9. Ansible Playbooks for deployment of Kubernetes
10. Terraform Plans (Azure, Equinix Metal, Equinix Fabric)
11. Sample Camunda workflow

Known Limitations, Issues and Workarounds

System Limitations

- N/A

Known Issues

- N/A

Workarounds

- N/A

References

EMCO Deployment procedures: <https://wiki.akraino.org/x/Ti0wAw>

PCE/3PE Deployment procedures: <https://wiki.akraino.org/x/TC0wAw>