

EALTEdge – Enterprise Application on Light Weight 5G Telco Edge

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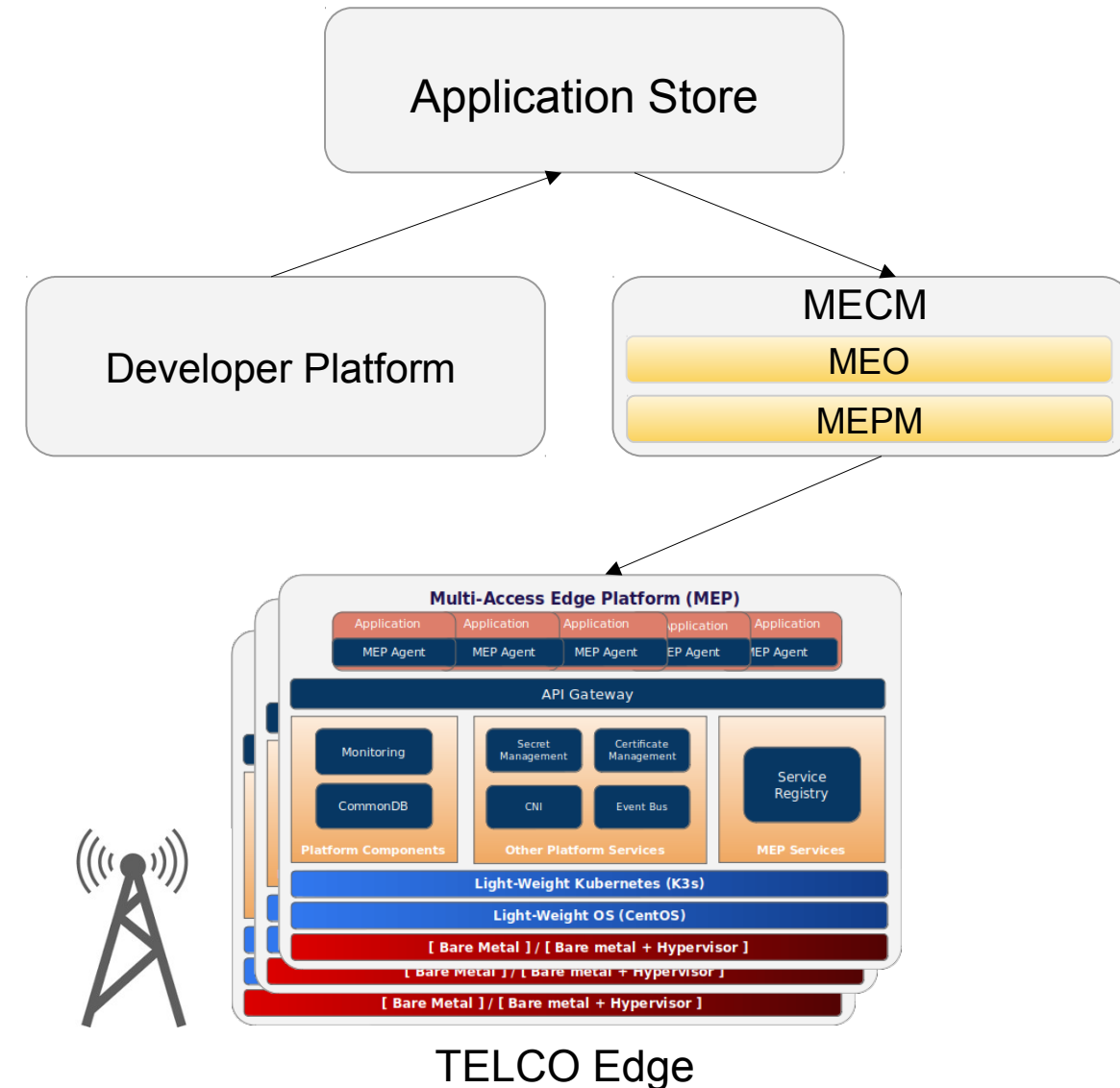
Agenda

- ❖ Overview
- ❖ R3 Software stack
- ❖ R3 Key Features & R4 Plan
- ❖ Get Involved

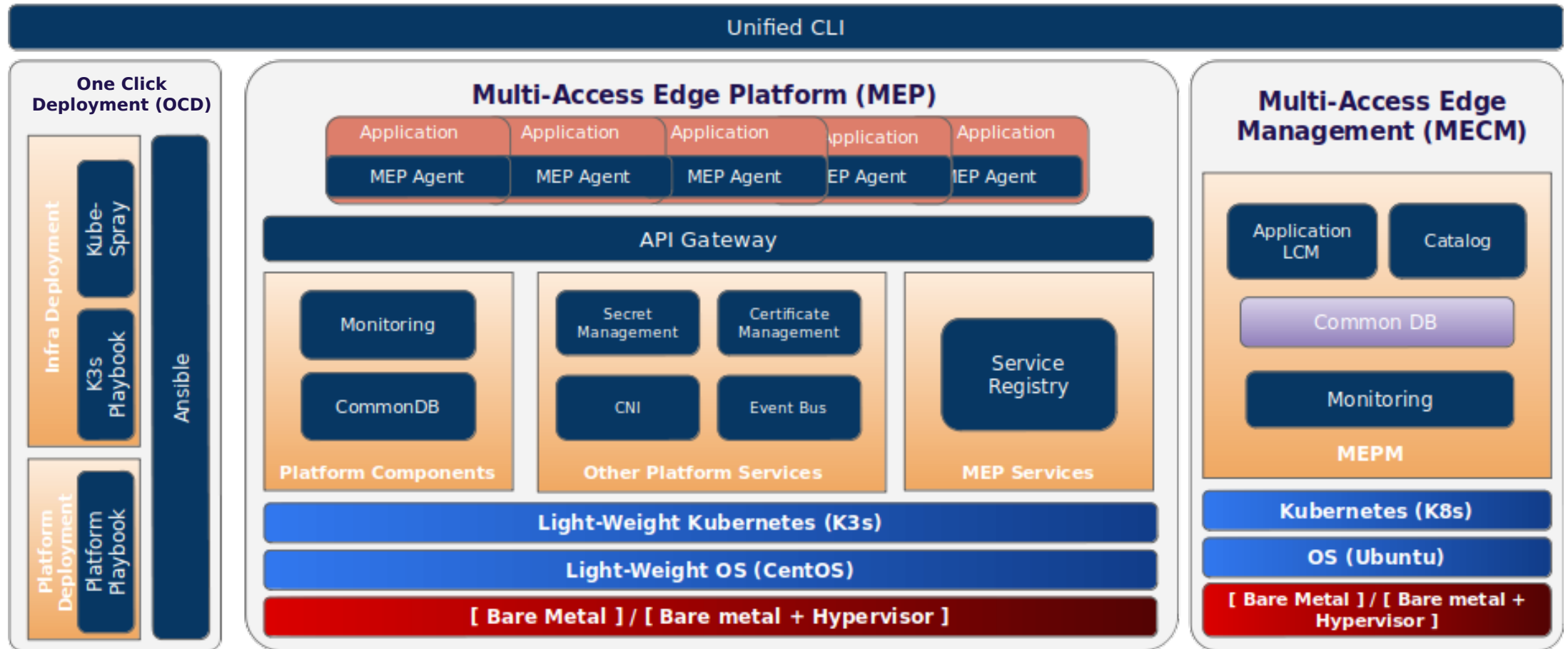
EALTEdge Overview

Enterprise Application on Lightweight 5G Telco Edge is an Akraino approved blueprint under 5G MEC system Blueprint Family. It intends to provide a complete ecosystem for enterprise application on light weight 5G Telco Edge. This platform can be leveraged by Telecom operators to provide edge computing capability to it's enterprise users. Objective of this blueprint is to provide the following main features.

- Lightweight MEC Solution with MEC compliant architecture & APIs.
- Autonomous Edge Sites.
- Unified Portal/CLI for Application developers, Tenants and administrators.
- Sandbox, SDKs and tools chains for MEC app developers
- Easy & Heterogeneous deployment on Multi-Arch & Multi OS.
- Rich platform capabilities (Network, PaaS, aPaaS etc.)



R3 Software Stack



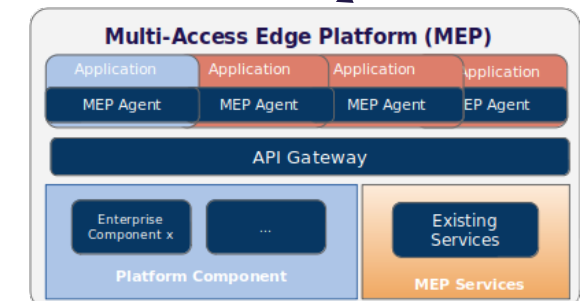
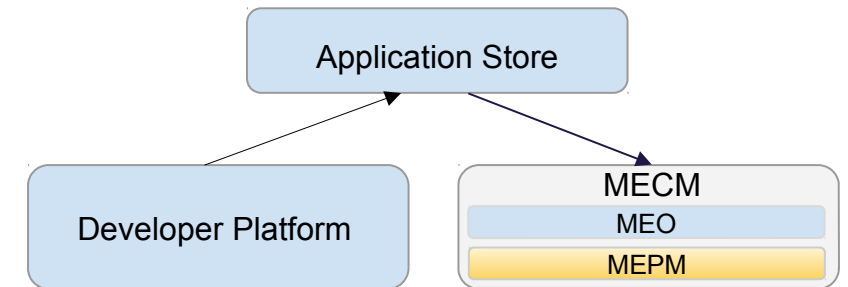
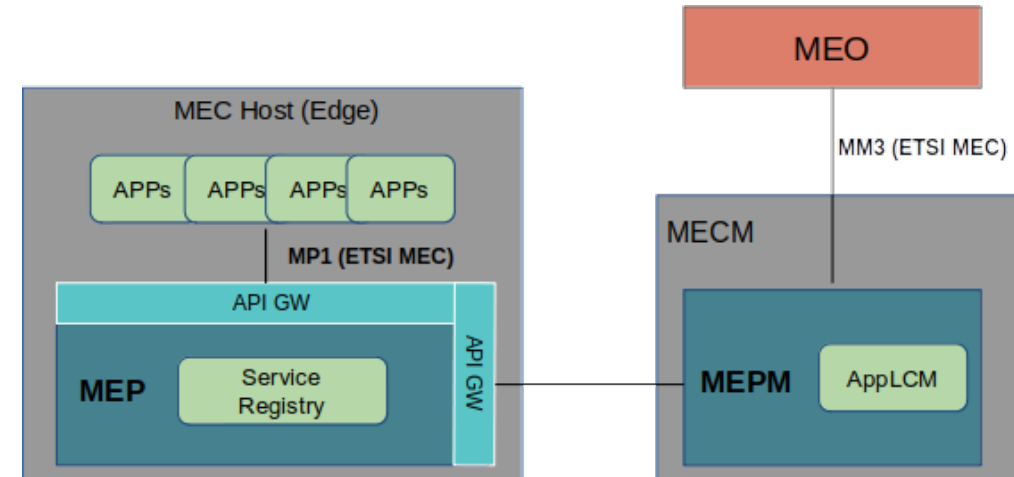
R3 Key Features & R4 Plan

Key features in Akraino Release 3:

- MEC solution including Edge Platform & Edge Platform Manager.
- One click deployment scripts for deployment of manager & multiple edges.
- Unified CLI for deployment as well as application LCM.
- Autonomous Edge Site with self monitoring & healing.
- MEP Agent for Ease of application development.
- **Heterogeneous deployment with support of Multi-Arch & Multi OS.**
- **APIs compliance with MEC MP1 & MM3 specifications.**
- Rich platform capabilities like API Gateway, Service Registry, Secret/Certificate mgmt etc.

Release 4 Plan:

- Leverage EdgeGallery (<http://www.edgegallery.org/en/>) as an upstream to add following components to the Stack
 - Application/MEC Edge Orchestrator
 - Developer Platform & Application Store.
 - Developer & Tenant Portals
- Add features like network isolation, DNS support etc.
- Add platform capabilities specific to Enterprise Use case
- Add Enterprise application like ROBO, Factory, Retail, Private LTE etc.
- We are open for any new suggestions/collaboration.



New Components

Get Involved

EALTEdge Wiki:

<https://wiki.akraino.org/display/AK/Enterprise+Applications+on+Lightweight+5G+Telco+Edge>

EALTEdge Code:

<https://gerrit.akraino.org/r/admin/repos/ealt-edge>

Architecture and installation guide:

<https://wiki.akraino.org/pages/viewpage.action?pageId=28967874>

Weekly meeting on every Friday @7AM PST time.

<https://zoom.us/j/885308032>

Contact: gaurav.agrawal@huawei.com

10:40- 11:00 am	Usecase Demos- @khemendra kumar/ @Gaurav Agrawal Enterprise Applications on Lightweight 5G Telco Edge ELIOT IoT GW
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Thanks

