



Akraino R6 includes ELIOT IOT-Gateway blueprint an Akraino approved blueprint under ELIOT Blueprint Family. BP is intends to develop a fully integrated edge infrastructure and running edge computing applications on lightweight Edge Nodes.

Akraino Blueprint: ELIOT Edge Lightweight and IOT – IOT Gateway

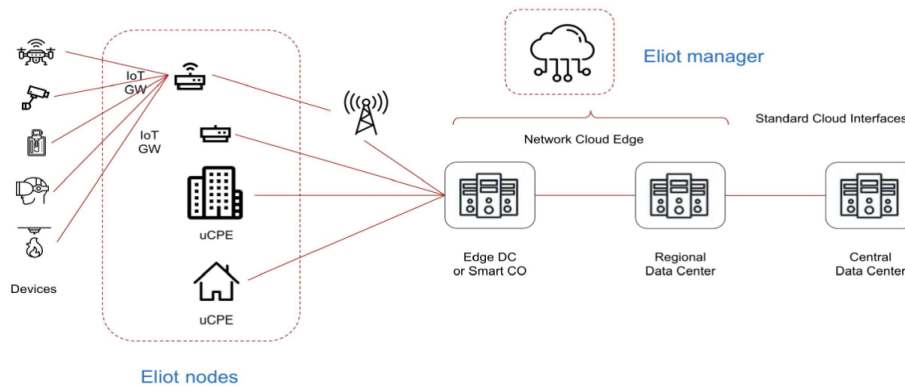


Figure 1: High level Architecture

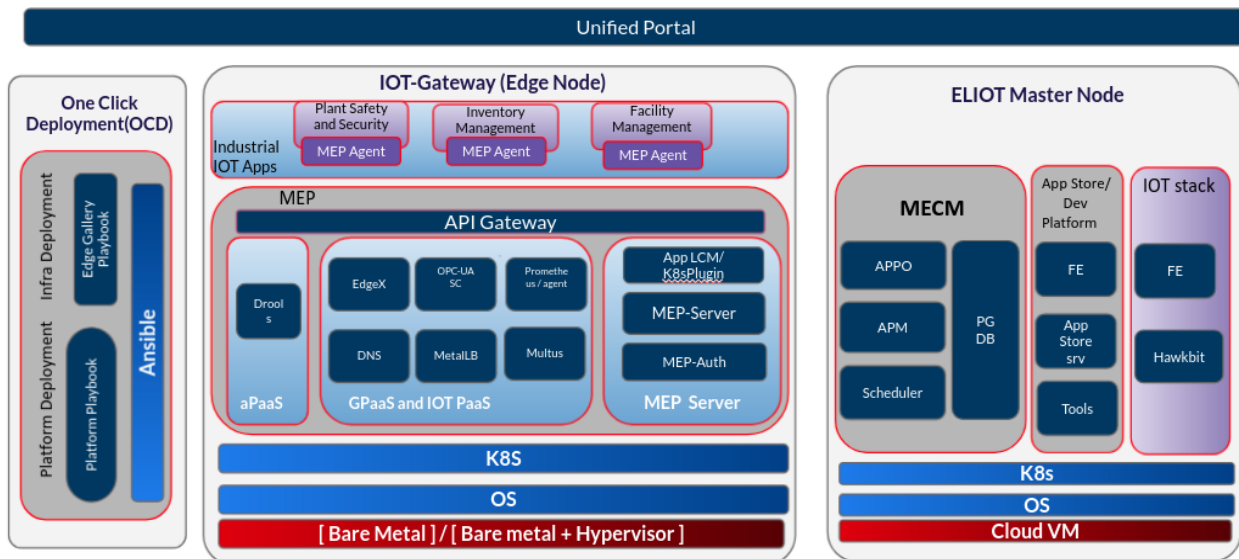


Figure 2: Software Architecture

Overview

ELIOT is project under Akraino approved blueprint family and part of Akraino Edge Stack, which intends to develop a fully integrated edge network infrastructure and running edge computing applications on lightweight Edge Nodes. ELIOT targets on making the edge node a lightweight software stack which can be deployed on edge nodes which have limited hardware capacity by leveraging lightweight OS, container running environment and container orchestration applications.

EdgeX and OPC-UA framework integrated on ELIOT platform for enable industrial IOT use cases. Portal for platform manage is integrated and single click BP installation is provided for quickly deploy Eliot on multiple platforms. ELIOT CLI is provide to interactively connect and manage platform. Interested developer can use these utilities to deploy ELIOT and mange with ease.

Key features in Release 6:

Upstream project EdgeGallery upgrade from 1.1 to 1.5.1 which added new Features as below:

1. Profile Management of southbound IoT devices
2. Added image file management service to solve the problem of image file sharing between EdgeGallery central node modules
3. Edgegallery unified portal for Developer, Appstore and MECM. application incubation process optimization in developer portal
4. All modules support data persistence capability

For more information:

<https://wiki.akraino.org/display/AK/ELIOT%3A+Edge+Lightweight+and+IoT+Blueprint+Family>