Video Security Monitoring R4 Release Notes

Summary

This document provides the release notes for establishing a MEC platform on AI Edge Blueprint in Akraino, which are available for both x86 and aarch64 architectures.

what is released

components of the release (Akraino new)

- Quick installation scripts for single edge clusters.
- K8S-cluster-shim: Application which is compatible with edge cluster perform actions received from cloud.
- Cluster-controller: Cluster-controller runs both in cloud and edge cluster for network connection, message transmission.
- OTE-controller-manager: Run in cloud and collect metadata of clusters.
- edge node autonomy components
- Other components are released as docker images currently.

dependencies of the release (upstream version, patches)

- IEC edge infrastructure (kubernetes)
- Helm 2
- Prometheus
- Elasticsearch
- Prometheus
- MySQL
- Kubectl CLI

differences from previous version

- support k8s and k3s edge node autonomy
- lightweight reporting of edge cluster resources
- synchronize resources to center when reconnect

Upgrade Procedures

N/A

Release Data

Enhancements

Functionality changes

N/A

Features

- Hierarchical cluster management
- Duplex channel between cloud center and edge cluster
- Kubernetes native support
- Accurate routing of messages between clusters
- Support both x86 and arm64
- support k8s and k3s edge node autonomy

Version change

v3.0

Module version changes

N/A

Document Version Changes

N/A

Deliverable

Software Deliverable

Software is available in the ai edge repo: https://gerrit.akraino.org/r/admin/repos/aiedge

Documentation Deliverable

- Video Security Monitoring R4 Test Document
- Video Security Monitoring R4 Architecture Document
- Video Security Monitoring R4 Installation Document
- Video Security Monitoring R4 Release Notes

Fixed Issues and Bugs

Known Limitations, Issues and Workarounds

System Limitations

- Web Portal: Language currently supported only in Chinese

Known Issues

N/A

Workarounds

N/A

References