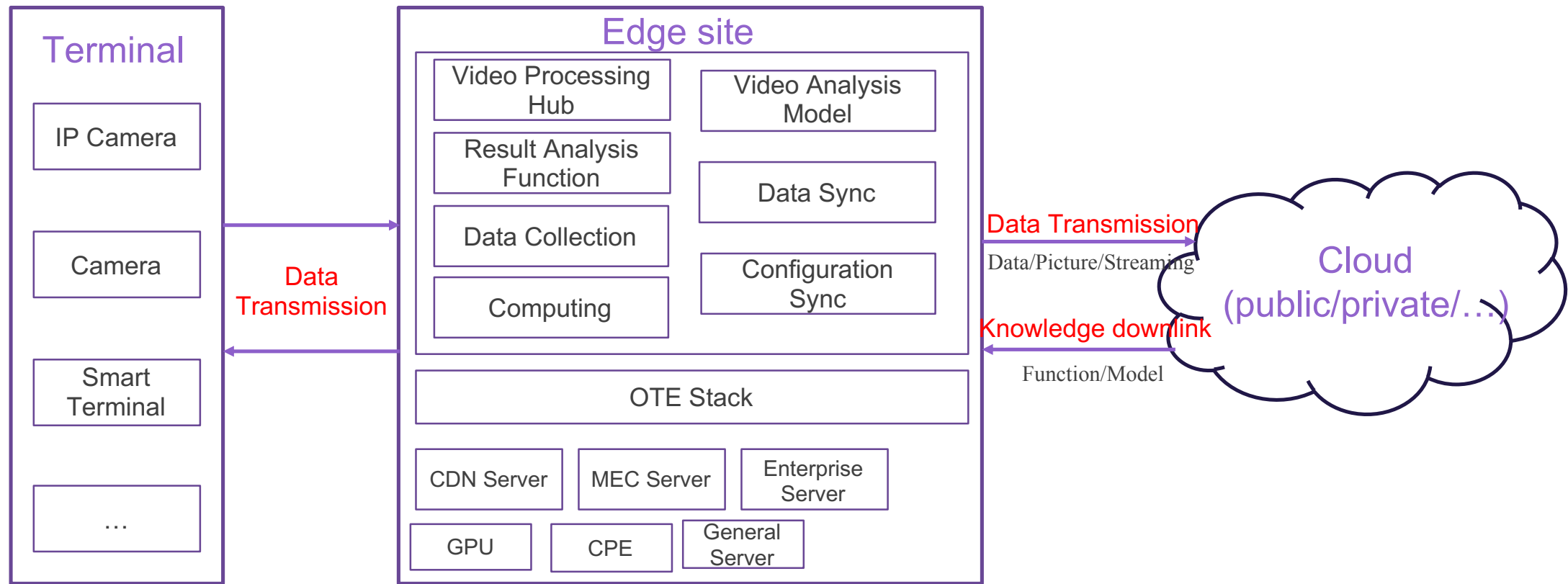# The AI Edge: School/Education Video Security Monitoring
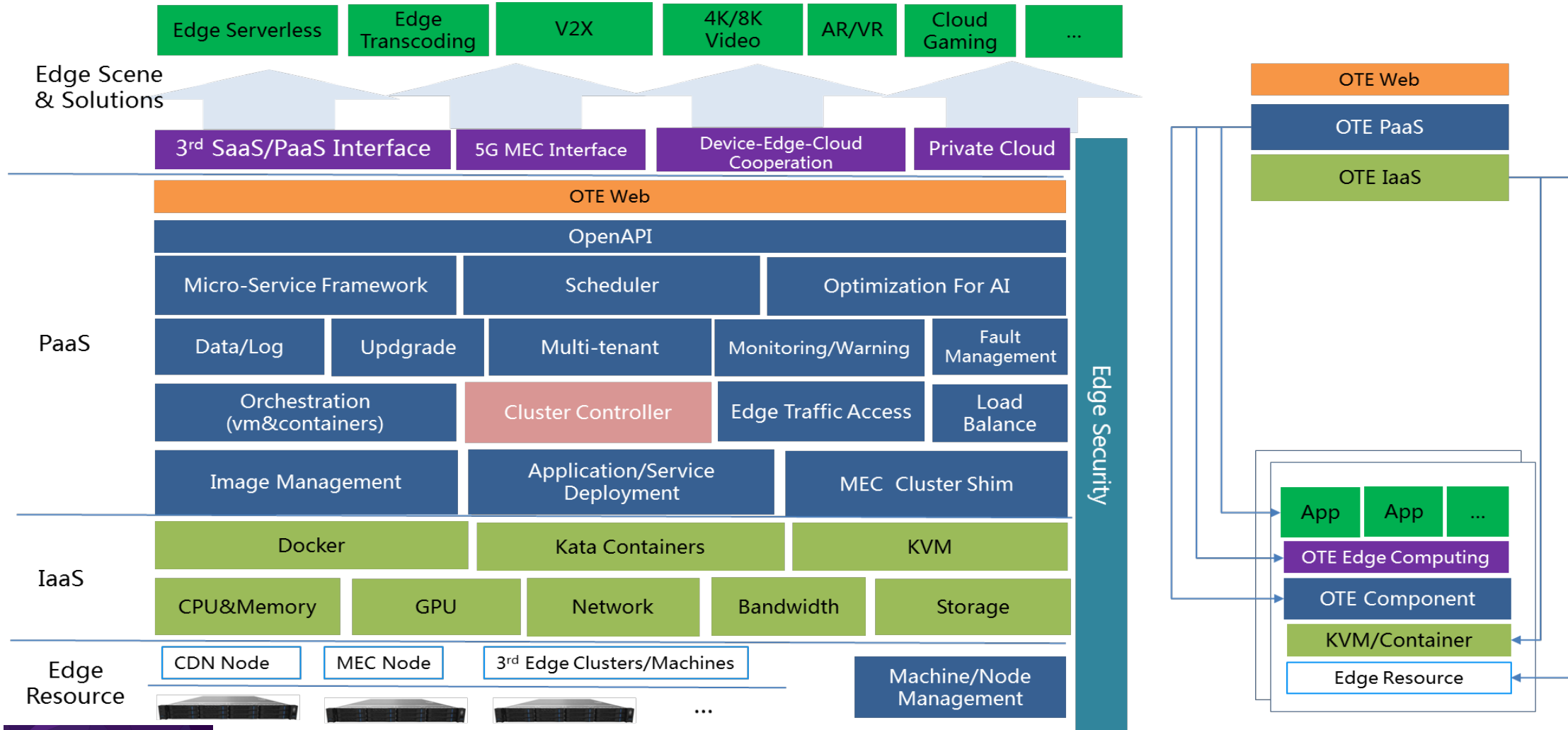
Release 5 TSC Review

Video Security Monitoring Overview

The purpose of the AI Edge School/Education Video Security Monitoring Blueprint is to establish an open source MEC platform combined with AI capacities at the edge, which could be used for safety, security, and surveillance.

Video Security Monitoring Software Components

| Edge Serverless | Edge Transcoding | V2X | 4K/8K Video | AR/VR | Cloud Gaming | ... |

Edge Scene & Solutions

| 3rd SaaS/PaaS Interface | 5G MEC Interface | Device-Edge-Cloud Cooperation | Private Cloud |

OTE Web

PaaS

OpenAPI

Micro-Service Framework	Scheduler	Optimization For AI
Data/Log	Updgrade	Multi-tenant	Monitoring/Warning	Fault Management
Orchestration (vm&containers)	Cluster Controller	Edge Traffic Access	Load Balance
Image Management	Application/Service Deployment	MEC Cluster Shim

IaaS

| Docker | Kata Containers | KVM |
| CPU&Memory | GPU | Network | Bandwidth | Storage |

Edge Resource

| CDN Node | MEC Node | 3rd Edge Clusters/Machines |

...

Machine/Node Management

Edge Security

OTE Web

OTE PaaS

OTE IaaS

| App | App | ... |

OTE Edge Computing

OTE Component

KVM/Container

Edge Resource

AKRAINO

Video Security Monitoring Use Cases

Security Monitoring	Conduct smoke detection on densely populated places such as industrial parks and community properties to quickly detect whether there is a fire, reduce the damage caused by fire, and improve the safety of the park.
Classroom concentration analysis	Conduct a full evaluation of the overall class and the concentration of individual students, help teachers and school authorities to fully understand the teaching situation, according to the concentration data of each course, conduct targeted class knowledge test and strengthen.
Factory safety production	By identifying whether employees wear helmets, safety gloves, etc., monitor and evaluate the work of workers in the workshop to help companies monitor the safety production status in a comprehensive and timely manner. Statistical results and analytical data can be used as a reference for strengthening the level of safety production management.
Kitchen hygiene monitoring	Monitor staff's smoking and cell phone behavior in the kitchen of the catering industry, ensuring the safety and hygiene of the food production process.

Concentration Analysis   Helmet Detection   Call Detection   Smoking Detection   Hair Detection   Fire Detection

Release 5 Status

› R5 does not add new feature compare to R4

- [Video Security Monitoring R5 API Document](#)
- [Video Security Monitoring R5 Architecture Document](#)
- [Video Security Monitoring R5 Installation Guide](#)
- [Video Security Monitoring R5 Release Notes](#)
- [Video Security Monitoring R5 Test Document](#)

Thank You