

The AI Edge Blueprint Family

The AI Edge – School/Education Video Security Monitoring Blueprint

Project Technical Lead: Hechun Zhang, Baidu, Elected 10/21/19

Blueprint species:

Use Case Attributes	Description	Informational
Type	The AI Edge	
Blueprint Family	New	
Use Case	Safety, security, and surveillance	
Blueprint proposed Name	The AI Edge	
Initial POD Cost (capex)	Leverage Unicycle POD - less than \$150K	
Scale & Type	up to 4 servers, x86/ Arm server or deep edge class With nVIDIA Telsa P4/T4 GPUs	
Applications	1. Small scale IoT data aggregation and machine learning platform 2. Small scale deep learning models training for video data 3. Model training for AcumosApps	
Power and memory restrictions	Less than 10Kw K8s 1.12.5 or above- Container Orchestration OS –CentOS 7.0 or above	
Infrastructure orchestration	Docker 1.13.1 or above	
SDN	Calico container networking, or OVS-DPDK	
Dataplane	VPP	
Workload Type	Containers	
Additional Details	Acumos and EdgeX interfaces will be connected in this case	

Attachment:



The AI Edge Blueprint-V1.2.pdf

Committer	Affiliation	Committer Contact Info	Committer Bio	Committer Picture	Self Nominate for PTL (Y/N)
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