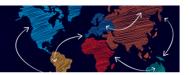


### Hung Wei Chiu



- MTS @ Open Networking Foundation (ONF)
- Kubernetes/Container/Linux/Network/Kernel
- Co-organizer of two Taiwan user group
  - SDN (SDNDS)
  - Cloud-Native (CNTUG)

### Live Q&A and polls



Scan me to join live Q&A

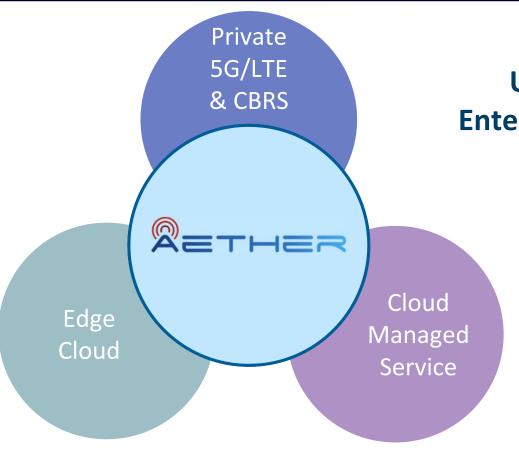


You can also use following link. <a href="https://sli.do/event/6cqlagtg/">https://sli.do/event/6cqlagtg/</a>

slido.com #osn\_taiwan

### Aether™ – 5G Connected Edge Cloud





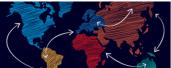
### Unique platform enabling Enterprise Digital Transformation

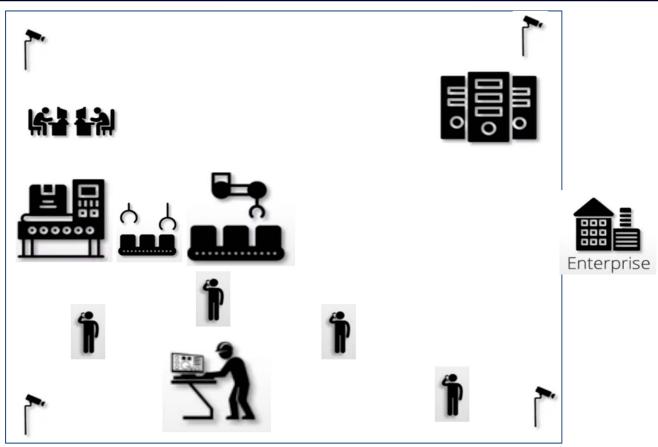
Only open source offering

Delivered as a Cloud Managed Service

Catalyst for new business models

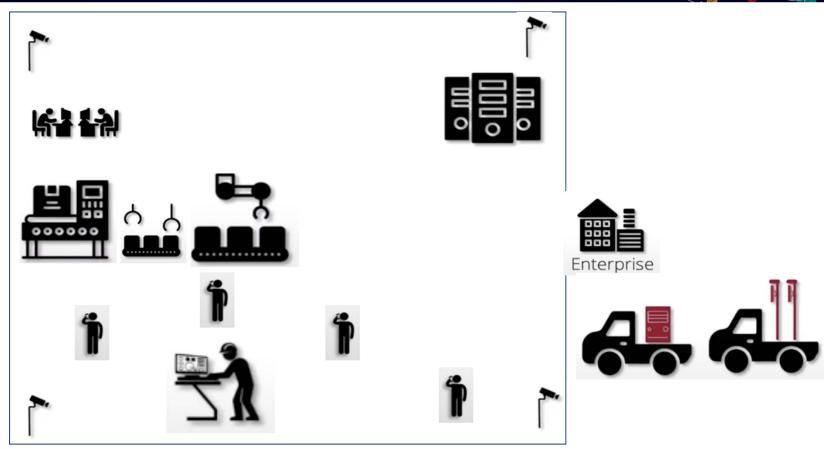
# Aether





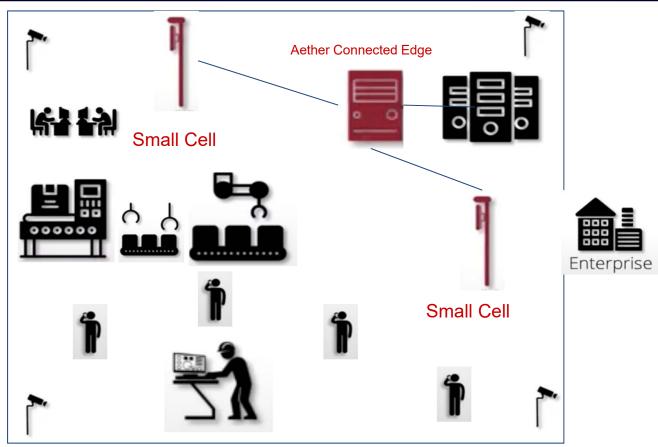
# Aether



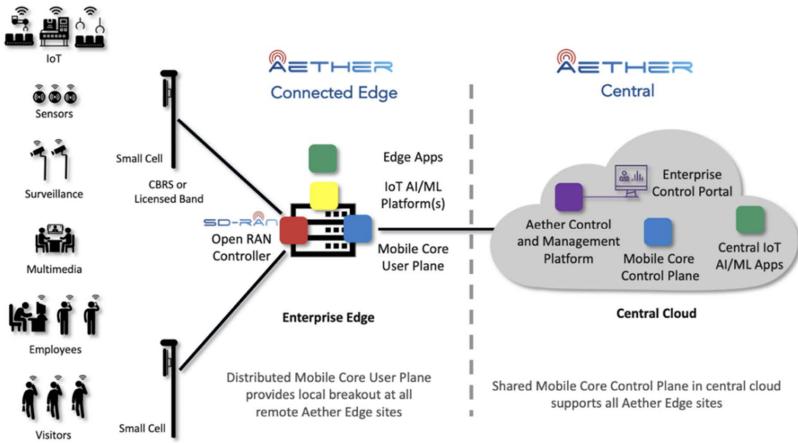


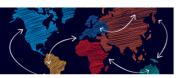
# Aether

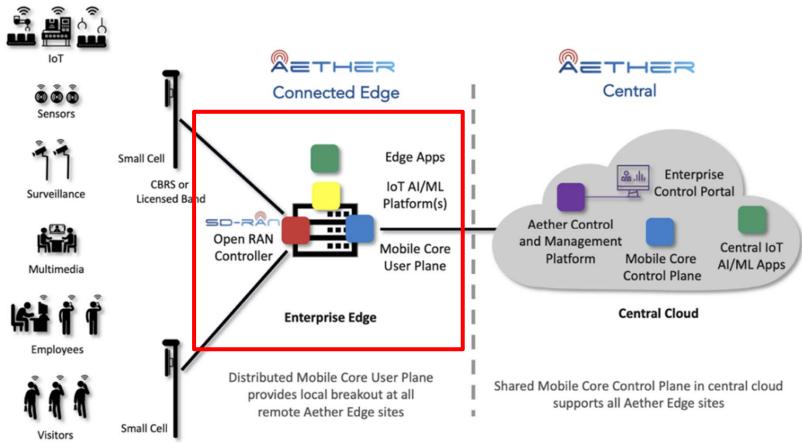






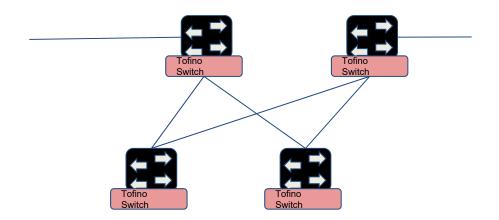




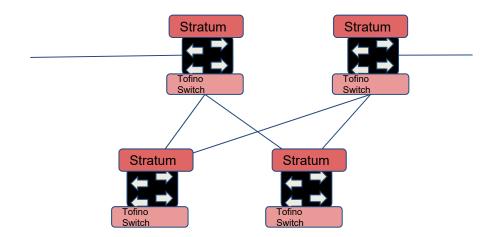


### **ACE Software Architecture**

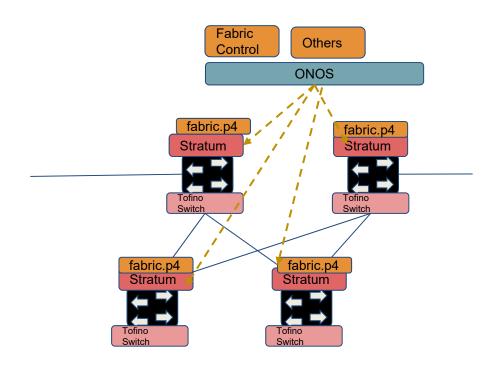




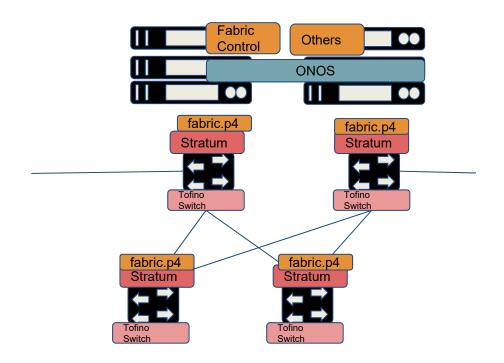




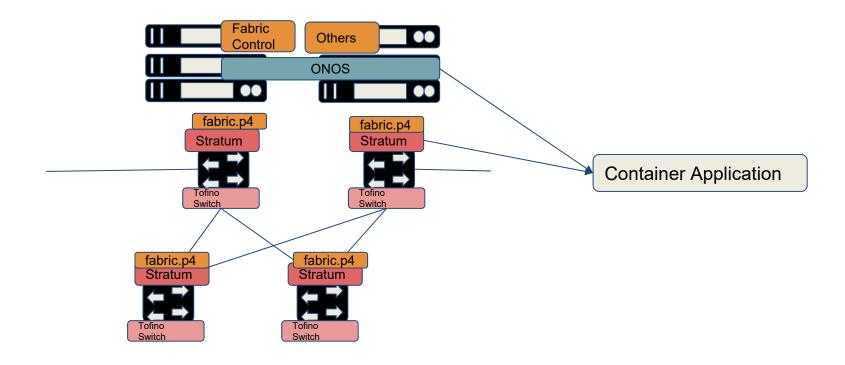




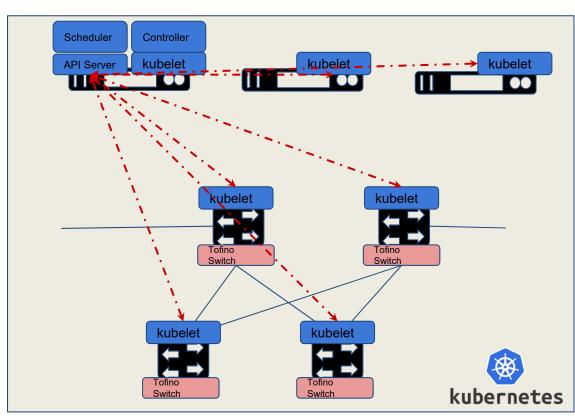








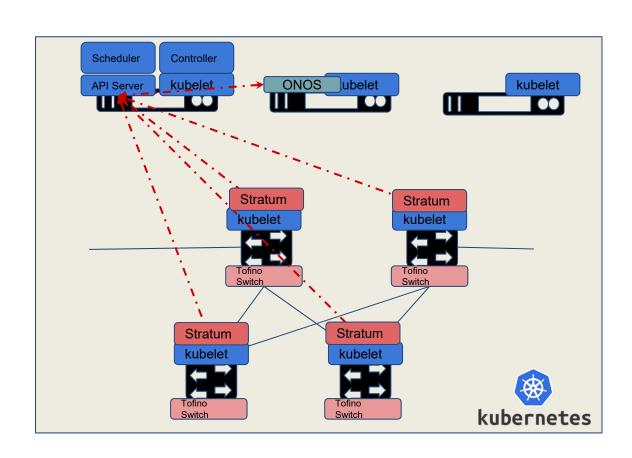




- Both switch and server are controlled by Kubernetes
- Install the kubernetes agent, kubelet on all nodes.
- Modify the ONL (Open Network Linux) to support the Kubernetes

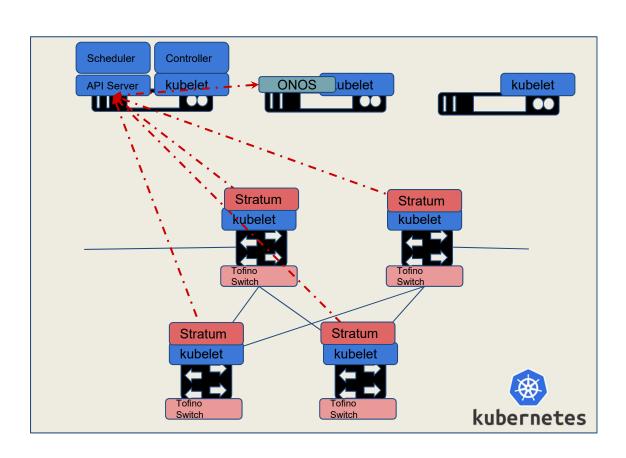
Aether Connected Edge (ACE)





- Kubernetes provides the rules and policies for customized scheduling
  - Only schedule the ONOS container to server.
  - Only schedule the Stratum container to Tofino switch.

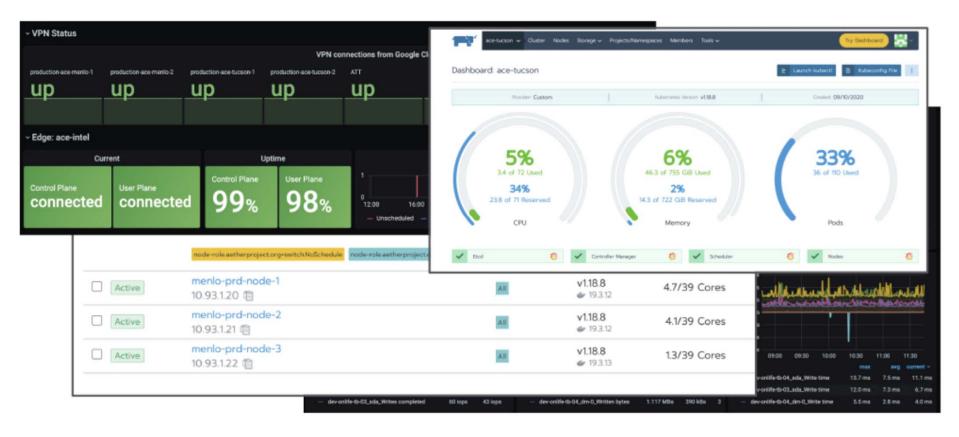


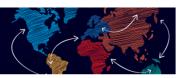


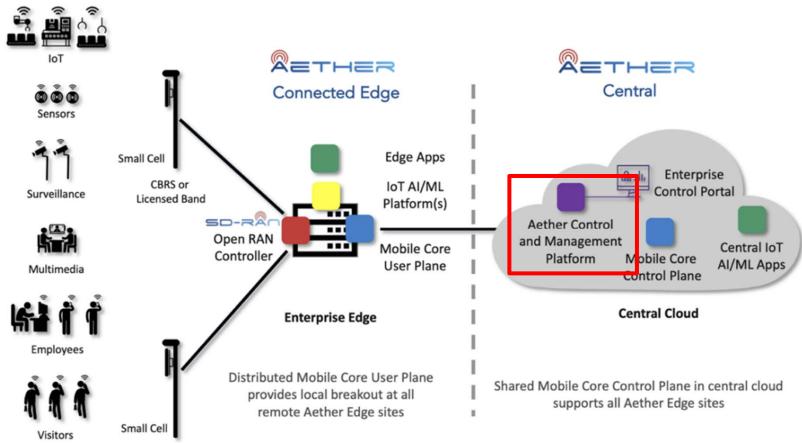
- Cloud Native Ecosystem
- Monitoring
  - Prometheus
  - o Grafana
- Logging System
  - o EFK/ELK
  - o Loki
- Kubernetes Platform
  - Rancher

#### **Cloud Native Solutions**







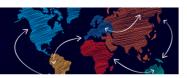


## Aether Management Platform



- A highly available cloud service used to control, configure, monitor and lifecyclemanage
- Define Aether-specific workflows
  - Global infrastructure for collecting monitoring and logging data.
  - CI/CD toolchain for managing the lifecycle of the deployed system.

## Aether Management Platform (CI/CD)



- Open source tools to Continuously integrate (CI) and Continuously Deploy (CD)
- Changes are developed and tested in a staging networks and then automatically pushed to the multi-cloud production network.

### Aether CI/CD Pipeline

