

## Eliot Blueprint (Enterprise-edge Lightweight & IoT)

DRAFT 2

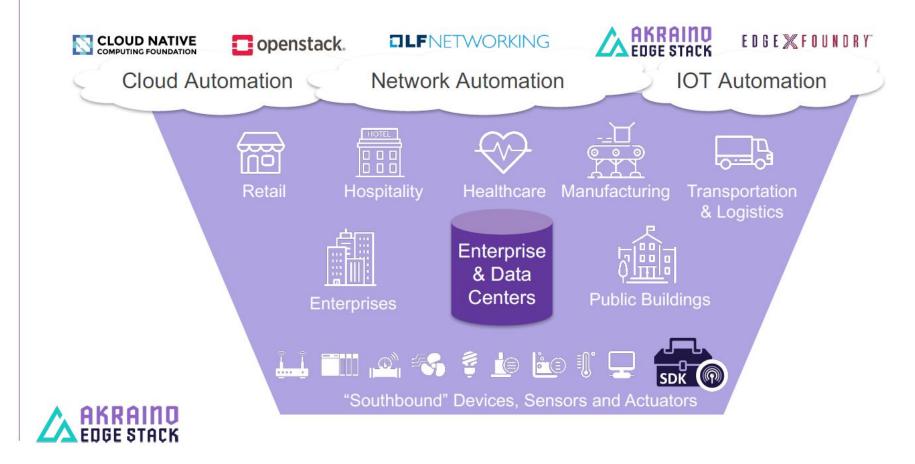
Nov 5, 2018

Wenjing Chu



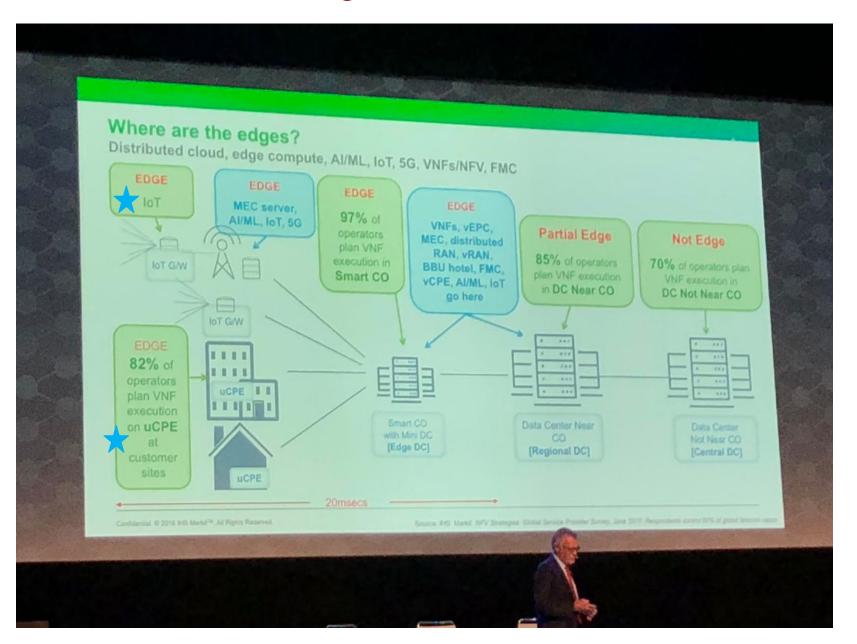
## Focus on Akraino community's "Use Case 2"

Use Case 2: IOT Driving the New Edge for Enterprise Retail, Transportation, Healthcare...





## Where on the edge?

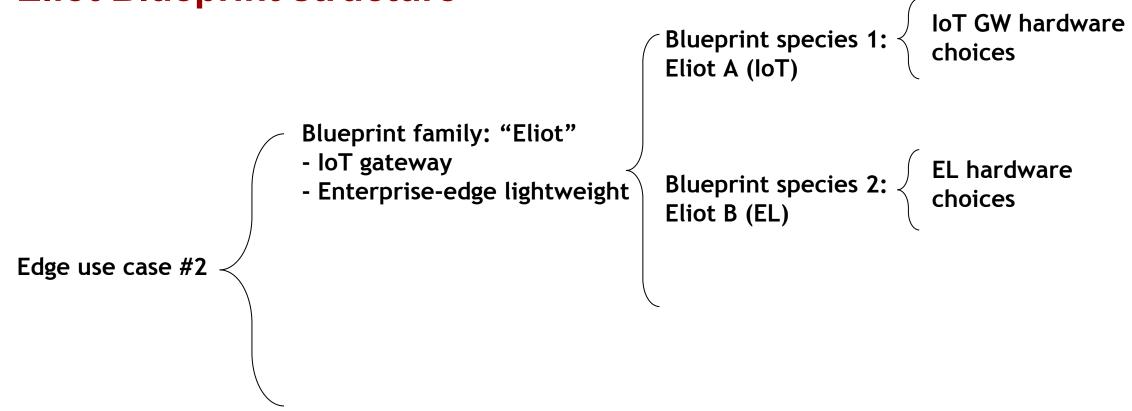


- > Two main use cases
  - » Enterprise edge lightweight,e.g. uCPEs
  - » IoT gateways
- The control/management entity can be anywhere in the cloud, including edge of the network or cloud.

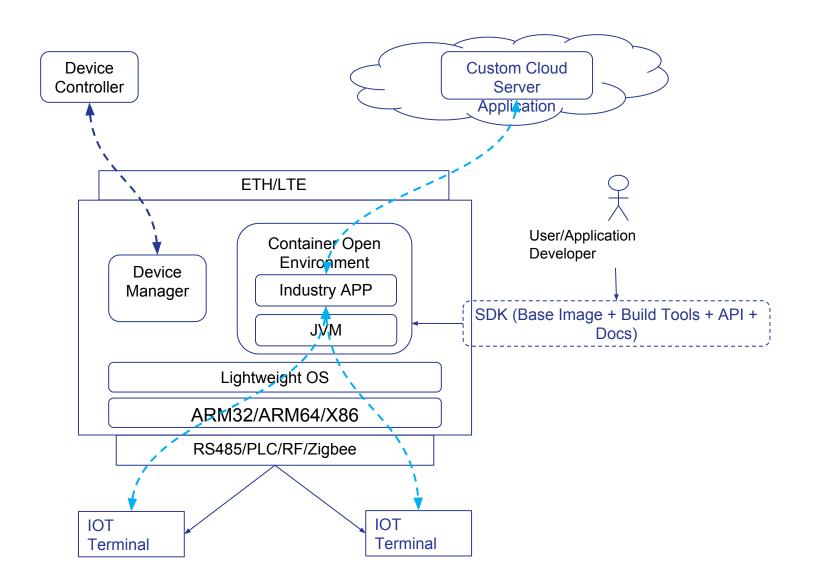
Photo thanks to Michael Howard of IHS.



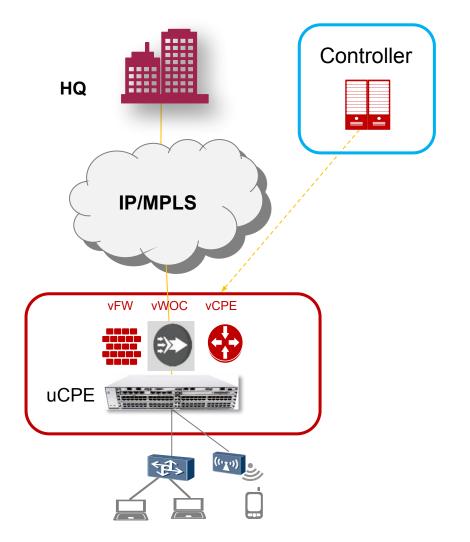
## **Eliot Blueprint structure**

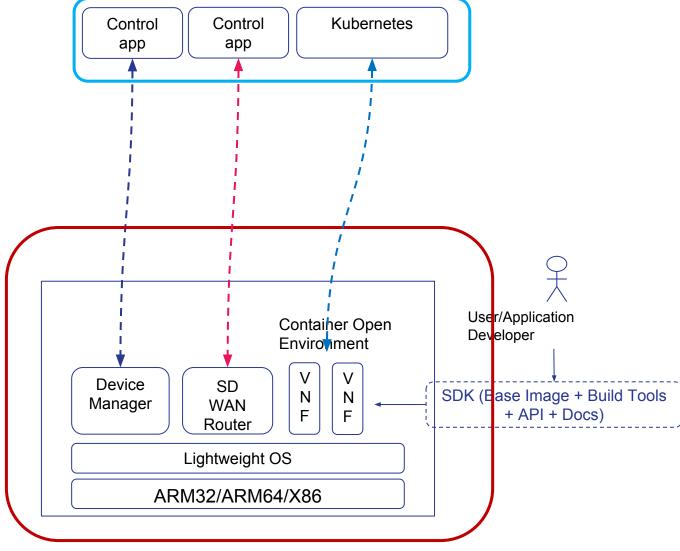


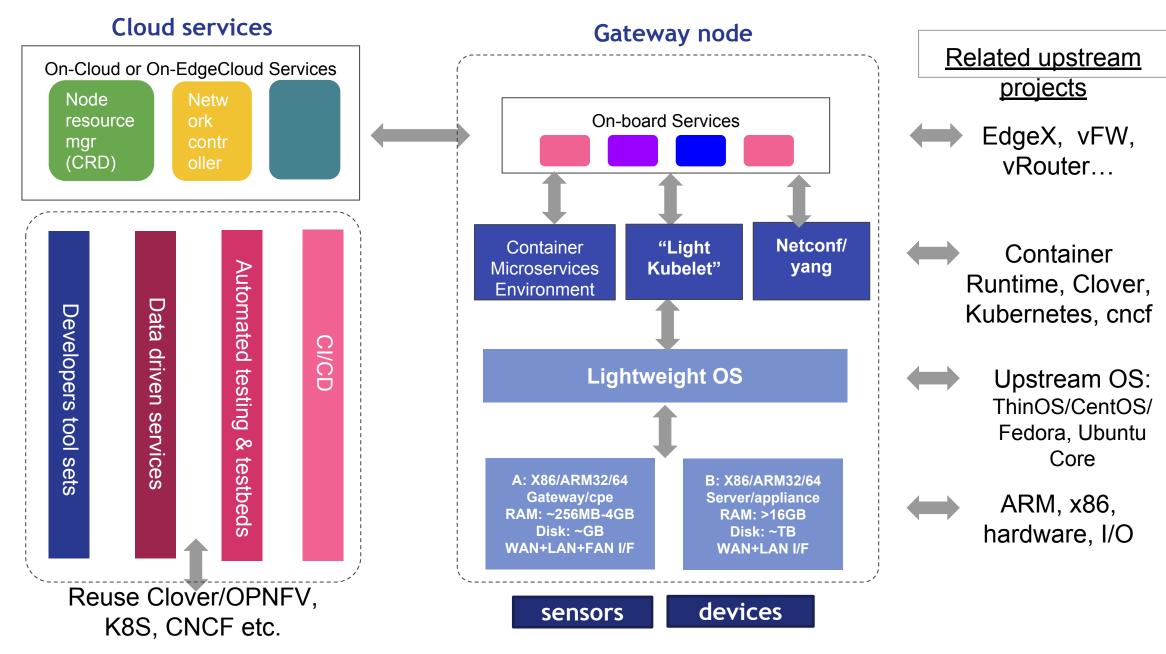
## Use Case A: IOT Gateway



## Use Case B: SD WAN (uCPE)







Akraino lightweight blueprint – Eliot - for Enterprise edge, lightweight and IoT

#### **Hardware selections**

- Any hardware that meet the minimum requirements
  - For developers and user community: virtual machines
  - For developers and user community: widely available enthusiast's favorites: RPi
  - For deployable choices
    - ARM family based
    - x86 family based
    - GPU, and other accelerators
- The management software requires cloud services (private or public), e.g. Akraino network edge blueprints

for example:



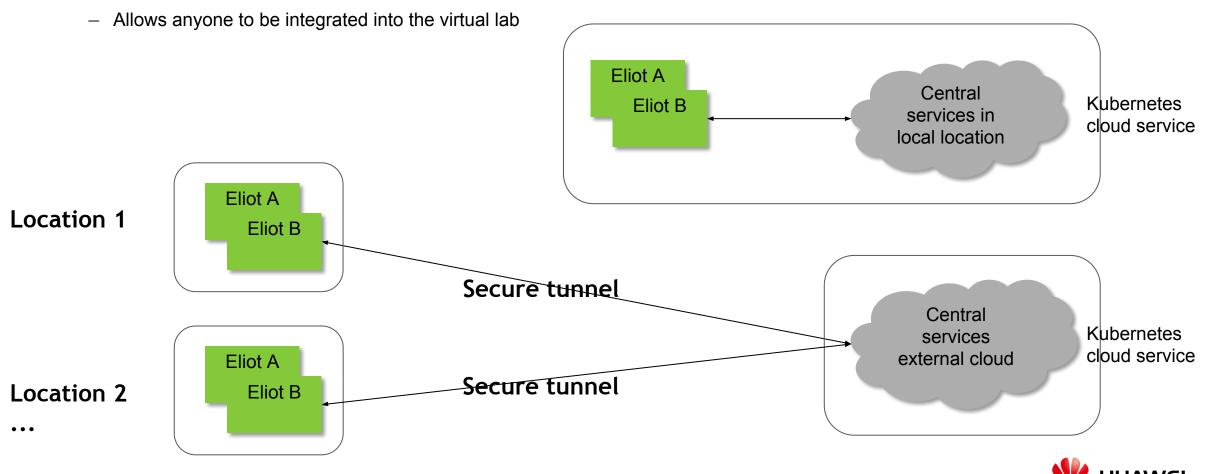




#### Labs

#### > 2 types of labs may be enabled for Eliot

- » Centralized lab location: all physical gateways reside in a shared lab
- » Distributed lab locations: physical gateways can reside in different admin domains as long as secure tunnel is enabled



## Eliot Blueprint creation documentation in progress

- > Template 1 Use case template
- > Template 2 Blueprint family template
- > Template 3 Blueprint species template
- > Blueprint Draft Doc



### Eliot project planning

#### Community and Project Planning dates

- » November 5-6, online Zoom workshop, initial proposal
- » December 6-7: F2F meeting, location Santa Clara, CA, Eliot project workshop, demo
- » December 10-13: KubeCon Seattle
- > First release: depends on Akraino community planning, but we suggest e.g. end of Q1 2019.
  - » end of March, 2019

#### > Welcoming contributors

- » arm based systems, x86 based systems, sensors/devices
- » operating systems, containers, run times
- » middleware, SDN controllers, VNFs, e.g. EdgeX, Tungsten Fabric, smart video
- » sample applications
- » CI/CD
- » testing, validation, labs, ...



# Thank you

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