OCP2016@SanJose

20160309@SanJoseConvensionCenter

Day-1

key-notes

Nothing special, they just said OCP is important.

Panel Discussion:

- why whitebox - cost reduction, fast innovation, source independency
- challenge is on softwre, it is more like app now
- automation
- edge computing enable the customization.
- customizing for special use case, or individual
- different types of traffic will be riding on the same network.
- tradition telecom: close relationship with equipment vendors, closed and protected space. new role: part of integration team.
- current approach: software skill, learning skill
- DevOps concept culture inserts into telecom industry.

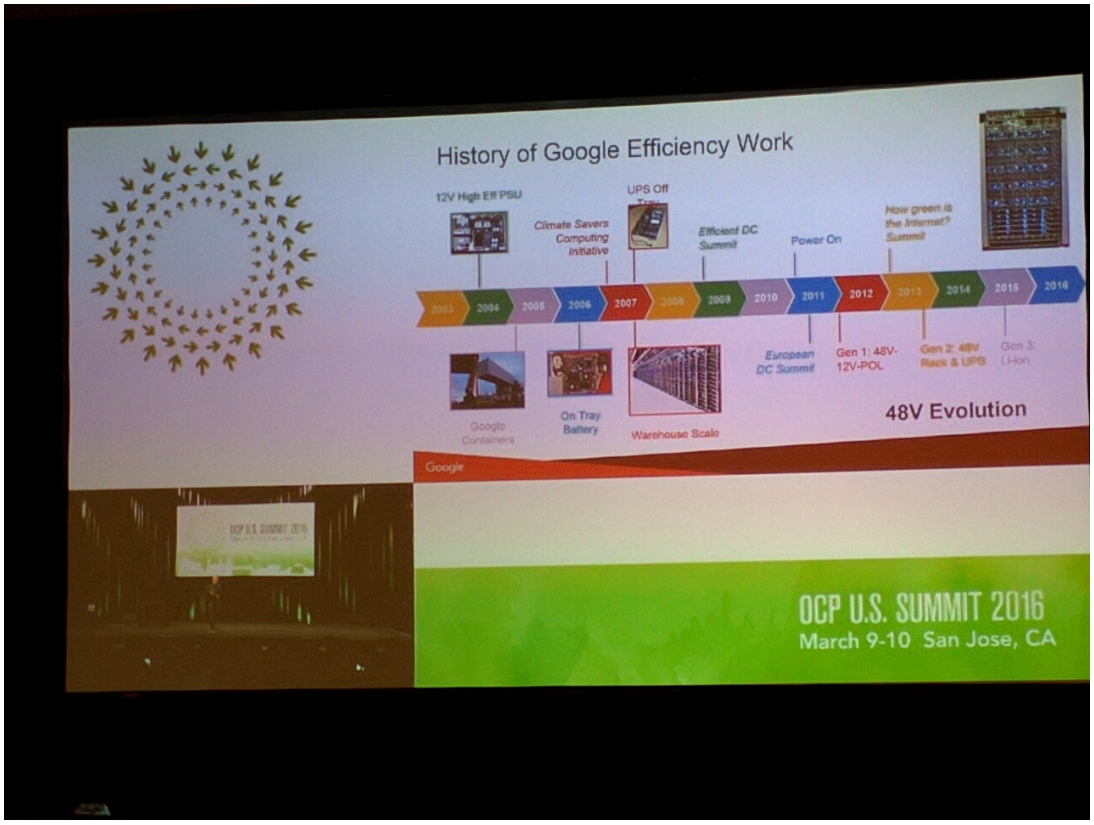
Facebook:

- AI hardware, self-driving car, medical research,..
- 80% of FB users lives outside of North America

Google:

join OCP today and contribute 48dcv standard and propose a narrower rack form

factor



Microsoft

- contributes SONiC

Day-2

Transforming Networks to an All-IT based Infrastructure with OCP and Open Networking

from SK telecom
* All IT-Network (programmability, open HW and SW, SDN/NFV) * virtualization all HW

- use FB Wedge
- porting Indigo on wedge + ONL (dependency in ASIC Kernel SDK)

ToRC – Applications, Microservices, and VNFs controlled by the Top-of-Rack Switch

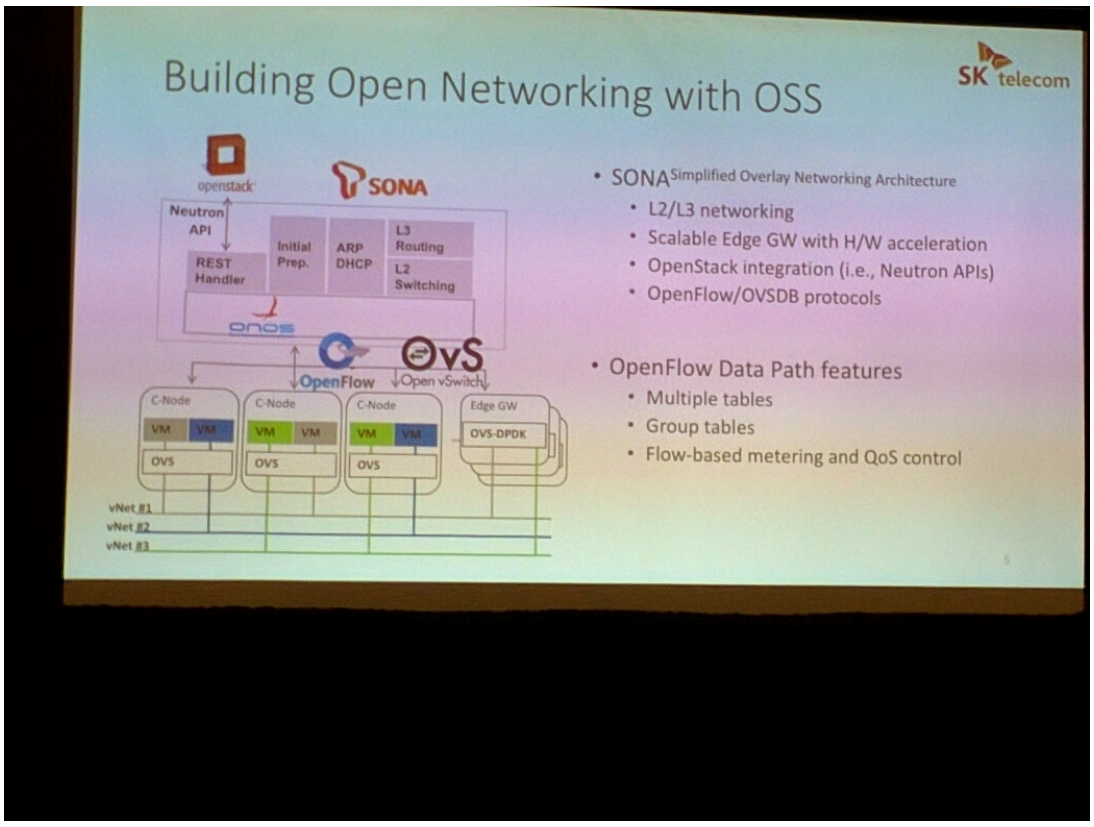
- control is moving to center of network, **enterprise-wide OS**
- interesting things are moving to edge, need process fast,
- Docker, mesos, fboss, opensl, onl, openBmc, Calico

very good work/presentation from ATT Foundry

SONiC

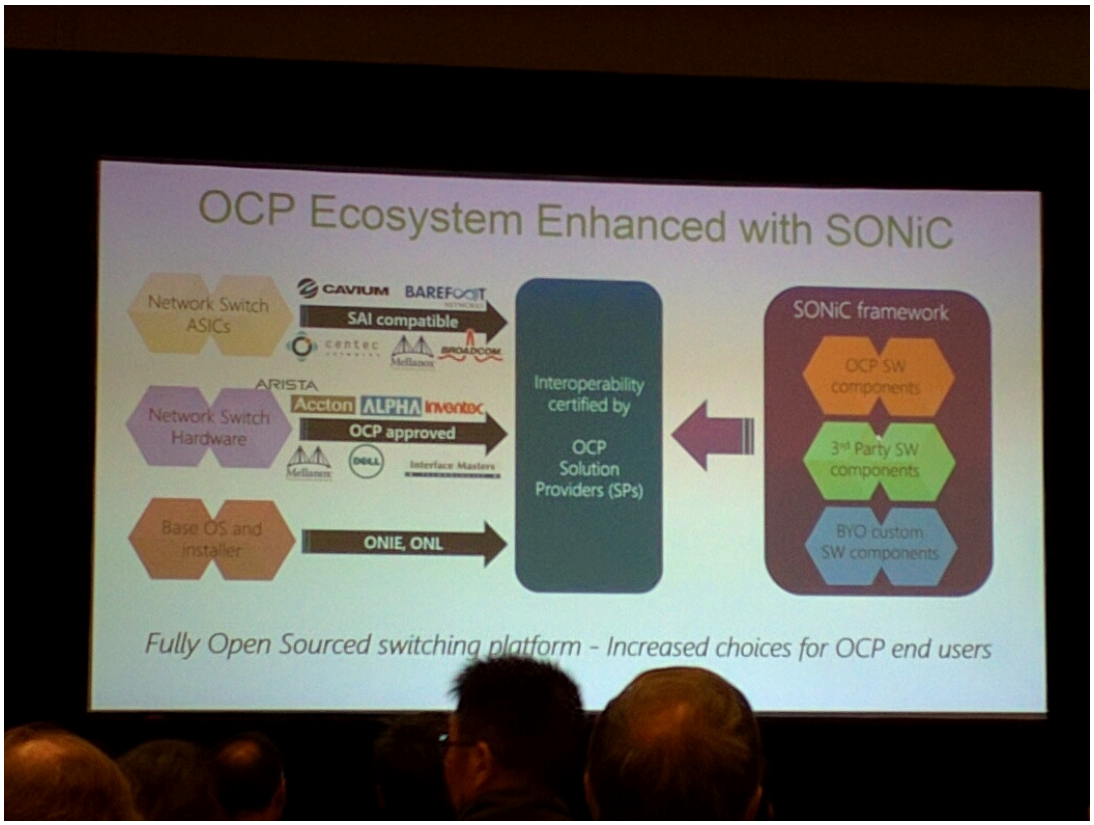
- network software components
- builds on tyoe of SAI
- provide L2/L3 functionalities
- loosely-coupled modular design
- separate states and logic

Production ready stack

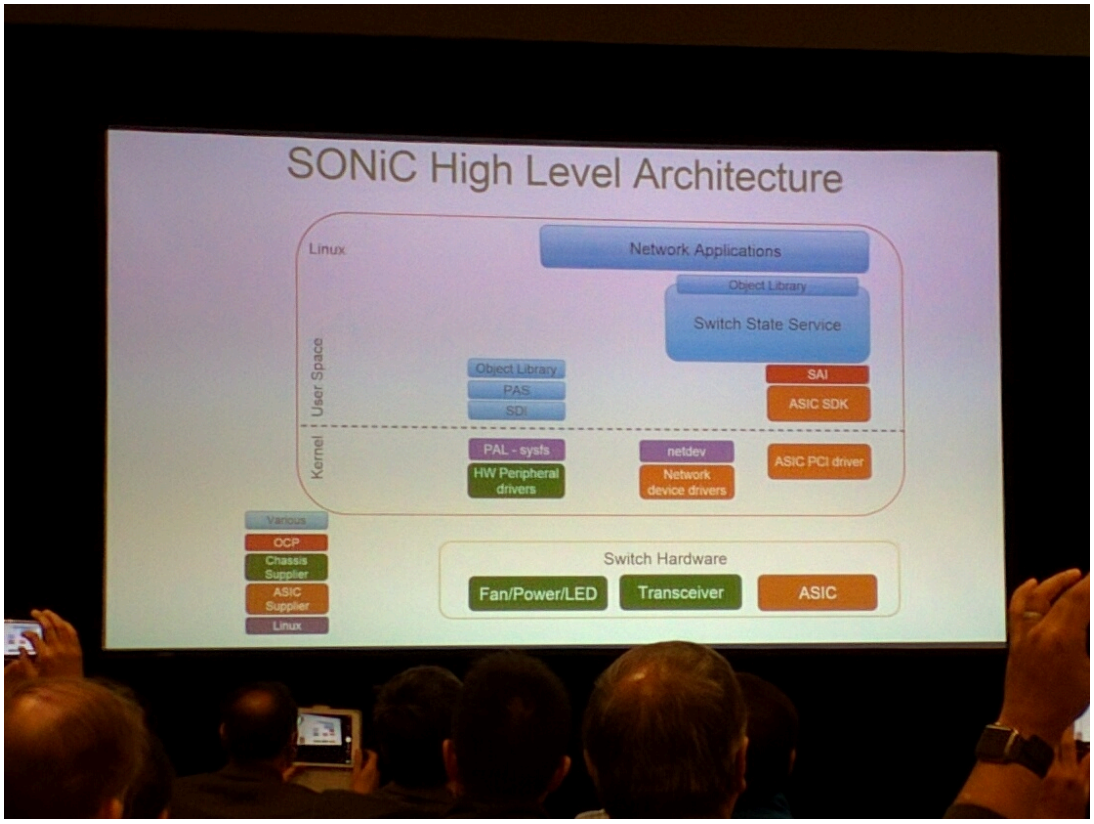


orchestration agent translate appDB to SAIDB SynD get state info from SAI to SAIDB, SAI Redis move data in memory to SAIDB

Platform



Architecture



Low Latency Analytics Platforms for Mobile Edge Computing

from IDT *Network is the Data Center* Cloud Radio Access Network

To-do

- study
    - SAI, SONiC from MS
    - ONIE
    - Big Sur, NVM from FB
    - FaceBook (FB) building blocks
    - Intel's offers
- define a reference architecture
- search/review Coursera Edge Computing class
- search ML/AI hardware requirements

- try
    - software-SONiC donated by MS
- chat
    - find time to discuss with Foundry (done)
- update Mesos installation
- setup meeting with Christopher at Calico, 1 hours learning session.
- investigate RapidIO impact on 5G network.