

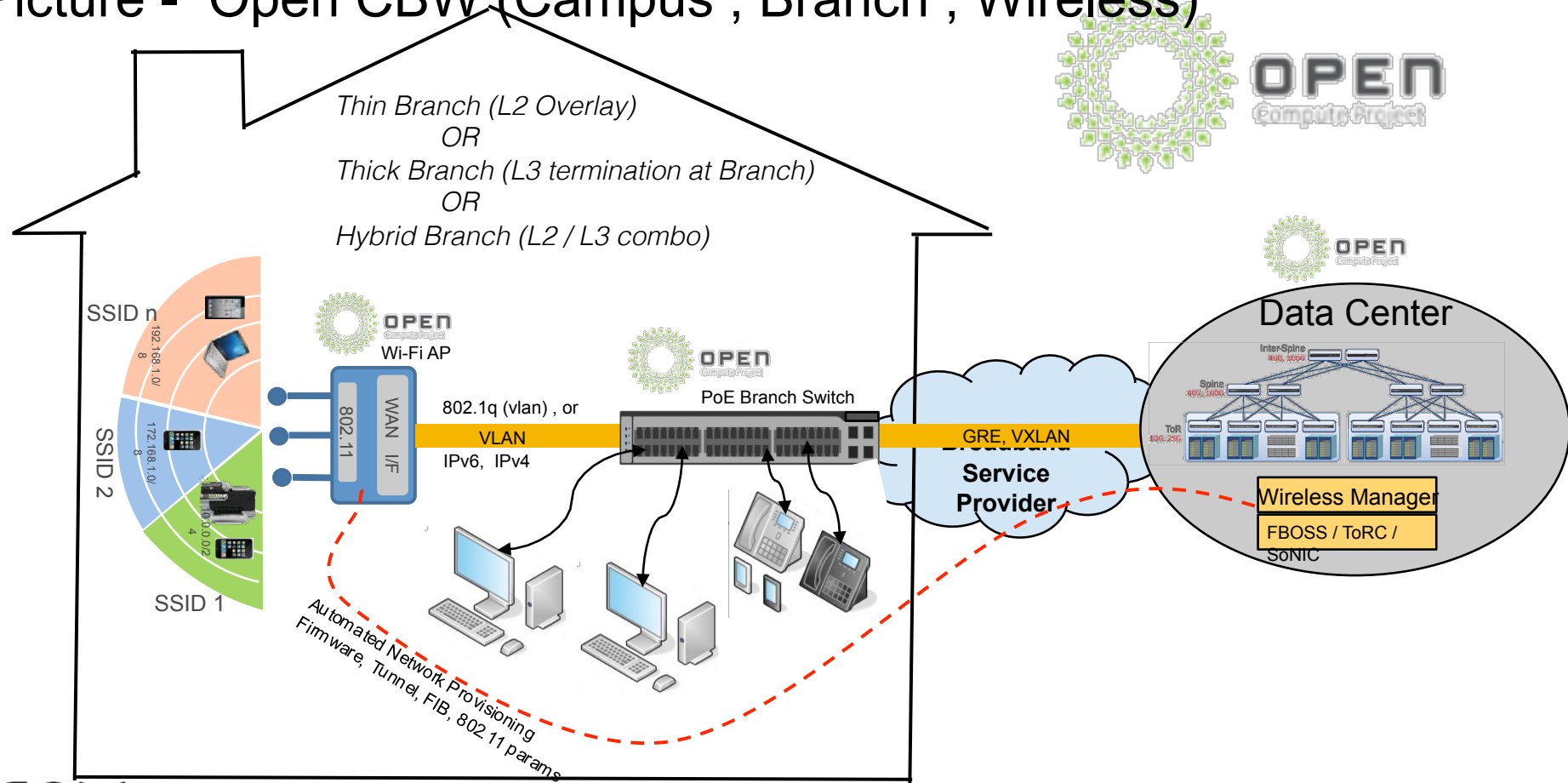


benu



OCP
CBW Affairs

Big Picture - Open CBW (Campus , Branch , Wireless)



Two Perspectives



Networking centric perspective

Special CLI or UI

I have to be certified by a Networking university !

SNMP,
TR-069



Old
world

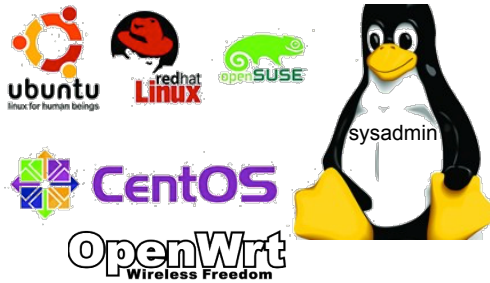
IT centric perspective

Meh, Just another Linux server
with a Wireless interface !

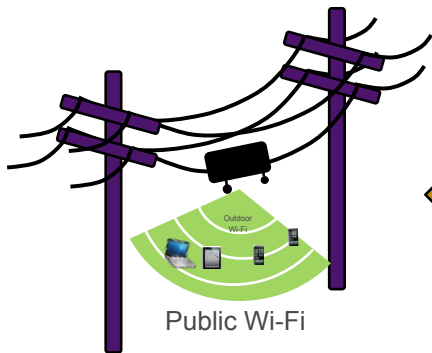


New
world





Linux Server on a pole !



Linux server on a Balloon !



Flying Linux server !



Why Linux ? Why Open ?



- Verified Secure Boot
- Secure Rolling Auto Updates / Patches
- Continuous Build, Test, Deployment
- Modern Kernels
- Provenance and Audit for all Code
- Open Source Resilience
- Zero touch Cloud management

State of the Union

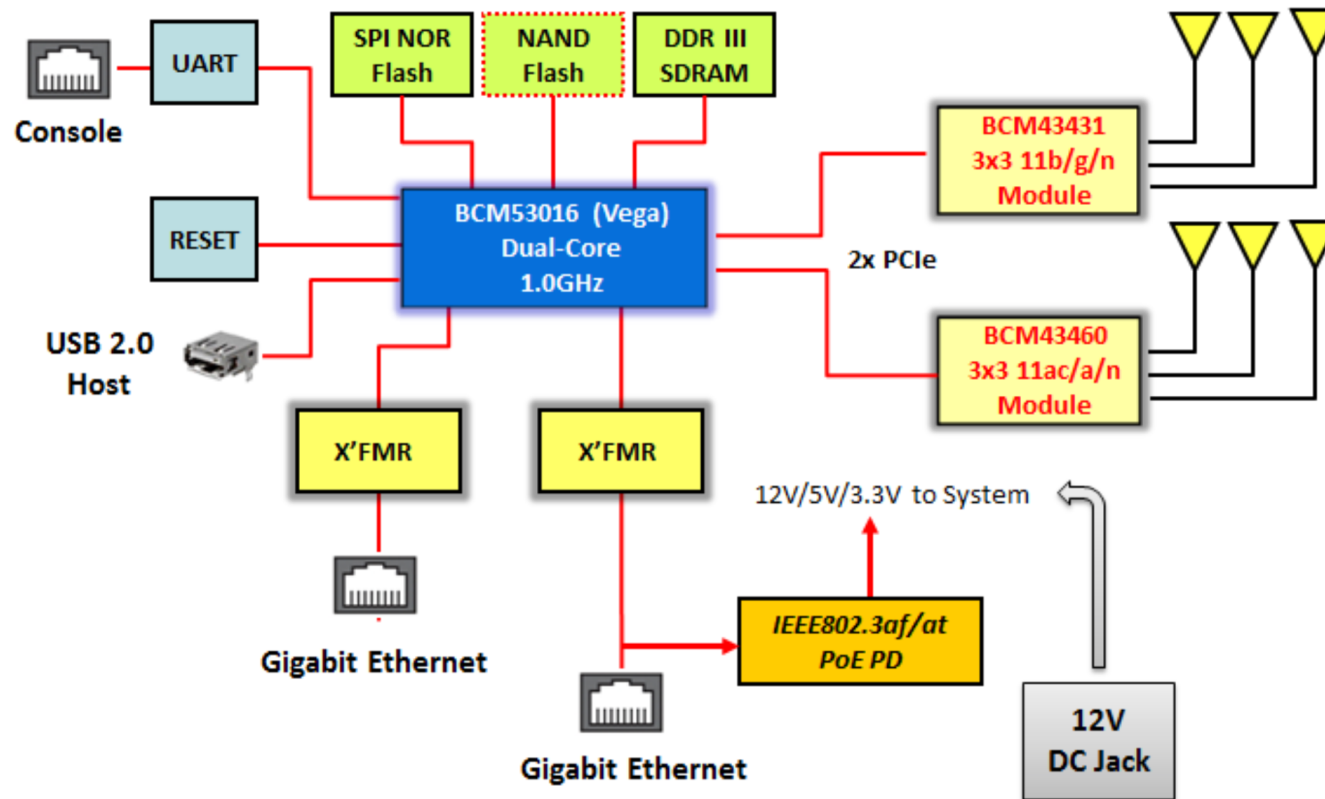


Phase 1 : Open Source the Access Point H/W design (Done !)
4 H/W designs made public (entry level AP to high-end 3x3 MIMO 802.11AC)

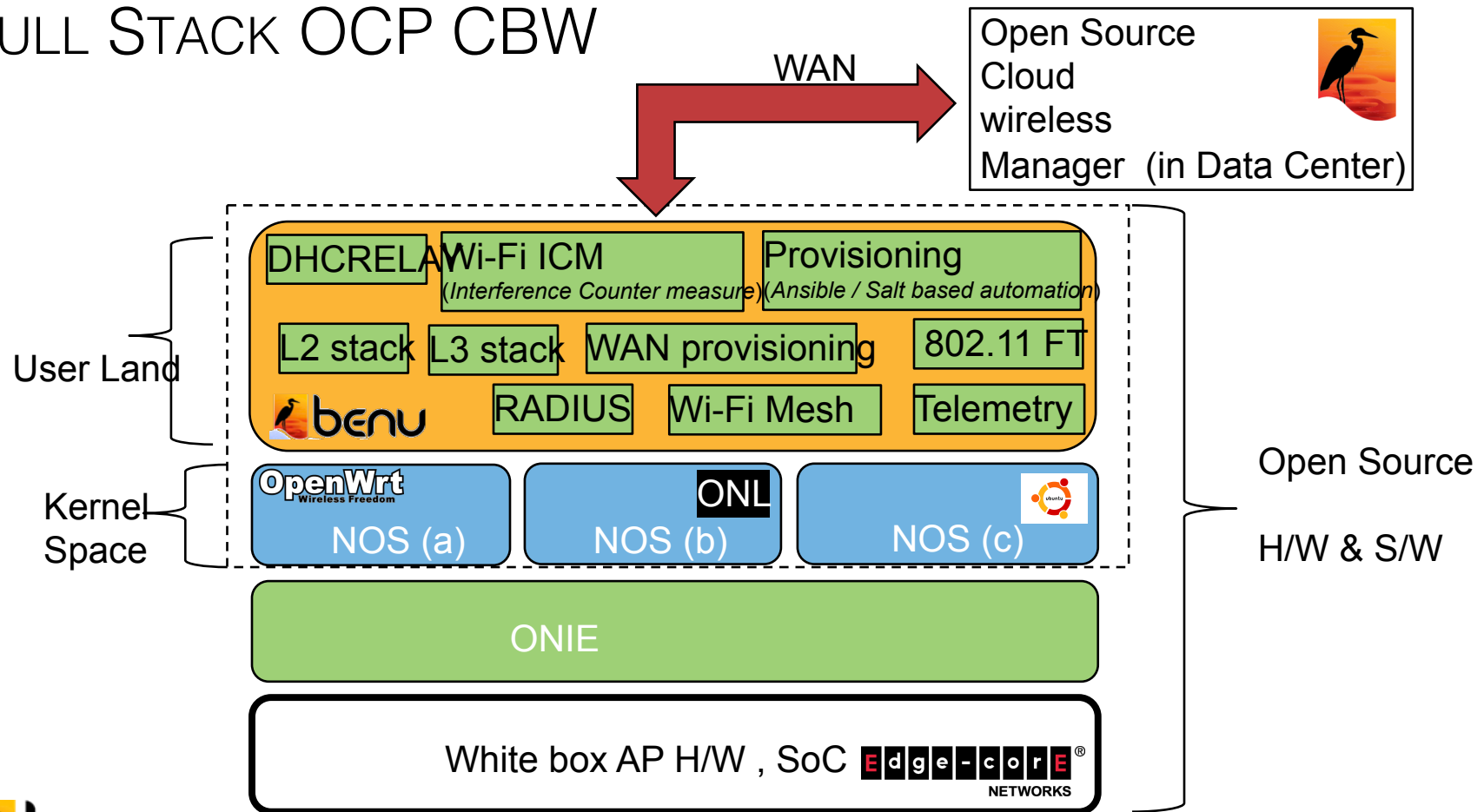
@ <http://www.opencompute.org/wiki/Networking/SpecsAndDesigns>



Sample 3x3 MIMO AC Unit



FULL STACK OCP CBW

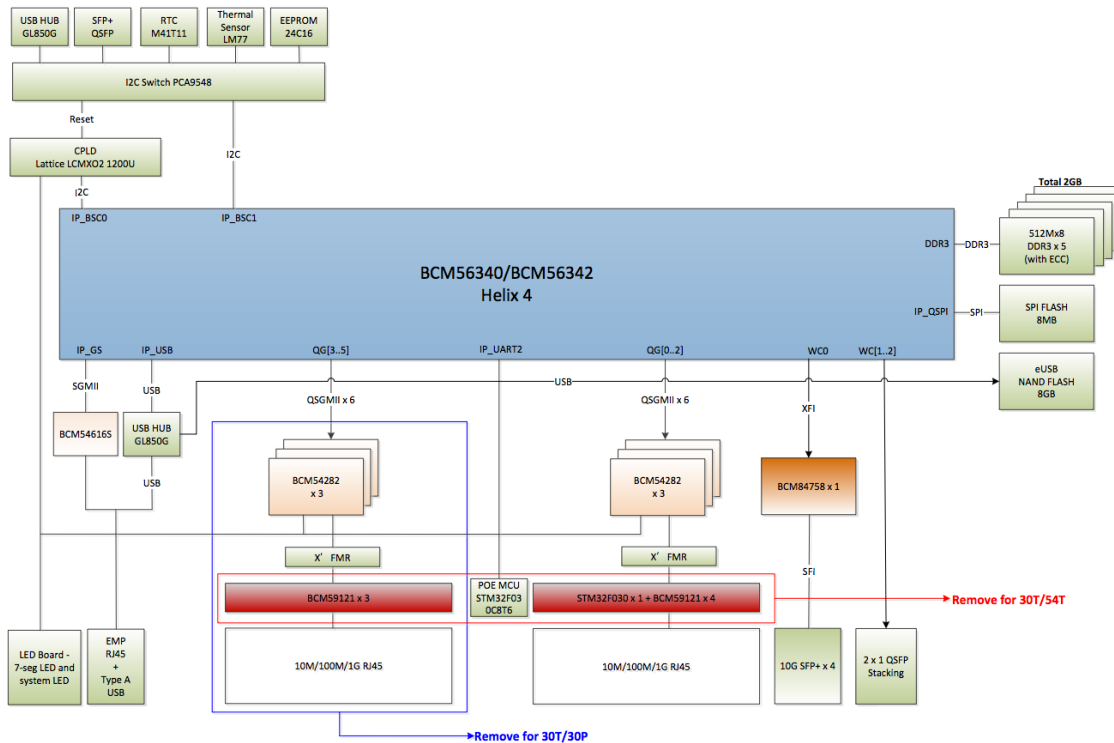


ONIE - CBW

- Needed secure (SSL) option for fetching NOS from Public Cloud
 - Does that exist today ?
- Any other requirements ?



CBW - BRANCH PoE SWITCH



Anyone working on this ?

Branch PoE has different networking requirements than DC ToR .



Where is (will be) the S/W



Phase 2 : Open Source Linux based software stack on the Access Points (starting)

@ <https://github.com/ocpnetworking-wip>

OpenWRT NOS work in progress ; Target Completion Summer 2016



NEXT ?

- Need volunteers to pick up user space modules
 - Generic WLAN interface configuration
 - Zero touch cloud management
 - Wi-Fi Mesh (campus / branch backhaul)
- H/W submission for LTE / Wi-Fi combo White Box ?
 - OCP-Telco would love to have that.
 - You think Enterprise Networking is closed ? Mobile Networking is the mother of closed end-to-end networking.

