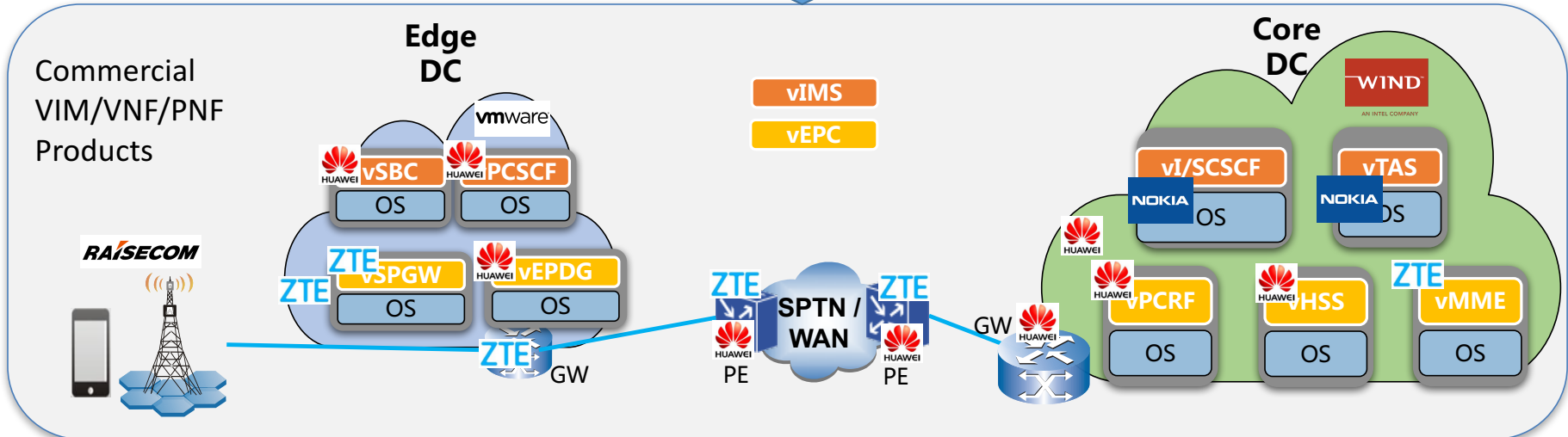
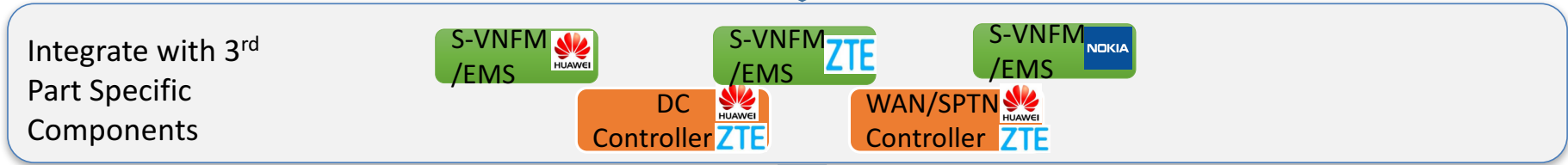




CMCC ONAP Community Lab

For R1 VoLTE Use Case E2E Integration Test, Sept 27th, 2017

CMCC Lab Overview for R1 VoLTE Case



Hardware Racks Panel



Bare mental Server:17
 WAN PE Router(WAN): 2
 TOR Switcher: 6
 Firewall: 2



Bare mental Server: 11(5 servers, 1 blade server with 6 nodes)
 SPTN PE Router(WAN): 2
 TOR Switcher: 2



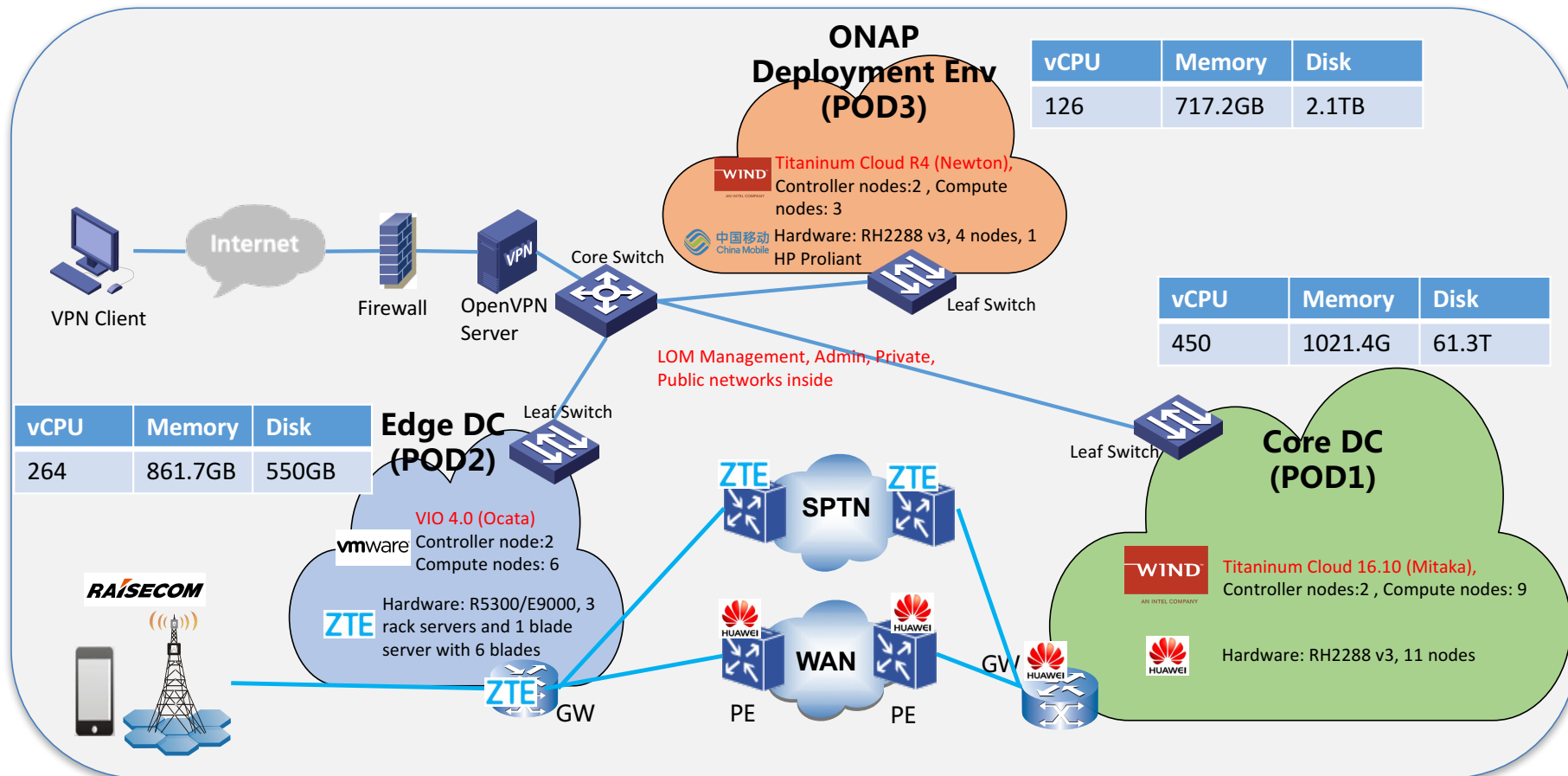
Bare mental Server:6

312-09		312-12		312-14	
41U	Blank panel	41U	AR-169	41U	Blank panel
40U	Blank panel	40U	AR-2220E	40U	FW 01(Secospace USG6000)
39U	OPENO-POD-LSW02(CE6851-48S6Q-HI)	39U	Blank panel	39U	Blank panel
38U	Blank panel	38U	Blank panel	38U	Blank panel
37U	Blank panel	37U	Blank panel	37U	OPENO-Centos-Server17
36U	Blank panel	36U	FW 02(Secospace USG6000)	36U	LSW05-TOR(CE6850-48T6Q-HI)
35U	Blank panel	35U	Blank panel	35U	Blank panel
34U	Blank panel	34U	OPENO-POD-LSW04(CE6810-24T4S-EI)	34U	LSW01(CE6850-48T4S2Q-HI)
33U	Blank panel	33U	Blank panel	33U	Blank panel
32U	Blank panel	32U	ENO-POD2-LSW03-GW(CE6851-48S6Q-HI)	32U	Blank panel
31U	Blank panel	31U	Blank panel	31U	上行LSW ZTE
30U	Blank panel	30U	Blank panel	30U	Blank panel
29U	Blank panel	29U	Blank panel	29U	Blank panel
28U	Blank panel	28U	Blank panel	28U	Blank panel
27U	Blank panel	27U	Blank panel	27U	Blank panel
26U	Blank panel	26U	Blank panel	26U	Blank panel
25U	Blank panel	25U	Blank panel	25U	Blank panel
24U	Blank panel	24U	Blank panel	24U	Blank panel
23U	Blank panel	23U	Blank panel	23U	Blank panel
22U	Blank panel	22U	Blank panel	22U	Blank panel
21U	Blank panel	21U	Blank panel	21U	Blank panel
20U	Blank panel	20U	Blank panel	20U	Blank panel
19U	Blank panel	19U	Blank panel	19U	Blank panel
18U	Blank panel	18U	Blank panel	18U	Blank panel
17U	Blank panel	17U	Blank panel	17U	Blank panel
16U	Blank panel	16U	Blank panel	16U	Blank panel
15U	Blank panel	15U	Blank panel	15U	Blank panel
14U	Blank panel	14U	Blank panel	14U	Blank panel
13U	Blank panel	13U	Blank panel	13U	Blank panel
12U	Blank panel	12U	Blank panel	12U	Blank panel
11U	Blank panel	11U	Blank panel	11U	Blank panel
10U	Blank panel	10U	Blank panel	10U	Blank panel
9U	Blank panel	9U	Blank panel	9U	Blank panel
8U	Blank panel	8U	Blank panel	8U	Blank panel
7U	Blank panel	7U	Blank panel	7U	Blank panel
6U	Blank panel	6U	Blank panel	6U	Blank panel
5U	Blank panel	5U	Blank panel	5U	Blank panel
4U	Blank panel	4U	Blank panel	4U	Blank panel
3U	Blank panel	3U	Blank panel	3U	Blank panel
2U	Blank panel	2U	Blank panel	2U	Blank panel
1U	Blank panel	1U	Blank panel	1U	Blank panel

312-4-10		312-4-11		312-4-12	
41U	Blank panel	41U	Blank panel	41U	Blank panel
40U	Blank panel	40U	Blank panel	40U	Blank panel
39U	Blank panel	39U	Blank panel	39U	Blank panel
38U	Blank panel	38U	ZXR10 8902E	38U	Blank panel
37U	Blank panel	37U	Blank panel	37U	Blank panel
36U	ZXCTN 6150	36U	Blank panel	36U	Blank panel
35U	Blank panel	35U	Blank panel	35U	Blank panel
34U	ZXCTN 6150	34U	ZXR10 5960	34U	Blank panel
33U	Blank panel	33U	Blank panel	33U	Blank panel
32U	Blank panel	32U	Blank panel	32U	Server05 - R5300-G3
31U	ZXAC10 c320交换机	31U	Server01 -: HP DL580 Gen8	31U	Blank panel
30U	Blank panel	30U	Blank panel	30U	Blank panel
29U	ZXCTN 6500-8	29U	Blank panel	29U	Blank panel
28U	Blank panel	28U	Server06 -: HP DL580 Gen8	28U	Blank panel
27U	Blank panel	27U	Blank panel	27U	Blank panel
26U	Blank panel	26U	Blank panel	26U	Blank panel
25U	ZXCTN 6500-8	25U	Blank panel	25U	Blank panel
24U	Blank panel	24U	Blank panel	24U	Blank panel
23U	Blank panel	23U	ZXCTN 608-G	23U	Blank panel
22U	Blank panel	22U	Blank panel	22U	Blank panel
21U	Blank panel	21U	Blank panel	21U	Blank panel
20U	Blank panel	20U	Blank panel	20U	Blank panel
19U	Blank panel	19U	Server03 - R5300-G3	19U	Blank panel
18U	Blank panel	18U	Blank panel	18U	Blank panel
17U	Blank panel	17U	Blank panel	17U	Blank panel
16U	Blank panel	16U	Server04 - R5300-G3	16U	Blank panel
15U	Blank panel	15U	Blank panel	15U	Blank panel
14U	Blank panel	14U	Blank panel	14U	Blank panel
13U	Blank panel	13U	Blank panel	13U	Blank panel
12U	Blank panel	12U	Blank panel	12U	Blank panel
11U	Blank panel	11U	Blank panel	11U	Blank panel
10U	Blank panel	10U	Blank panel	10U	Blank panel
9U	Blank panel	9U	Blank panel	9U	Blank panel
8U	Blank panel	8U	Blade Server E9000 6刀片	8U	Blank panel
7U	Blank panel	7U	Blank panel	7U	Blank panel
6U	Blank panel	6U	Blank panel	6U	Blank panel
5U	Blank panel	5U	Blank panel	5U	Blank panel
4U	Blank panel	4U	Blank panel	4U	Blank panel
3U	Blank panel	3U	Blank panel	3U	Blank panel
2U	Blank panel	2U	Blank panel	2U	Blank panel
1U	Blank panel	1U	Blank panel	1U	Blank panel

312-??	
41U	Blank panel
40U	Blank panel
39U	Blank panel
38U	Blank panel
37U	Blank panel
36U	Blank panel
35U	Blank panel
34U	Blank panel
33U	Blank panel
32U	Blank panel
31U	Blank panel
30U	Blank panel
29U	Blank panel
28U	Blank panel
27U	Blank panel
26U	Blank panel
25U	Blank panel
24U	Blank panel
23U	Blank panel
22U	Blank panel
21U	Blank panel
20U	Blank panel
19U	Blank panel
18U	Blank panel
17U	Blank panel
16U	Blank panel
15U	Blank panel
14U	Blank panel
13U	Blank panel
12U	Blank panel
11U	Blank panel
10U	Blank panel
9U	Blank panel
8U	Blank panel
7U	Blank panel
6U	Blank panel
5U	Blank panel
4U	Blank panel
3U	Blank panel
2U	Blank panel
1U	Blank panel

CMCC Lab Network Topology/Resources Overview



The Progress in CMCC Lab

- Remotely access: **done**
- All hardware needed by VoLTE case: **on-site**
- Re-adjust network topology : **done**
- Software deployment:
 - TIC Core (complain with Mitaka): **done**
 - TIC Edge (VIO 4.0 (complain with Ocata): **done**
 - ONAP deployment environment (WindRiver R4 compliant with Newton, the same with Developer lab sponsored by Intel & WindRiver): **done**
 - All S-VNFMs from Huawei, Nokia, and ZTE are **ready**
 - All VNFs located in TIC core from HUAWEI/NOKIA/ZTE are successfully deployed manually, integration test with WindRiverr Cloud is **done**
 - The VNFs, located in TIC Edge, integrate with VIO is **in working process**
- **Next Step(High Level) :**
 - Debug/configure IMS/EPC service, make a VoLTE call successfully
 - Debug SDN overlay/underlay solution manually(Some test has being done in Vendor's lab)
 - Deploy ONAP release candidate version to do the E2E integration test

CMCC Lab's status can be tracked on JIRA

Lab Status

Following actions are being planned/in process in CMCC lab

键值	摘要	T	已更新	P	状态*
OPENLABS-4	Set up environment	+	九月 22, 2017	↑	IN PROGRESS
OPENLABS-12	Create high level integration time schedule	+	九月 19, 2017	↑	IN PROGRESS
OPENLABS-22	Instantiate VNFs via S-VNFM manually	+	九月 19, 2017	↑	IN PROGRESS
OPENLABS-21	Deploy 3rd EMSs	+	八月 22, 2017	↑	IN PROGRESS
OPENLABS-19	Deploy 3rd SDN controllers	+	八月 09, 2017	↑	TO DO
OPENLABS-17	Deploy DCI connection devices(DCGW)	+	八月 09, 2017	↑	TO DO
OPENLABS-3	Create E2E integration plan	+	八月 09, 2017	↑	TO DO
OPENLABS-6	Support use case test	+	七月 24, 2017	↑	TO DO
OPENLABS-5	Debug basic functionality bypass ONAP	+	七月 24, 2017	↑	TO DO
OPENLABS-2	Conclude HW/SW version and model according to discussion with sponsors	+	七月 24, 2017	↑	TO DO
OPENLABS-18	Setup ONAP running enviroment	+	九月 19, 2017	↑	DONE
OPENLABS-16	Deploy VIM as TIC edge	+	九月 19, 2017	↑	DONE
OPENLABS-20	Deploy 3rd VNFMs	+	九月 04, 2017	↑	DONE
OPENLABS-15	Deploy VIMs as TIC core	+	八月 23, 2017	↑	DONE

<https://wiki.onap.org/display/DW/China+Mobile+Hosting>

How To Use CMCC Lab

- VPN Access(<https://wiki.onap.org/display/DW/China+Mobile+Hosting>)
 - CMCC provides VPN access to its lab on an individual basis. You should open JIRA task in OPENLAB project, the component field should be CMCCCLAB, and assign it to Chengli Wang, with some information like,
 - Intention, Duration, Name, mail address, Company, Linux Foundation ID, etc
 - Users may not share their VPN credentials with others. Sharing of VPN credentials will result in permanent loss of access to the lab.
- Lab Usage
 - No data, software or intellectual property that is not freely available to the community may be downloaded or stored in the lab.
 - No software may be downloaded or used in the lab without required licenses.
 - CMCC reserves the right to audit software and lab usage without notice and remove access of users who are not following the acceptable use policy
- Network Bandwidth:
 - Available bandwidth is limited and shared across all lab users, downloading excessively large files can interfere with other users, so the lab admin should be informed if users intend to download very large files or consume substantial bandwidth for any duration.



Thank You

Progress in CMCC Lab



Legend Done In process Plan

