

OPNFV: Road to Next Generation Network





COLLABORATIVE PROJECTS

Enriching Human Experiences Drives Network Evolution

Senses











Source: Ironma







Social Pictures



Social Video



Virtual Reality

Source: Minority Report



IoT

WHUAWEI

1G 2G

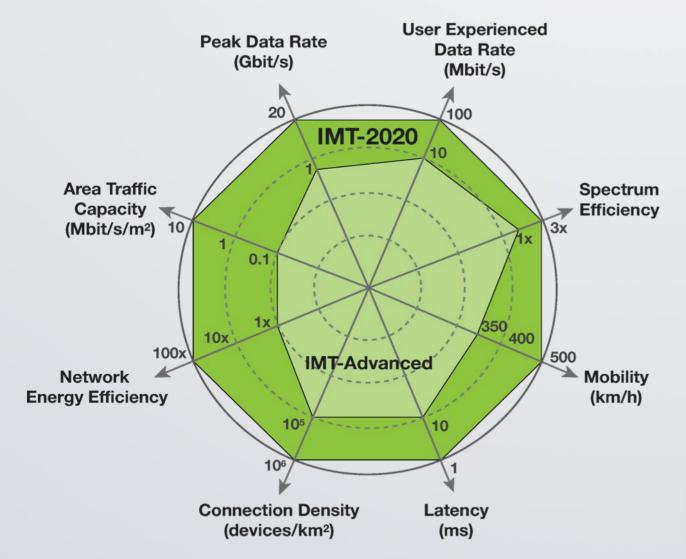
3G

4G

5G



ITU WP5D IMT-2020 Vision: 5G Key Features



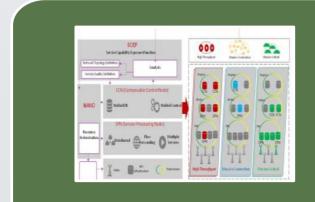
- Network slicing
- Cloudlet computing
 - <10 ms latency, high reliability</p>
- Flatter network and data center consolidation
- Flexible mobility
- Massive signaling and data demands

Details in: IMT Vision – "Framework and overall objectives of the future development of IMT for 2020 and beyond"

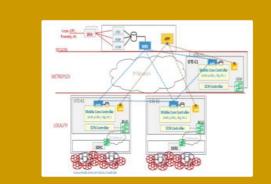




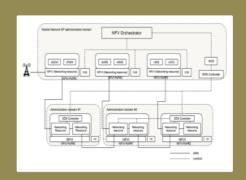
Building Blocks of 5G Network: Open is Fundamental



Flexible/Scalable Architecture



Flexible/Scalable
Data Distribution,
Synchronization, and
Mobility



Cloud, NFV, and SDN

Flexible Network that Enables Service Agility

Open Source Framework (OPNFV, ONOS, OpenStack, etc.)





OPNFV's Role

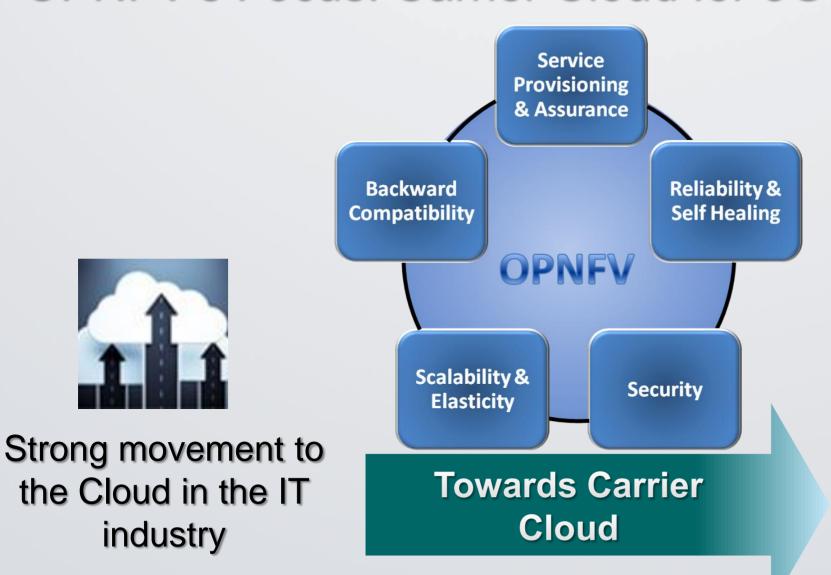
Speedup the adoption of NFV within the industry

Reference Carrier Cloud Platform

- Forum for industry consensus on current gaps in the NFV Platform
- Work together with upstream communities to close the gaps
- Deliver the recipe book on integration of upstream components and their recommended settings
 - Repository of needed upstream code
- OPNFV compliance



OPNFV's Focus: Carrier Cloud for 5G





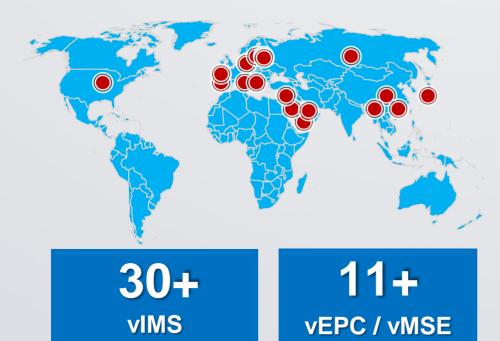




industry

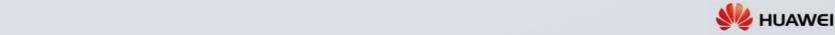
Huawei Leads Contributions in NFV

POC with Operators



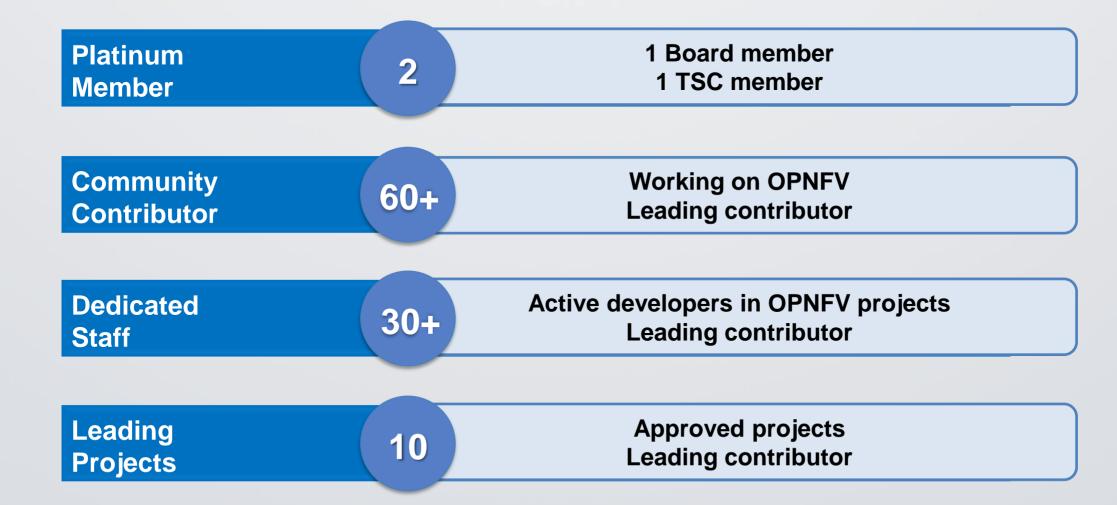
Standard ETSI NFV ISG Contributions 17% Huawei Operators 55% 28% Others • REL WG Vice Chair 236+ Industry

Contributions



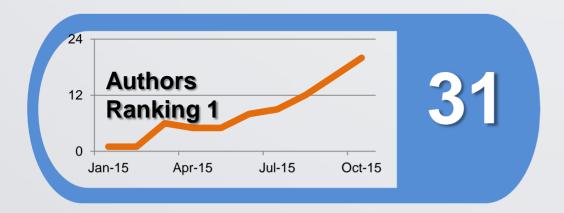
Engagement Officer

Playing a Key Role in OPNFV

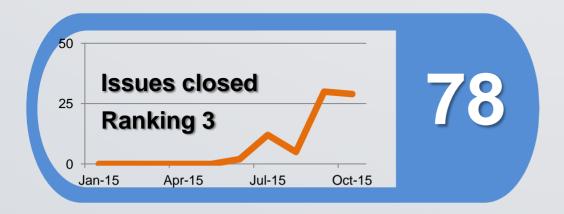


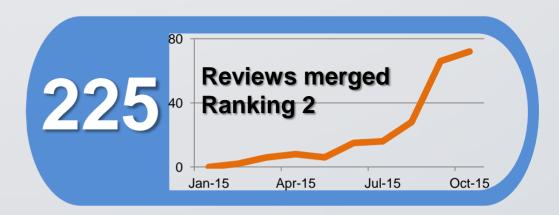


An Active Contributor to OPNFV









Source: bitergia



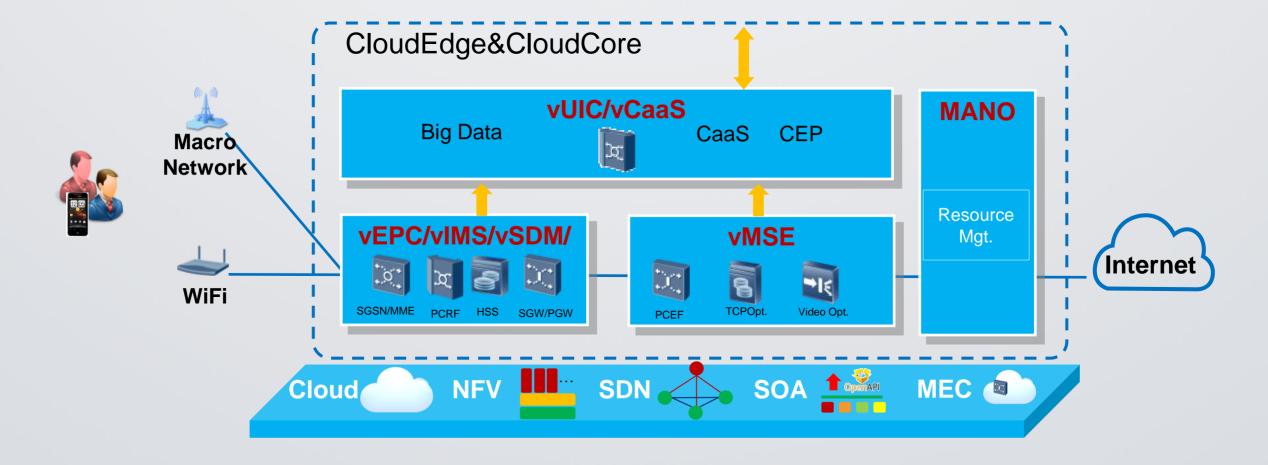


Huawei Provides Test Labs to the OPNFV Community



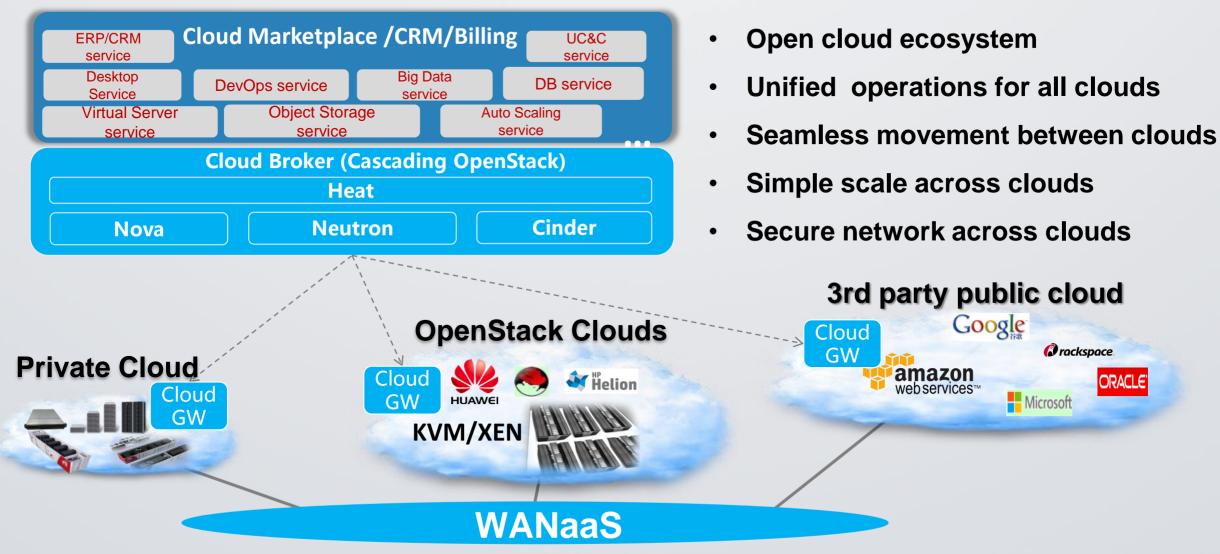


CloudEdge and CloudCore: Building upon OPNFV Framework





FusionCloud: 'Cloud over Clouds'





Huawei's Demos at the Summit

Compass for OPNFV.

 Compass is a Huawei leading open source installer and DevOps tool for OPNFV with advanced software architecture, friendly GUI and rich features

VNFs over OPNFV.

 Huawei's vEPC and vIMS components will run over the OPNFV platform with Huawei's MANO component.

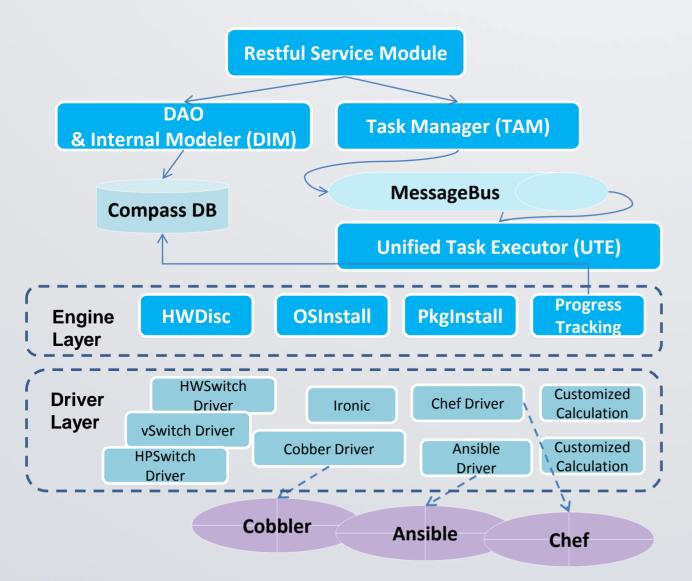
ONOS for OPNFV.

- A carrier grade open source SDN controller.
- An important option for carrier grade
 OPNFV platforms.





Compass on OPNFV



Better DevOps for OPNFV

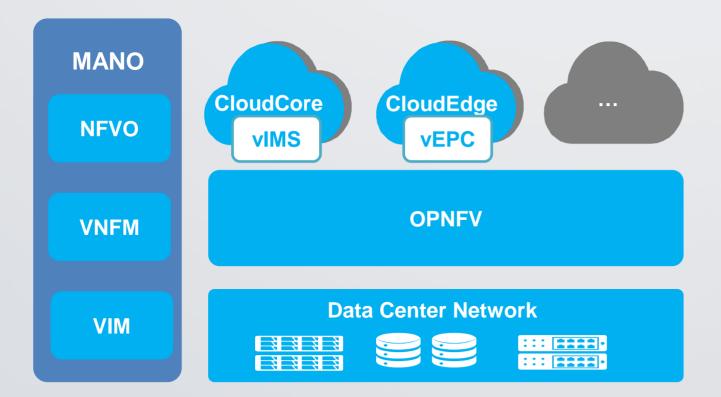
- Automated deployment of OPNFV Platform
- Automated management of OPNFV Platform
- Essential validation Capabilities

Demo Summary

- Deploy OPNFV on Bare Metal
- Deploy OPNFV on VM



Fully Support VNFs on OPNFV



Driving OPNFV to Commercial

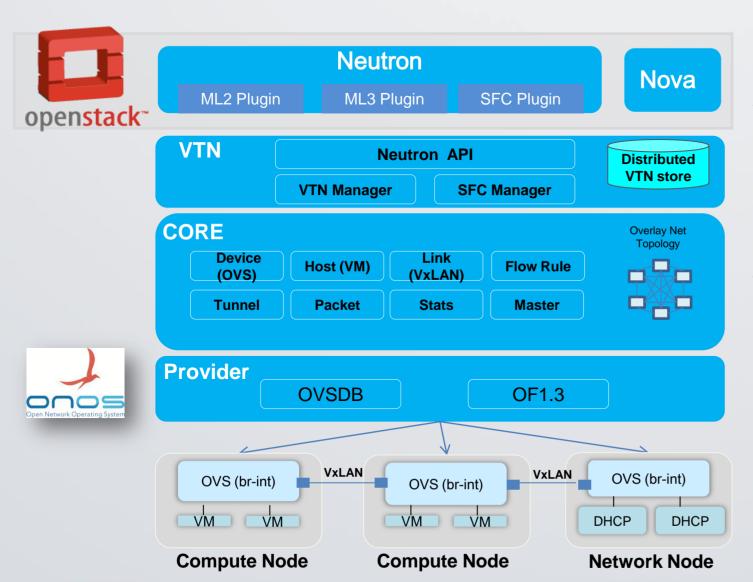
- Mature Solutions:
 - CloudCore
 - CloudEdge
- Fully Support on OPNFV Platform

Demo Summary

- Deploy VNFs on OPNFV
- Provide services by VNFs
- Graceful Scaling on OPNFV



VTN of ONOS on OPNFV



Provide

- Network Service
- OVSDB
- OpenFlow

Demo Summary

- ONOS performance evaluation
- ONOS high availability
- VTN manage & host live migration



THANK YOU

BUILDING A BETTER CONNECTED WORLD

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