



# Expanding Scope: Edge Computing Working Group Update

---



## David Paterson

Senior Principal Software Engineer  
Dell EMC

[david.paterson@dell.com](mailto:david.paterson@dell.com)



## Qihui Zhao

NFV Researcher & Network Engineer  
China Mobile Research Institute

[zhaoqihui@chinamobile.com](mailto:zhaoqihui@chinamobile.com)



## Shuquan Huang

Director of Solution Architecture  
99Cloud

[huang.shuquan@99cloud.net](mailto:huang.shuquan@99cloud.net)



## Shane Wang

Engineering Director of Cloud Software  
Intel

[shane.wang@intel.com](mailto:shane.wang@intel.com)



## Gergely Csatari

Senior Specialist, Open Source  
Nokia

[gergely.csatari@nokia.com](mailto:gergely.csatari@nokia.com)



## Ildiko Vancsa

Ecosystem Technical Lead  
OpenStack Foundation

[ildiko@openstack.org](mailto:ildiko@openstack.org)

---

## Scope for the OSF Edge Computing Working Group

- ➔ Identify use cases and scenarios related to edge computing
- ➔ Focus on challenges and solutions in the IaaS layer
  - Find common requirements
  - Define common edge computing architectures
  - Design and implement
    - Enhancements to existing projects and services to provide a better fit for edge
    - New projects and services to implement missing functionality
- ➔ Emphasize the importance of open infrastructure
- ➔ Encourage industry-wide collaboration
- ➔ Whitepaper: <https://www.openstack.org/assets/edge/OpenStack-EdgeWhitepaper-v3-online.pdf>

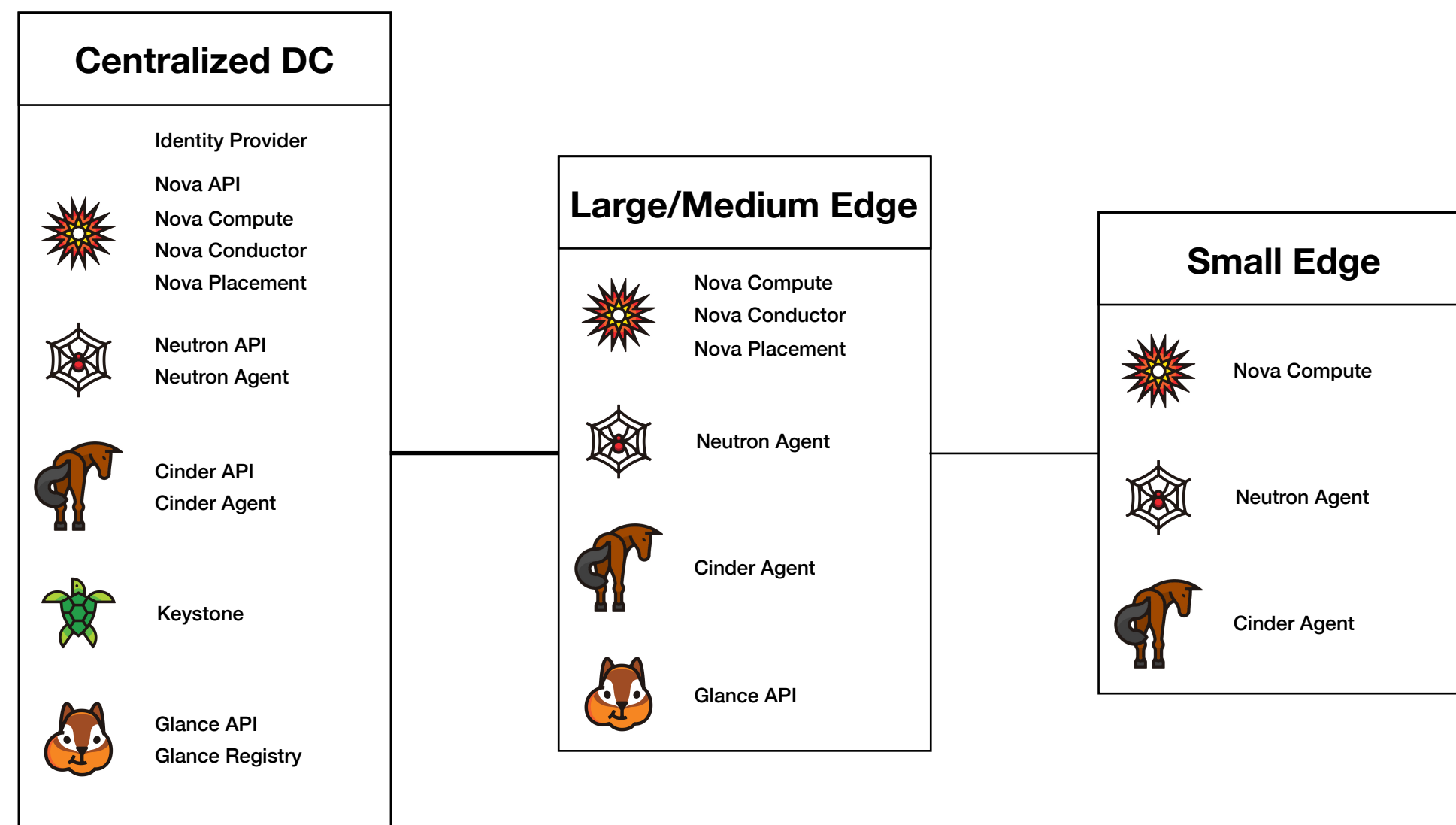
# Collaboration

- ➔ Wiki: [https://wiki.openstack.org/wiki/Edge\\_Computing\\_Group](https://wiki.openstack.org/wiki/Edge_Computing_Group)
- ➔ [Weekly calls](#)
  - Zoom calls in alternating time slots
- ➔ [Mailing list](#)
- ➔ IRC - #edge-computing-group on Freenode

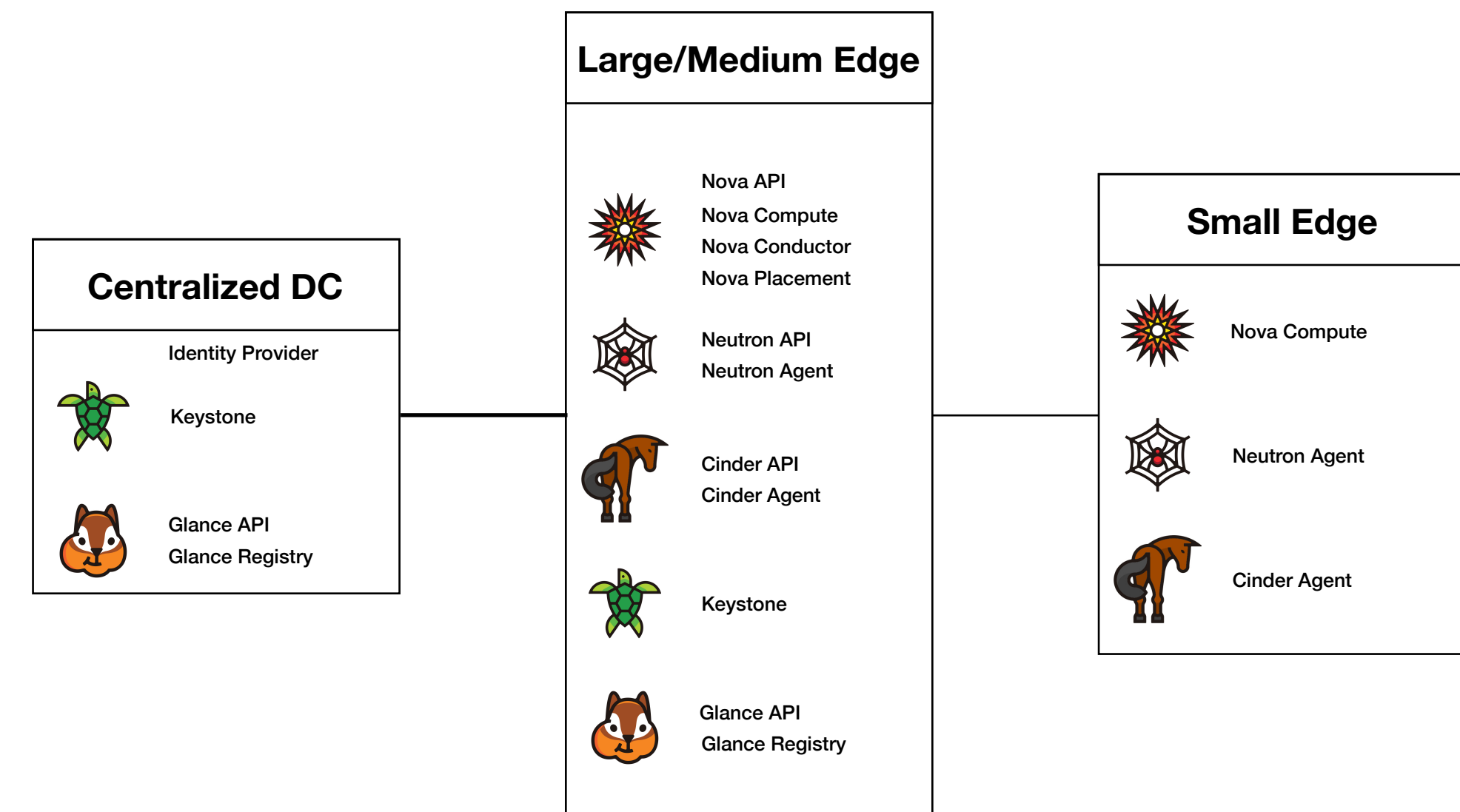


# MVP Reference Architectures

## Centralized Control Plane



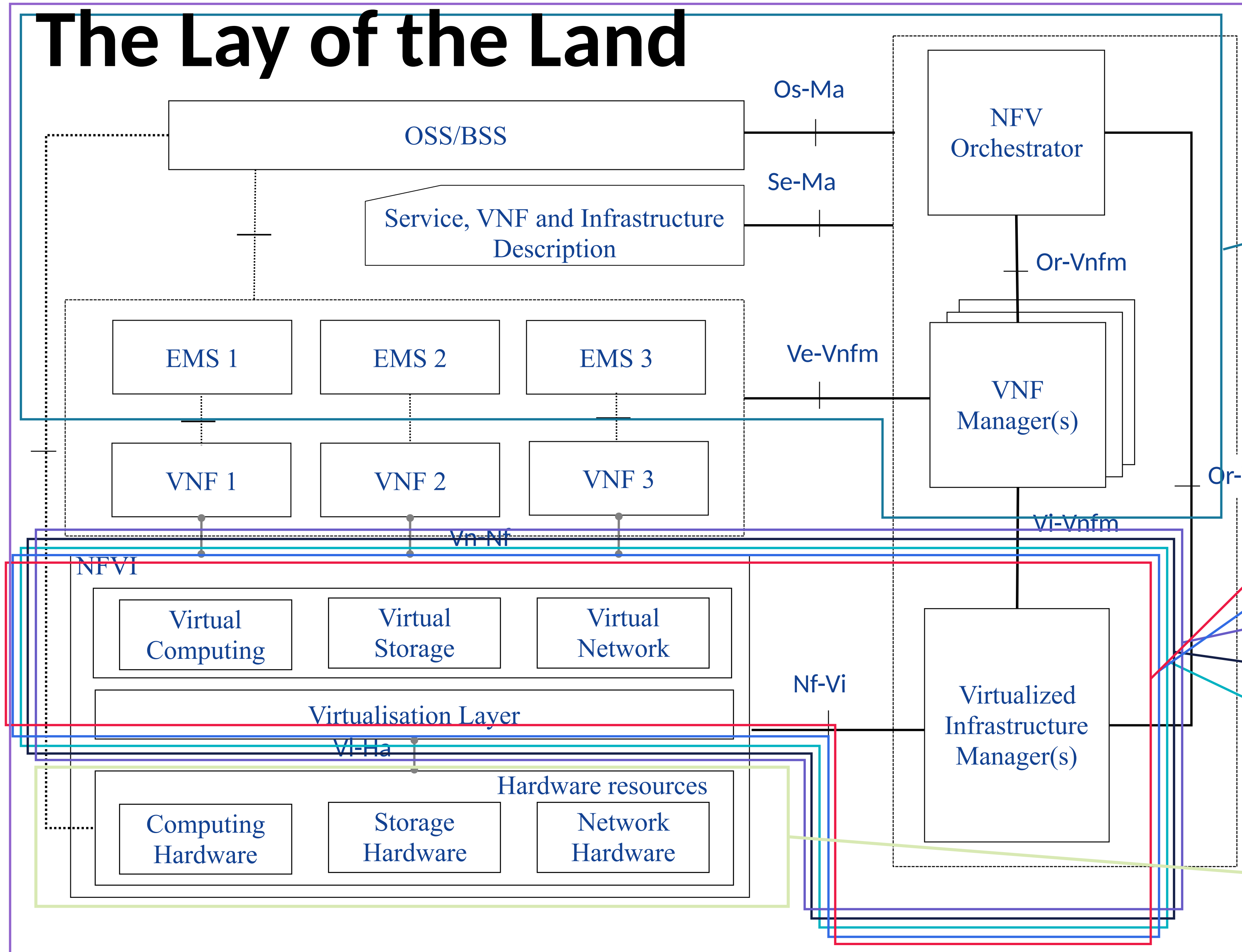
## Distributed Control Plane



## Some Relevant Open Source Projects

- OpenStack: Cyborg, Glance, Keystone
  - IoTronic – unofficial, Airship, StarlingX
- Adjacent communities
  - Linux Foundation EDGE Projects
    - Akraino
    - EdgeX Foundry
    - Project EVE
    - HomeEdge
    - Glossary
  - ONAP Edge Automation Group
  - OPNFV Edge Cloud Project
  - Kubernetes IoT Edge Working Group
- Adjacent communities
  - OpenEdge based on Baidu's existing Intelligent Edge (BIE)
  - MEF Projects
  - ETSI Projects
  - OpenCompute
  - And more all the time.....

# The Lay of the Land







## David Paterson

Senior Principal Software Engineer  
Dell EMC

[david.paterson@dell.com](mailto:david.paterson@dell.com)



## Qihui Zhao

NFV Researcher & Network Engineer  
China Mobile Research Institute

[zhaoqihui@chinamobile.com](mailto:zhaoqihui@chinamobile.com)



## Shuquan Huang

Director of Solution Architecture  
99Cloud

[huang.shuquan@99cloud.net](mailto:huang.shuquan@99cloud.net)



## Shane Wang

Engineering Director of Cloud Software  
Intel

[shane.wang@intel.com](mailto:shane.wang@intel.com)



## Gergely Csatari

Senior Specialist, Open Source  
Nokia

[gergely.csatari@nokia.com](mailto:gergely.csatari@nokia.com)



## Ildiko Vancsa

Ecosystem Technical Lead  
OpenStack Foundation

[ildiko@openstack.org](mailto:ildiko@openstack.org)



# Thanks



@OpenStack

