Cisco Virtualized Infrastructure Manager

Prepare for the 5G Era with Cisco 5G support

MIG Technical Marketing & Product Management

Sept 2020

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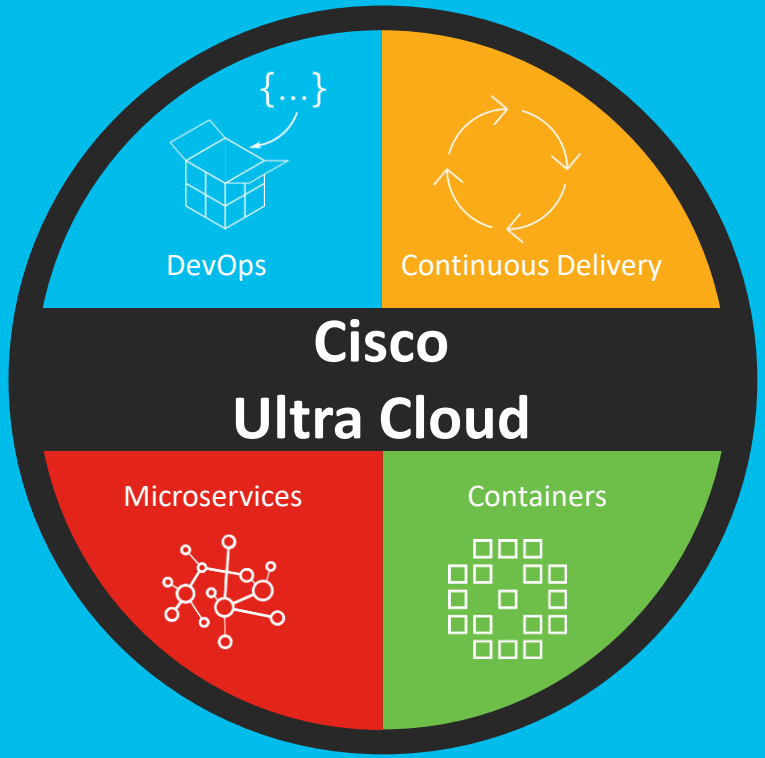
Cisco Ultra Cloud 5G Architecture

An evolutionary jump, delivering advanced automation, higher resiliency, greater security, and deployment simplicity into the Service Provider infrastructure.

Cloud Native – Key Benefits for 5G

Translates to:

- Easier upgrades
- Faster Time to Market
- Faster Security Responses
- True scalability



Cloud Native 5G Tenets

Microservices

- Immutability, config is code
- Modular, loosely coupled software services
- Individually deployed and lifecycle managed

Kubernetes

- Declarative management
- Automated scheduling and scaling

Continuous Delivery

- Automated continuous integration, validation and availability of containers

DevOps

- Automate and manage rapid deployments
- Isolate production changes and deploy once validated

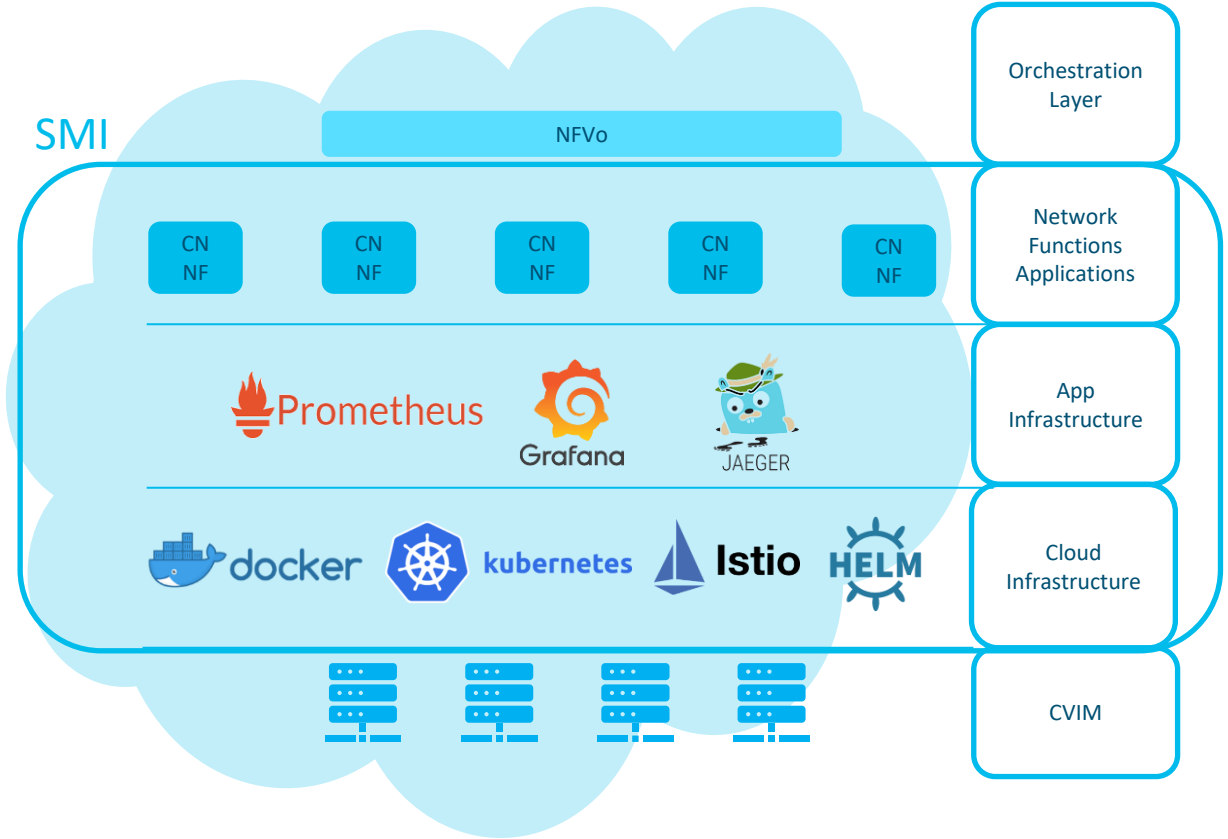
Cisco Cloud Native Platform

Subscriber Microservices Infrastructure (SMI) over Cisco Virtualized Infrastructure Manager (CVIM)

Vertical stack designed specifically for high performance, low latency, GeoHA applications.

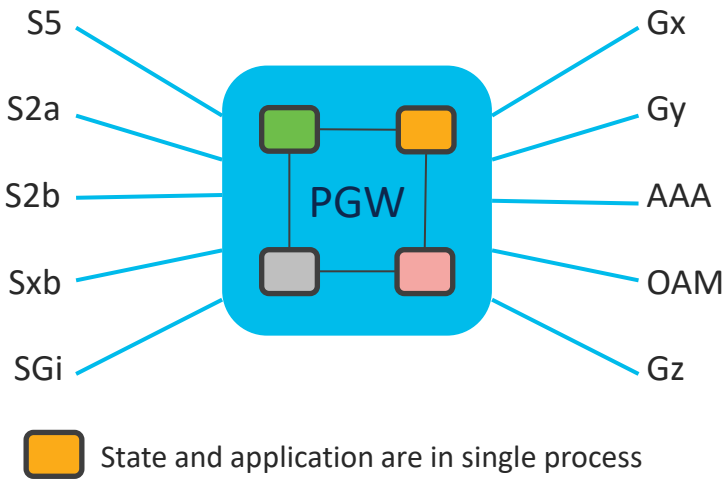
Validated Kubernetes ecosystem and integrated utilities – deployed as private, on-prem cloud.

Full lifecycle of hardware and software comprising your infrastructure.

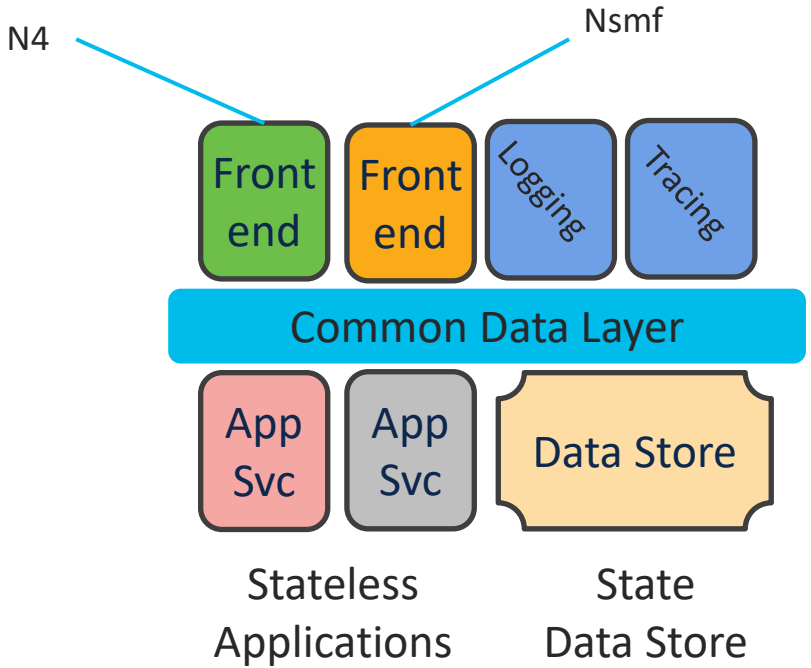


Cloud Native – 5G Software Separation

Monolithic Software



Microservice Container Software



SMI over CVIM: Beyond just integrating open source

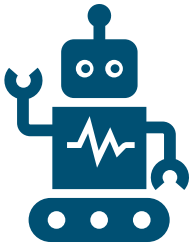
SMI Cluster Manager	NF Ops Center(s)	CEE	Cisco Service Mesh	5G DB
Manages pod deployments in cluster, configuration, health monitoring, resource scheduling, and life cycle management	Common API for deployment, configuration, and management, to enable automation	Common Execution Environment shared by all applications for non-application functions (data storage, telemetry, alarming)	Intelligent Service Mesh to connect microservices and containers for applications and CEE	Common data layer built specifically for high performance, low latency applications like 5G and Cable

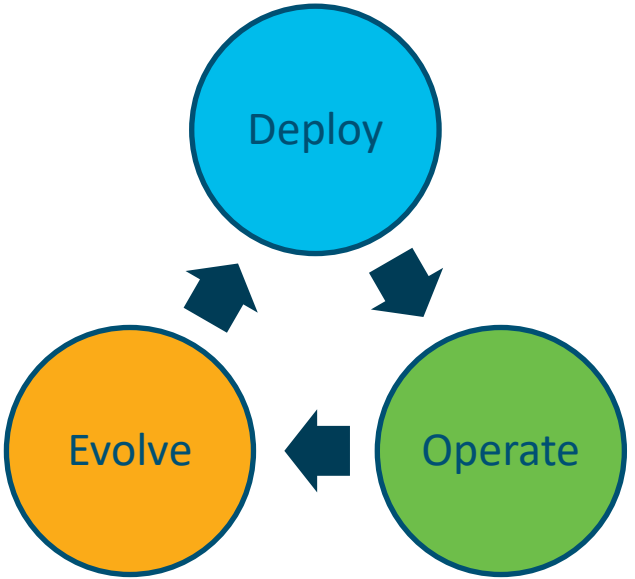
CVIM at-a-glance

Telco cloud platform that can be used to ...

... through automation and focus on lifecycle

Grow Revenue

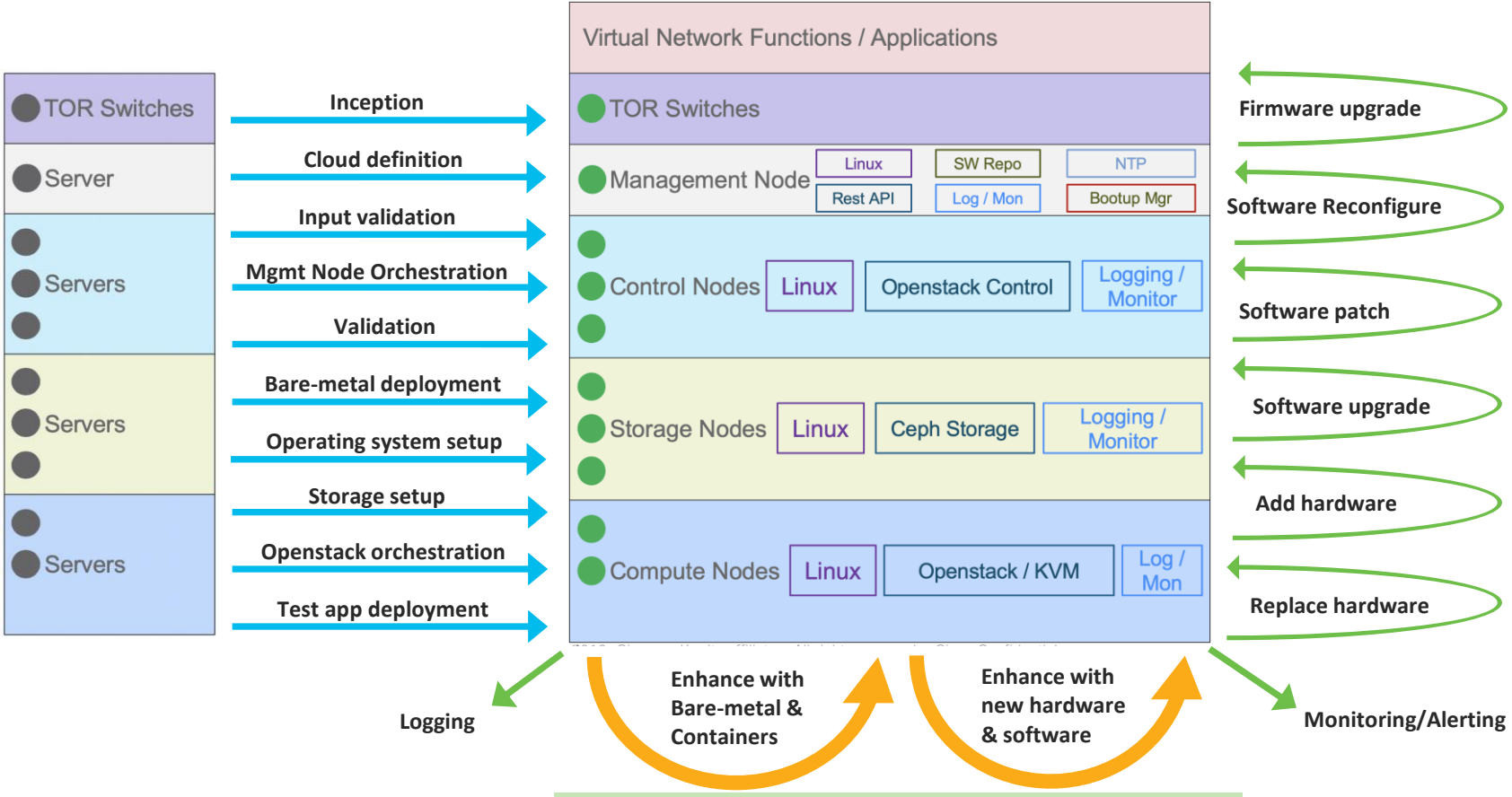




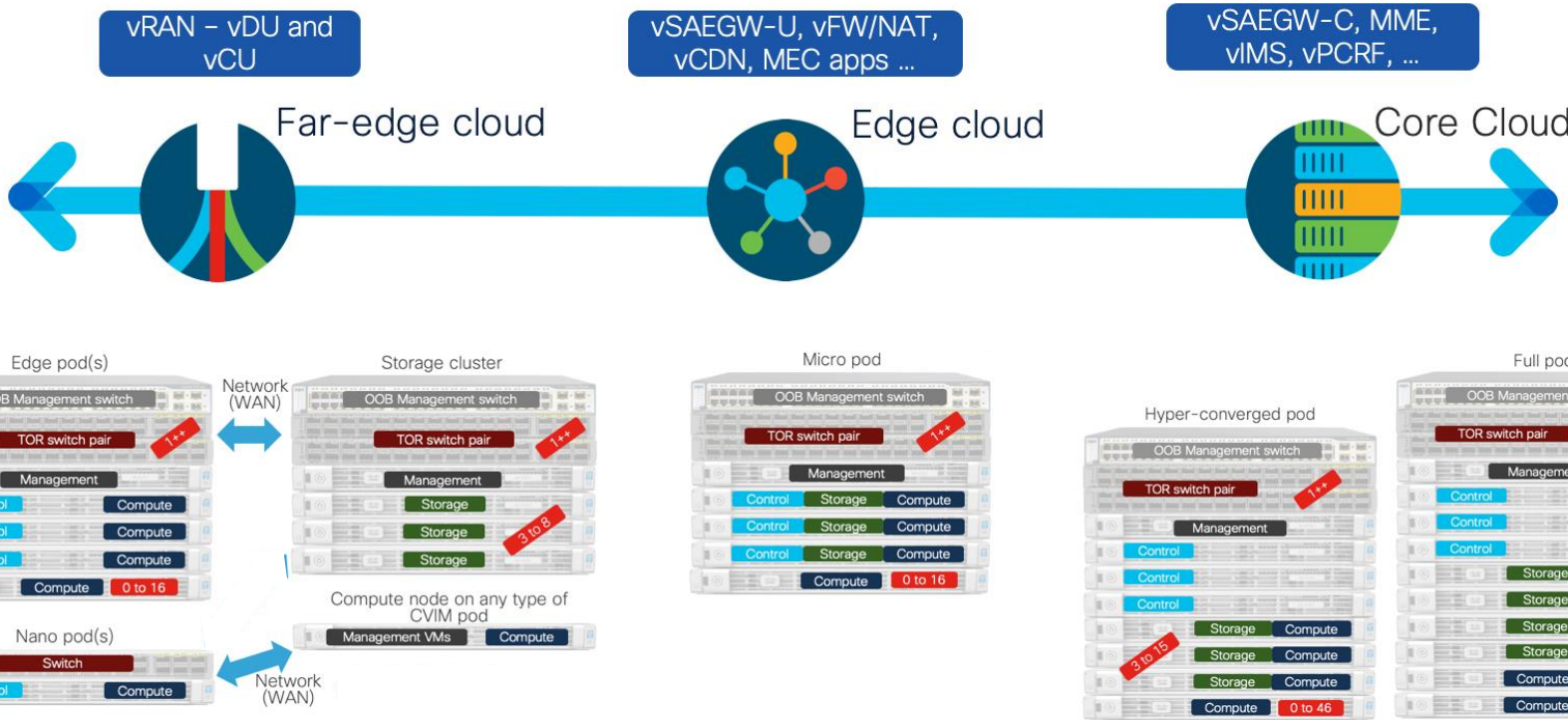
Reduce Costs

Mitigate Risk

CVIM : Deploy → Operate → Evolve

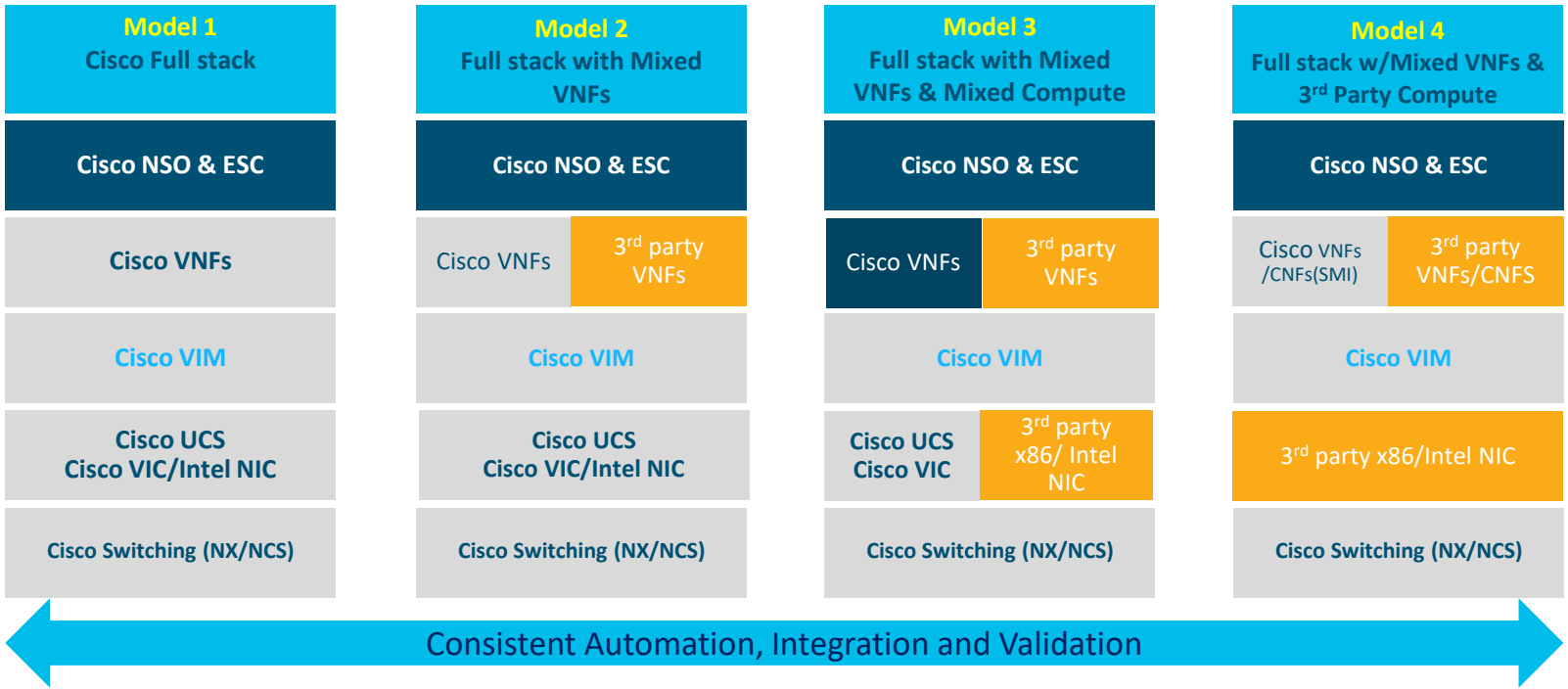


CVIM Pod Types



← Small optimized form factor with specialized hardware ... Large form factor with standard hardware →

Cisco VIM – Open Platform



Thank You!