Chunghwa Telecom MEC Solution and Applications
SDDC & MANO ECoreCloud

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Differentiate the service levels for 5G

Cloud & VNF Orchestrator

- Multi-view Live Streaming
- IOC
- Smart Agriculture

5G Intelligent A+ (CHT MEC)
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- IOC
- Smart Agriculture
- MEC
- Edge Cloud
- Core Cloud
- Internet

5G Intelligent A+ (CHT MEC)
- **NFV MANO (ECoreCloud) + SDN controller (NAPA)** automatically deploy/scale VNF (Mobile Edge Enabler, Enterprise on-demand service, IDS, IOC) → Edge DC 5G intelligent A+
- Each service is carried in various slice
  - eMBB&URLLC slice is served by edge DC
  - mMTC slice is served by internet
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Without local break out
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Cloud & VNF Orchestrator - ECoreCloud

- **Mobile Edge Enabler (Local break out VNF)**
  - EMS VM
  - CP VM
  - DP VM
  - vDC 1

- **IOC**
  - IOC App VM
  - vDC 2

- **CDN**
  - CDN App VM
  - vDC 3

- **NFVI (X86 server)**

- **Cloud & VNF Orchestrator**
  - NFVO
  - VNFM
  - VIM

1. Onboarding VNFs
2. Instantiate vDC & VNF
3. Provision virtual link

- vDC: virtual data center
- VNF: virtual network function
- VM: virtual machine
- App: application
- NFVO: network function virtualization orchestrator
- VNFM: virtual network function manager
- VIM: virtual infra. manager
- NFVI: network function virtualization infra.
Virtual data center management by Cloud & VNF Orchestrator (ECoreCloud)
VNF operation and monitor by Cloud & VNF Orchestrator (ECoreCloud)
NFVI resource management by Cloud & VNF Orchestrator (ECoreCloud)
Key Takeaways

IaaS: Infrastructure as a Service
PaaS: Platform as a Service
VDC: Virtual Data Center
VPC: Virtual Private Cloud

- Rapidly provide software development and deployment environment
- Automate end-to-end cloud resource provisioning and monitoring
- Control and manage cloud resources across multiple DCs and hypervisors
- Leverage SDN/NFV technology to automate network management
- Integrate with disaster recovery solutions
Thank You!