

Towards CloudNative, Embrace the future of all

cloud

NFV is getting maturing, focusing on 4 main cases





NFV deployment and evolve direction





Maximize NFV potential based on Cloud Native

intelligent

automatic

0&M

Kit



Robust : High reliability independent of the infrastructure 99.9% Infrastructure, 99.999% service reliability

Elastic : service lossless Service lossless Scaling, Resource Ondemand

Efficient : Automatic and intelligent O&M Cross - layer analysis, fault locate, and recovery

Agile : Lego style service composition

TTM from "month" to "week", trying new service quickly with low cost



Introducing key technology considering the business value as the core target





Stateless Design : The Foundation Of Robust, Elasticity And Agility





CI/CD : The effective way to improve the efficiency under multi-vendor environment





Automatic O&M : The necessary means to deal with decoupled environment

Decouple and layered system makes OM complex



OM complexity grows exponentially along with the network scale OPEX _____/





Key capability :

- Cross layer、Cross DC、Cross service, unified management of the whole network
- Fault prediction proactively and real-time recovery
- Cross layer alarm analysis, correlation and fault locating
- Big data based orchestration and optimization



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Construct agile ability future 5G service oriented





Micro service : service architecture is key point, "Micro" must consider the service characteristic



- Smaller granularity scaling
- Pros • More loosely decoupling may improve agility
 - More independent of develop, release, deployment



Stateless distributed service based architecture



	Further "Micro" Principle
ange	• Such as IoT, enterprise, policy control, video
	services must be further "micro"
asic	• Periovoire data comica qual as EDC INC must
rvice	be further "micro" in pace with 5G
ture	
rvice	 Such as 2G/3G MSS、STP, may be further "micro" if clear value is seen



Container : may coexist with VM in different application scenario



Multiple deploy mode, choose according to different scenario







Cons : weaker security, better to cooperate with micro service



DevOps : Fully consider the difference between CT and IT





Huawei is actively exploring and practicing 5G





Huawei NFV solution win the best technology enabler prize of GSMA

2017 IMS2017 Globe PolicyWorld ForumControl Conference

Best vSBC solution

Best vPCRF operation architecture Best 5G Core Development

5G World

2017







Huawei NFV solution win

2017 MWC "best technology enabler"



https://www.globalmobileawards.com/best-technology-enabler



Summary : Towards CloudNative, Embrace the future of the all cloud

- The rapid developing new IT technology, which Cloud native is the representative, shall be introduced into the telecom domain, with the consideration of business essential
- The introduction of new technology must fully consider the different SLA requirement, application scenario, developing and operation mode of telecom service from IT





Thank You.

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