COMS Architectural Design Enablers & Artefacts -I

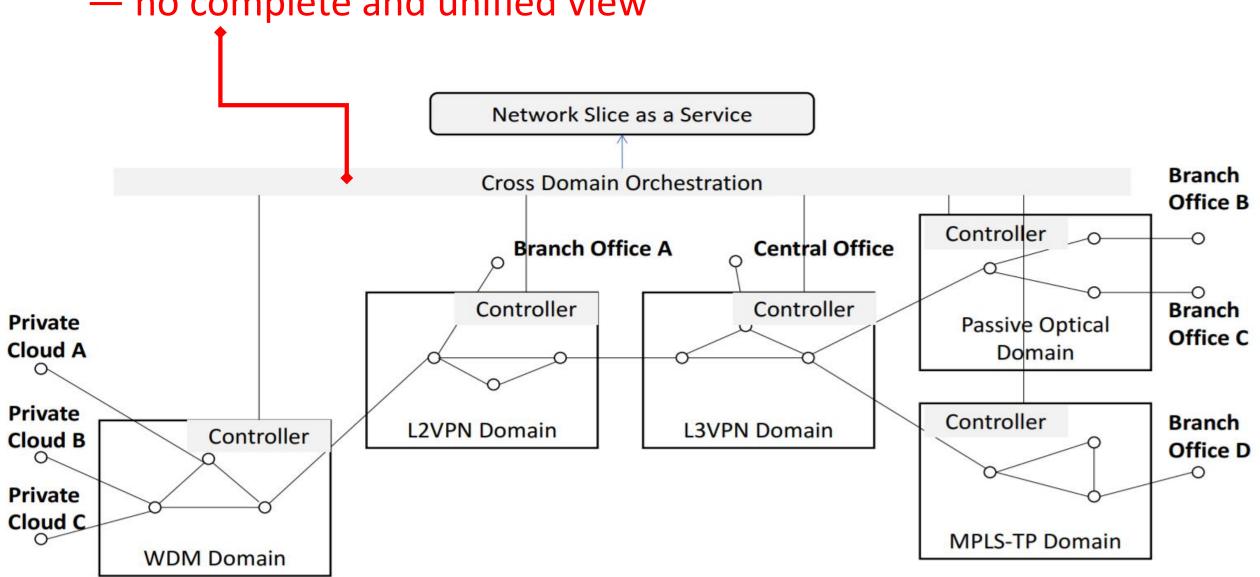
COMS Technology Independent Information Model

draft-qiang-coms-netslicing-information-model-02

Cristina QIANG - Huawei

What can we see at this layer?

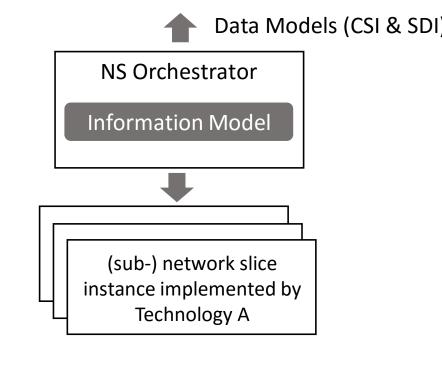
no complete and unified view



COMS Information Model describes what network slice looks like, independent of NS implementation technology

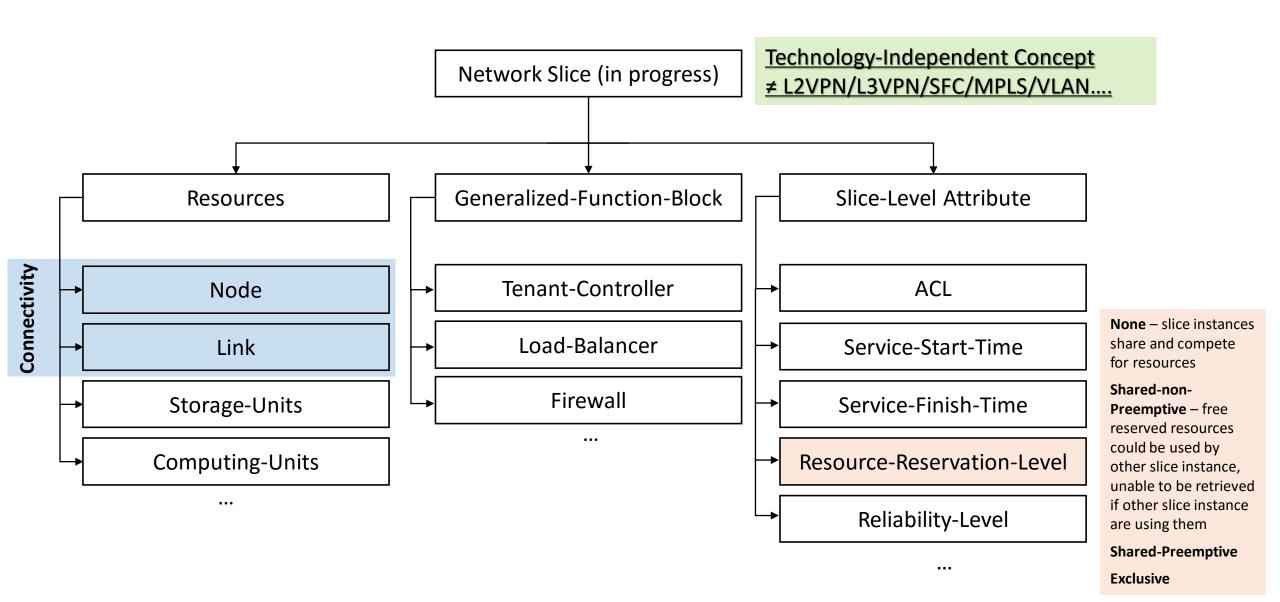
- used in providing a complete slice view in cross-domain scenarios
- used in the mapping to different implementation technologies at data-plane
- used to enable the design of data models

nformation Model (Apartment)				
Attribute Entity	Material	Color	Price	
Desk	Int 8 (1-wood, 2-metal,)	(Float R, Float G, Float B)	Float	
Light	String 32	String 32	Enum (1-0~100, 2-100~200,)	
Sofa	String 64	Int 8 (1-white, 2-black,)	String 64	
	Data Mod			



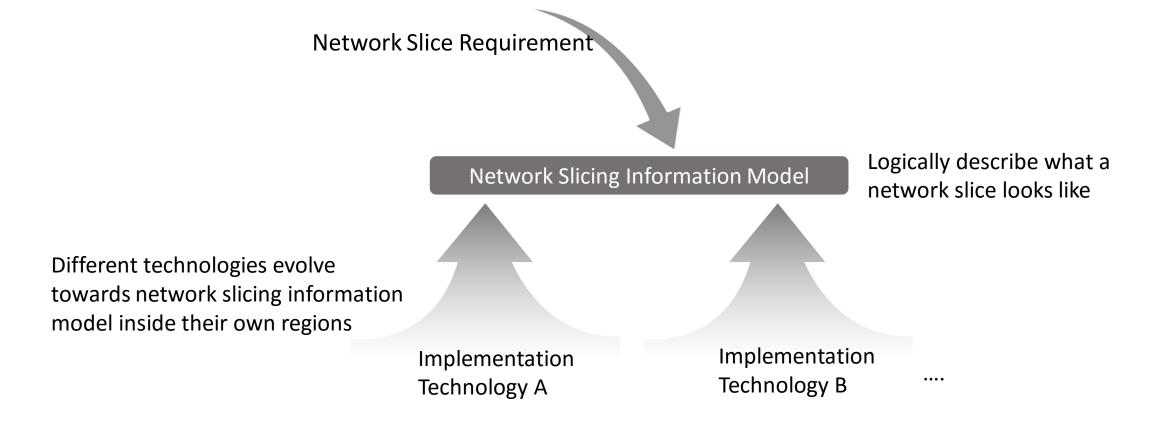
Information Model will be followed by data models (**C**ustomer **S**ervice **I**nterface & **S**ervice **D**elivery **I**nterface) as a next step

Various languages to describe the information model – UML, Yang, Pseudocode, Plain Text, etc.



Conclusion

- Provide a complete slice view in heterogeneous network infrastructures
- NS Top-down and Bottom-up approaches converge at Information Model



Thank You

Network Slice Service Profile

* Common Information Model *
* . ~~~~~ T(A->B)<=10ms; B(A->B)>=10M
* . ~~~~~ *
* . T(A->C)<=20ms; B(A->C)>=10M
*
* +
* Split Service Profile into Domains *
*
* .
* T(A->E)<=2ms . T(E->C)<=18ms S(C)=2G . * * B(A->E)>=10M ~~~~~ B(E->C)>=10M ~~~~~~ . *
* .
* +
* ++ * * Select Specific Implementation Technologies *
*
^
* ++ * * Map to Selected Technologies *
* ++ * ****************************
* Resources inside * * Resources inside * * * Domain 1 * * Domain 2 * *********************************