

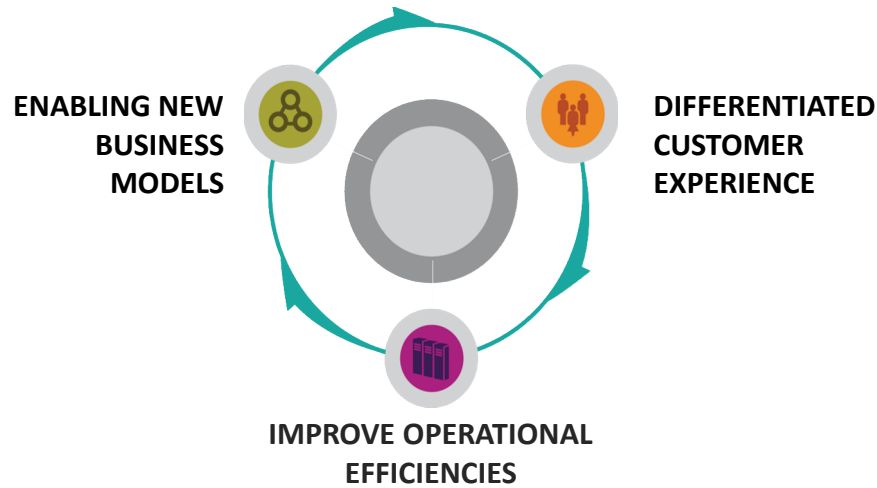
# ETSI ISG NFV Information Model Workshop - Overview



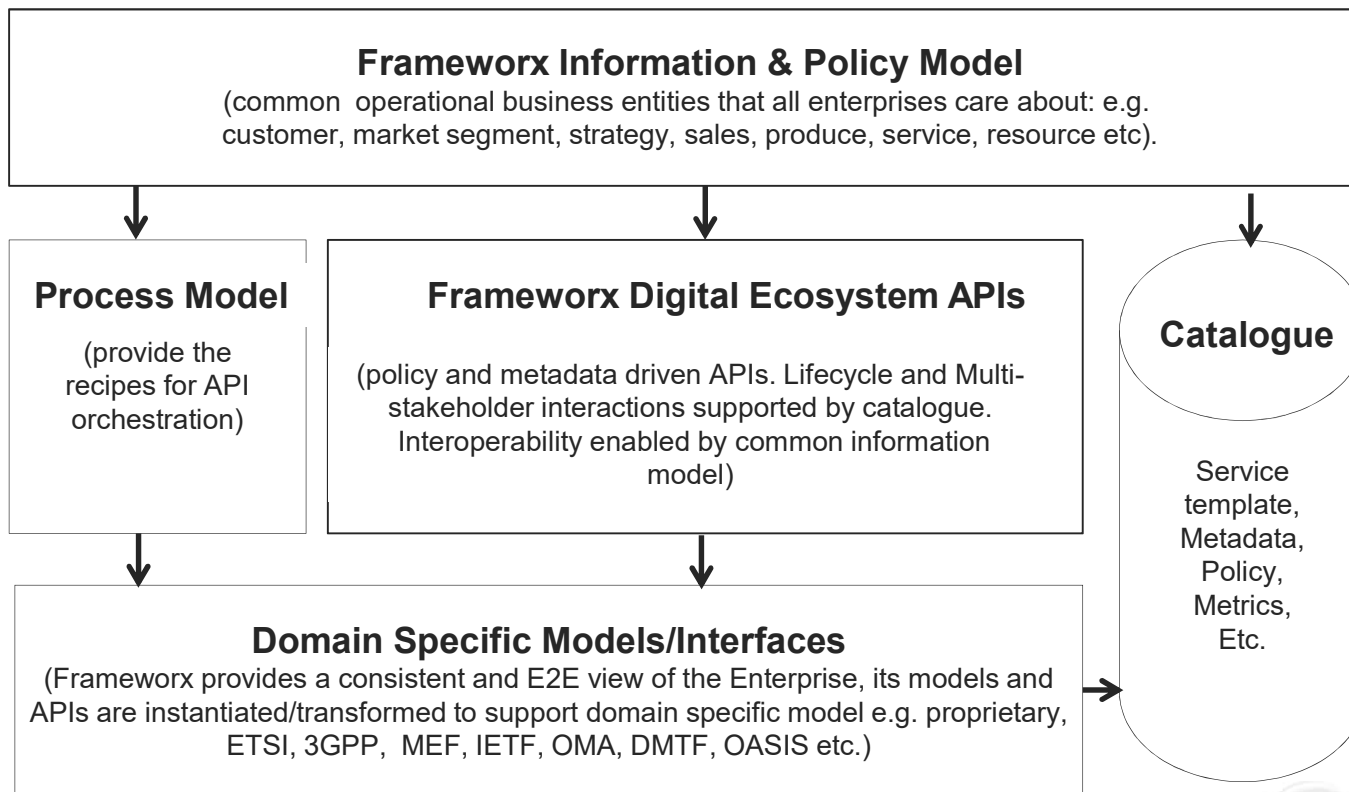
Kenneth Dilbeck TMF  
Jean-Marie Calmel ALU



# Role of TM Forum Information Framework



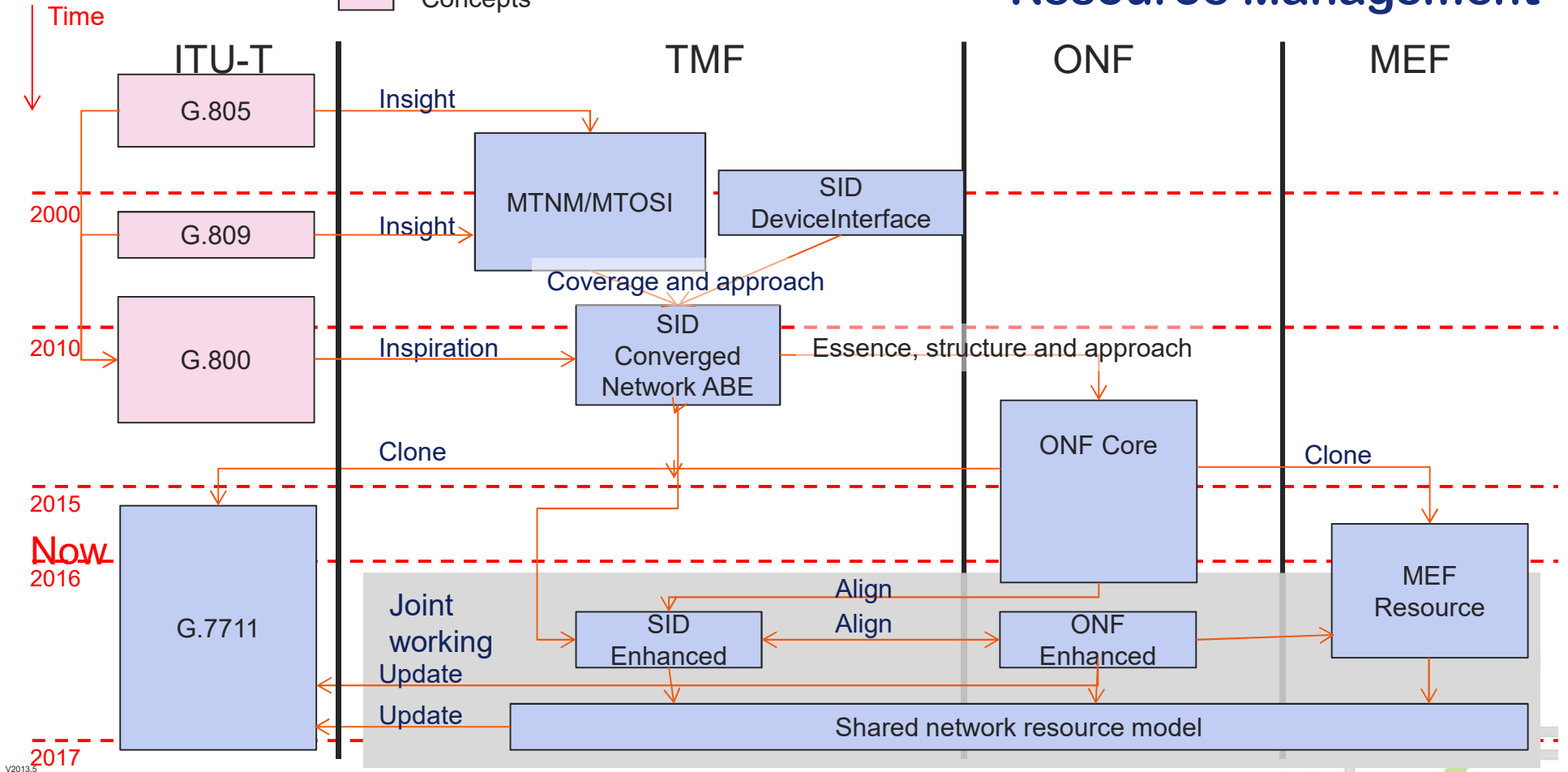
# TM Forum Approach: Federated Standards via IM and APIs



3



# Collaboration with ONF & MEF, Example Resource Management



## For this workshop

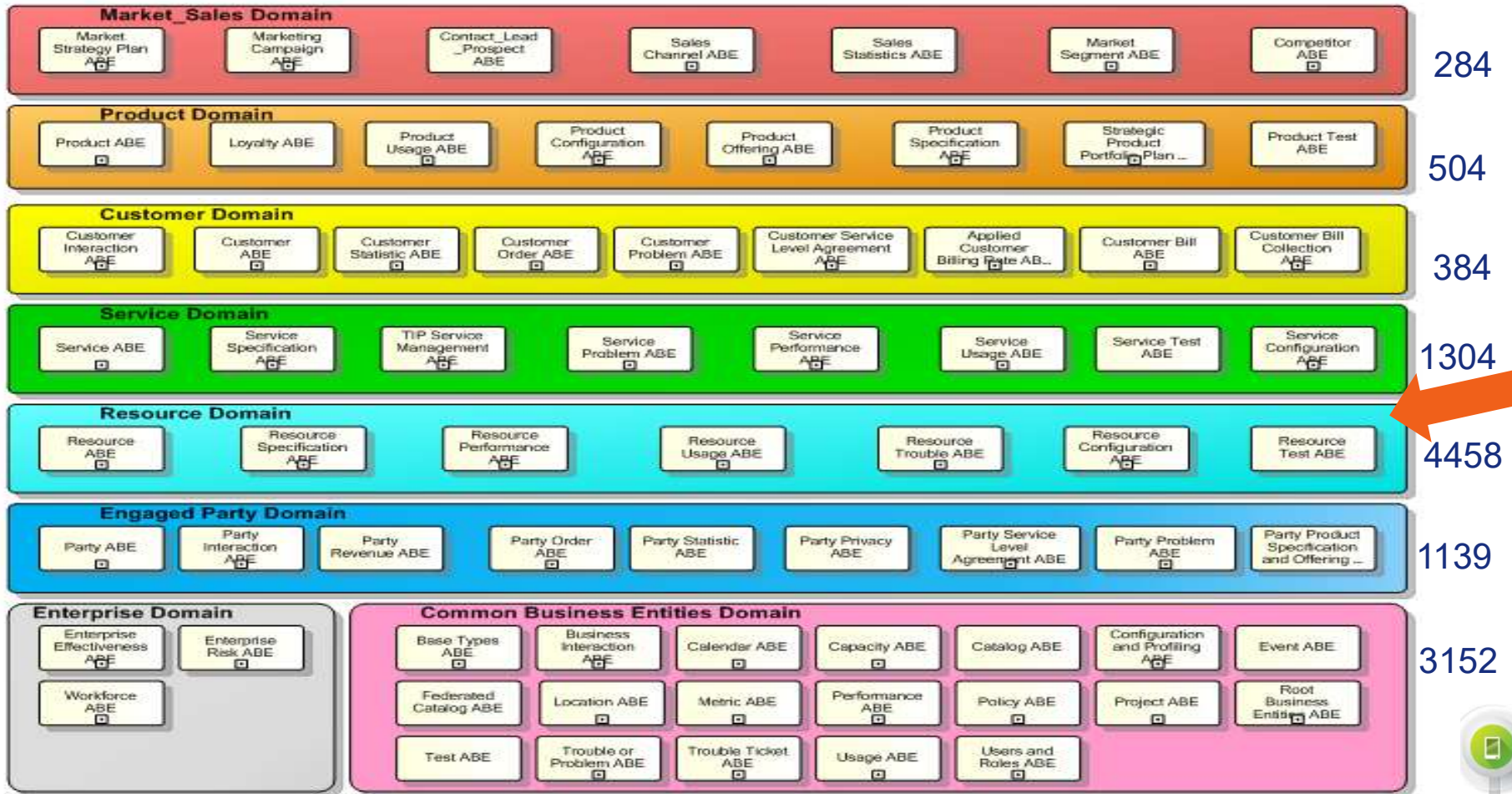
### From the Information Framework

- **GB922 Logical and Compound Resource R14.5.1 (GB922-5LR Annex)**  
<https://www.tmforum.org/resources/standard/gb922-logical-and-compound-resource-r14-5-1/>
- **GB922 Logical and Compound Resource – Computing and Software R13.5 (GB922-5LR Annex)** <https://www.tmforum.org/resources/standard/gb922-logical-and-compound-resource-computing-and-software-r13-5/>
- **GB922 Umbrella Information Models R15.0.0**  
<https://www.tmforum.org/resources/suite/gb922-umbrella-information-models-r15-0-0/>
- **TR244 TM Forum Information Framework Enhancements to Support ZOOM R15.0.1**  
<https://www.tmforum.org/resources/technical-report/tr244-tm-forum-information-framework-enhancements-to-support-zoom-r15-0-0/>

### From the APIs:

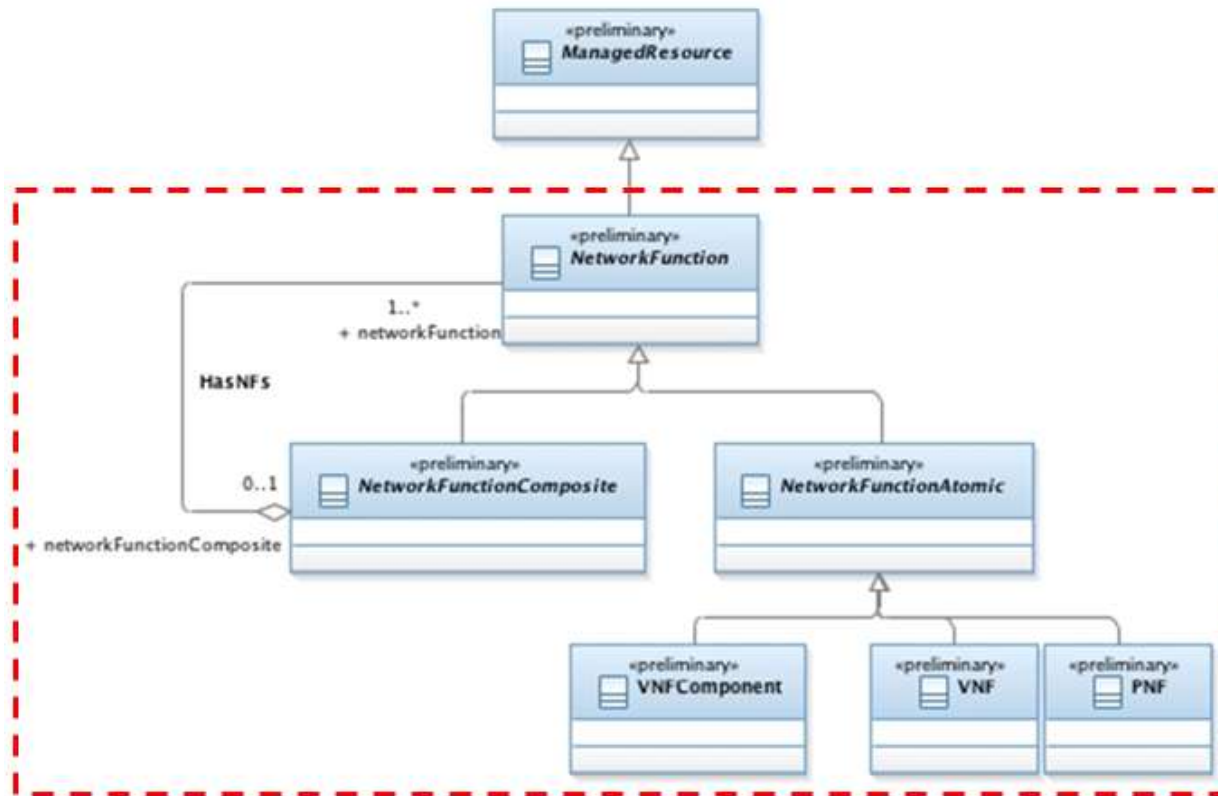
- The REST and TIP API suite <https://www.tmforum.org/strategic-program/apis/>



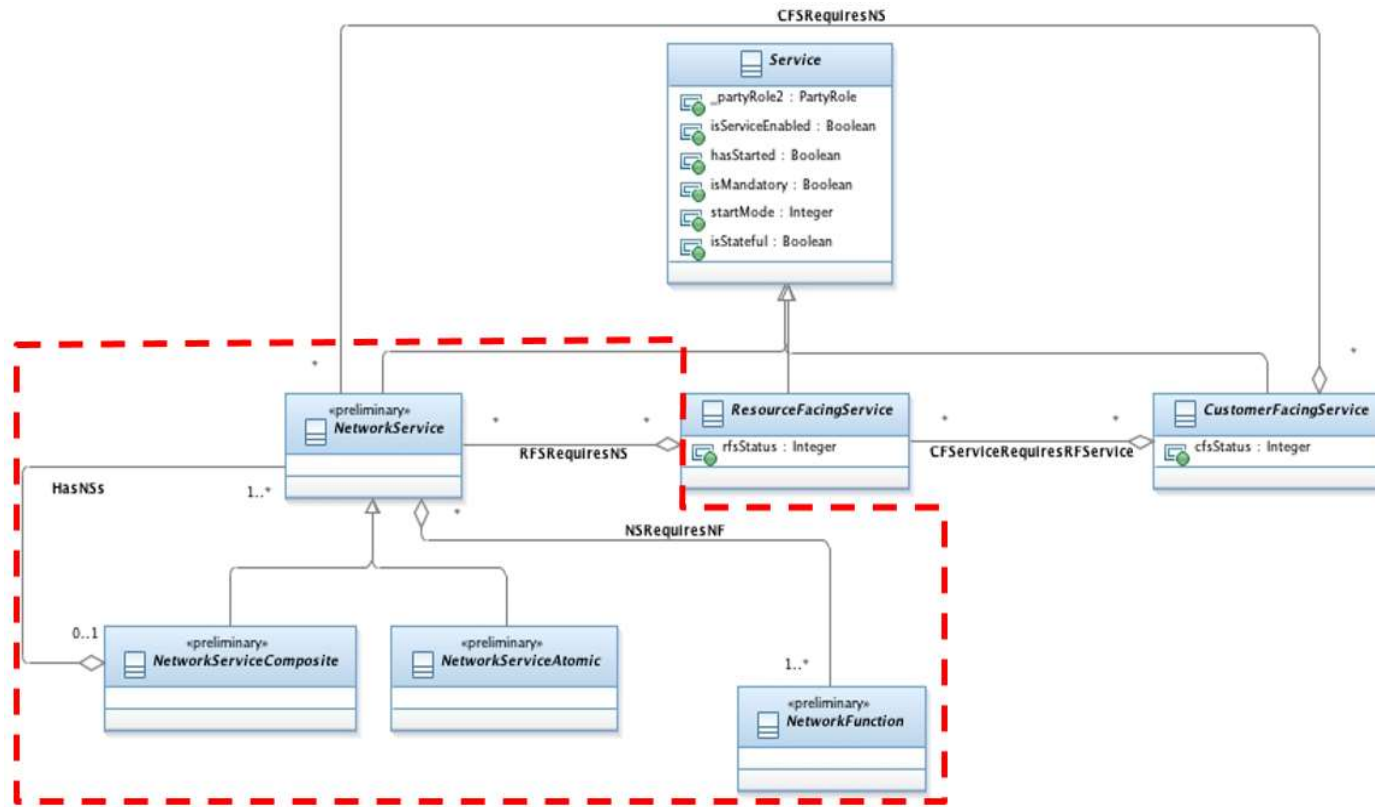


\*numbers are count of ABEs, Entities & Attributes per Domain

# Introduction of the NetworkFunction Class Hierarchy

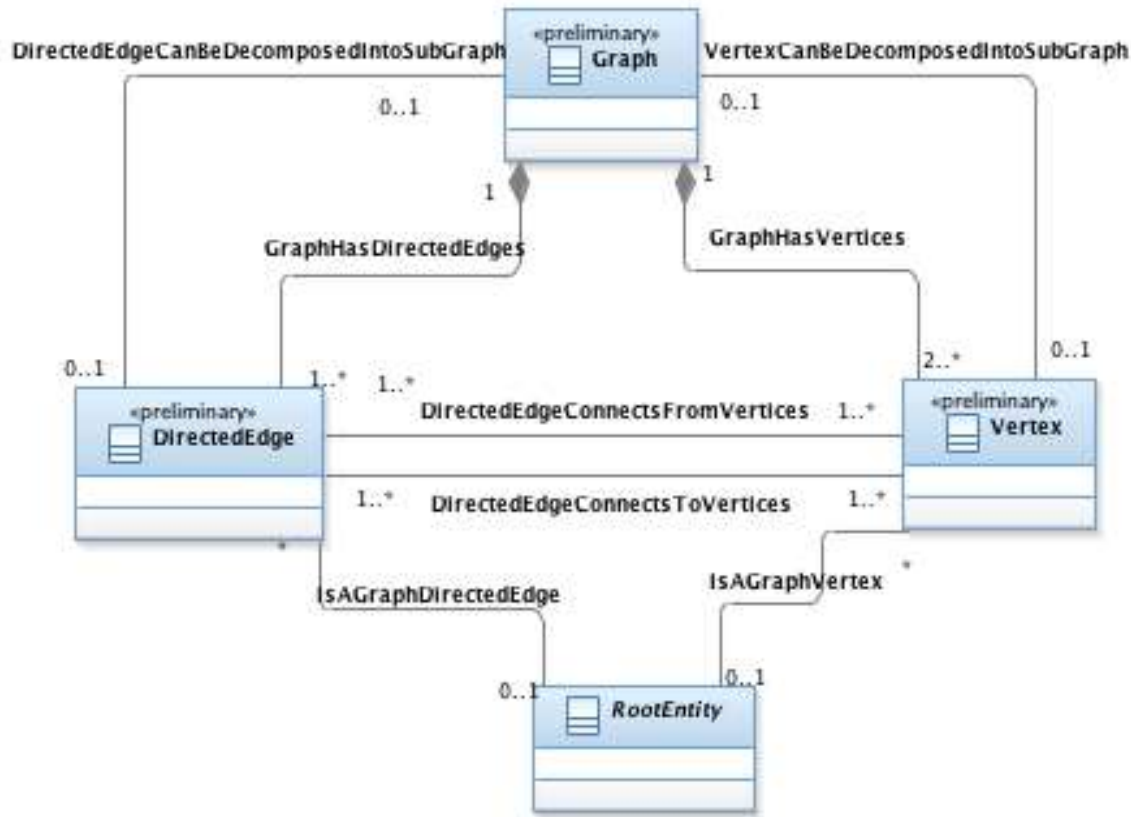


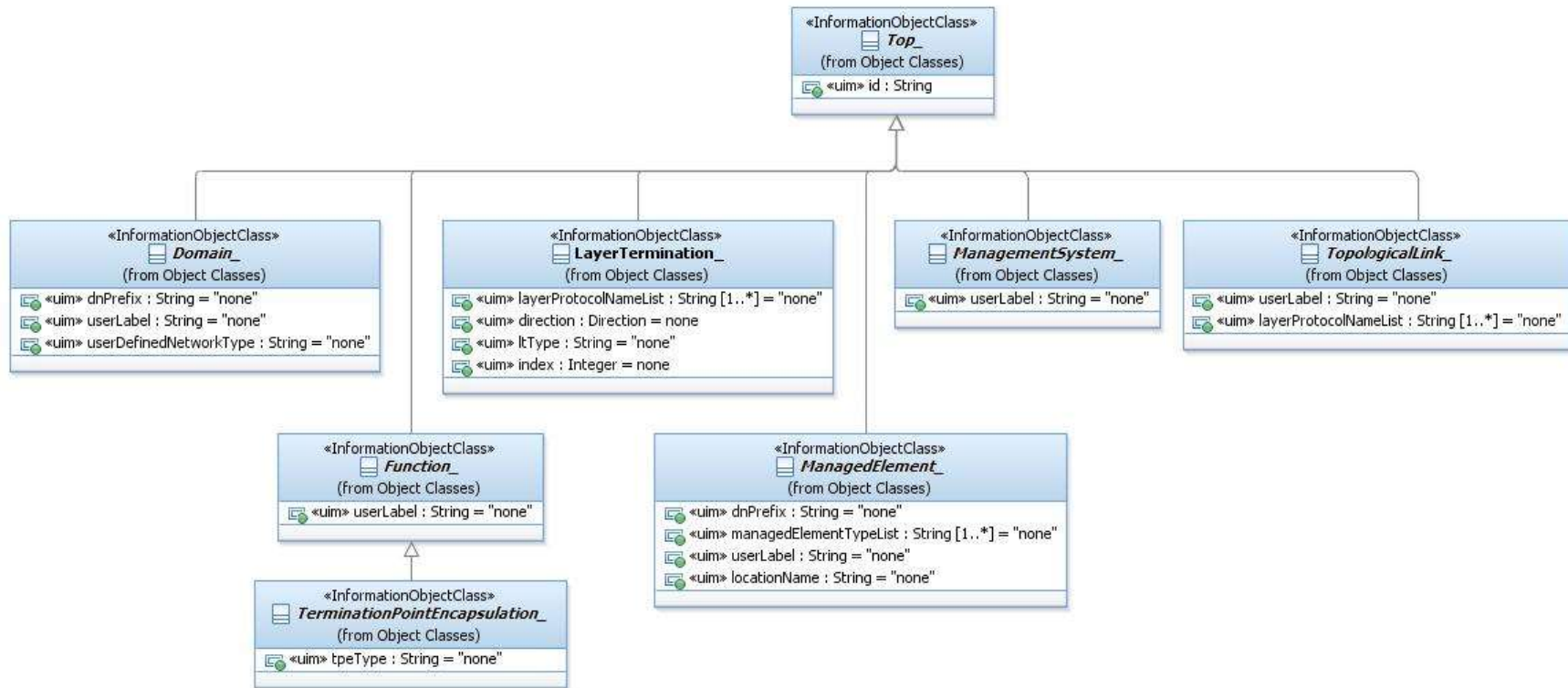
# Introduction of the NetworkService Class Hierarchy



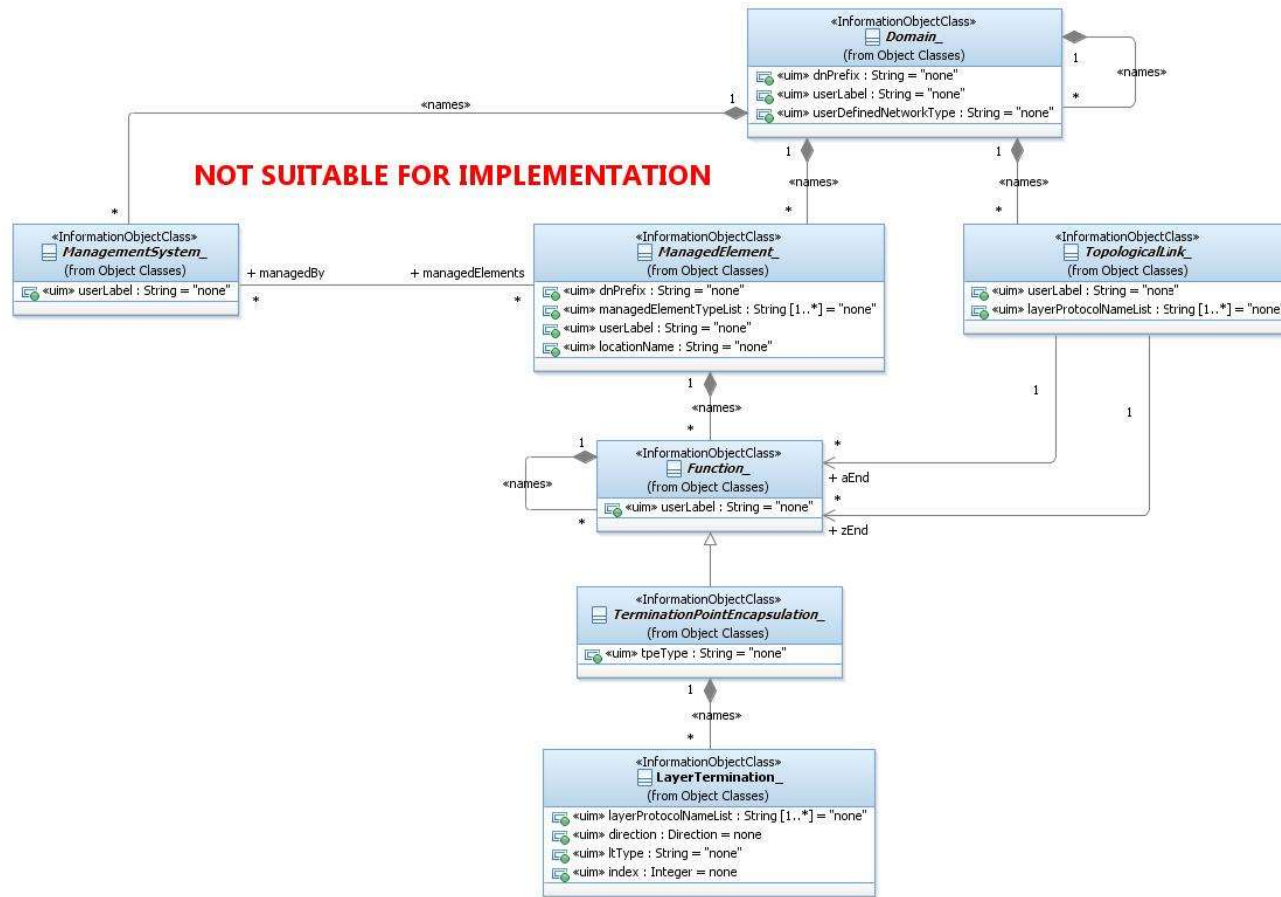


# Introduction of the Graph Class Hierarchy





# UIM Containment



25 NFV related Catalyst to date – 10 in the Pipe for May

For example 10 Catalyst TM Forum Live 2015 – high level of interest

- 14 unique Champions
- 35+ Vendor participants – a number of smaller/innovator companies involved
- many involved in multiple catalyst – seeing the value and relevance of the Catalyst program

Emerging patterns – key points

- Close loop network service – creating a Win-Win NFV approach for SP and NEP – 5 separate catalyst arrived at this approach
- MEF collaboration – demonstrating the relevance to other SDOs
- Multiple technology – heterogeneous network solutions – 5+ catalyst exploring this
- Multi-Cloud solutions explored
- Practical solution for immediate value – i.e. vCPE
- Orchestration and dynamic APIs – agility and time to market
- Numerous Framework APIs used, validated and improved
- Security – very early but very important and a different mix of companies
- Seeing an increased focus on IMMEDIATE Business value vs. Technical novelty



**Thank You**

