

NFV Deployment Scenario Dimensioning

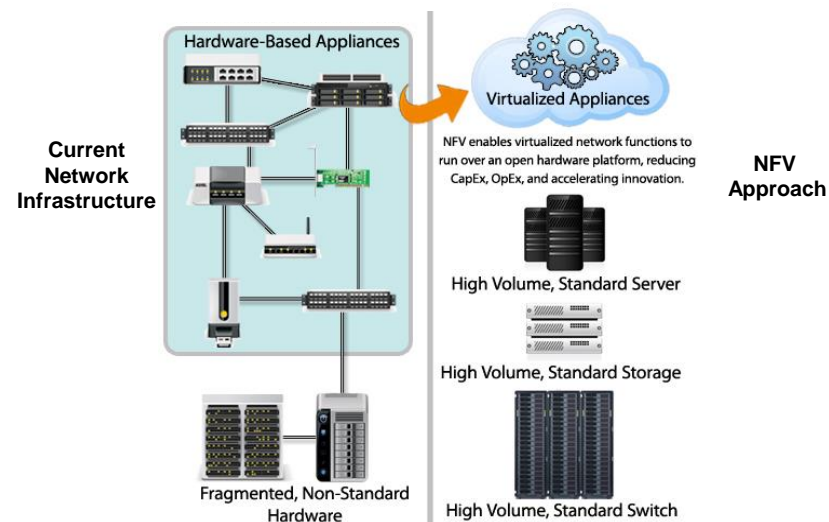
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INTRODUCTION

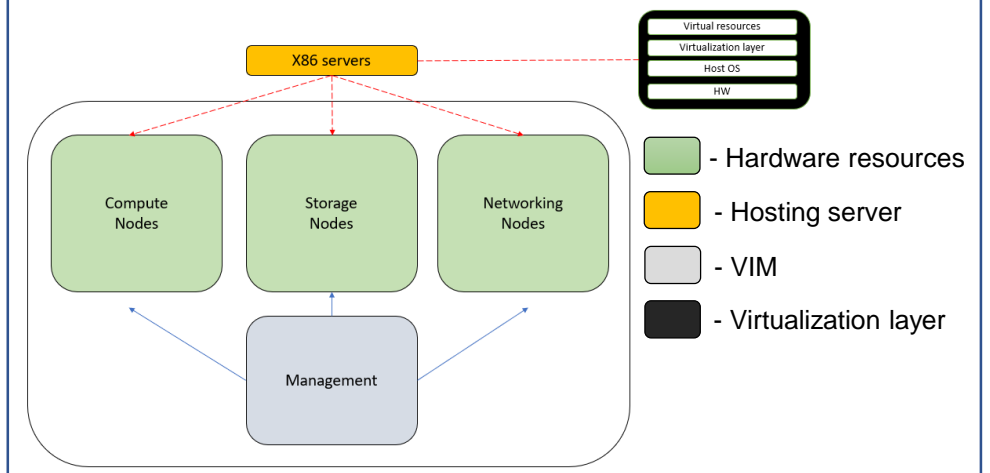
Network Function Virtualization (NFV) describes the recent trend towards the concentration of traditional telecommunication network functions in data centers on commodity hardware. The main concept of NFV is to decouple network functions (routing, firewall, etc.) from vendor proprietary hardware and deploy them on open industry standard servers.

NFV promises:

- Reduction on CAPEX/OPEX;
- Scalability, Flexibility;
- Improved QoS compared to current infrastructure
- Sustainability metrics



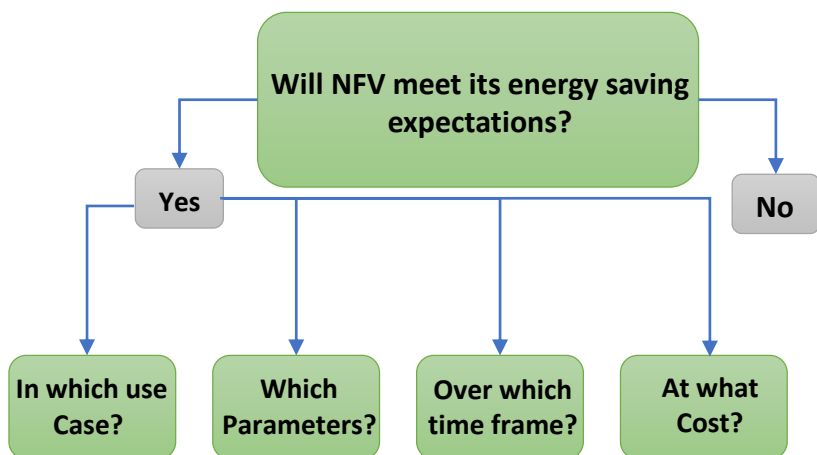
SCENARIO



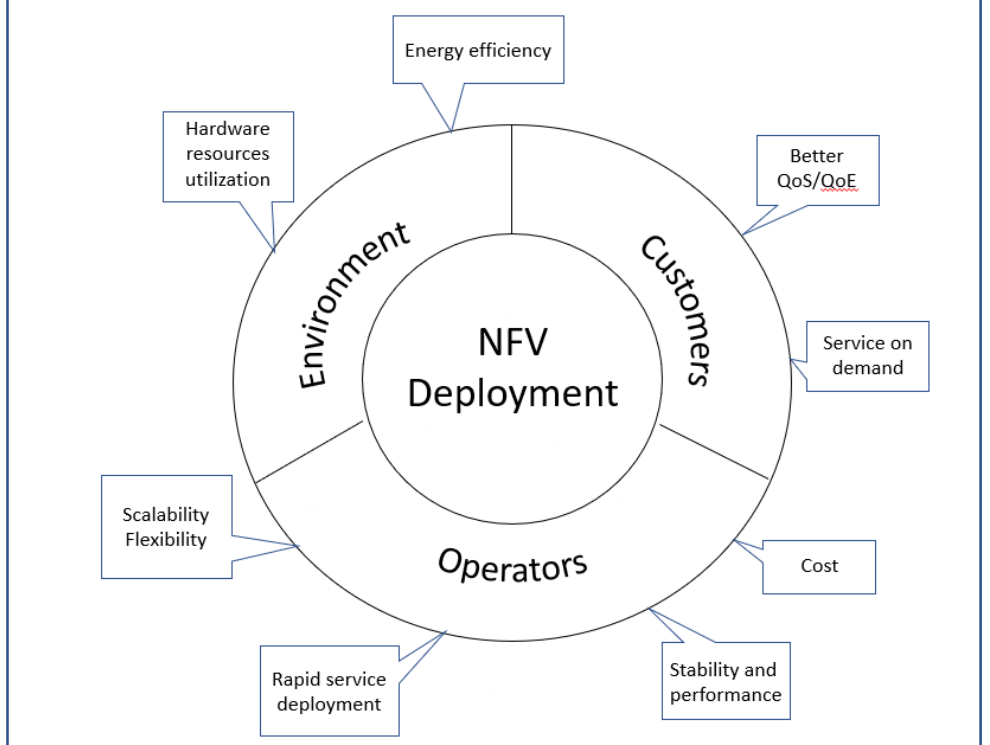
NEXT STEPS

1. NFV Deployment (IMS core / Clearwater)
2. Data collection (PowerAPI)
 - Bare Metal
 - NFV
3. Methodologies development for assessment of energetic impact of scenario
4. Benchmarking
5. Electrical dimensioning will be assessed for NFV deployment case

RESEARCH QUESTION



THREE PILLARS OF SUSTAINABILITY



RESEARCH GOALS

What?	Where?	How?	Why?
Electrical dimensioning assessment of NFV for Design Scenario 3	Both laboratory and real environment	With different methodologies tools and benchmarking	Will NFV meet its energy savings compared to current Telco infrastructure?

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Literature

