

# draft-bernini-nfvrg-vnf- orchestration

VNF Orchestration For Automated  
Resiliency in Service Chains

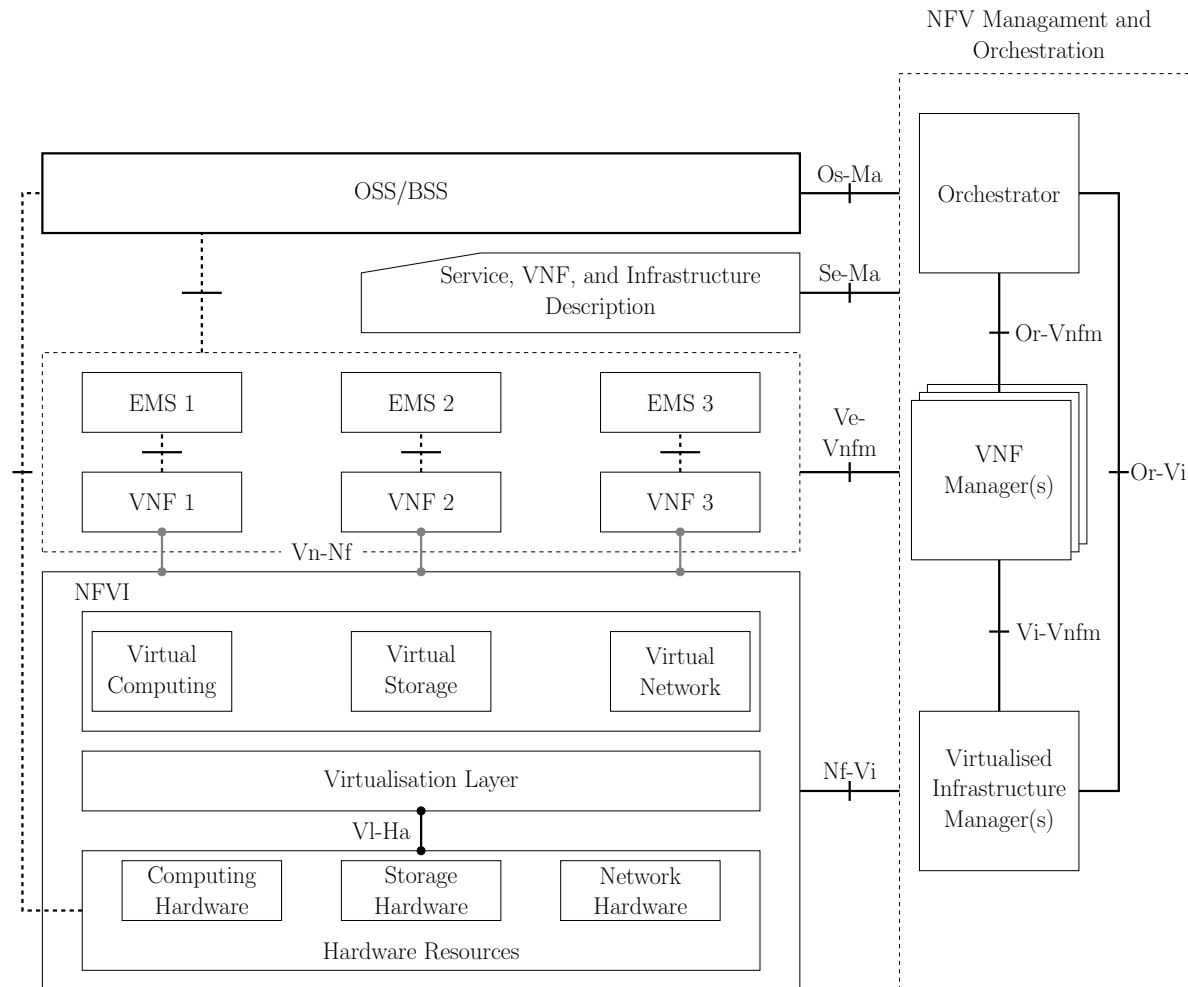
# Problem statement

- Automated, flexible and elastic provisioning of service chains
- Implement control mechanisms and procedures to steer the traffic through the different VNFs
- Address new challenges concerning the reliability of the provided virtualised services

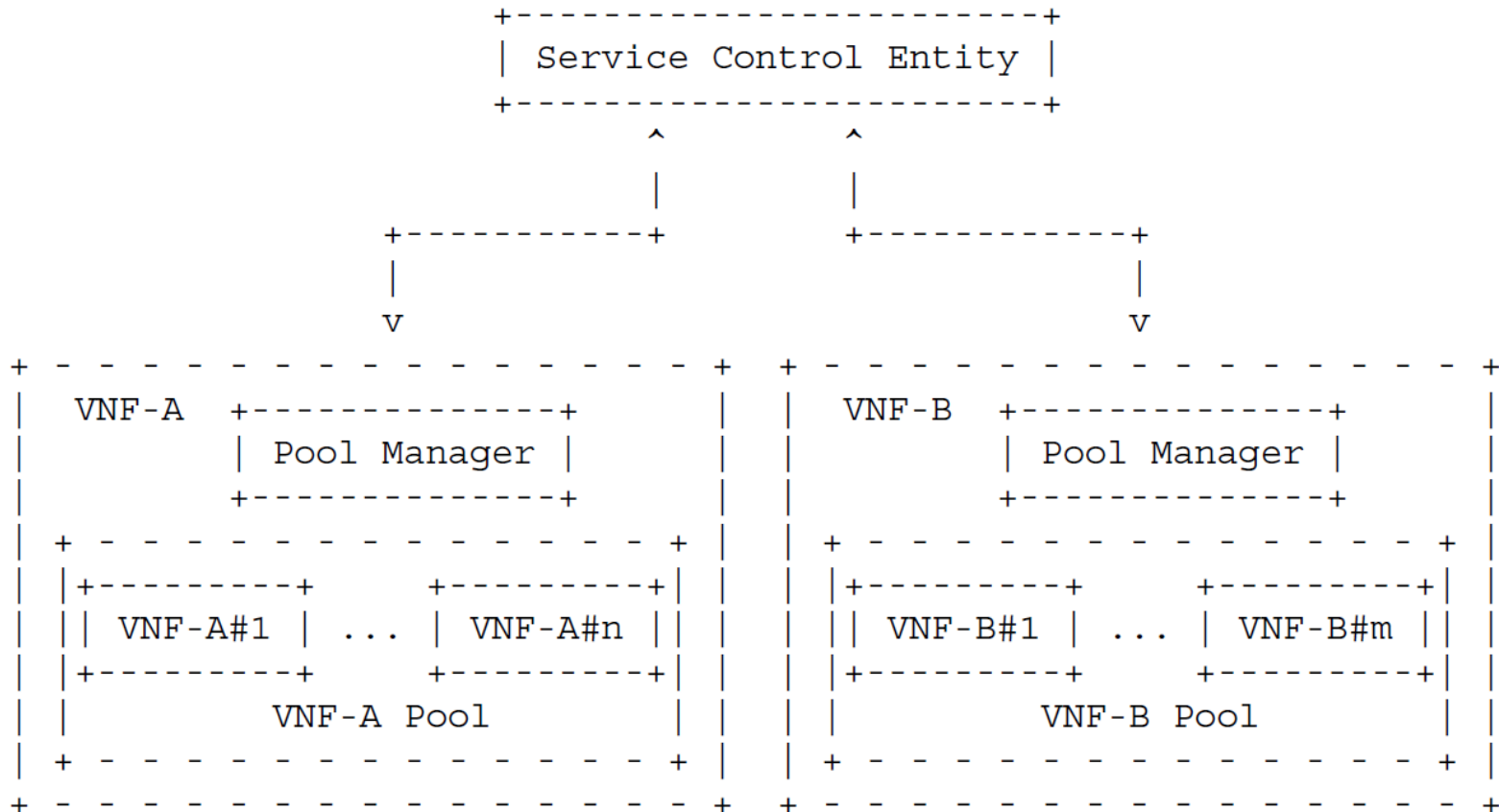
# VNF orchestration framework

- Built around two key components
  - the Orchestrator
    - includes all the functions related to the management, coordination, and control of VNFs instantiation and configuration
    - access point to the VNF orchestration framework for the operator
  - SDN controller
    - provides dynamic traffic steering and flexible network provisioning needed by the VNF chains
    - The basic controller functions are augmented by a set of enhanced network applications and management VNFs for operator's use
      - VNFs chaining and composition
      - Reliability of VNFs and service chains
- Built from the integration of two pre-existing proposals
  - ETSI NFV Architecture
  - VNFPOOL

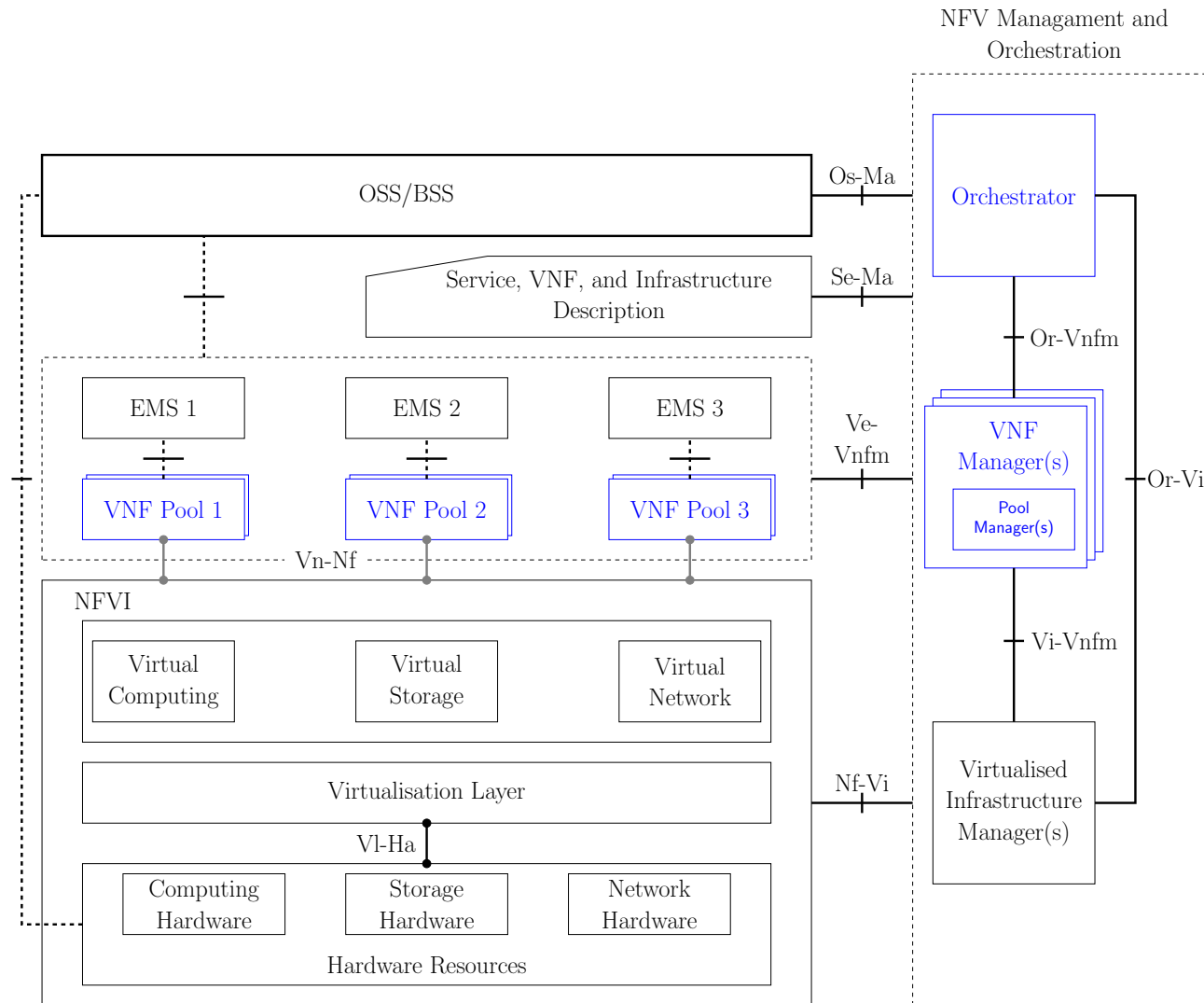
# Current NFV Architecture



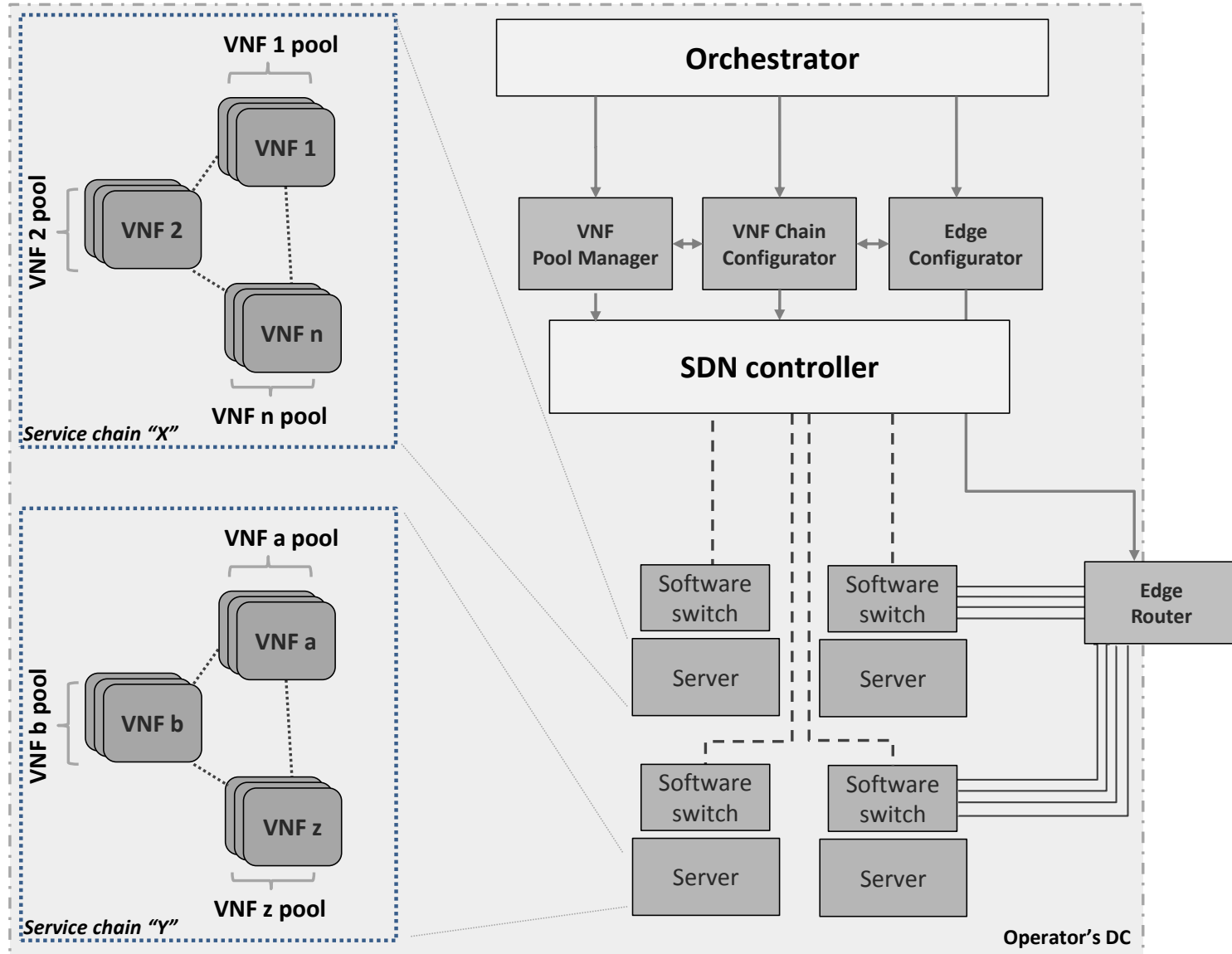
# VNFPOOL



# Proposed integration of VNFPOOL into the NFV architecture



# Real life implementation



# QUESTIONS, REACTIONS

Acknowledgement

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