



中国移动  
China Mobile

# ENI workshop

The NFV IFA Release 4 feature on policy enhancements & new WI

Center of AI and Intelligent Operation  
China Mobile Research Institute (CMRI)

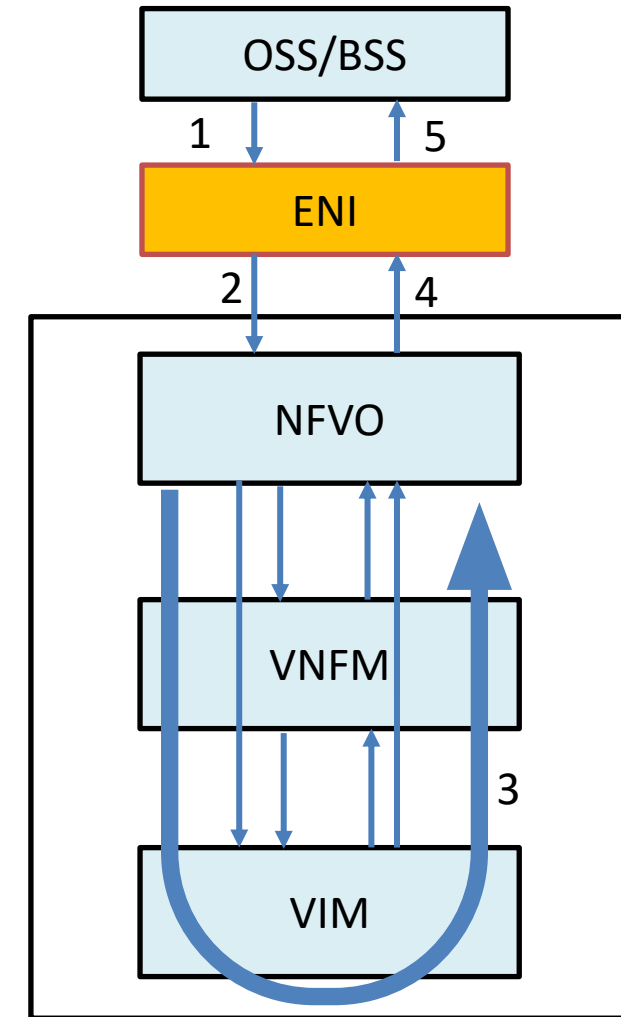
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- FEAT26 introduction
- GR IFA 042 INTRODUCTION
- NFV MANO - ENI Interaction – Options
- LS introduction

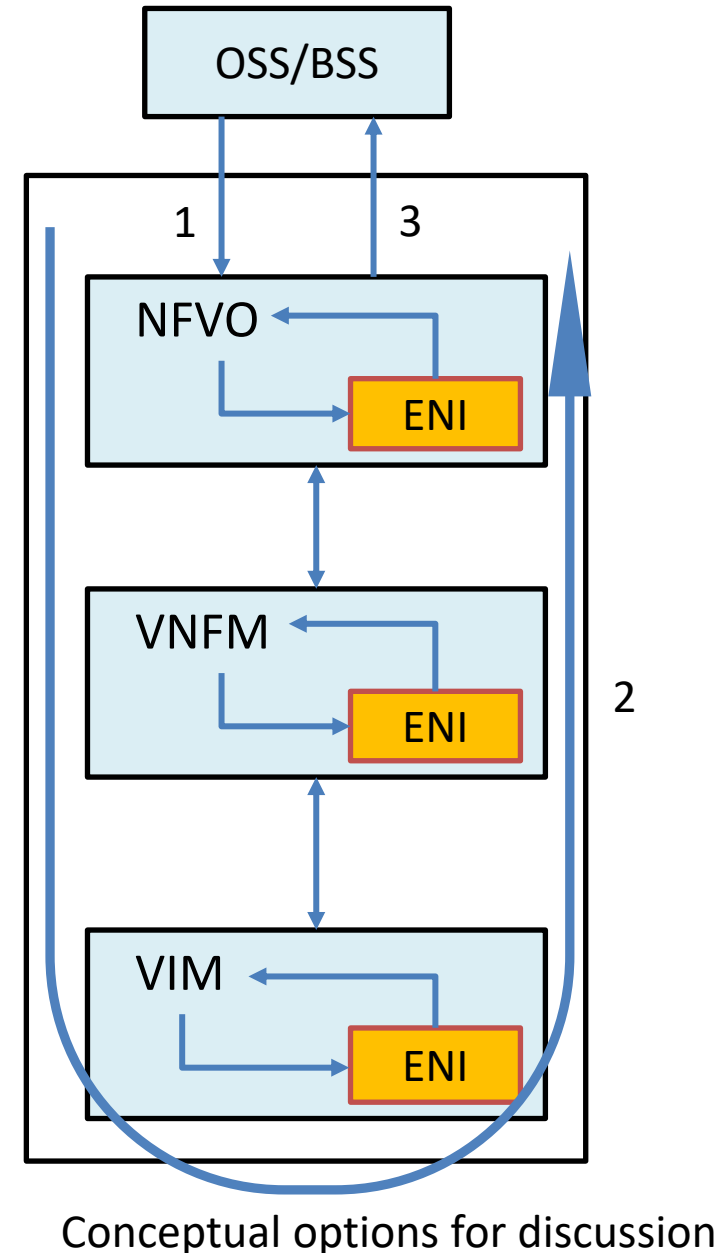
- Feature background
  - ✓ *Lack of definitions of the policy models and contents in the existing IFA specs*
  - ✓ *The expectations from SOL to refer to completed policy-related specs and update SOL specs*
- Feature scope
  - ✓ *Analyse existing policy information and data models and identify solutions that potentially could be applied to NFV-MANO (GR IFA042)*
  - ✓ *Clarify the main alternatives for policy management (between NFV-MANO and OSS/BSS)*
  - ✓ *Determine the objectives and management alternatives for policy management applicable to NFV-MANO*
  - ✓ *Identify policy information model and data model applicable to NFV-MANO*
- User stories
  - ✓ *Global management policy--- Distribution of energy efficiency policies*
  - ✓ *Management policy specific to VNF instance--- Auto-scaling policy pre-defined in the VNFD*
  - ✓ *Management policy specific to NS instance--- Transferring NS healing policy to the NFVO*

- The work item will report on:
  - analysis of NFV-MANO policy model potential requirements, including:
    - ✓ *application scenarios*
    - ✓ *policy types involved*
    - ✓ *potential functional requirements*
    - ✓ *potential model objects and information elements requirements*
  - analysis of existing policy information and data models, including:
    - ✓ *overview of policy models*
    - ✓ *classes, characteristics and design patterns*
    - ✓ *feature comparison and gap analysis*
  - identifying solutions that potentially could be applied to NFV-MANO, including:
    - ✓ *application analysis of applying existing policy models to MANO use cases*
  - recommendations for policy models, potential options are:
    - ✓ *referencing existing policy models with specific enhancements suitable for NFV-MANO*
    - ✓ *creating a new policy model based on NFV-MANO specific features*

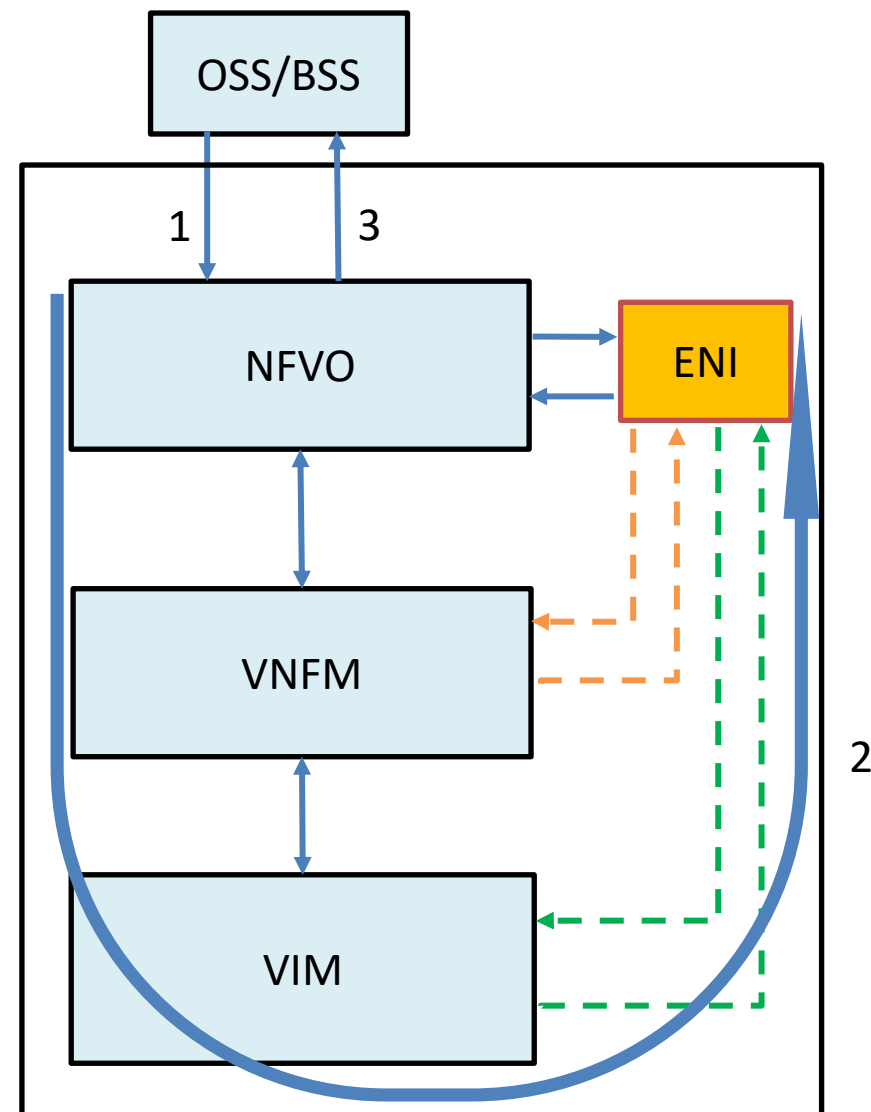
- ENI is located between OSS/BSS and MANO
- ENI is responsible for policy management
- OSS/BSS interacts with ENI directly through external interfaces
- MANO receives operation commands from ENI and feedbacks completion of operations through external interfaces
- ENI verifies the policy completeness and sends results to OSS/BSS through external interfaces



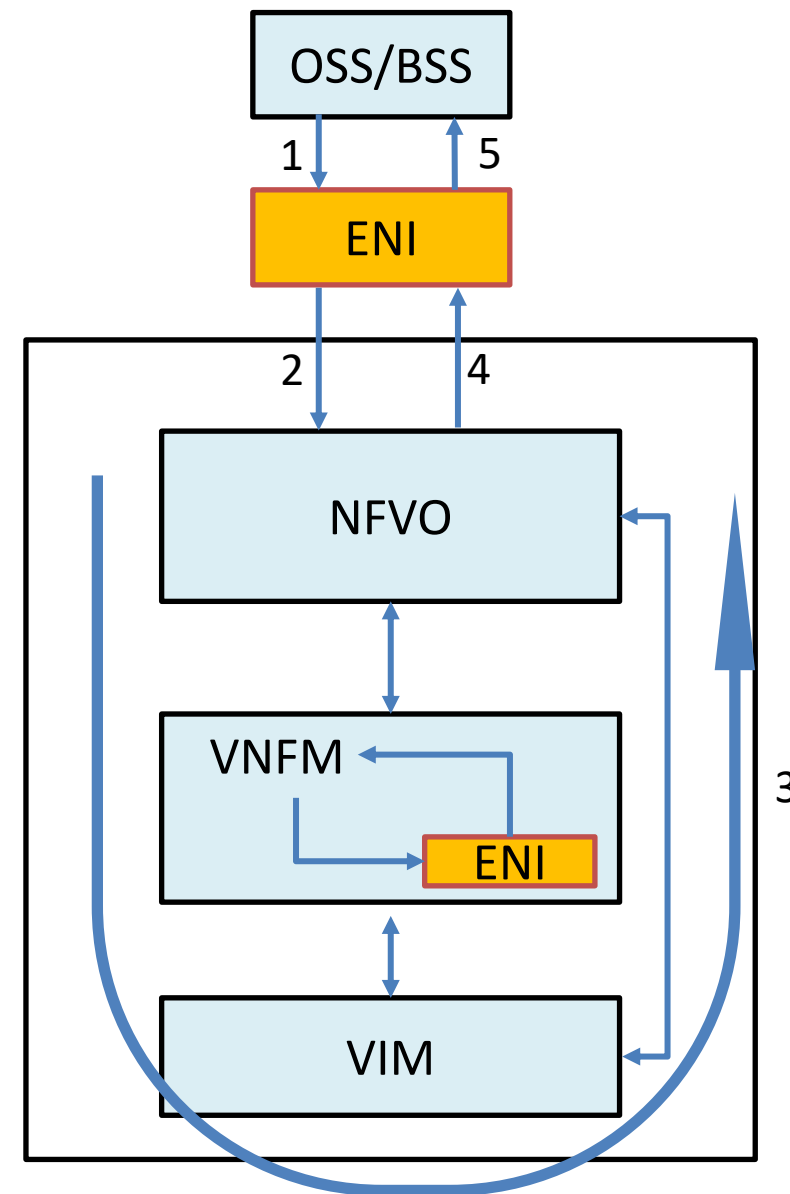
- Variant 2-1 ENI is built into every FB of MANO
- ENI is responsible for all or part of the policy management functions
- NFVO receives policies and other requests related to policies through traditional external interfaces; interactions between different FBs are through traditional external interfaces
- ENI interacts to every FB through internal interfaces



- Variant 2-2 ENI is built into MANO independently
- ENI is responsible for all or part of the policy management functions
- OSS/BSS interacts with NFVO through traditional interfaces
- FBs request ENI to handle certain functions ENI responsible for through external interfaces (maybe NFVO is the anchor point)



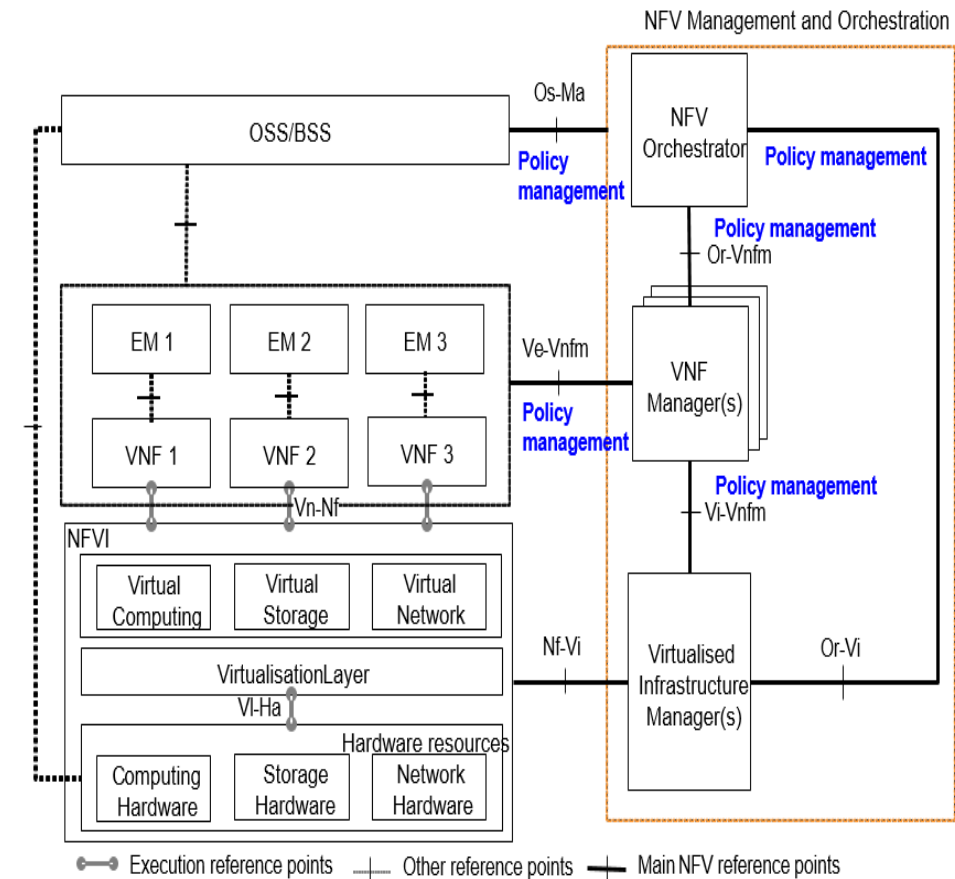
- ENI is in different locations according to context and responsibilities
- For example:
  - ✓ NFVO could select ENI to bridge itself and OSS/BSS
  - ✓ VNFM could build ENI into itself
  - ✓ VIM could take on policy management functions itself, that is, ENI is not used





# LSout to XYZ about policy models work at ETSI NFV (under discussion)

- Tentative target recipients: 3GPP SA5, ETSI ISG ZSM, ETSI ISG ENI, ONAP, ORAN...
- Conclusions from NFVIFA#209:
  - Main objective:
    - notify organizations above about the scope, progress and future work plans of the ISG on policy management and trigger future cooperation.
  - The LS plans to give some recommendations on potential future actions.
  - The LS draft is under discussion and more details are going to be discussed and updated soon.
  - You can refer to draft [NFVIFA \(20\) 000653](#), discussion paper [NFVIFA \(20\) 000597r3](#) and meeting report [NFVIFA \(20\) 000648](#) for more information.





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**THANK YOU!**

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Rapporteur of IFA042

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