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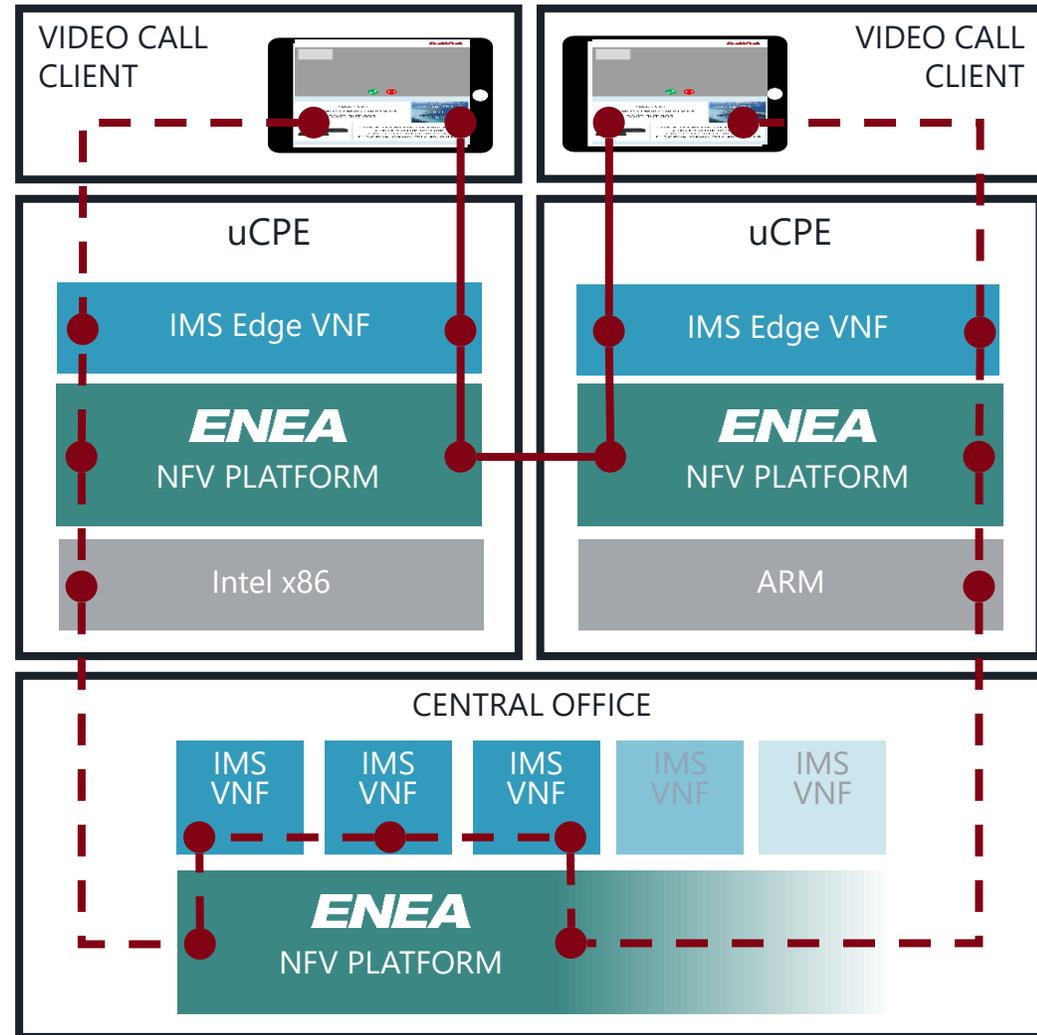
Multiarchitecture NFV PoC

PoC Objectives

- ▶ Proof-of-Concept (PoC) of a commercial Network Function Virtualization (NFV) solution for virtual Customer Premise Equipment (vCPE) running on both ARM and x86 Commercial Off-The-Shelf (COTS) hardware.
- ▶ The PoC also demonstrates:
 - ▶ Splitting vCPE functionality between Central Office (CO) and Customer Premise
 - ▶ Ability to mix and match hardware of different architectures and from different vendors

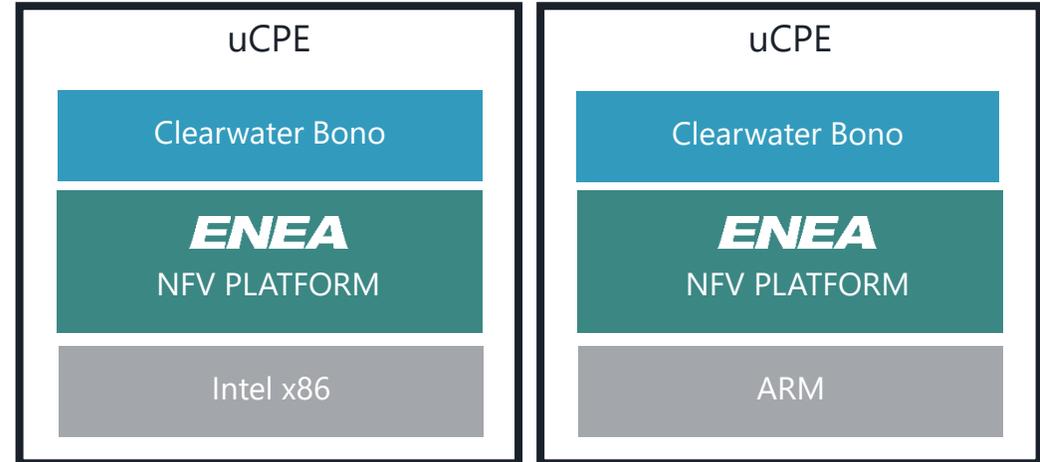
PoC Setup

- ▶ The PoC shows an IMS video call deployed as VNFs on two uCPEs
- ▶ The setup includes
 - ▶ Tablets for user interfacing
 - ▶ Universal Customer Premise Equipment (uCPE)
 - ▶ Central Office (CO)
- ▶ Enea NFV Edge provides virtualization layer and virtual resources in both CO and customer premises
- ▶ The PoC demonstrates how vCPE functionality can be divided between CO and customer premises
 - ▶ Control is done in the CO
 - ▶ Data flows directly between customer premises uCPEs



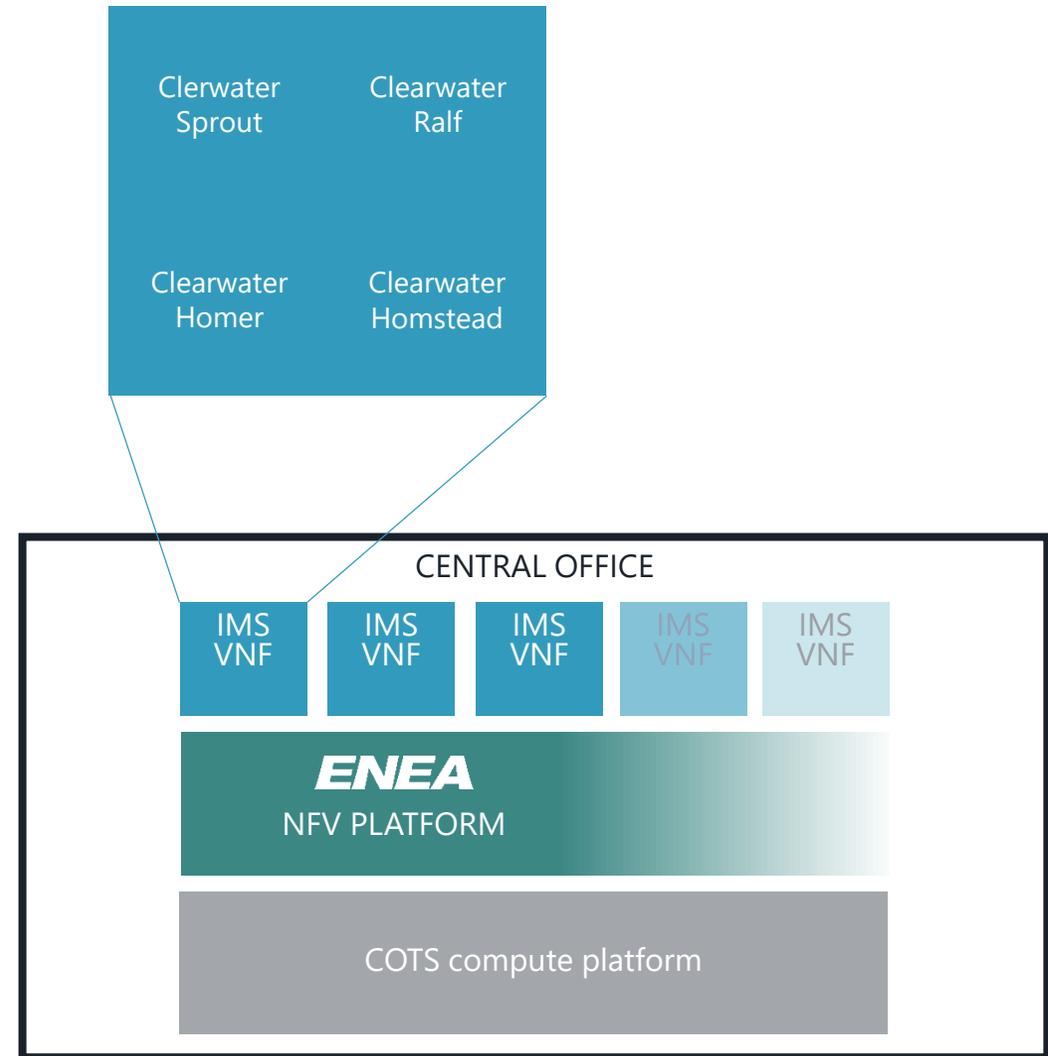
Customer Premise

- ▶ Enea NFV Edge is deployed on two uCPEs
 - ▶ One ARM-based
 - ▶ One x86-based
- ▶ This illustrates the interoperability and portability between hardware platforms
 - ▶ The most cost efficient solution can be selected without affecting the virtual environment
- ▶ Enea NFV Edge instantiates ClearWater Bono as a VNF on both uCPEs.
 - ▶ With core vCPE components running in the CO, more cost-efficient uCPEs can be used at the customer premise



Central Office

- ▶ The central office is manifested in a COTS hardware platform
- ▶ Enea NFV Edge provides OpenStack enabled virtualization on the COTS hardware
- ▶ Enea NFV Edge instantiates the ClearWater core components as VNFs in the CO.
 - ▶ Virtualization in the CO enables scalability of VNF capacity
 - ▶ Pulling core vCPE components to the CO allows computing on cost-efficient general-purpose platforms



Conclusions

- ▶ The PoC successfully showed:
 - ▶ That commercial NFV platforms are available on both ARM and x86 for both customer premise and Central Office
 - ▶ COTS hardware platforms can be used in both CO and customer premise
 - ▶ Hardware using different architectures can be used without affecting virtualization
 - ▶ Hardware from different vendors can be mixed

- ▶ Freedom to mix and match hardware platforms makes it possible to choose the most cost-efficient hardware for each case

More Information

More about this PoC

- ▶ Contact us or find more information at: www.enea.com/nfv-solutions
- ▶ See a short introduction video on [Youtube](#)

Enea NFV Lab

- ▶ We offer access to our complete NFV Pharos lab with both ARM and x86 pods
- ▶ Contact us to learn more: www.enea.com/contact-us

Customer PoC

- ▶ We help customers with Proof-of-Concepts to enable test and validation of key features and functionality in customer lab environments
- ▶ Contact us to learn more: www.enea.com/contact-us

THANK YOU

For additional information on Enea, please visit www.enea.com