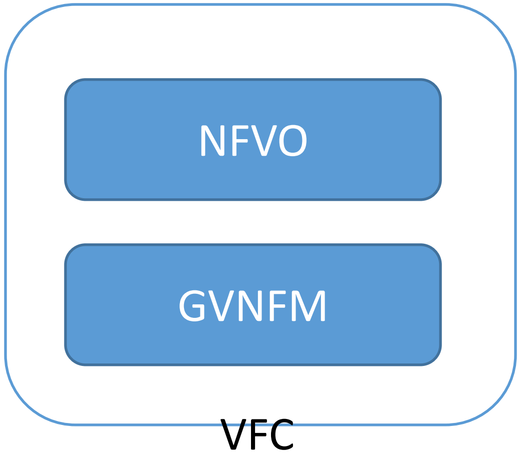
VFC Description



As part of the integration between OpenECOMP and OPEN-O, this proposed project VF-C leverages ETSI NFV MANO architecture and information model as a reference, and implements full life cycle management and FCAPS of VNF and NS.

- •support NS and VNF lifecycle management based on the ONAP tosca and yang data model and workflow
- •support integration with multi VNFMs via drivers, which include vendors VNFM and generic VNFM
- •support integration with multi VNFs via generic VNFM, which does not provide VNFM function
- •support integration with multi VIMs via Multi-VIM, which include the opensource and commercial VIMs
- •support microservice architecture and model driven resource orchestration and management

VFC Scope

The project scope provides the full intended scope of the VF-C; not just what is intended for the first release. Describe the functionality proposed.

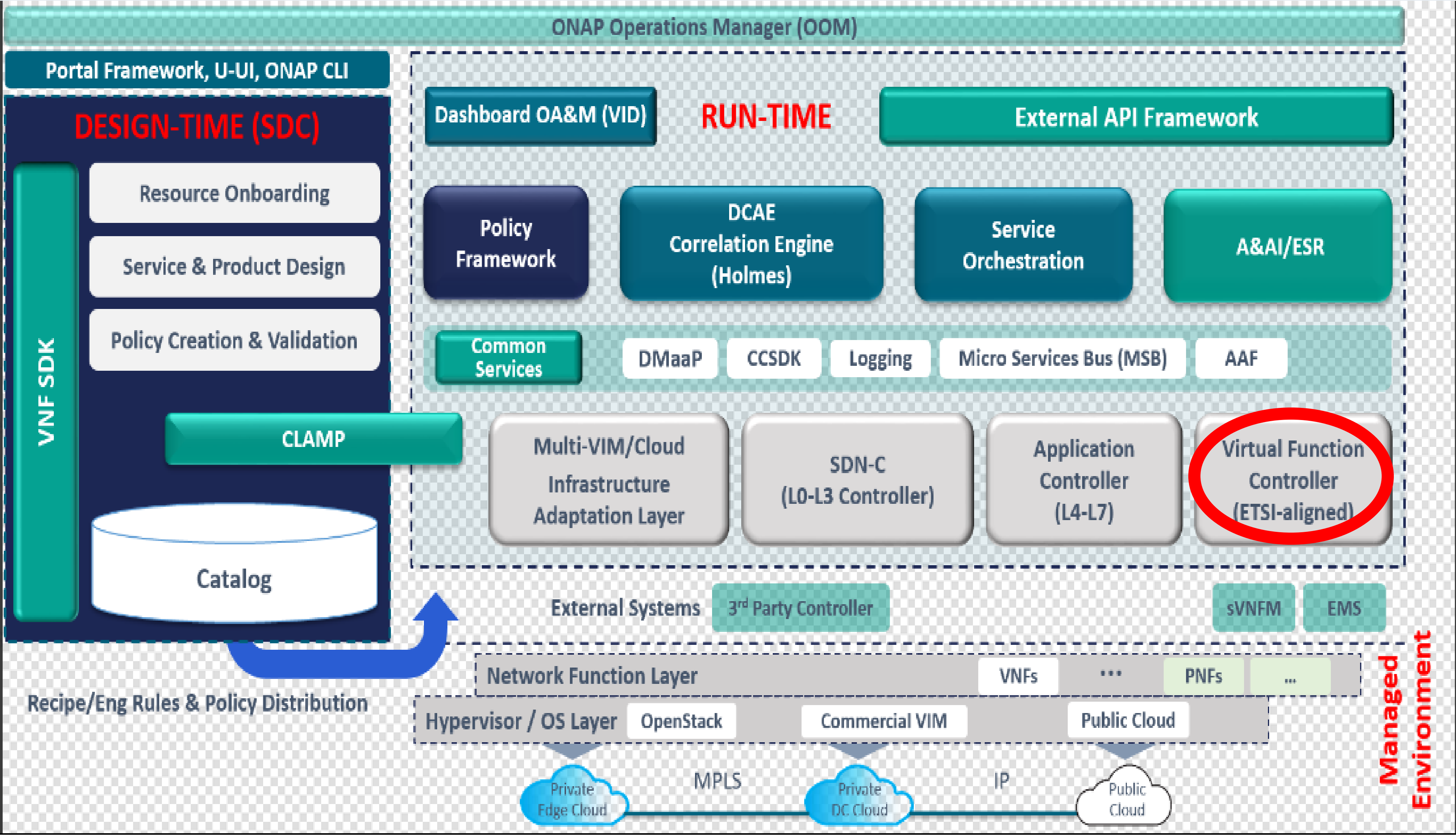
❖**NFV-O Component**

- compliant with ETSI NFV MANO architecture and information model,
- providing resource orchestration and full life cycle management and FCAPS for NS,
- providing standard south bound interface to VNFMs,
- providing north bound interface to SO, to take part in fulfilling the orchestration and operation of end2end service,
- providing interface and work with DCAE and Policy for Close Loop Automation.

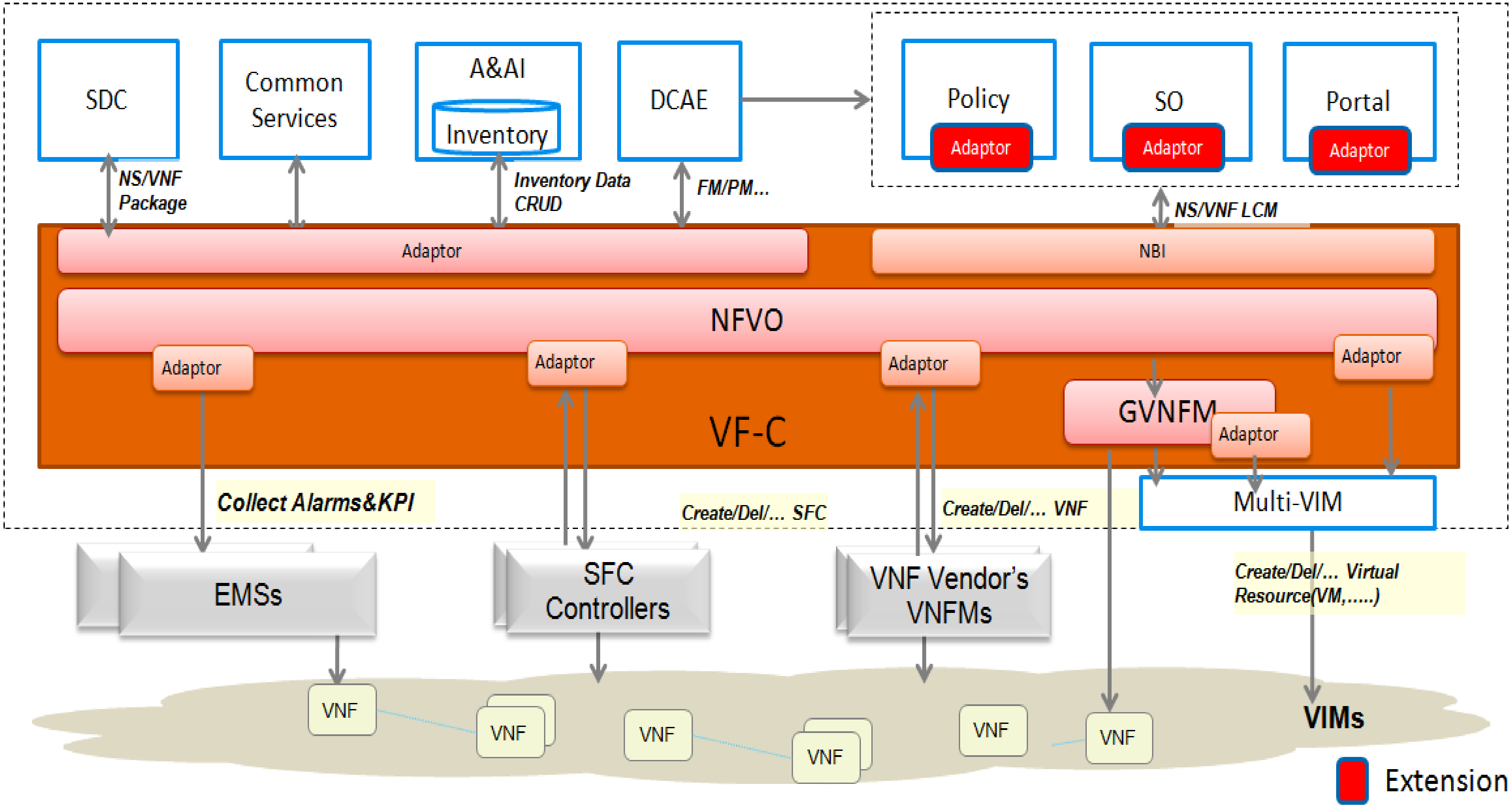
❖**VNFM Component**

- compliant with ETSI NFV MANO architecture and information model
- providing full life cycle management and FCAPS for VNFs which do not require a vendor VNFM
- providing interface and work with NFV-O component, to take part in fulfilling the LCM and FCAPS management of NS,
- providing interface and work with DCAE and Policy for Close Loop Automation.

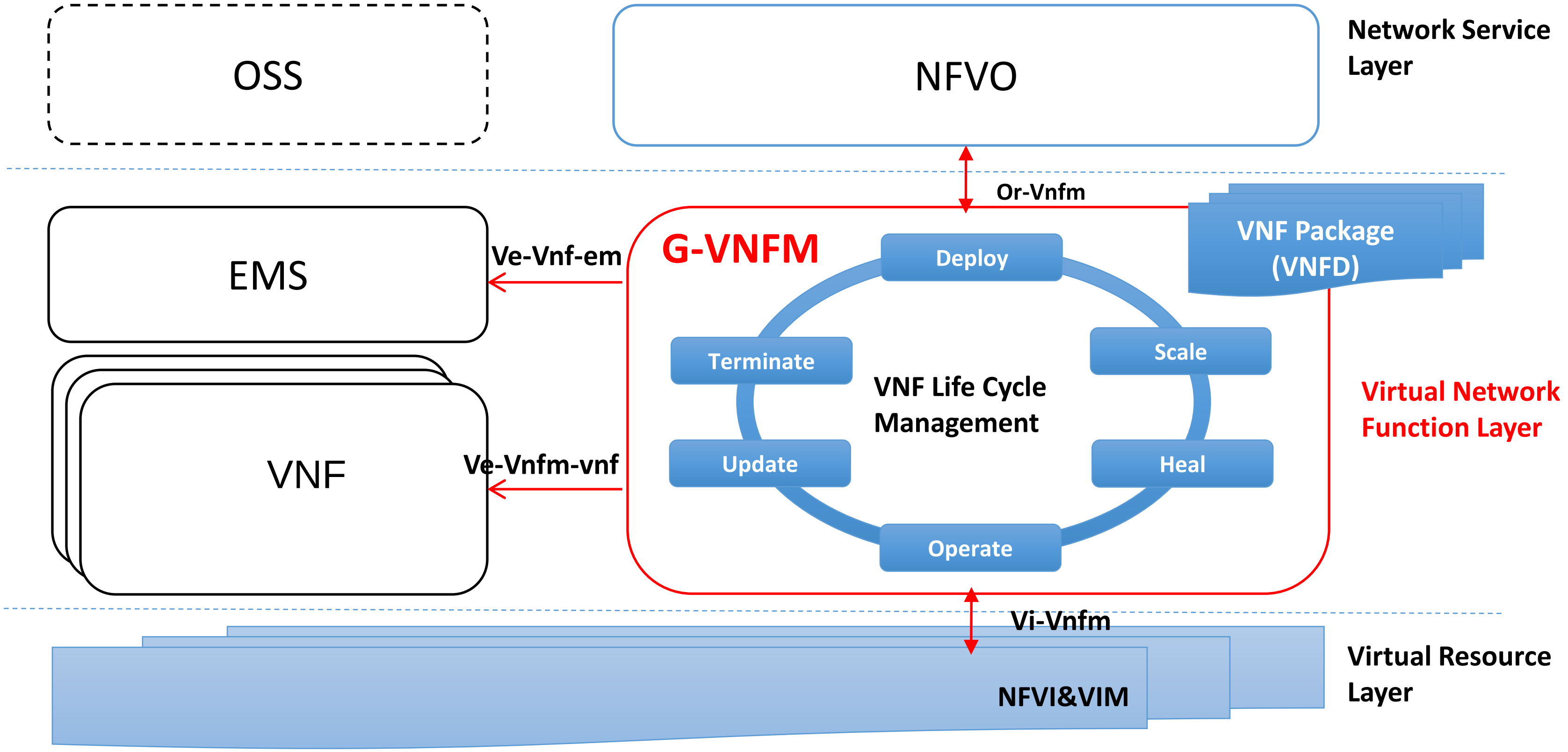
ONAP R1 Architecture



VFC High Level Architecture in R1



GVNFM Introduction



- Support VNF Lifecycle Management, including VNF deploy, scale, heal, operate(start/stop/restart/…), update and terminate, etc.
- Support multiple VNFs and multi-type VNFs from different vendors
- Support multiple VIM environments and multi-type VIM environments based on VM or Docker
- Standard interfaces are exposed by the VIM and the NFVO at the Vi-Vnfm and Or-Vnfm reference points
  - VNFD will be key content in Or-Vnfm interface
- Standard interfaces are exposed by the VNF and the EM, at the Ve-Vnfm-vnf and Ve-Vnf-em reference points