

ETSI NFV Management and Orchestration - An Update

Mehmet Ersue
ETSI NFV MANO WG Co-chair
(mehmet.ersue@nbn.com)

IETF #89, London, England

Progress In NFV MANO WG since IETF #88

- Adopted the interface approach and defined a series of interfaces for the MANO architecture
- Cleaned up descriptors and information elements to represent service graph topology and connectivity, i.e. virtual links, endpoints.
- Discussed and adopted diverse message flows,
- Discussion on architectural improvements are ongoing,
- IETF, 3GPP, DMTF, TOSCA and OpenStack gap analysis are in development.

MANO Interfaces

- Compute, Storage and Network APIs
- VNF image management interface
- VNF package management interface
- Resource catalogue management interface
- Resource management interface
- Resource fault management interface
- Resource performance management interface
- Network Service Descriptor management interface
- Network Service lifecycle management interface
- Network Service lifecycle change notifications interface
- Network Service fault management interface
- VNF lifecycle management Interface
- VNF lifecycle changes notifications interface
- VNF configuration interface
- VNF fault management interface
- VNF performance management interface

Next Steps NFV MANO WG

- Finalize the architectural improvement discussion,
- Need to incorporate SDN controller into the MANO architecture,
- Need to check whether NFV requirements and the requirements from different WGs are supported,
- Need to check whether all NFV use cases are supported,
- Provide a gap analysis for MANO interfaces and information elements using a template and for different SDOs,
- Finalize IETF gap analysis for related IETF WGs.
 - This is input for discussion only. IETF WGs will assess and decide case-by-case by themselves on what is appropriate to do.
 - New work might be proposed by individual companies based on IETF process.

MANO WG Schedule

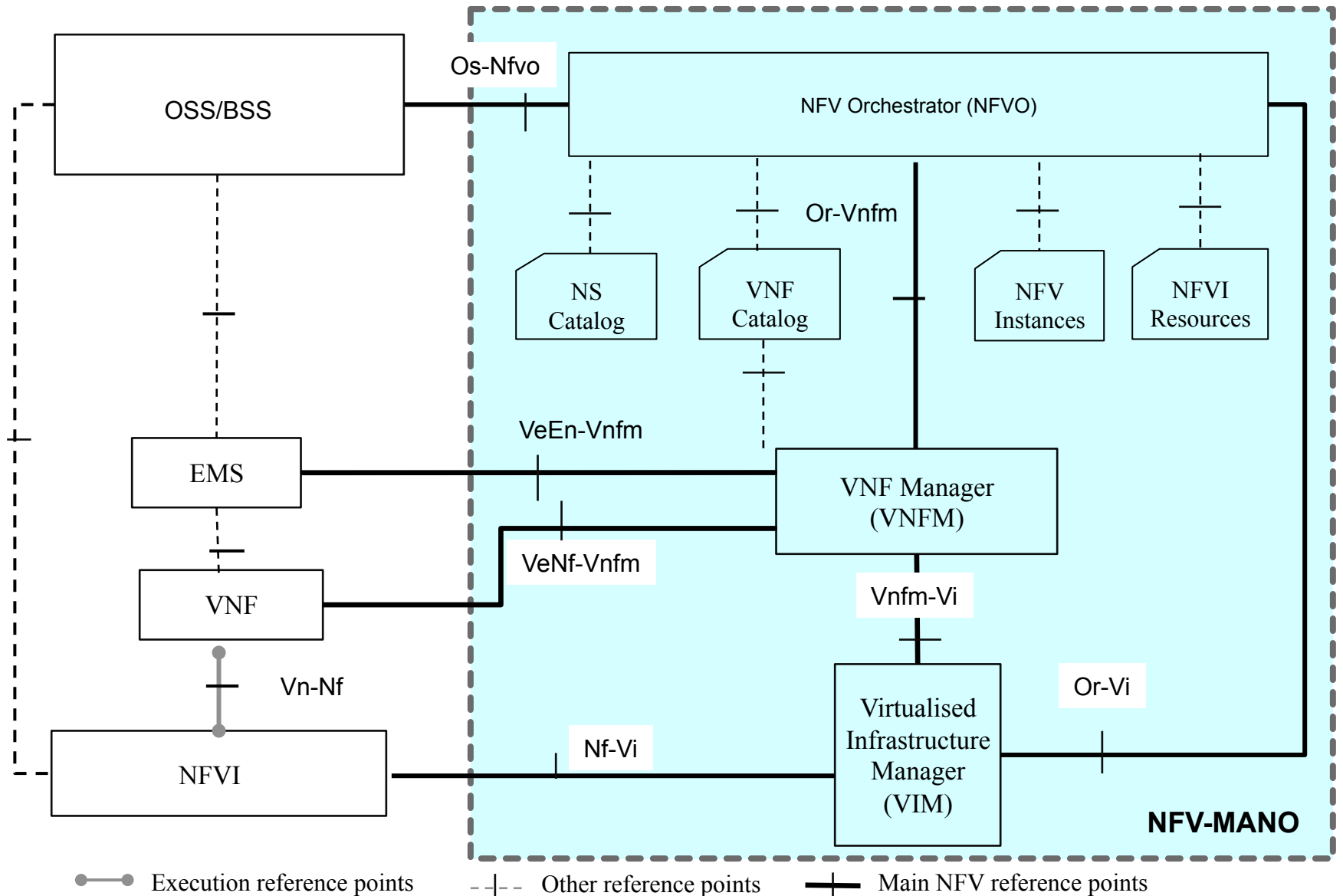
- WG approval and release freeze of MANO GS document will be in mid-June,
 - Release maintenance and cross-WG alignment until NFV #8 (mid of November)
- NFV documents from all WGs and the ISG level documents (e.g. E2E Architectural Framework 2.0) will be published by NFV #9 (February).
- With NFV #9 ETSI NFV ISG phase 1 is going to be terminated, where all active WGs are planned to close.
 - The organization of ETSI NFV ISG phase 2.0 is currently in discussion.

Back-Up

References

- Published E2E Arch, REQ, Use Case, Terminology documents in ETSI NFV Open Area:
 - <http://docbox.etsi.org/ISG/NFV/Open/Published/>
- Published ETSI NFV white paper:
 - http://portal.etsi.org/NFV/NFV_White_Paper.pdf
 - http://portal.etsi.org/NFV/NFV_White_Paper2.pdf
- ETSI member area:
 - Current NFV MANO WG WI document: DGS/NFV-MAN001 (ongoing work)
 - <http://docbox.etsi.org/ISG/NFV/MAN/70-DRAFT/MAN1/NFV-MAN001v0011.zip>
 - ETSI NFV ISG portal:
 - <http://portal.etsi.org/portal/server.pt/community/NFV/367?tbId=789>
 - NFV MANO WG on ETSI portal:
 - <http://portal.etsi.org/portal/server.pt/community/NFV/367?tbId=796>

NFV Management and Orchestration Architecture



Overview of MANO Descriptor Files

