ETSI NFV MANO Northbound API Overview

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The ETSI NFV MANO API (ETSI API) is another programmatic interface to ESC that uses the REST architecture. The ETSI MANO adheres to the standards defined by the European Telecommunications Standards Institute (ETSI), specifically around Management and Orchestration (MANO). The API accepts and returns HTTP messages that contain JavaScript Object Notation (JSON) payloads. The API contains its own datamodel designed around the ETSI MANO specifications that abstract away from the ESC core datamodel.

For information on VNF lifecycle management operations using the REST/NETCONF APIs, see the Cisco Elastic Services Controller User Guide.

Table 1: ETSI MANO Specifications

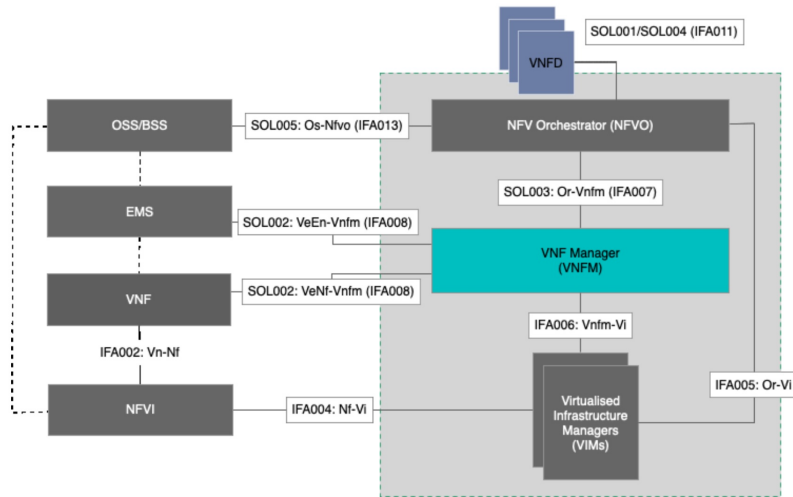| Specification	Version Support	Description
SOL001	v0.10.0	Format and structure for the VNF Descriptor
SOL003	v2.4.1	Defines all interactions over the Or-Vnfm reference point

The initial implementation of ETSI standard supports ETSI MANO API over Or-Vnfm reference point, which is the interface between ESC and NFVO. The Or-Vnfm reference point details the interactions to onboard ETSI compliant VNF packages, manage resources, and VNF lifecycle management (LCM) operations.

Note The terminology used in the ETSI-specific sections of the user guide align to the ETSI MANO standards defined in the ETSI documentation. For more information, see the ETSI website.

For more information on Or-Vnfm reference point, see the *ETSI Group Specification document* on the ETSI website. The figure below represents the NFV MANO architecture with the Or-Vnfm reference point.

Figure 1: NFV MANO Architecture with Reference Points

For information on managing resources, see Resource Definitions for ETSI API.