

Operationalising TMF & YANG based APIs

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Technical Boundary – TMF ODA Architecture

TMF Open Digital Architecture defines APIs across the Business, Service and Resource Layers

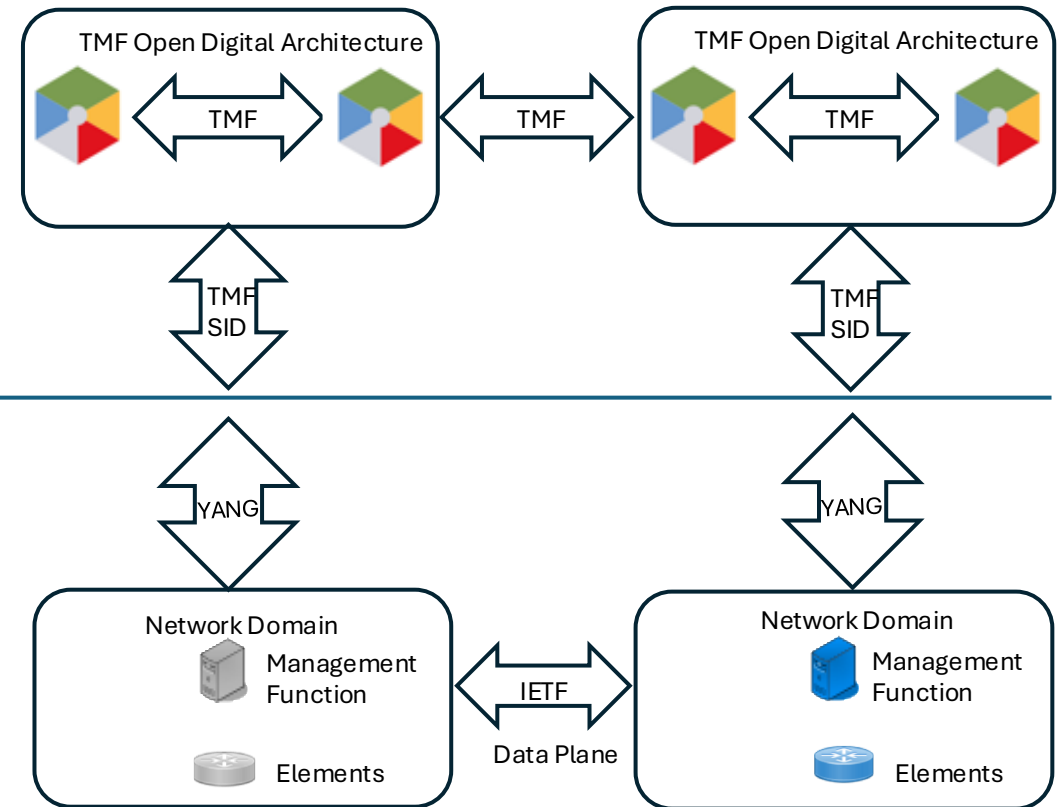
TMF REST OpenAPIs have data models based upon the Shared Information Data Model (SID)

Standard TMF OpenAPIs are widely adopted by Commercial Product Vendors

Network based APIs data models can be YANG based and utilise different transport protocols.

Standard YANG Service based APIs not not provide aligned TMF business capabilities.

Commercial Network Management Systems/Controllers Implement a range of different APIs with different data models



Operationalising APIs between TMF ODA and Network Resource Layer

Operators undertake the integration responsibilities between the domains. For Commercial products this may result in customisations that have high lifecycle operational costs. Operationalising ODA Interfaces requires an interworking solution.

Technical Boundary – TMF Autonomous Network (AN) Architecture

TMF Autonomous Networks Architecture evolves the ODA OpenAPI prescriptive interfaces to declarative interfaces for Services.

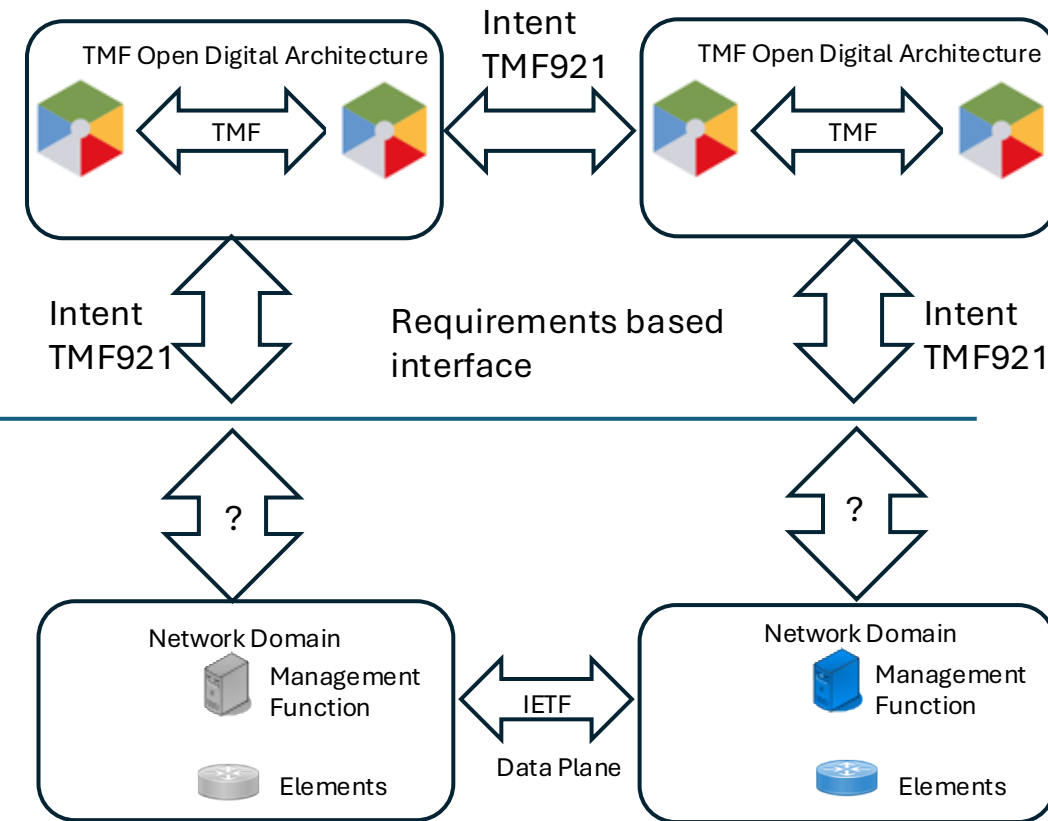
Intent Interface describes the ‘what’ is required rather than ‘how’.

Intent defines just the requirements that the network layer must provide

Network designs/allocates a service to meet requirements

Network Assurance that service continuously meets the requirements

Network can redesign service to achieve requirements



Operationalising APIs between TMF AN Service Layer and Resource Layer

Reduces the number of interfaces and makes network responsible for network service design, activation and assurance.