
TM Forum Open APIs Conformance Certification

Company Name:

6d Technologies

TM Forum Open API Name:

TMF645 - Service Qualification API

TM Forum Open API Release Version:

5.0.0

Date: 18/07/2025

1. What Product or Solution does your API support?

6D's Service Order Management (SOM) platform is an agile and converged solution that helps Digital Service Providers (DSPs) manage the complexities of service ordering. The platform is aligned with TM Forum's Open Digital Architecture (ODA) and its Product, Service, and Resource (PSR) model, streamlining operations and enabling rapid service creation.

Implementation of the Service Qualification API

A key validation in the Order flow/SOM platform which is responsible for exposing service-related checking & availability data.

TMFC009, or the Service Qualification Component, is a software building block within TM Forum's Open Digital Architecture (ODA). It identifies at least one technical solution (RFSspec) available to deliver the service (CFSspec) and check the availability of all the resources types involved in this technical solution. TMF645 API primarily for pre-sales or pre-ordering. Its main function is to Check Eligibility, Validate Feasibility and Identify Unavailability.

2. Overview of Certified API

It plays a crucial role in determining the technical eligibility or availability of a service. It's a key component within the "Pre-Ordering Management API Family. It is used to check if a specific service can be delivered to a given customer location or for a particular context.

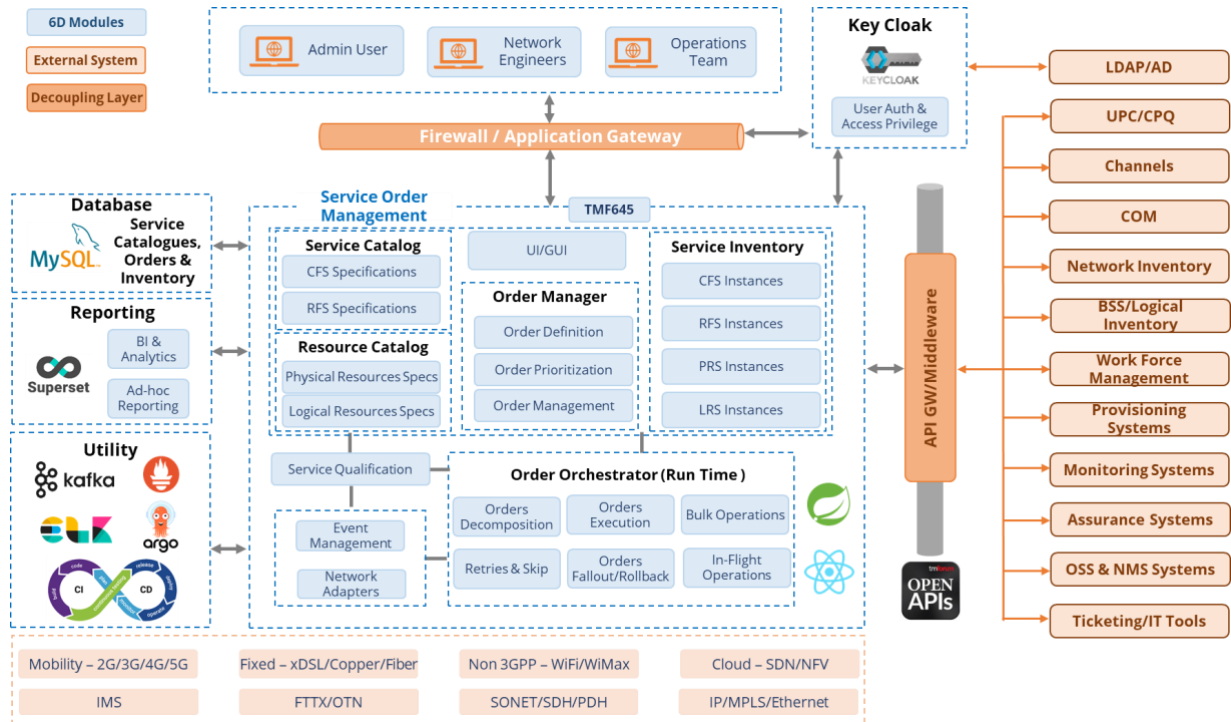
The Service Qualification API supports the following:

- Service Eligibility and Availability Checks
- Service Level Specification (SLS) and Objective (SLO) Information
- Handling Unavailability and Alternatives
- Querying for Eligible Services
- Integration with Service Inventory
- Management of Qualification Resources

Sample Use cases supported by SOM through TMF 645 Service Qualification API:

- Service availability check at customer onboarding step
- Eligibility based on the existing products/services owned

3. Architectural View



The above diagram gives a functional view of Service Order Management that exposes Service Qualification API (TMF645) to external services.

4. Test Results

This API has been tested as part of end-to-end journeys/Business Processes as well as at API level in terms of Authentication & Authorization, Functionalities & Operations that are supported through this API.

Click here to view the test results: [6D-SOM-TMF645-HTMLReport.html](#)