

TM Forum Open APIs

Conformance

Certification



Company Name:

6D Technologies

Product Name and Release Version:

6D Inventory Management - Ventas

TM Forum Open API Name and Release Version:

TMF716 – Resource Reservation Management v

4..0.0

Date: 19/08/2026

1. What Product or Solution does your API support?

The Resource Reservation Management API (TMF716) is part of our Inventory Management (Ventas) solution.

It enables the reservation and allocation of network and service resources before actual activation, ensuring that the required resources are available to fulfill service orders efficiently.

This API supports the Resource Reservation component, which acts as a bridge between Service Order Management (TMF641) and Resource Activation Management (TMF702).

It plays a critical role in capacity assurance, pre-provisioning, and conflict-free resource allocation across multi-domain environments.

2. Overview of Certified API

Resource Reservation API REST Specification

The TMF716 – Resource Reservation Management API provides a standardized mechanism to reserve and manage resources required for service fulfillment before actual activation. It

ensures that physical, logical, or virtual resources are available and allocated without conflict, supporting efficient and reliable service provisioning.

This API defines the ResourceReservation entity, representing a temporary allocation of resources for a specific purpose and duration. It enables creation, modification, confirmation, and release of reservations while maintaining lifecycle state transitions and event notifications.

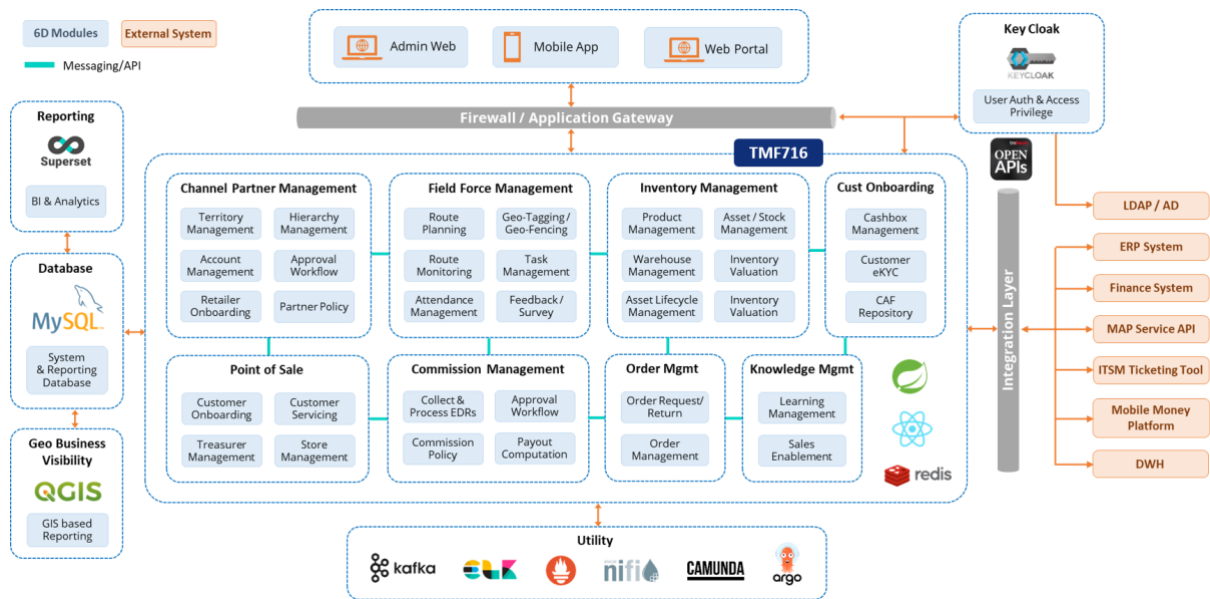
The API supports asynchronous reservation management and integrates seamlessly with other TM Forum Open APIs such as TMF641 (Service Order Management) and TMF702 (Resource Activation Management), enabling smooth orchestration from service request to network activation.

Key Functions:

- Create, update, and manage resource reservation requests.
- Check and hold resource availability for a defined period.
- Prevent resource conflicts through controlled reservation lifecycle.
- Support for reservation state transitions (acknowledged, held, committed, released).
- Event notifications for reservation creation, update, and cancellation.

By implementing TMF716, the solution ensures resource availability assurance, reduces provisioning failures, and enhances automation and interoperability within the OSS/BSS fulfillment ecosystem.

3. Architectural View



4. Test Results

Click here to view the test results: [6D-TM716-HTMLReport.html](#)