TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name:
TMF671 - Promotion Management

TM Forum Open API Release Version: 4.0.0

Report Date: 22/01/2024
1. **What Product or Solution does your API support?**

Product: Vodafone OmniShop
Solution: Unified e-commerce platform for seamless purchase of telecom services, devices, and accessories across multiple channels (online, mobile app, retail stores).

Sample Use Cases:
- Personalized offers: Delivering relevant promotions to customers based on their preferences, usage patterns, and demographics.
- Cross-selling and upselling: Promoting complementary products and services to increase revenue and customer satisfaction.
- Acquisition and retention: Attracting new customers with enticing offers and preventing churn by providing timely incentives.
- Partner collaboration: Enabling partners to create and manage co-branded promotions, expanding reach and market share.
- Inventory management: Optimizing stock levels and reducing waste by aligning promotions with inventory availability.
2. Overview of Certified API

API Name: TMF671 Promotion Management API
API Description:
The Promotion Management API enables the creation, management, and retrieval of promotions, allowing businesses to:
- Define promotion eligibility criteria based on customer attributes, product offerings, subscriptions, or other factors.
- Specify promotion actions, such as discounts, free items, bonus data, or service extensions.
- Set validity periods for promotions to control their duration and availability.
- Retrieve detailed information about active and historical promotions.
- Integrate with other relevant APIs (e.g., Shopping Cart, Product Catalog) for a cohesive e-commerce experience.

Conformance level: Full conformance
Implementation Technology: Java Spring Boot
Deployment Environment: Vodafone's cloud infrastructure
3. **Architectural View**

The frontend channels/application that invokes TMF API exposed via an API Management layer. Request traverses the TMF microservice layer towards the secure backend system.
4. **Test Results**

Comprehensive functional and non-functional testing techniques were employed during the evaluation of the API. This rigorous testing process encompassed various aspects, including authentication, authorization, and the overall API functionality.

The API underwent thorough functional testing to ensure that all interface operations performed as expected. Test cases were designed to validate the accuracy and completeness of the retrieved data.

Non-functional aspects were validated ensuring encompassed performance testing, which assessed the API's response time, scalability, and overall system load handling capacity. Additionally, security testing was conducted to identify and mitigate vulnerabilities that could potentially compromise the API's security posture.

The conformance verification process for the REST API successfully validated its functionality, security, and alignment with the Business Process Framework. The rigorous testing procedures, including authentication, authorization, functional, and non-functional testing, ensure that the API is robust, secure, and capable of providing reliable customer management.

In conclusion, this TMF API serves as a vital component to ensure the reliable customer management as a service. Its adherence to conformance standards and rigorous testing procedures underscores its reliability and utility.

For any inquiries or further details about this conformance verification report, please contact the Digital Engineering team of Vodafone Group.

Click here to view the test results: [VODAFONE-TMF671RW-HTMLResults.html](VODAFONE-TMF671RW-HTMLResults.html)