TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name: TMF699 - Sales 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 OmniSales, a comprehensive sales platform for managing customer interactions, orders, and product lifecycles across multiple channels.

Use Cases:

Order Management: Create, manage, and track customer orders for products and services, including:
- New subscriptions
- Product upgrades
- Service changes
- Order cancellations

Product Catalog Management: Access and retrieve product information, pricing, and availability to facilitate sales activities.

Customer Engagement: Create and manage customer quotes, capture customer acceptance, and initiate order fulfillment processes.

Partner Integration: Enable seamless collaboration with partners and resellers through standardized API interactions for sales processes.

2. **Overview of Certified API**

RESTful API: Exposes resources for managing sales orders, quotes, products, and customers.
Conformance Level: Full conformance (all mandatory operations and data elements supported)
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-TMF699RW-HTMLResults.html