TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name: TMF668 - Partnership Management

TM Forum Open API Release Version: 4.0.0

Report Date: 31/01/2024
1. **What Product or Solution does your API support?**

Vodafone's TMF668 Partnership API supports our Vodafone Partner Ecosystem (VPE), for managing relationships with service providers, distributors, and other strategic partners. The API enables seamless data exchange and collaboration, facilitating efficient business processes and delivering enhanced customer experiences.
2. Overview of Certified API

Vodafone's TMF668 Partnership API adheres to the latest TMF Open API specifications, guaranteeing interoperability and seamless integration with other ecosystem players. It offers a robust set of features for managing partnerships:

- Comprehensive partner information: Create and manage detailed profiles of partners, including contact information, roles, and characteristics.
- Flexible agreement management: Define various types of agreements with partners, including interconnection, service level, and commercial agreements.
- Secure data exchange: Utilize secure protocols and encryption mechanisms to ensure the safe and confidential sharing of sensitive data.
- Automated billing and settlements: Automate billing and settlement processes between partners, reducing manual effort and streamlining financial transactions.
- Real-time partner collaboration: Facilitate real-time communication and information exchange between Vodafone and its partners, fostering a collaborative environment.

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-TMF668RW-HTMLResults.html