TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name:
TMF676 – Payment Management

TM Forum Open API Release Version: 4.0.0

Report Date: 12/01/2024
1. **What Product or Solution does your API support?**

   Provides the standardized client interface to Payment Systems for managing performed payments or refunds.

2. **Overview of Certified API**

   This API may be used by client applications to manage payments and refunds.

**Key Features**

- **Payments**
  - Retrieve a list of payments
  - Create a new payment
  - Retrieve a Payment by ID
  - Update payment

- **Refunds**
  - Retrieve a list of refund
  - Create a new refund
  - Retrieve a refund by ID

- **Authorized Payment**
  - Create an Authorise Payment Entity
  - Update an Authorise Payment

- **Initiate Payment**
  - Create an Initiate Payment Entity

- **Cancel Authorized Payment**
  - Create a Cancel Authorized Payment entity
3. Architectural View

Frontend channels/application that invokes TMF676 Payment Management API exposed via an API Management layer. Request traverses the TMF microservice layer towards the secure backend system to manage the payments.
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 payment management mechanism.

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-TMF676RW-HTMLResults.html