TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name: TMF629 - Customer Management

TM Forum Open API Release Version: 4.0.0

Report Date: 09/10/2023
1. What Product or Solution does your API support?

Provides a standardized mechanism for customer and customer account management.

**Use case:**
This API may be used by consumer applications for customer and customer account management.

**Customer Management**
- **Customer**
  - List or find Customer objects.
  - Create Customer
  - Retrieve a Customer by ID
  - Update a customer entity
  - Delete a customer

- **Notification Listeners**
  - Client listener for entity CustomerCreateEvent
  - Client listener for entity CustomerAttributeValueChangeEvent
  - Client listener for entity CustomerStateChangeEvent
  - Client listener for entity CustomerDeleteEvent

- **Event Subscription**
  - Register a listener
  - Unregister a listener

2. Overview of Certified API

This API may be used by consumer applications for customer and customer account management.
3. **Architectural View**

Frontend channels/application that invokes TMF629 Customer Management 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, TMF629 Customer Management API v4.0.0 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 see the test results: [VODAFONE-TMF629RW API-HTML Results](#)