TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name: TMF673 – Geographic Address 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 a standardized client interface to an Address management system. It allows looking for worldwide addresses.

2. **Overview of Certified API**

This API may be used by the consumers to perform following functions:

- Retrieve a geographic address or a collection of geographic addresses
- Retrieve a geographic sub-address
- Create a geographic address validation
- Retrieve, update and delete an existing geographic address validation
- Notify events on these resources

**Key Features**

- **Geographic Address Validation**
  - List or find GeographicAddressValidation entities
  - Creates a GeographicAddressValidation entity.
  - Retrieves a GeographicAddressValidation entity
  - Update a GeographicAddressValidation entity
- **Geographic Address**
  - List or find GeographicAddress entities
  - Retrieve a GeographicAddress entity
- **Geographic SubAddress**
  - List or find GeographicSubAddress entities
  - Retrieve a GeographicSubAddress entity
3. **Architectural View**

Frontend channels/application that invokes TMF673 Geographic Address Management API exposed via an API Management layer. Request traverses the TMF microservice layer towards the secure backend system to manage the addresses.
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 address 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-TMF673RW-HTMLResults.html](VODAFONE-TMF673RW-HTMLResults.html)