TM Forum Open APIs

Conformance Certification

Company Name: Vodafone Group (Reference Implementation)

TM Forum Open API Name: 
TMF669 – Party Role Management

TM Forum Open API Release Version: 4.0.0

Report Date: 13/10/2023
1. **What Product or Solution does your API support?**

The TMF669 Party Role Management API supports the management of party roles, such as customer, partner, and employee roles.

Use case:
The TMF669 Party Role Management API can be used to support a variety of use cases, such as:
- Creating and managing customer accounts
- Managing partner relationships
- Managing employee roles
- Integrating with other systems, such as CRM and billing systems
- Search for party roles based on specific criteria.

2. **Overview of Certified API**

The TMF699 Party Role Management API conforms to TM Forum's Open API standards, offering a standardised and efficient approach to managing party roles. This API provides a comprehensive set of endpoints for the management of party roles, allowing Vodafone to maintain an organised and up-to-date repository of party role information.

3. **Architectural View**

Architecture comprises of several key components that work together to provide a robust party role management solution:
- **Party Role Database:** At the core of the system is a scalable and high-performance party role database (implementation dependent – example, some implementations may integrate with VF IDaaS). This database stores essential information related to party roles, their attributes, and associated data. It ensures that parties are accurately represented within the Vodafone ecosystem.
- **API Gateway:** The API is exposed through a dedicated API gateway, responsible for handling crucial security measures such as authentication, authorization, rate limiting, and request routing. It ensures secure and efficient access to party role data.
- **Business Logic Layer:** This layer encapsulates the core business rules and logic governing party role management. It enforces data validation, role attribute handling, and party role lifecycle management, guaranteeing data integrity and compliance with established policies.
- **User Interface:** Implementation dependent.
Integration Points: The system offers integration points for external systems, enabling seamless communication with other systems, such as billing, order management, and customer relationship management (CRM) systems. This integration ensures that party role updates are reflected throughout the entire Vodafone ecosystem.

Scalability: The architectural design is inherently scalable, allowing for the addition of new party roles and attribute sets without compromising system performance. This scalability ensures that telecommunications service providers can adapt to the evolving demands of the industry efficiently.

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 communication mechanism.

In conclusion, TMF699 Party Role Management API, serves as a vital component to ensure the reliable communication 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-TMF669RW-HTMLRESULTS.html