TM Forum Open APIs

Conformance Certification

Company Name: **Vodafone Group (Reference Implementation)**

**TM Forum Open API Name:**
**TMF720 - Digital Identity Management**

**TM Forum Open API Release Version:** 4.0.0

Report Date: **29/09/2023**
1. **What Product or Solution does your API support?**

Digital Identity Management API provides the ability to manage a digital identity. This digital identity allows to identify an individual, a resource, or a partyRole (a specific role - or set of roles - for a given individual).

**Use case:**
This API may be used by consumer applications to manage a digital identity.
- List or find DigitalIdentity entities.
- Create DigitalIdentity
- Retrieve a DigitalIdentity
- Delete a DigitalIdentity
- Update a DigitalIdentity

2. **Overview of Certified API**

The Identity Management API provides standardized mechanism to manage digital identities such as creation, update, and retrieval of the representation of identity from relevant identity provider systems. It also allows the notification of events related to change lifecycle.

3. **Architectural View**

Frontend channels/application that invokes TMF720 Digital Identity Management API exposed via an API Management layer. Request traverses the TMF microservice layer towards the secure backend system to retrieve the identities.
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 accurate and aggregated product data for various user entities.

In conclusion, TMF720 Digital Identity Management API v4.0.0 serves as a vital component in the telecommunications ecosystem, facilitating effective creation, modification and retrieval of the digital identities.

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-TMF720RW API-HTML Results