TM Forum Open APIs

Conformance Certification

Company Name: Tecnotree

TM Forum Open API Name: TMF629 - Customer Management

TM Forum Open API Release Version: 4.0.0

Report Date: 13/09/2023
1. **What Product or Solution does your API support?**

In today’s dynamic market, connectivity is taken for granted and OTT players dream up new disruptions almost every day. Communication Service Providers (CSPs) face the unique challenge of retaining existing customers and remaining relevant, and, of course attracting new customers. This forces CSPs to adopt innovative strategies to simultaneously renew existing systems, processes and tools while adding new, complementary ones to stay future-proof, moving to becoming Digital Services Provider (DSP).

Digital Customer Lifecycle Manager (DCLM) enables personalization of every customer’s experience by providing a consistent message across all channels and creation of a single view of each customer with information from all customer touchpoints.

**Omni-channel support:** A customer will be able choose when and where to interact with the DSP and be able to smoothly switch channels at any time and continue the interaction. Customer data will be consistent and seamlessly available across channels. DCLM will be the single source of truth for customer data.

**Analytics and KPIs:** DCLM provides DSPs the insights on customer behavior as well as on the performance of their CSRs and stores, using state-of-the-art analytics engine built into the system.

**Customer Centric Architecture:** DCLM enables DSPs to capture and maintain all customer related information. This eliminates duplication and customer data ambiguity, across various customer functional units. DCLM enables a unified convergent view of a customer and the related information across service lines and channels. It provides a 360-degree view of the customer including the history
of interactions and service requests. DCLM users have access to customer information set that is aggregated, maintained, and managed across the enterprise.

2. Solution deployed at MTN Nigeria

MTN Nigeria is one of Africa’s largest providers of communications services, connecting approximately 77 million people in communities across the country with each other and the world. MTN Nigeria is a subsidiary of MTN Group, a multinational telecommunications group connecting approximately 272 million people across Africa and the Middle East.

MTN (Nigeria) Metamorphose - powered by Tecnotree is an automation-driven solution that will enable dynamic and improved user experience, enhanced 360-degree customer view, will modify existing workflows, improve the productivity of the workforce through personalized dashboards, and will provide omnichannel engagement & user journey optimization, with improved order management.

Following is the high-level architecture overview of the deployed solution from Tecnotree at MTN Nigeria.
3. Overview of Certified API

Customer Entity (Customer can be a person, an organization or another service provider who buys products from an DSP/enterprise) is managed by the Tecnotree’s Digital Customer Lifecycle Manager (DCLM). DCLM provides Open APIs/REST Based APIs in line with TM Forum defined specification for customer and customer account management such as creation, update, retrieval, deletion and notification of events.

MTN Nigeria Specific Use Cases:

- The customer management API is used to get the List Customers/Search customer using various attributes such as customer account ID, Customer ID number, customer name, customer MSISDN.
• DCLM utilizes Customer management API to Retrieve Customer information.
• Customer Management API supports below mentioned customer operation:
  o Create Customer
  o Patch Customer
  o Delete Customer
  o Issue Unique Customer ID
  o Gather Authentic Information (e-KYC)

4. Architectural View

![Image of Architectural View](image)

*Figure 2 Customer Management*
5. Test Results

Click here to see the test results: TECNOTREE-TMF629 API-HTML Results