TM Forum Open APIs

Conformance Certification

Company Name: Beesion Technologies

TM Forum Open API Name:
TMF622 – Product Ordering Management

TM Forum Open API Release Version: 4.0.0

Report Date: 30/11/2023
1. **What Product or Solution does your API support?**

Beesion Telecom solutions and suites are built with low code development platform, and distributed microservices architecture, with modern and robust IT layer technology. It’s design is modular, agnostic, and catalog-driven, to improve customer experience and minimize the order fallout. Therefore, the user experience and time to market are improved.

With a Pre-built process, strong model of data, supporting multi-types of integrations, Beesion Provides to Telecom industry the sufficient support for B2B, Wholesale and B2B markets.
2. **Overview of Certified API**

As part of the sales process, Beesion Technologies deployed TM Forum Product Order Management API (TMF622) that enables the interaction between sale/negotiation process layer and ordering layer for placing a product order. The information domains of the orders received comprise all the information defined in the TMF622 specification resource model, including, related parties, account, agreement, the product matrix with its specifications, relationships and actions (add, noChange, modify or delete).

The Beesion API, was built following the TM Forum specification.

The sequence of actions performed by Beesion Product Management (COM) is shown in the following sequence diagram, which includes the integrations with the catalog, inventory, and Service Order.

References:
1- Enrichment stage
2- Product creation
3- Service order creation
4- Product state change from *created* to *pendingActive* or *active*.
3. **Architectural View**

The Following diagram illustrates its internal modules and functional domains, as well as external integrations.

The detailed sequence of actions performed by Beesian Product Management (COM) are shown in the following sequence diagram.
Beesio Order Manager receives orders in the format established by the TMF622 specification. Initially, orders are received, generating the order ID, storing its content, and synchronously returning the acknowledgment.

Subsequently, syntactic validations, standard ordering business logic, and the business rules defined in the implementation for the telecommunications operator are performed to accept orders as valid. If the validations are not successfully completed, the order is canceled, and the reason for the error is asynchronously reported with a change of order status notification.

Once the validation phase is completed, the order is enriched with information from the Product Catalog, and the product is then created in the Product Inventory. The order is decomposed according to the catalog definition, and the necessary n-service orders are created.

Upon successfully completing the service orders, the status is updated in the inventory, the billing system is notified, and the order is successfully completed, with a state change notification through the API.
4. **Test Results (HTML Results)**

Click here to view the test results: Beesion-TMF622-HTMLResults.html