TM Forum Open APIs

Conformance Certification

Company Name: ITgma

TM Forum Open API Name:
TMF633 - Service Catalog Management

TM Forum Open API Release Version: 4.0.0

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1. **What Product or Solution does your API support?**

ITgma’s Enterprise Product Catalog and Product Inventory is dedicated to facilitating telecom excellence by streamlining product catalog and inventory management, enhancing operational efficiency, and ensuring Communication Service Providers (CSPs) stay competitive and innovative in a rapidly changing industry. The Enterprise Product Catalog (EPC) empowers enterprises to create, manage, and deliver a wide range of products, services and resources while adhering to industry standards and best practices. The Product Inventory ensures that everyone in the organization has a clear view of what each customer is using, thus enabling a greater visibility of cross-sell and up-sell opportunities and enables easy product inventory creation and management.

With ITgma’s EPC, companies are not just adopting a master catalog, they are embracing a future-ready telecom ecosystem designed to elevate the enterprise operations, deliver exception customer experience, enable seamless partner and vendor integration, and stay ahead of the competition by reducing time-to-market. By aligning with TMF Information Framework (SID) and utilizing TMF Open APIs, our product catalog provides a common language and structure, ensuring consistent and accurate data representation across multiple channels.

**ITgma’s Enterprise Catalog and Inventory Main Features**

- **Comprehensive Product Management:** The product catalog provides a centralized repository for managing a wide array of telecom services, including voice, data, cloud, mobility, IoT, and more, as well as non-telecom related products. It allows service providers to manage all commercial and technical product related information in one single place by modeling.
  - Product Offerings – as top-tier commercial definition
  - Product Offering Prices and Conditions – configure various charges and fees, price alterations, and price conditions.
  - Product Specifications and characteristics – essence of the product definition and its relevant features
  - Service Specifications and characteristics – management of services being offered to customers.
  - Resource Specifications and characteristics – management of available resources to realize the services offered to customers.
• Real-time Availability: Customers can check the real-time availability of offers, ensuring that they can make informed decisions and select products and services that meet their immediate needs.

• Dynamic Pricing: The catalog supports dynamic pricing models, allowing service providers to adapt pricing in real-time based on factors such as usage, demand, and market conditions. Enabling variety of price models and price conditions.

• Flexible Bundling: Enterprises often require customized service bundles. ITgma’s EPC allows service providers to create flexible bundles of products and services to meet the unique requirements of each customer. Ability to mix-and-match bundles by allowing customers to build their own bundle.

• Product Decomposition: Product Specifications can be directly linked to modeled Service and Resource specifications enabling easy model reusability and enabling easy OSS integration.

• Entity Versioning: The catalog supports entity versioning, enabling service providers to manage changes and updates to products while ensuring that existing customers and their product inventories are not disrupted.

• End-to-End Product Lifecycle Management: It facilitates product lifecycle management, from initial concept and design to end-of-life management. This includes tracking dependencies, changes, and retirements.

• Customer-Centric Design: The catalog is designed with a focus on the customer experience, providing an intuitive and user-friendly interface for enterprise customers to browse, order, and manage their services.

• Product, Service and Resource Inventory: Capability of storing the whole customer inventory, inventory update based on customer behavior. Provides option for obtaining active products for a customer.

• Categorization: Provides user-defined categorization of entities for easy grouping
2. Overview of Certified API

ITgma’s Enterprise Product Catalog exposes TMF633 Service Catalog Management API which is based on the TMF OpenAPI framework and plays a pivotal role in modernizing and streamlining telecommunications operations, particularly in the realm of product and service catalog management, offering standardized solution for rapid product development.

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<th>Resource</th>
<th>Description</th>
<th>REST Operations</th>
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| Service Specifications      | The Service Specifications entity defines what should be delivered as part of the offer (the desired outcomes and outputs for services) rather than details of how the service is provided. Service Specifications can be modeled utilizing user-defined re-usable characteristics and their appropriate values. Entities in this domain enable Services to be bound to Products and run using Resources. Service Catalog API allows users to browse service specifications or get details about a specific service specification, create new service specifications, modify, and delete them. | • GET/serviceSpecification  
• GET/serviceSpecification/{id}  
• POST/serviceSpecification  
• PATCH/serviceSpecification/{id}  
• DELETE/serviceSpecification/{id} |
3. **Architectural View**

![Architectural View Diagram]

- **Microservice Architecture**
  - Resource Domain
    - Resource
  - Service Domain
    - Service
  - Product Domain
    - Product
  - Common Domain
    - Common

- API Gateway
- Client Apps
  - Mobile
  - Web
- Database

- **List of APIs**:
  - TMF639 Resource Inventory
  - TMF634 Resource Catalog
  - TMF638 Service Inventory
  - TMF633 Service Catalog
  - TMF637 Product Inventory
  - TMF620 Product Catalog
4. Test Results

Click here to see the test results: ITgma-TMF633-htmlResults.html