

# Open API Table - Early Adoption (Beta)

The increasingly complex multi-partner digital services value chain raises new challenges in terms of ensuring time-to-market, seamless management, cost-effectiveness and revenue sharing.

In order to meet these challenges, TM Forum members including the world's largest service providers and suppliers, have been working to develop APIs that enable the open digital ecosystem and provide critical management functionality to digital services.

**This table contains links to Beta versions of the Open APIs which are available to TM Forum members or **API Project Members** only.**

**By default, the information in the table is sorted by API title, but can be re-sorted (for example, by Document Number or Release Version) by clicking on the relevant column headings.**

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## TM Forum Open APIs Early Adoption (Beta) Versions

TM Forum Open APIs	Document Number	Swagger (Apache 2.0 or RAND)	API User Guide / Specification (RAND)	Conformance Profile (RAND)	CTK	Sample Implementation Code	Postman Collection	Release	Swagger Version
<b>Trouble Ticket API</b> Provides a standardized client interface to Trouble Ticket Management Systems for creating, tracking and managing trouble tickets among partners as a result of an issue or problem identified by a customer or another system. Examples of Trouble Ticket API clients include CRM applications, network management or fault management systems, or other trouble ticket management systems (e.g. B2B).	TMF621		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.1.0
<b>SLA Management API</b> Provides a standardized interface for Service Level Agreement (SLA) life-cycle Management (SLA Negotiation, SLA configuration SLA Activation/enforcement, SLA Operations, SLA violation / consequence handling, SLA reporting) between a Customer and a Service Provider which provides offers (product with attached SLA in its catalogue) the customer can discover, browse, trigger and order.	TMF623		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.0.0

<b>Performance Management API</b> Provides a standardized mechanism for performance management such as the creation, partial or full update and retrieval of resources involved in performance management (Measurement Production Job, Measurement Collection Job, and Ad hoc Collection). It also allows notification of events related to performance.	TMF628	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Service Test Management API</b> Service Test Description	TMF653	 Apache			 RAND	 RAND	 RAND	21.5.0	v4.2.0
<b>Change Management API</b> The Change Management API provides the standard integration capabilities between external applications and Change Management Application	TMF655	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available		v4.0.0
<b>Resource Function Activation and Configuration API</b> This API introduces Resource Function which is used to represent a Network Service as well as a Network Function. The Network Service and Network Function class definitions and associations in TR244 (which, in turn, builds on concepts from the SID addenda on Logical Resource and Service) are utilized to define the Resource Function	TMF664	Swagger Not yet available		Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.0.0
<b>Account Management API</b> Provides standardized mechanism for the management of billing and settlement accounts, as well as for financial accounting (account receivable) either in B2B or B2B2C contexts	TMF666	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.1.0
<b>Party Role Management API</b> A standardized mechanism for general party roles and includes operations such as creation, update, retrieval, deletion and notification of events. Notice that for the management of customers there is a specific Customer Management API. Party Role management API manages the following data resources: PartyRole	TMF669	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.1.0
<b>Promotion Management API</b> Used to provide the additional discount, voucher, bonus or gift to the customer who meets the pre-defined criteria. Using promotion, the enterprise is able to attract the users and encourage more consumption, especially continuous purchases. Normally Promotion is not regarded as one type of product or product offering. It is often applied when the customer buys the product offerings with the price or amount surpassing the certain limit	TMF671	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Geographic Location Management API</b> Provides the information of a geographic region of the entity (customer, equipment, address).	TMF675	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Usage Consumption Management API</b> This API provides the real-time value within buckets (SMS, Voice, Data, TV for example) that a customer consumes with each of their devices, related to subscribed communication products without having to wait for the bill cycle. A usage report retrieves the data related to these balances.	TMF677	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Recommendation Management API</b> Recommendation API is used to recommend offering quickly based on the history and real-time context of a customer. It is a real-time and personalized recommendation API. It is usually provided by e-commerce or BSS, CRM system in omni-channel.	TMF680	 Apache			Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0

<b>Event Management API</b> <p>The Event Management API provides a standardized client interface to the enterprise event management system for creating, managing and receiving service related events to (indicatively) drive automation workflows, notify other service providers for service outages and SLA violations, trigger Trouble Ticket creation, and enable more complex orchestration scenarios between management systems. The Event Management API can also be used to convey business level Events in support of other processes.</p>	TMF688	 Apache			Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Federated ID Management API</b> <p>The management of principals of any kind (persons, objects, ...) and their access to resources in an open environment which can span across different enterprise boundaries. It relies on authentication, authorization and consent mechanisms to protect privacy with a simple and easy user experience. Different parties can provide identity services (operators, social networks, GSMA, ...).</p>	TMF691	 Apache		Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Work Order Management API</b> <p>The Work Order API performs the following operations on a workOrder resource:</p>	TMF697	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available		v4.0.0
<b>Sales Management API</b> <p>The Sales Management API provides interfaces for Sales Lead, Sales Opportunity, Sales Quote and the other management capabilities to support the sales activities to build relationship with the prospect customer who could be a person or organization that has an interest in the goods and/or services and possibly become the actual customers with one or more subscriptions.</p>	TMF699	 Apache		Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.1.0
<b>Shipping Order Management API</b> <p>Provides the necessary functionality to create, update and query Shipping Orders. A Shipping Order is a document used by a business to specify what items are to be transferred from a storage location or warehouse to which person and to which new location. A ShippingOrder typically is sent along with a shipment of goods so that the person receiving them can verify that the document correctly reflects the items that they actually received.</p>	TMF700	 Apache	Not yet available		Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Process Flow Management API</b> <p>The ProcessFlow API allows management of business process. It provides all required information to achieve business task requiring manual action:</p>	TMF701	 Apache			Not yet available	Not yet available	Not yet available	19.0.1	v4.1.0
<b>Resource Activation Management API</b> <p>The Resource Activation and Configuration API can be used to query resource instances to acquire the resource activation states and attributes, and it can be used to create/update, configure and activate the resource instances.</p>	TMF702	 Apache			 RAND	 RAND	 RAND	21.5.0	v4.0.0
<b>Entity Inventory Management API</b> <p>The intent of this API is to provide a consistent /standardized mechanism to query and manipulate the Entity inventory.</p>	TMF703	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Shipment Management Management API</b> <p>Shipment Management</p>	TMF711	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available		v4.0.0
<b>Customer360 Management API</b> <p>An API to give a consolidated Customer overview. This is a view-only API, based on the various underlying involved TM Forum Open APIs. This API provides references where one can find detailed information for: Account, Agreement, Appointment, CustomerBill, InteractionItem, LoyaltyBalance, ProductOrder, ProductValue, Promotion, Quote, ServiceProblem, TroubleTicket, UsageSpecification</p>	TMF717	 Apache	Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0

<b>Digital Identity Management API.</b> Provides the ability to manage a digital identity. This digital identity allows identification of an individual, a resource, or a partyRole (a specific role - or set of roles - for a given individual). A digital identity is associated with credential / authentication method. These credential / authentication methods should be extensible to describe all types of authentication method such as login/password, biometric, token, etc.. A contact medium is also associated with digital identity (or directly at credential level) to manage credential recovery UCs.	TMF720		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Metadata Catalog Management API</b> Metadata Catalog	TMF725		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available		v4.0.0
<b>Service Usage Management API</b>	TMF727		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.0.0
<b>IoT Agent and Device Management API</b> In addition to including established TM Forum Open APIs, such as alarm management, resource management and activation APIs, the IoT Device Management API Component Suite also includes an IoT Data Access Endpoint API. This API allows for IoT data access using different types of protocols (MQTT IoT, CoAP, etc.). It encapsulates the protocols and allows devices to be easily integrated into solutions that support a host of IoT initiatives, including smart cities, smart factories and other vertical markets.	TMF908			Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>IoT Service Management API</b> The IoT Service Management Component suite captures the minimal essential operational APIs required to manage IoT service end to end, and therefore accelerate IoT infrastructure as a service and help manage IoT at scale.	TMF914			Not yet available	Not yet available	Not yet available	Not yet available	21.5.0	v4.0.0
<b>Intent</b> The Component Suite for Intent Management API defines the set of operations that should be offered to manage intent and intent-driven interactions in a consistent manner.	TMF921		Not yet available	Not yet available	Not yet available	Not yet available	Not yet available	22.0.0	v4.0.0

*Note: Reference/Sample implementation is not an architecture direction but a sample in a sandbox*