Open API Program Charter (R19.0) - A Core Project Area Charter

* indicates that this field is required

Project Name*	Open API Program
IPR Mode*	RAND Explanations of each mode is available at http://www.tmforum.org/IPRPolicy/11525/home.html
Project Start Date*	December 2018
Project End Date*	September 2019
Type of Project*	Development Project
Strategic Program	Agile Business & IT
Previous Project Charter	Open API Program Charter (R18.5) - A Core Project Area Charter
Project Workspace Link	Open API Project Home
Project Sponsor*	Laurent Leboucher
Project Team Lead*	Andreas Polz, Stephen Harrop
TM Forum Staff Support	Pierre Gauthier, George Glass, Derek Flexer, Henrique Rodrigues

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2. Project Overview

Developing best practices and standards in certain fields greatly benefits from frequent joint work or exchange of live collaboration materials with other TM Forum projects.

To facilitate low-friction collaboration between such projects, this RAND Project Charter is a member of a larger "Core Project Area" which holds the RAND Project Charters; Frameworx (Fx), Open APIs (APIs) & Open Digital Architecture (ODA).

One of the most important sets of assets that the Forum provides to the industry is a set of standard interfaces that enable rapid, repeatable, and flexible integration among operations and management systems.

- · Reduce full lifecycle costs of networks and services through use of well documented, consistent interfaces
- Integrate management systems with each other while minimizing cost and risk
- · Reduce cycle time for deploying new network equipment with shorter management system integration and test cycles
- · Reduce cycle time for getting new services to market with repeatable management systems integration
- Reduce development costs for adding new management capabilities with developer kits and reusable designs and code
- · Easily share management information across departments, subsidiaries or with partners
- · Creating an agile flexible architecture that is capable of responding rapidly to the needs of the business

The work of the Open API Project is to provide APIs that allow simple and coherent management of any given service and provide developers key design patterns to enable rapid implementation across both the members of the Forum as well as the larger digital ecosystems outside of TM Forum.

Migration of machine readable artifacts to Apache 2.0 license mode in R18.0

It is the TM Forum's intent to re-issue the existing TM Forum Open APIs under Apache 2.0, many of which were completed in R18 and to release the swagger code for new APIs under the Apache 2.0 license. For clarifcation purposes, the API specification will continue to be released under the RAND license mode. Per the TM Forum Bylaws, we have created a new project and ask all software contributors to existing APIs to join this area with the knowledge that the resulting API swagger files will be published with Apache 2.0 license. The API swaggers will be up versioned and new notice and licensing statements added.

The human readable artifacts (Open API Specifications, Conformance Profiles and SID mapping documents) will continue to be published under the RAND license mode from work carried out under this charter.

Computer readable artifacts (Swagger files) will henceforth be published under the Apache 2.0 license mode under a related but different charter, see: API Apache 2.0 Project (R18.5) - DRAFT

RI's & CTKs will for the time being be released under the RAND license mode.

Given signficant advancements in the CTK development, Postman files are being considered to be phased out as part of R18.5.

All artifacts will be consumable from one place, in the Open API portal, here: Open API Table

User Stories

Provide a high-level description of how an end-user might use the output of the project.

If desired, copy and paste the table below to create multiple instances of the table and complete it for each user story.

As a	
I need to	
So that I can	
To do this I need	

As a	TMF member
I need to	have a standard means to monitor performance, bill and settle accounts, on-board new partners, order and provision services, and so on
So that I can	move quickly in the market and work with the broadest set of vendors, partners and channels
To do this I need	a complete set of easily adoptable APIs that are common across both the TMF community and the broader IT ecosystem

As a	Other industry developer
I need to	extend and integrate my solutions with telco providers
So that I can	bring existing and new products and services to a broad market
To do this I need	a rich set of APIs that provide a standard and reasonable means to integrate the various business systems

As a	TMF member
I need to	be able to work with all the APIs provided by TM Forum in a consistent and expected manner
So that I can	contain costs and deliver solutions in the shortest time possible
To do this I need	the APIs from TM Forum to be consistent and follow common patterns that are generally adopted across the wider developer community

4. Dependencies

Add in other projects and Frameworx dependencies this project will have. Please enter if your project will require INPUT FROM, produce OUTPUT TO or require JOINT WORKING with the named projects/Frameworx. In the COMMENTS column describe the nature of the input, output or joint working.

Project Name	INPUT FROM / OUTPUT TO / JOINT WITH	COMMENTS (describe nature of Input / Output / Joint)	API Contact	Other Project Contact
API- Apache 2.0	0	API specifications team approved and published to the API-Apache 2.0 project where the Swagger will be constructed	Derek Flexer	Derek Flexer
API- Apache 2.0	I	Once the API-Apache files have been uploaded or edited in the tmforum-apis GitHub organization and been "promoted" to a public copy, this is then ready for review.	Derek Flexer	Derek Flexer
Customer Centricity	I & O	Ensure consistentcy between the Customer Care type Component Suites and the Customer Centricity program	George Glass	Cecilia Ortega Lagos
Security & Privacy	I & O	Ensure consistentcy between the activities and challanges identified by the security and privacy programs and the relevant future APIs, plus the capture of the application of security & privacy as part of component suite defintion	George Glass	
IOE & Digital Ecosystems	I & O	Jointly Develop the IoT Device management Component Suite Jointly Develop the Open Digital Lab	George Glass	Joann O'Brien
DMM	I & O	A review of the technology area of the DMM is required to ensure that it meets the needs of the ODA & API programs.	George Glass	Robert Walker
AI & ML	I &O	Review the advancements by the AI Program for implications to the API program	George Glass	Aaron Boasman- Patel
Frameworx	Joint	API / SID mapping.	Stephen Harrop	Cecile Ludwichow ski
Open Digital Arch	Joint	ONAP product suite NaaS product suite	Ludovic Robert Stephen Harrop	
Smart City	I & O	Merging Open Digital APIs with FiWARE APIs - API specification work	Pierre Gauthier	Joann O'Brien

5. Participants

This section identifies the human resources and skills required by the project to successfully deliver the items listed in this charter. Unless otherwise noted, the level of commitment of all project participants is Best Effort.

At the time the charter is written, the individuals listed below are considered tentative participants. When the charter is approved, the tentative participants will be notified and they can "join" the project in the online community. From that point forward the project resources will be maintained and viewable in real time.

^{*} indicates that this is a required field or role.

Role	Name*	Company*	Confluence "@" mention	Comments
Project Co-Team Lead	Andreas Polz	Infonova	Andreas Polz	
Project Co-Team Lead	Steve Harrop	Vodaphone	Stephen Harrop	

Mentor	Pierre Gauthier	TM Forum	Pierre Gauthier	
Sponsor*	Laurent Leboucher	Orange	Laurent Leboucher	
Subject Matter Expert	Pierre Gauthier	TM Forum	Pierre Gauthier	
Staff	George Glass	TM Forum	George Glass	
	Henrique Rodrigues	TM Forum	Henrique Rodrigues	

Role Descriptions & Responsibilities given in section 11

6. Project Workstreams and Deliverables

The project workstreams and deliverables for this project are introduced in the sections below.

6.01: API Design Guidelines

Workstream Leader: Pierre Gauthier, Stephen Harrop

The API design guidelines capture the REST base patterns to be deployed across all TM Forum Open APIs. Consistent application of these guidelines is key to the successful development and application of a consistent suite of APIs. This includes also the extension capabilities to the APIs.

R ef #	Deliverable short name	Deliverable type/number	Description	A u di e n ce	In te n d e d u se	Pla n for 1st 90 days	Pla n for end of cyc le	Spon sor / cons umer supp ort	N ot es
6. 0 1.1	Prepare API Design Guidelines 3.1	TMF630 Confluence Guidance notes & Swagger generator tool updates 22 Oct 2018 Confluence has been updated & the generation tool is being updated: Design Guidelines FAQ and 3.1 Updates	DG3.1 - minimum spec for swagger file Support polymorphism Event Support Event support Event support (minor) - notification description in the swagger of the API - needs a convention Entity ReforValue Ref or Value: more explicit Characteristic Value Validation> Version support - DG change to put the major version (mandatory) & minor version (optionally) in the URL and to show this in the examples			Core			
6. 0 1.2	Prepare & publish API Design Guidelines 3.2 (maybe now refer to as DG 4.0 to align with R18.5 & R19.0 API versions of 4.0?)	TMF630	Updates to reflect any implications to address "schemification" work done in R18.5 - DG must be agnostic to tooling (vendors must be able to create compliant APIs without access to the tooling) - but in order to support the tooling, we may have introduced conventions which should be reflected here.			Core			
6. 0 1.3	Scope & roadmap for API Design Guidelines 4.0 (maybe now refer to as DG 5.0 as per above?)	TMF630 roadmap	See 2019-02-12 TAW Tuesday Q2 - API architecture update & input document Specific Data model supports (iTIL Firewalls) Open API component suite principals & patterns The notion of a schema registry Component Suite concept & principal (initially developed stand-alone, then merge into DG) Polymorphic pattern - improve explanation, more precise, more explicit examples Separation of concern - definition and JSON-schema (imported) Events (schema) (bigger & more disruptive work) Support for reactive based design - Evolution of Transport / Protocols (currently use http - may need more modern messaging protocol with lower latency) OS migration - Support for swagger 3.0 Moving to swagger 3.0? Swagger template Including events & notifications Decoupling JSON schema from swagger (DGx.0) In this mode, you import the data model, essentially there are now two files, rather than one				Stre tch		

6.	Update Crowdsourcing template	TMF425	Move to new TM Forum branding & update to reflect "schemification" and		Core	St
0			remove references to Orange Enterprise datamodel			ep
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						H
						ar
						rop

6.02: Road mapped APIs - R19.0 P1s

Workstream Leader: Ludovic Robert

"Schemification of APIs" - Scope agreed at Lisbon Action Week, as per 2019-02-13 TAW Wednesday Q3 - R19.0 API Roadmap & beyond and the results posted back to Confluence here: Open API Catalog - plus there are some new APIs in this list

R ef #	Deli vera ble sho rt name	De liv er ab le ty pe /n u m ber	Description	A u di e n ce	In te n d e d u se	PI a n fo r 1 st 9 0 d a ys	PI a n fo r e n d of c y cle	Sponsor / consumer support	N ot es
6. 0 2. 01	Acc ount Man age men t API	T M F6 66	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		D o m ai n: E n g a g e d P ar ty	Core		Lisbon Team Action Week Feb-2019: Mariano to regenerate for R19.0 L: marian o. belaunde@oran ge.com M: Cecile. ludwichowski@o range.com	
6. 0 2. 02	Agre eme nt Man age men t API	T M F6 51	The Agreement API provides a standardized mechanism for managing agreements, especially in the context of partnerships between partners.		D o m ai n: E n g a g e d P ar ty	Core		Lisbon Team Action Week Feb-2019: Mariano to regenerate for R19.0 L: marian o. belaunde@oran ge.com C: karthik. balakrishnan@a mdocs.com	
6. 0 2. 03	App oint men t API	T M F6 46	The appointment API provides a standardized mechanism to book an appointment with all the necessary appointment characteristics. The API allows searching of free slots based on parameters, as for example a party, then creating the appointment. The appointment has characteristics such as nature of appointment, place of appointment.		D o m ai n: C us to m er	C ore		Lisbon Team Action Week Feb-2019: Gregore to regenerate for R19.0 L: sophie. bouleau@orang e.com, M: yanivgi@amd ocs.com	
6. 0 2. 04	Cust ome r Man age men t API	T M F6 29	Provides a standardized mechanism for customer and customer account management, such as creation, update, retrieval, deletion and notification of events.		D o m ai n: C us to m er	Core		Lisbon Team Action Week Feb-2019: Mariano to regenerate for R19.0 L: marian o. belaunde@oran ge.com M: patricia@szita@ accenture.com	

6. 0 2. 05	Trou ble Tick et API	T M F6 21	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).	D o m ai n: C o m m on	C	Lisbon Team Action Week Feb-2019: Jacob to regenerate for R19.0 L: Jacob C: Luis C: Ludovic M: yanivgi@amd ocs.com
6. 0 2. 06	Loy alty Man age men t API	T M F6 58	Supports the management of loyalty program specifications, loyalty program members, their associated products and loyalty accounts with loyalty balances	D o m ai n: Pr o d uct	C	Lisbon Team Action Week Feb-2019: Clara to regenerate for R19.0 L: clar a. vstaden@globet om.co.za M: narayanan_k @infosys.com
6. 0 2. 07	Part ners hip Typ e Man age men t API	T M F6 68	Standardized mechanisms for creating partnership types. It is one of the APIs involved in an onboarding process. Identifies a type of a partnership between parties, including the list of role types that are permitted (i.e Buyer, Seller, Developper). Role types may refer to agreement specifications to be signed by parties playing the role. The API allows the retrieval, creation, update and deletion of partnership type and its owned sub-resources.	D o m ai n: E n g a g e d P ar ty	Core	Lisbon Team Action Week Feb-2019: Mariano to regenerate for R19.0 L: marian o. belaunde@oran ge.com, M: mbesson@t mforum.org
6. 0 2. 08	Part y Man age men t API	T M F6 32	Provides standardized mechanism for party management such as creation, update, retrieval, deletion and notification of events. Party can be an individual or an organization that has any kind of relation with the enterprise.	D o m ai n: E n g a g e d P ar ty	Core	Lisbon Team Action Week Feb-2019: Sophie to support during R19.0 L: sophie. bouleau@orang e.com M: calogero. cascio@accentu re.com
6. 0 2. 09	Part y Role Man age men t API	T M F6 69	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	D o m ai n: E n g a g e d P ar ty	Core	Lisbon Team Action Week Feb-2019: Mariano to regenerate for R19.0 L: marian o. belaunde@oran ge.com, M: cecile. ludwichowski@o range.com
6. 0 2. 10	Perf orm anc e Thre shol ding API	T M F6 49	This covers the Threshold aspects of Performance Management, also named Performance Threshold Management or PM Threshold. Provides a standardized mechanism for performance management such as creation, partial or full update and retrieval of the resources involved in performance management (Measurement Production Job, Measurement Collection Job, and Ad hoc Collection). It allows also notification of events related to performance	D o m ai n: C o m m on	C	Lisbon Team Action Week Feb-2019: Need to confirm ownership with Yuval to regenerate for R19.0 JIRA issues: AP-323 L: Yuval Stein?, C: pgauthier@t mforum.org
6. 0 2. 11	Prod uct Cata log Man age men t API	T M F6 20	Provides a standardized solution for rapidly adding partners' products to an existing Catalog. It brings the capability for Service Providers to directly feed partners systems with the technical description of the products they propose to them.	D o m ai n: Pr o d uct	Core	Lisbon Team Action Week Feb-2019: Jonathan to regenerate for R19.0 L: kamal. maghsoudlou@ ericsson.com M: kamal. maghsoudlou@ ericsson.com

6. 0 2. 12	Prod uct Inve ntor y Man age men t API	T M F6 37	A standardized mechanism for product inventory management such as creation, partial or full update and retrieval of the representation of a product in the inventory. It also allows the notification of events related to the product lifecycle	D o m ai n: Pr o d uct	Core	Lisbon Team Action Week Feb-2019: Ludovic to regenerate for R19.0 L: ludovic. robert@orange. com M: Jonathan. Goldberg@amd ocs.com
6. 0 2. 13	Prod uct Offe ring Qual ificat ion API	T M F6 79	Product Offering Qualification API is one of Pre-Ordering Management API Family. Product Offering Qualification API goal is to provide Product Offering commercial eligibility	D o m ai n: C us to m er	Core	Lisbon Team Action Week Feb-2019: Ludovic to regenerate for R19.0 L: ludovic. robert@orange. com
6. 0 2. 14	Prod uct Ord erin g Man age men t API	T M F6 22	API provides a standardized mechanism for placing a product order with all of the necessary order parameters	D o m ai n: . C us to m er E n g a g e d P ar ty	Core	Lisbon Team Action Week Feb-2019: Ludovic to regenerate for R19.0 L: ludovic. robert@orange. com, M: calogero. cascio@accentu re.com
6. 0 2. 15	Quo te Man age men t API	T M F6 48	The Quote API is one of the Pre-Ordering Management APIs. The customer Quote API provides a standardized mechanism for placing a customer quote with all of the necessary quote parameters.	D o m ai n: C us to m er	Core	Lisbon Team Action Week Feb-2019: Ludovic to regenerate for R19.0 L: ludovic. robert@orange. com
6. 0 2. 16	Sho ppin g Cart API	T M F6 63	Standardized mechanism for the management of shopping carts. Including creation, update, retrieval, deletion and notification of event. Shopping Cart entity is used for the temporarily selection and reservation of product offerings in e-commerce and retail purchase. Shopping cart supports purchase of both tangible and intangible goods and service (e.g. handset, telecom network service). The charge includes the one-off fee such as the fee for handset and the recurring fee such as the fee of a network service. Shopping Cart contains list of cart items, a reference to party or party role (e.g. customer) or contact medium in case of unknown customer, In addition the calculated total items price including promotions.	D o m ai n: C us to m er	Core	Lisbon Team Action Week Feb-2019: Jacob to regenerate for R19.0 L: jacoba @amdocs.com, C: Huawei C: Orange M: Jonathan. Goldberg@amd ocs.com

6.03: Road mapped APIs - R19.0 P2s

Workstream Leader: Ludovic Robert

"Schemification of APIs" - Scope agreed at Lisbon Action Week, as per 2019-02-13 TAW Wednesday Q3 - R19.0 API Roadmap & beyond and the results posted back to Confluence here: Open API Catalog

R ef #	Deliver able sh ort name	Deli vera ble type /nu mber	Description	A u di e n ce	Inte nde d use	Pla n for 1st 90 da ys	Pla n for en d of cyc le	Sponsor / consumer support	N ot es
6. 0 3. 01	Custom er Bill Manage ment API	TMF 678	This API allows operations to find and retrieve one or several customer bills (also called invoices) produced for a customer also allows operations to find and retrieve the details of applied customer billing rates presented on a customer bill.		Do mai n: Cus tom er		Str etch	Lisbon Team Action Week Feb-2019: Could Orange or Amdocs sponsor this? L: sophie. bouleau@orange.com M: Cecile. ludwichowski@orange.com	

6. 0 3. 02	Geogra phic Address Manage ment API	TMF 673	Provides a standardized client interface to an Address management system. It allows looking for worldwide addresses. It can also be used to validate geographic address data, to be sure that it corresponds to a real geographic address. Finally, it can be used to look for a geographic address by: searching an area as a start (city, town), then zooming on the streets of this area, and finally listing all the street segments (numbers) in a street.	Do ma n: Co mn on		Str etch	Need to align with GeoJSON and Schema. org for SmartCity work with FIWARE L: sophie. bouleau@orange.com, C: ludovic. robert@orange.com, C: Jonathan. Goldberg@amdocs.com M: luis. velardetazon@telefonica. com
6. 0 3. 03	Geogra phic Locatio n Manage ment API	TMF 675	Provides the information of geographic region of the entity (customer, equipment, address).	Do ma n: Co mn on		Str	Need to align with GeoJSON and Schema. org for SmartCity work with FIWARE L: sophie. bouleau@orange.com, C: ludovic. robert@orange.com, C: Jonathan. Goldberg@amdocs.com M: luis. velardetazon@telefonica. com Is Patrick Hils - ESRI engaged?
6. 0 3. 04	Geogra phic Site API	TMF 674	Covers the operations to manage (create, read, delete) sites that can be associated to a customer, account, service delivery or other entities. This API defines a Site as a convenience class that allows to easily refer to places important to other entities, where a geographic place is the entity that can answer the question "where?"	Do ma n: Co mn on	i	Str	Need to align with GeoJSON and Schema. org for SmartCity work with FIWARE L: sophie. bouleau@orange.com, C: ludovic. robert@orange.com, C: Judovic. robert@orange.com, C: Jonathan. Goldberg@amdocs.com M: luis. velardetazon@telefonica. com Is Patrick Hils - ESRI engaged?
6. 0 3. 05	Perform ance Manage ment API	TMF 628	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.	Do ma n: Co mn on	i	Str etch	Lisbon Team Action Week Feb-2019: Pierre /Yuval to regenerate for R19.0 L: pgauthier@tmfor um.org
6. 0 3. 06	Privacy Manage ment API	TMF 644	The Privacy Management API provides standardized mechanism for privacy profile types, privacy profiles and privacy agreements such as creation, update, retrieval, deletion and notification of events.	Do ma n: En age d Pa	g e	Str etch	Lisbon Team Action Week Feb-2019: Amdocs to regenerate for R19.0 L: Orange?
6. 0 3. 07	Promoti on API	TMF 671	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	Do ma n: Pro due	i	Str etch	Lisbon Team Action Week Feb-2019: Priority 2 (stretch), but needs ownership L: maxu@hua wei.com
6. 0 3. 08	Recom mendati on API	TMF 680	Recommendation API is used to recommend offering quickly based on the history and real-time context of customer. It is a real-time and personalized recommendation API. It is usually provided by e-commerce or BSS, CRM system in omni-channel.	Do ma n: Pro due	i o	Str	Lisbon Team Action Week Feb-2019: Priority 2 (stretch), but needs ownership L: haohongxia @huawei.com
6. 0 3. 09	SLA Manage ment API	TMF 623	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.	Do ma n: . Cu ton er En age d	i s n g	Str etch	Lisbon Team Action Week Feb-2019: Priority 2 (stretch), but needs ownership L: Orange? - Tayeb

6.04: Open API components

Workstream Leader: Pierre Gauthier, Stephen Harrop

How do we build up TM Forum Open API suites, based on use case and requirements analysis, to support specific industry challenges?

R ef #	Deliverable short name	Deliver able type /number	Description	A u di e n ce	Int en de d use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consume r support	Notes
6. 0 4.1	What is a C & P for a component suite? - TR280 - API Component Suite concepts & principals	TR280 TMF426 - template	TR280: Develop further definition for API component suite TMF426: Evolve the API component suite template for consistent application when crowd sourcing component suite definitions				Stretch		Pierre Gauthier
6. 0 4.2	TMF909: NaaS component suite	TMF 909	Network as a Service (fka End-to-End NFV Management APIs)			Deliver once R18. 5 NaaS related APIs fully released			Johanne Mayer
6. 0 4.3	See Joint working with Digital Ecosystems (6.11) for IoT Component Suite								
6. 0 4.4	TMF911: MEF product suite	TMF911	Possible future component suite				Not for R19.0		Ludovic Robert
6. 0 4.5	TMF912: ONAP product suite	TMF912	Possible future component suite				Not for R19.0		Ludovic Robert
6. 0 4.6	Service test to Test API	TMF653	Make DG3.0 and service test becomes a component of test JAD Catalyst APIs				Stretch		22 Oct 2018 Frank Massoudian presented at TAW, Dallas and is working with the team to progress.

6.05: API/SID mapping Task Force

Workstream Leader: Cecile Ludwichowski, Michel Besson

How do we ensure that the TM Forum Open APIs, developed by a wide collaboration community and crowd sourced, have a consistent information model and data model view - with each other and with SID?

Re f#	Deliverable sh ort name	Deliverable type/number	Description	Audi ence	Intende d use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	No tes
6.0 5.1			White Paper: New overall document - the generalities of how mapped - eg 15 pages for ALL the APIs.				Stretch		
			Need to reassess how to do API / SID mapping in the light of the new "schemified" API situation				Core		

6.06: Driving API Adoption

Workstream Leader: George Glass

Ref #	Deliverable short name	Deliverable type/number	Description	Audie nce	Intende d use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	Not es
6.0 6.1	API steering committee	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	API steering committee						
6.0 6.2	CSP driven Vendor API adoption assessment	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	CSP driven Vendor API adoption assessment						
6.0 6.3	API Conformance	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	Deploy API Conformance product						

6.07: API Tooling and Automation Support

Workstream Leader: Stephen Harrop, Mariano Belaunde, Knut Johannessen, Henrique Rodrigues

How do we create a low friction and repeatable way for our collaboration community to create consistent and low effort swagger files, RI & CTK?

F	Re	Deliverable short	Deliverable type/number	Description	Audi	Intende	Plan for 1st	Plan for end	Sponsor /	No
f	#	name			ence	d use	90 days	of cycle	consumer support	tes

6.0 7.1	Tool Chain improvements	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	Need to continue the development of the toolchain established in R18.5			
6.0 7.2	RI/CTK tooling improvements	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	Develop the initial RI/CTK tooling			
6.0 7.3	RI/CTK structure	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>	Create RAND GitHub structures			
6.0 7.4	CTK tooling	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>				
6.0 7.5	RI tooling	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>				
6.0 7.6	Populate CTKs	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>				
6.0 7.7	Populate RIs	<punch formal="" item="" list:="" no="" publishable="" r19.0=""></punch>				

6.08: SDO Collaborations

Workstream Leader: George Glass; Pierre Gauthier;

How do we collaborate with other SDOs build up TM Forum Open API suites to support specific industry challenges?

R ef #	Deliverable short name	Deliverable type /number	Description	Au die nce	Inten ded use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	Notes
6. 0 8.1	MEF support	<punch list:="" no<br="">formal R19.0 publishable item></punch>	Finalize Part Completed APIs (CTK) New APIs for MEF support - eg trouble ticket						Ludov ic Robert
6. 0 8.2	ONAP TMF API Technical Architecture	TRnnn	TR ONAP TMF API Technical Architecture - Technical paper exploring the technical architecture requirements to support an ONAP service enablement				Stretch		Ludov ic Robert

6.09: Crowd-Sourced APIs

Workstream Leader: Stephen Harrop, Andreas Polz

This area of the charter is reserved for new APIs that are crowd sourced from members during the year. Members can start the process to submit a new API by submitting a JIRA record with the suggested new API. They will be expected to lead the effort to develop and contribute this API through the defined API Governance process. *Any new API work conducted from R19.0 onwards should be consistent with the API schema approach established in R18.5.*

R ef #	Delive rable short name	Deliver able type /numb er	Description	A u di e n ce	Int en de d use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	Notes
6. 0 9. 01	Policy API	TMF693	Need to be able to create & retrieve policies			Design /SID mapping complete	Stretch		MEF has an interest in Policy (from Fred/Verizon)
6. 0 9. 02	SLA API	TMF623	SLA api updates - Innova / Turk telecom				Stretch		
6. 0 9. 03	PM /Usag e mgt API	TMF62 8 / TMF635					Stretch		Yuval Stein?
The	following	g, as discu	ussed at Lisbon TAW 2019-02-13 TAW Wednesday Q1 - New API [Deve	lopme	ents (1 of 2)	and 20	19-02-14 TAW Thursday Q2 - New	API Developments (2 of 2)
6. 0 9. 04	Custo mer Risk API	TMF696	PiGa, need to make the UML consistent with product offering qualification, or even merge / enhance it with that? - It is the same structure, don't re-invent. AnPo: Would be good to process through SID first and then build the API on the modified SID?				Stretch	Moshe Zolotov (Amdocs)	
			PiGa: complete crowd sourcing template - proceed with the submission into the crowd sourcing.						

6. 0 9. 05	Numb er Portab ility API	TMF698	Number Portability (Jacob Avraham) ©AP-1161 - TMF698 Number Portability REGISTERED		Stretch		
6. 0 9. 06	Sales Manag ement API	TMF699	Sales Lead API (Ludovic Robert / Grégoire LAURENT) C AP-1164 - New API: saleLead API REGISTERED		Stretch		
6. 0 9. 07	Distrib uted Ledger API	TMF695	Distributed Ledger API (Clara van Staden / Pieter Janse van Rensburg) CAP-1040 - Proposal of the Distributed Ledger API REGISTERED		Stretch		Pieter Janse van Rensburg Philip Stander AP-1040 - Getting issue details STATUS
6. 0 9. 08	The proces s flow API	TMF701	The process API (Ludovic Robert) CAP-1165 - New API:Process API REGISTERED		Stretch		
6. 0 9. 09	Shippi ng Order API	TMF700	Shipping Order (Jacob Avraham) ©AP-1168 - TMFxxx Shipping Management REGISTERED In time, this will come to replace TMF684, Shipment tracking, as it will subsume all 684s functionality		Stretch		
6. 0 9. 10	Event manag ement API	TMF688	Event is any of the action triggered by the human or the system which requires the notification to the other system.	Do ma in:	Core	Lisbon Team Action Week Feb- 2019: Pierre to regenerate for R19.0 L: levente.janovszki@ncia. nato.int	
6. 0 9. 11	Stock Manag ement API	TMF687	Provides the capability for consumers to search for the stock levels and configuration of one or various Product Offering within Retail Premises (Store) or Storage Premises (Warehouse or Depot).	Do ma in:	Stretch	Confluence page setup Next Steps: Create a crowdsourcing template L: stephen. harrop@vodafone.com, C: jacoba@amdocs.com C: muhammad.alaa@ericsson.com	Vodafone has an AP-1059 - Getting issue details STATUS contribution to this

6.10: API Mapping

Workstream Leader: George Glass

R ef #	Deliverable sho rt name	Deliverabl e type /number	Description	Au die nce	Inte nde d use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	Notes
6. 1 0. 01	АРІ Мар	GB992	Summary paper showing all the current and planned APIs, updated periodically as API releases develop				Stretch		Author for most recent R18.0 update: Hongxia Hao Note, may be no new APIs delivered in R19.0, as there were none in R18.5, so an update may be redundant
6. 1 0. 02	API functional mapping to eTOM & TAM	tba	Mapping functional capabilities of APIs to functions in eTOM & TAM				Stretch		Led by Avi Talmor

6.11: Joint work with the Digital Ecosystems Project

Workstream Leader: Pierre Gauthier

R ef #	Deliverabl e short name	Delive rable type /numb er	Description	Audience	Intended use	Plan for 1st 90 days	Plan for end of cycle	Sponsor / consumer support	Notes
6. 1 1. 01	TMF908: I oT Device Manageme nt Suite	TMF9 08 Stretch	X-team work to support identification and packaging of the IOT Device Management API Suite Specification: TMF908 Swagger: TBD	CSP, Suppliers & Digital Ecosystem Innovator, ecosystem actors and ecosystem platform developers	Jump start IOT use of TM Forum assets;	Draft published for Team review and approval	Publication of Device Mgt Suite - R19.0 Asset	CSP & Suppliers	Namal Prassana Jayathilake & Pierre Gauthier

6. 1 1. 02	IOT Service Manageme nt Suite	TMFX XX Stretch	X-team work to support the managaement of IOT service Draft of Specification Swagger (future deliverable)	CSP, Suppliers & Digital Ecosystem Innovator, ecosystem actors and ecosystem platform developers	Jump start IOT use of TM Forum assets;	TBD	Draft of the IOT Service Managmenet Suite - not for publication/ or member review only	Suppliers & CSPs	Need resources to confirm resources: TBD & Pierre Gauthier
6. 1 1. 03	IOT Data Model	TBD - White paper Stretch	White Paper to describe the Generic IOT Data Model specifications; • identify principles with examples; Compatible with TM Forum Data Model (TBD) Potential dependency on FIWARE Liason (Smart city)	CSP, Suppliers & Digital Ecosystem Innovator, ecosystem actors and ecosystem platform developers	Jump start IOT use of TM Forum assets;	TBD	White Paper (expoloratory report)	Suppliers & smart city industry organizations	Resources to be staffed. Pierre Gauthier
6. 1 1. 04	Open Digital Lab	Stretch	Implementation/deployment of the IOT Device Management Suite of deliverables with the Open Digital Lab for use by Catalyst	Catalyst Users	Jump start IOT use of TM Forum assets;	TBD	Deployment in the Open Digital Lab [Microservice]	Suppliers & Catalyst participants	IBM, Sigma, Sigscale Henrique Rodrigues Pierre Gauthier

7. Member Validation and Feedback Approach

Deliverables require validation and feedback. If the development team has a broad range of Members and Service Providers, validation may be within the team, however if the range of Members and Service Providers is weak, after Team Approval, deliverables must be validated beyond the team. Teams must state their Member & Validation approach here:

Validation Activity Approach	Spec Jams
Validation Activity Description	Face-to-face meetings to resolve & clarify requirements and implementation design, as appropriate to the audience
Dependencies	
Comments	

8. Project Tooling

Indicate the tooling required for project success.

Product	Key Functions	Needed for Project?	
Confluence Space	Document creation and publishing	Provided by default	
JIRA Space	Contribution and feedback management	Provided by default	
GitHub	Code repository (if applicable)	YES	
Other	Public website API Portal	YES	

9. Liaison Relationships

Please indicate if this project has or plans to have a relationship with other External Standards Organizations (SDOs).

Name of Organization	Is this a New or Existing relationship?	Linkages and/or Scope of work	Contact person	Comments
MEF	existing	Sharing API standards		
FIWARE	existing	Sharing API standards		
Eclipse/Papyrus	existing	use of Tooling		
Open NFV	Tentative			

10. Charter History

Version	Date	Comment
Current Version (v. 21)	Mar 22, 2019 11:00	Derek Flexer
v. 20	Mar 21, 2019 06:28	Derek Flexer
v. 19	Mar 20, 2019 10:22	Derek Flexer
v. 18	Mar 20, 2019 10:04	Derek Flexer
v. 17	Mar 08, 2019 13:15	Nancy Lyness
v. 16	Mar 04, 2019 08:33	Derek Flexer
v. 15	Mar 01, 2019 08:13	Derek Flexer
v. 14	Mar 01, 2019 06:05	Derek Flexer
v. 13	Mar 01, 2019 05:37	Derek Flexer
v. 12	Feb 28, 2019 11:05	Derek Flexer
v. 11	Feb 28, 2019 11:02	Derek Flexer
v. 10	Feb 27, 2019 19:16	Derek Flexer
v. 9	Feb 27, 2019 19:04	Derek Flexer
v. 8	Feb 27, 2019 18:43	Derek Flexer
v. 7	Feb 27, 2019 17:01	Derek Flexer
v. 6	Feb 25, 2019 07:08	Derek Flexer
v. 5	Jan 15, 2019 05:04	Derek Flexer
v. 4	Jan 15, 2019 04:41	Derek Flexer
v. 3	Jan 15, 2019 03:35	Derek Flexer
v. 2	Jan 15, 2019 03:07	Derek Flexer
v. 1	Jan 15, 2019 03:06	Derek Flexer

11. Role Definition & Responsibilities

Project Team Lead:

- Ensure project is developed in line with TM Forum IPR policy
- Encourage all participants to take an active role in the project
- Ensure participants have a clear understanding of what they need to complete and when
- Drive the project team for on time delivery
- Lead the design, planning and execution validation activities
- Identify key companies required to position for industry adoption

Mentor:

- · Aid the team to maintain focus on delivery
- · Act as a source of expertise for the team
- Join project calls to assist with blockages
- Seek out expert resource to help as required
- · Be a guide and link to the wider Program

Sponsor:

- Articulate the Industry User Story
- Act as a Champion for the team
- Review progress at six weekly intervals to ensure relevance
- Champion final deliverables at Nice/San Jose
- · Drive Adoption in own organization by championing deliverables as beta versions of solutions to be developed

Participant:

- Develop collaborative solutions as in accordance with the developed charter and inline with Collaboration process
- Participate actively in team working meetings / sessions
- · Complete tasks as agreed with the team or workstream leader

Observer:

- Choose to observe and monitor the progress of a project team
- Use the insights gained to share observed advancements within your organization
- · Ensure planned deliveries are aligned with product roadmap in your organization to gain maximum R&D acceleration value
- Align training and education within your organization to gain maximum value of cost & risk reduction and future proofing your organization

Reviewer:

- All activities of observer plus...
- Review all outputs from team and provide quality timely feedback ensuring output aligns with business and technology requirements of your organization
- Participate in validation activities, these may be online or face to face.
- Monitor Collaboration Events & Activities page for all latest review activities

Subject Matter Expert:

• Provide support and guidance to a project team in your particular area of expertise

Workstream Lead:

- For your agreed workstream;
- Ensure project is developed in line with TM Forum IPR policy
- Encourage all participants to take an active role in the project
- Ensure participants have a clear understanding of what they need to complete and when
- · Drive the project team for on time delivery
- Lead the design, planning and execution validation activities
- Identify key companies required to position for industry adoption

12. Legal Notice

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Direct inquiries to the TM Forum office:

4 Century Drive, Suite 100 Parisppany, NJ 07054 USA Tel No. +1 973 944 5100 fax No. +1 973 944 5110

TM Forum Web Page: www.tmforum.org