***Frameworx Technical Report***

**Recommendation**

**API Conformance Profile**

**TMF680**

**Release 17.5**

**July 2017**

|  |  |
| --- | --- |
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Direct inquiries to the TM Forum office:

4 Century Drive  
Suite 100  
Parsippany, NJ 07054 USA

Tel No.  +1 973 944 5100

Fax No.  +1 973 944 5110

TM Forum Web Page: [www.tmforum.org](http://www.tmforum.org/)

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# Introduction

This document describes the REST API Conformance for the Recommendation API (TMF\*\*\*)..

# API Description

* The Recommendation API provides the standardized client interface to get the recommendation based on the related information.

The operations that can be exercised over a recommendation resource using the API and covered in this document are those identified as mandatory to be supported such as

* Get recommendation

This document identifies the parameters that must be included in a request related to the operations above as well as the parameters expected in the response.

# RESOURCE MODEL CONFORMANCE

## Recommendation API MANDATORY AND OPTIONAL RESOURCES

For the Resources defined by the API, here the following table indicates which are mandatory and which ones are optional.

|  |  |  |
| --- | --- | --- |
| Resource Name | Mandatory / Optional | Comments |
| Recommendation | M |  |

## Recommendation Resource MANDATORY AND OPTIONAL ATTRIBUTES

For every single resource managed by the API, please refer to the following table indicating which attributes are mandatory and which ones are optional.

| Parameter | | Mandatory / Optional | Comments |
| --- | --- | --- | --- |
| **@type** | | O |  |
| **@schemaLocation** | | O |  |
| **@baseType** | | O |  |
| description | | O |  |
| id | | M (in response messages) | Generated by the server and provided in the response upon resource creation. |
| href | | M (in response messages) | Value in response must be the same as the one set in Location header provided upon entity creation |
| name | | M |  |
| validFor | | O |  |
| type | | O |  |
| item | | O | A list of recommendation items. (Item[\*]) |
| rank | | M |  |
|  | productOffering | M |  |
|  | id | M |  |
|  | href | M |  |
|  | name | M |  |
| category | | O |  |
| id | | M |  |
| href | | M |  |
| name | | M |  |
| Channel | | O |  |
| Id | | M |  |
| href | | M |  |
| name | | M |  |
| ShoppingCart | | O |  |
| Id | | M |  |
| href | | M |  |
| ProductOrder | | O |  |
| Id | | M |  |
| href | | M |  |
| GeographicLocation | | O |  |
| Id | | M |  |
| href | | M |  |
| name | | M |  |
| type | | O |  |
| relatedParty | | O |  |
| Id | | M |  |
| href | | M |  |
| name | | M |  |
| role | | O |  |

# API OPERATIONS CONFORMANCE

For every single resource, here use the following templates to define what operations are optional and what operations are mandatory.

## Recommendation MANDATORY AND OPTIONAL OPERATIONS

Fill the following table and indicate which ones are mandatory and which ones are optional.

|  |  |  |
| --- | --- | --- |
| Uniform API Operation | Mandatory/Optional | Comments |
| GET | O | GET must be used to retrieve the representation of a set of resource |

# API GET OPERATION CONFORMANCE

For every single resource, use the following template to specify the mandatory and optional features supported by the GET operation.

|  |  |  |
| --- | --- | --- |
| GET | O | THIS PATCH OPERATION |
| Status Code 200 | M |  |
| Other Status Codes | NA |  |

## GET /recommendation?fields=...&{filtering}

**Definitions**

**Filtered Search**:

A filtered search can be applied using query parameters in order to obtain only the resource entities that meet the criteria defined by the filtering parameters included in the query request. Several elements can be applied to the filtered search. In that case logic, a logical AND is applied to combine the criteria

**Filtered Data (Attribute selection):**

In order to apply a filter and limit the number of attributes included in the response, the GET request can include the “?fields=” query parameter. Several elements can be applied to the filter. In that case, a logical AND is applied to combine the values will provide in the response only the values assigned to attributes category and channel. Attribute selection capabilities are the same for collections retrieval and individual resource queries

|  |  |  |
| --- | --- | --- |
| **Attribute name** | **Filtered search**  **First Level** | **Attribute Selection**  **First Level** |
| id | M | M |
| href | NA | M |
| description | O | O |
| name | M | O |
| type | O | O |
| validFor | O | O |
| Item | O | O |
| relatedParty | O | O |
| channel | O | O |
| category | O | O |
| geographicLocation | O | O |
| shoppingCart | O | O |
| productOrder | O | O |

# Administrative Appendix

## VERSION HISTORY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Version Number** | **Date** | **Modified by** | | **Description** |
| Version 1.0.0 | 8/05/2017 | | Ma Xu  [Maxu@huawei.com](mailto:Maxu@huawei.com)  Hongxia Hao  [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | initial version |
| Version 1.0.1 | 7/12/2017 | |  | Updated version |

## Release History

|  |  |  |  |
| --- | --- | --- | --- |
| **Release Number** | **Date** | **Release led by:** | **Description** |
|  |  |  |  |

## Acknowledgments

This document was reviewed by members of the TM Forum API Program team.

## Contributors to Document

|  |  |
| --- | --- |
| * MaXu, Huawei   [maxu@huawei.com](mailto:maxu@huawei.com)   * Hongxia Hao, Huawei   [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Initial version |
| * MaXu, Huawei   [maxu@huawei.com](mailto:maxu@huawei.com)   * Hongxia Hao, Huawei   [haohongxia@huawei.com](mailto:haohongxia@huawei.com)   * Ludovic Robert   [ludovic.robert@orange.com](mailto:ludovic.robert@orange.com)   * Serafettin ACIR   [serafettin.acir@etiya.com](mailto:serafettin.acir@etiya.com) | Add some related information |