**Promotion API  
Conformance Profile**

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# Introduction

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

# API Description

The Promotion API provides the standardized client interface to Promotion for creating, tracking and managing the promotion which is used to provide the online e-commerce incentive for the customer according to the pre-configured criteria. The instances of Promotion Activity API originators (clients) include CRM applications especially the online channels (e.g. mobile app).

A promotion represents a record used to express the configuration of simulation policy for the online shopping.

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

* Retrieve details of one specific promotion entity (GET)
* List all the existing promotions (GET)
* Create new promotion (POST)
* Update the existing promotion (PATCH)
* Delete the existing promotion (DELETE)

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.

The test scenarios in this document are intended to create a set of resources (Promotion) and then retrieve the information stored in the server so as to confirm the resources created are stored with the values originally set. Additionally, some test scenarios are included to verify that the server replies with the corresponding error response in situations where a mandatory attribute is not included in the request.

# RESOURCE MODEL CONFORMANCE

## Promotion 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 |
| Promotion | M |  |

## Promotion 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.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Attribute Name | | | | Mandatory / Optional | Comments |
| id | | | | M (in response messages)  O (otherwise) | Generated by the server and provided in the response upon resource creation.  Accepted in entity-creation requests if the server supports the incoming identifier as the reference to create new resources. |
| href | | | | M (in response messages)  O (otherwise) | Value in response must be the same as the one set in Location header provided upon entity creation |
| name | | | | M |  |
| priority | | | | O |  |
| type | | | | O |  |
| description | | | | O |  |
| lifecycleStatus | | | | O | Its default value is “Draft”. |
| validFor | | | | O |  |
| lastUpdate | | | | O |  |
| **promotionPattern** | | | | O | A list of promotion patterns. (PromotionPattern[\*]) |
|  | id | | | O |  |
|  | name | | | M |  |
|  | priority | | | O |  |
|  | relationTypeAmongGroup | | | O |  |
|  | description | | | O |  |
|  | **promotionCriteriaGroup** | | | O | A list of promotion criteria groups. ( PromotionCriteriaGroup[\*]) |
|  | id | | | M |  |
|  | groupName | | | M |  |
|  | relationTypeInGroup | | | M |  |
|  | **promotionCriteria** | | | O | A list of promotion criterias. ( PromotionCriteria [\*]) |
|  | |  | id | M |  |
|  | |  | criteriaPara | M |  |
|  | |  | criteriaValue | M |  |
|  | |  | criteriaOperator | M |  |
|  | | **promotionAction** | | O | A list of promotion actions.(PromotionAction[\*]) |
|  | | id | | M |  |
|  | | actionType | | M |  |
|  | | actionValue | | M |  |
|  | | actionObjectId | | M |  |
|  | | operationObjectId | | M |  |

# API OPERATIONS CONFORMANCE

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

## Promotion 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 (Retrieve) | M | GET must be used to retrieve a representation of a resource |
| POST | M | POST must be used to create a new resource |
| GET (List) | O | GET must be used to retrieve the representation of a set of resource |
| PATCH | O | PATCH must be used to partially update a resource |
| DELETE | O | DELETE must be used to remove a 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 |  |

## Filtering ： GET /promotion/{ID}?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 (e.g.:?severity=<value> &status=<value>)

**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 (e.g.:?fields=severity,status) 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** | |
| description | O | O |
| lastUpdate | O | O |
| lifecycleStatus | O | O |
| name | O | M |
| valideFor | O | O |
| id | O | M |
| href | NA | M |
| promotionPattern | O | O |

# API POST OPERATION CONFORMANCE

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

## POST /promotion

This operation is used to create a managed entity for Promotion.

The response to this operation must include a Location header set to /promotion/{ID} where {ID} indicates the identifier assigned by the server to the new Promotion resource created:

|  |  |  |
| --- | --- | --- |
| POST | M |  |
| Status Code 201 | M |  |
| Other Status Codes | NA |  |

The following table indicates attributes that are required to be sent when creating a new Promotion resource as well as attributes with special considerations. All other attributes defining the resource are not required to be sent as a part of the BODY of the POST request message.

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute name | Mandatory/Option | Default | Rule |
| description | O |  |  |
| lastUpdate | O |  |  |
| lifecycleStatus | O |  |  |
| name | M |  |  |
| valideFor | O |  |  |
| type | O |  |  |
| promotionPattern | O |  |  |

The response from the server must include a BODY with the contents of the new resource created, filled with at least the same information elements that are included in the request and are supported by the server.

If the POST request includes optional parameters (as per the model resource definition) that are not supported by the server, then the server must reject the request (replying with a 4xx error response) indicating the parameter not supported.

# API PATCH OPERATION CONFORMANCE

## PATCH Promotion/{ID}

This patch operation is used to partially update the representation of a managed entity for Promotion .

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

The mandatory and optional attributes of the API are same as the following:

|  |  |  |  |
| --- | --- | --- | --- |
| Attribute name | Patchable | Default | Rule |
| description | Y |  |  |
| lastUpdate | Y |  |  |
| lifecycleStatus | Y |  |  |
| name | Y |  |  |
| valideFor | Y |  |  |
| type | Y |  |  |
| promotionPattern | Y |  |  |

# API DELETE OPERATION CONFORMANCE

## DELETE Promotion/{ID}

This operation is used to remove the representation of a managed entity for Promotion.

For this operation, only the “id” field is mandatory for the client of the API. All other fields are not required.

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

# NOTIFICATION MODEL CONFORMANCE

The Pub/Sub models are common and described in the TMF REST Design Guidelines. Use the following templates to describe the Hub Mandatory and Optional attributes and filtering support.

## Promotion API MANDATORY AND OPTIONAL NOTIFICATIONS

For the Notifications defined by the API, it is filled in the following table to indicate which ones are mandatory and which ones are optional.

All notifications are optional.

|  |  |  |
| --- | --- | --- |
| Resource Name | Mandatory or Optional | Comments |
| PromotionCreationNotification | O | . |
| PromotionChangeNotification | 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 |
|  | 6/14/2017 | |  | Updated version |

## Release History

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

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