**TM Forum Specification**

Promotion Management

Conformance Profile

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# INTRODUCTION - API DESCRIPTION

Promotions are known as additional discounts, vouchers, bonus or gifts to a party who meets the pre-defined criteria. Using promotion, the enterprise can attract customers and encourage more consumption, especially continuous purchases.

This API is about the configuration and maintenance of this business object and not its execution.

The execution of promotions is the responsibility of enterprise platform which must apply the discount (or gift, voucher, etc.) based on the information retrieved from Promotion API.

Promotion API provides the following operations:

* List of existing promotions depending on filter criteria;
* Retrieval of an existing promotion by identifier;
* Partial update of an existing promotion;
* Creation (configuration) of a new promotion;
* Deletion of an existing promotion.

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

## API MANDATORY RESOURCES

The following table indicates the mandatory resources for this API.

| Resource Name | Comment |
| --- | --- |
| Promotion | Single managed resource available |

## General Notes on Resource Attribute Conformance

There are three situations that could occur for an attribute:

* Mandatory attribute,
* Mandatory attribute if the optional parent attribute is present,
* Non-mandatory/Optional attribute. Those are all the other attributes not mentioned in the following subsections. Please refer to the corresponding API REST Specification for more details.
* The tables in the subsections below indicate which attributes are mandatory including mandatory when an optional parent is present.
* Where a resource is an input into an API (e.g. POST, PATCH), Mandatory means that the attribute value must be supplied by the API consumer in the input (and must not be blank or null).
* Where a resource is an output from an API (e.g. GET, POST), Mandatory means that the attribute value must be supplied by the API provider in the output (and must not be blank or null).
* For a sub-resource that is not an array, Mandatory (cardinality 1..1) means that the sub-resource must be present, while Optional (cardinality 0..1) means that the sub-resource may be absent. Mandatory and Optional on the sub-resource attributes apply to the sub-resource if present.
* For a sub-resource that is an array, Mandatory (cardinality 1..\*) means that at least one sub-resource must be present in the array, while Optional (cardinality 0..\*) means that the array may be absent. Mandatory and Optional on the sub-resource attributes apply to each of the sub-resources if present.

In this table are listed all mandatory attributes. A mandatory attribute MUST be retrieved in resource representation when no attribute selection is used (e.g. GET /../{id}) without any attribute selection

When an attribute is listed with an indentation (in second column) it means this attribute is mandatory if root (parent) attribute is present.

## Promotion Resource Mandatory Attributes

| Mandatory attribute when parent is present | | Rule |
| --- | --- | --- |
| href | | M (in response messages) |
| id | | M (in response messages) |
| name | | M |
| pattern (if present) | | Array of PromotionPattern |
|  | id | M |
|  | name | M |
|  | action | M Array of PromotionAction |
| pattern.action | | M Array of PromotionAction |
|  | actionType | M |
|  | actionValue | M |
| pattern.action.actionEntityRef (if present) | |  |
|  | id | M |
| pattern (if present) | | Array of PromotionPattern |
|  | criteriaGroup | M, Array of PromotionCriteriaGroup |
| pattern.criteriaGroup | | M, Array of PromotionCriteriaGroup |
|  | groupName | M |
|  | id | M |
|  | criteria | M, Array of PromotionCriteria |
| pattern.criteriaGroup.criteria | | M, Array of PromotionCriteria |
|  | criteriaOperator | M |
|  | criteriaParameter | M |
|  | criteriaValue | M |

# API OPERATIONS CONFORMANCE

For every single resource the following tables includes mandatory operations.

## Promotion Mandatory Operations

The following table indicates which ones are mandatory for the Promotion resource:

| Uniform API Operation |
| --- |
| GET |
| POST |

# API GET OPERATION CONFORMANCE

All the GET operations in this API share the same status code pattern.

|  |  |
| --- | --- |
| GET | Mandatory/Optional |
| Response Status Code 200 if successful | M |
| Response Status Code 404 if not found | M |

## Definitions for Filter

The following definitions apply to all the GET operations:

* Filtered Search: A filtered search can be applied using query parameters to obtain only the resources 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>).
* Attribute selection (Limiting Response Data): In order to limit which attributes are included in the response, the GET request can include the ?fields= query parameter. Only those attributes whose names are supplied in this parameter will be returned. Attribute selection capabilities are the same for collections retrieval and individual resource queries.
* Level: The filtering and attribute selection can apply to the top level properties (attributes) and subproperties. The tables below show which attributes need to be supported in top-level or contained resources.

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

This operation list or find Promotion entities.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels.

## GET /promotion/{id}?fields=...&{filtering}

This operation retrieves a Promotion entity. Attribute selection is enabled for all first level attributes.

Attribute selection is mandatory for all first level attributes except for the href attribute.

Filtering on sub-resources is optional for all compliance levels

# API POST OPERATION CONFORMANCE

All the POST operations in this API share the same status code pattern.

|  |  |
| --- | --- |
| POST | Mandatory/Optional |
| Status Code 201 if resource created | M |

## POST /promotion

This operation creates a Promotion entity.

The following table provides the list of mandatory attributes when creating an instance of the Promotion resource, including any possible rule, conditions and applicable default values.

| Mandatory Attributes | Rule |
| --- | --- |
| name | N/A |

# ACKNOWLEDGEMENTS

## Release History

|  |  |  |  |
| --- | --- | --- | --- |
| **Release Number** | **Date** | **Release led by:** | **Description** |
| 17.0.0 | July 2017 | Ma Xu  [Maxu@huawei.com](mailto:Maxu@huawei.com)  Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Initial release |
| 18.0.0 | June 2018 | Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Second release |
| 20.5 | June 2020 | Lara Silva  Vodafone  lara.silva3@vodafone.com | Alignment with guidelines 4.0.1 |

## Version History

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| **Version Number** | **Date** | **Modified by** | **Description** |
| 1.0.0 | 08/05/2017 | Ma Xu [Maxu@huawei.com](mailto:Maxu@huawei.com)  Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Initial release |
| 1.1.0 | 06/14/2017 | Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Updated version |
| 2.0.0 | 20/03/2018 | Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Align with the new swagger. And let @attributes to be optional in one sentence |
| 2.1.0 | 12/06/2018 | Hongxia Hao [haohongxia@huawei.com](mailto:haohongxia@huawei.com) | Updated on TMForum new brand guidelines |
| 2.1.1 | 28/06/2018 | Adrienne Walcott | Formatting/style edits pior to R18 publishing |
| 3.0.0 | 23/06/2021 | Lara Silva  lara.silva3@vodafone.com | Alignment with guidelines 4.0.1 |