

TM Forum Specification

Service Qualification Management Conformance Profile

TMF645B

Release 19.0

July 2020

Latest Update: TM Forum Release 19.0	Member Evaluation
Version 4.0.0	IPR Mode: RAND



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TABLE OF CONTENTS

TA	BLE OF CONTENTS	3
IN	TRODUCTION - API DESCRIPTION	4
RE	SOURCE MODEL CONFORMANCE	5
	API MANDATORY RESOURCES	5
	General Notes on Resource Attribute Conformance	5
	CheckServiceQualification Resource Mandatory Attributes	6
	QueryServiceQualification Resource Mandatory Attributes	8
ΑF	PI OPERATIONS CONFORMANCE	13
	CheckServiceQualification Mandatory Operations	13
	QueryServiceQualification Mandatory Operations	13
ΑF	PI GET OPERATION CONFORMANCE	14
	Definitions for Filter	14
	GET /checkServiceQualification?fields=&{filtering}	14
	GET /checkServiceQualification/{id}?fields=&{filtering}	14
	GET /queryServiceQualification?fields=&{filtering}	14
	GET /queryServiceQualification/{id}?fields=&{filtering}	15
ΑF	PI POST OPERATION CONFORMANCE	16
	POST /checkServiceQualification	16
	POST /queryServiceQualification	16
A(CKNOWLEDGEMENTS	17
	Release History	17
	Version History	17



INTRODUCTION - API DESCRIPTION

The service qualification API can be used to create and query CheckServiceQualification and QueryServiceQualification. Complete description of this API is available in the user guide.



RESOURCE MODEL CONFORMANCE

API MANDATORY RESOURCES

The following table indicates the mandatory resources for this API.

Resource Name	Comment
CheckServiceQualification	POST operation is mandatory. if POST send 201 code then GET is also mandatory. If POST send a 200 code GET is optional.
QueryServiceQualification	POST operation is mandatory. if POST send 201 code then GET is also mandatory. If POST send a 200 code GET is optional.

GENERAL NOTES ON RESOURCE ATTRIBUTE CONFORMANCE

There are three situations that could occur for an attribute:

- Mandatory attribute,
- o 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.



CHECKSERVICEQUALIFICATION RESOURCE MANDATORY ATTRIBUTES

Mandatory attribute when parent is present	Rule
checkServiceQualificationDate	M (in response messages)
href	M (in response messages)
id	M (in response messages)
state	M (in response messages)
serviceQualificationItem	М
	Array of CheckServiceQualificationItem
serviceQualificationItem.alternateServiceProposal.alternate Service.feature.constraint (if present)	Array of ConstraintRef
id	М
serviceQualificationItem.alternateServiceProposal.alternate Service.feature (if present)	Array of Feature
featureCharacteristic	М
	Array of Characteristic
serviceQualificationItem.alternateServiceProposal.alternate Service.feature.featureRelationship (if present)	Array of FeatureRelationship
name	М
relationshipType	М
name	М
serviceQualificationItem.alternateServiceProposal.alternate Service.place (if present)	Array of RelatedPlaceRefOrValue
Service.place (ii present)	The place could be pass by ref or by value.
	If place is pass by reference (@type valued to PlaceRef) id & @referredType attributes must be provided. The @referredType must indicate the place type (GeographicSite, GeographicLocation or GeographicAddress)
	If place is pass by value (@type valued to place type used:



Mand	atory attribute when parent is present	Rule
Walla	attinute mon parent to procent	GeographicSite, GeographicLocation or GeographicAddress). The place payload must comply with place type used.
	@type	М
	role	М
	eQualificationItem.alternateServiceProposal.alternate ce.relatedEntity (if present)	Array of RelatedEntityRefOrValue The entity could be pass by ref or by value. If entity is pass by reference (@type valued to EntityRef) id & @referredType attributes must be
		provided. The @referredType must indicate the entity type If entity is pass by value (@type valued to entity type). Entity payload must comply with its own rules.
	@type	М
	role	М
	ceQualificationItem.alternateServiceProposal.alternate ce.relatedParty (if present)	Array of RelatedParty The role attribute is not mandatory because the id could be a partyRole id. In this case @referredType must indicate the partyRole (example User, Customer, etc.). If the id is a Party id then a role must be provided.
	@referredType	М
	id	М
	ceQualificationItem.alternateServiceProposal.alternate ce.serviceOrderItem (if present)	Array of RelatedServiceOrderItem
	itemId	М
	serviceOrderId	M



Mand	atory attribute when parent is present	Rule
	ceQualificationItem.alternateServiceProposal.alternate ce.serviceRelationship (if present)	Array of ServiceRelationship
	relationshipType	M
Servi	ceQualificationItem.alternateServiceProposal.alternate ce.serviceRelationship.serviceRelationshipCharacteri f present)	Array of Characteristic
	name	М
	value	М
	ceQualificationItem.alternateServiceProposal.alternate ce.serviceSpecification (if present)	
	id	M
serviceQualificationItem.alternateServiceProposal.alternate Service.supportingResource (if present)		Array of ResourceRef
	id	М
servio	ceQualificationItem.category (if present)	
	id	М
relate	dParty (if present)	Array of RelatedParty
		See conditions for RelatedParty at serviceQualificationItem.alternateServ iceProposal.alternateService.relatedParty

QUERYSERVICEQUALIFICATION RESOURCE MANDATORY ATTRIBUTES

Mandatory attribute when parent is present	Rule
href	M (in response messages)
id	M (in response messages)
queryServiceQualificationDate	M (in response messages)
state	M (in response messages)
searchCriteria	М
searchCriteria.category (if present)	



Mandatory attribute when parent is present	Rule
id	M
searchCriteria.service.feature.constraint (if present)	Array of ConstraintRef
id	M
searchCriteria.service.feature (if present)	Array of Feature
featureCharacteristic	M
	Array of Characteristic
searchCriteria.service.feature.featureRelationship (if present)	Array of FeatureRelationship
name	М
relationshipType	М
name	М
searchCriteria.service.place (if present)	Array of RelatedPlaceRefOrValue
	The place could be pass by ref or by value.
	If place is pass by reference (@type valued to PlaceRef) id & @referredType attributes must be provided. The @referredType must indicate the place type (GeographicSite, GeographicLocation or GeographicAddress)
	If place is pass by value (@type valued to place type used: GeographicSite, GeographicLocation or GeographicAddress). The place payload must comply with place type used.
@type	М
role	М
searchCriteria.service.relatedEntity (if present)	Array of RelatedEntityRefOrValue
	The entity could be pass by ref or by value.
	If entity is pass by reference (@type valued to EntityRef) id & @referredType attributes must be provided. The @referredType must indicate the entity type If entity is pass by value (@type valued to



Mandatory attribute when parent is present	Rule
	entity type). Entity payload must comply with its own rules.
@type	М
role	М
searchCriteria.service.relatedParty (if present)	Array of RelatedParty
	The role attribute is not mandatory because the id could be a partyRole id. In this case @referredType must indicate the partyRole (example User, Customer, etc.).
	If the id is a Party id then a role must be provided.
@referredType	М
id	М
searchCriteria.service.serviceOrderItem (if present)	Array of RelatedServiceOrderItem
itemId	М
serviceOrderId	М
searchCriteria.service.serviceRelationship (if present)	Array of ServiceRelationship
relationshipType	М
searchCriteria.service.serviceRelationship.serviceR elationshipCharacteristic (if present)	Array of Characteristic
name	М
value	М
searchCriteria.service.serviceSpecification (if present)	
id	М
searchCriteria.service.supportingResource (if present)	Array of ResourceRef
id	М
serviceQualificationItem	M (in response messages)
	Array of ServiceQualificationItem



Mandatory attribute when parent is present	Rule
	See conditions for ServiceQualificationItem at searchCriteria
serviceQualificationItem.category (if present)	See conditions for ServiceCategoryRef at searchCriteria.category
serviceQualificationItem.service.feature.constraint (if present)	Array of ConstraintRef
(II prosont)	See conditions for ConstraintRef at searchCriteria.service.feature.constraint
serviceQualificationItem.service.feature (if present)	Array of Feature
	See conditions for Feature at searchCriteria.service.feature
serviceQualificationItem.service.feature.featureRela	Array of FeatureRelationship
tionship (if present)	See conditions for FeatureRelationship at searchCriteria.service.feature.featureRelationship
serviceQualificationItem.service.place (if present)	Array of RelatedPlaceRefOrValue
	See conditions for RelatedPlaceRefOrValue at searchCriteria.service.place
serviceQualificationItem.service.relatedEntity (if present)	Array of RelatedEntityRefOrValue
presenty	See conditions for RelatedEntityRefOrValue at searchCriteria.service.relatedEntity
serviceQualificationItem.service.relatedParty (if	Array of RelatedParty
present)	See conditions for RelatedParty at searchCriteria.service.relatedParty
serviceQualificationItem.service.serviceOrderItem (if	Array of RelatedServiceOrderItem
present)	See conditions for RelatedServiceOrderItem at searchCriteria.service.serviceOrderItem
serviceQualificationItem.service.serviceRelationship	Array of ServiceRelationship
(if present)	See conditions for ServiceRelationship at searchCriteria.service.serviceRelationship
serviceQualificationItem.service.serviceRelationship .serviceRelationshipCharacteristic (if present)	Array of Characteristic
	See conditions for Characteristic at



Mandatory attribute when parent is present	Rule
	searchCriteria.service.serviceRelationship.se rviceRelationshipCharacteristic
serviceQualificationItem.service.serviceSpecification (if present)	See conditions for ServiceSpecificationRef at searchCriteria.service.serviceSpecification
serviceQualificationItem.service.supportingResourc e (if present)	Array of ResourceRef
	See conditions for ResourceRef at searchCriteria.service.supportingResource



API OPERATIONS CONFORMANCE

For every single resource the following tables includes mandatory operations.

CHECKSERVICEQUALIFICATION MANDATORY OPERATIONS

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

Uniform API Operation	
GET	
POST	

QUERYSERVICEQUALIFICATION MANDATORY OPERATIONS

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

Uniform API Operation	
GET	
POST	



API GET OPERATION CONFORMANCE

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

GET operation must be provided only if implementation provided code 201 for POST operation.

GET	Mandatory/Optional
Response Status Code 200 if successful	М
Response Status Code 404 if not found	М

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 /CHECKSERVICEQUALIFICATION?FIELDS=...&{FILTERING}

This operation list or find CheckServiceQualification 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 / CHECKSERVICEQUALIFICATION / {ID}? FIELDS = ... & {FILTERING}

This operation retrieves a CheckServiceQualification 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

GET /QUERYSERVICEQUALIFICATION?FIELDS=...&{FILTERING}

This operation list or find QueryServiceQualification 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 /QUERYSERVICEQUALIFICATION/{ID}?FIELDS=...&{FILTERING}

This operation retrieves a QueryServiceQualification 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.

Implementation could provide 200 or/and 201 to be conformant. If 201 provided, operation GET is mandatory.

POST	Mandatory/Optional
Status Code 201 if resource created	М
Status Code 200 if qualification provided in the response	М

POST / CHECKSERVICEQUALIFICATION

This operation creates a CheckServiceQualification entity.

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

Mandatory Attributes	Rule
serviceQualificationItem	

POST /QUERYSERVICEQUALIFICATION

This operation creates a QueryServiceQualification entity.

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

Mandatory Attributes	Rule
searchCriteria	



ACKNOWLEDGEMENTS

RELEASE HISTORY

Release Number	Date	Release led by:	Description

VERSION HISTORY

Version Number	Date	Modified by	Description