

TM Forum Specification

Party Role Management Conformance Profile

TMF669B

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Introduction - API description

The following document is the conformance specification of the REST API for Party Role management.

This API can be seen as a generalization of TMF629 Customer Management API where Party Roles may be any – not only a Customer. It shares the same data structure as the TMF629 Customer Management API but its use is intended for more general cases. Although Customer is a subclass of PartyRole, this Customer resource is not managed by this API but by TMF629 CustomerManagement API.

This API defines 2 resources:

- **PartyRole**: it is the basis data for a partyRole (customer, partner...). It is the business incarnation of the Party. It assumes the use of the following API :

- the TMF632 Party Management API for access to parties
- the TMF666 Account Management API for definition of accounts
- the TMF651 Agreement Management API for agreement definition

- **PartyRoleSpecification**: this resource provides characteristics to describe a partyRole and the context where the partyRole is created. A partyRoleSpecification contains a reference to an array of permissionSpecificationSet (see TMF672 User Roles and Permissions API). They provide information on the permissions to build when creating a new PartyRole.

This API plays an important role in the global party domain relating to TMF672 User Roles and Permissions API, TMF632 Party Management API, TMF669 Party Role Management API, TMF629 Customer Management API, TMF720 Digital Identity Management API, TMF691 Federated Identity API and TMF639 Resource Management API. In summary, these TM Forum Open APIs are related to managing parties and their associated roles and digital identities within a network, as well as controlling access to information and resources through user roles and permissions. They provide a standardized way for organizations to manage these processes and enable integration with other systems.

Resource Model Conformance

API Mandatory Resources

The following table indicates the mandatory resources for this API.

Resource Name	Comment
PartyRole	

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.

PartyRole Resource Mandatory Attributes

Mandatory attribute when parent is present	Rule
engagedParty	M

Mandatory attribute when parent is present		Rule
	href	M (in response message)
	id	M
	@type	M
href		M (in response messages)
name		M
@type		M
account (if present)		
	href	M (in response message)
	id	M
	@type	M
agreement (if present)		
	href	M (in response message)
	id	M
	@type	M
characteristic (if present)		
	name	M
	@type	M
characteristic.characteristicRelationship (if present)		
	id	M
	relationshipType	M
	@type	M
contactMedium (if present)		
	@type	M
creditProfile (if present)		
	href	M (in response messages)
	@type	M
partyRoleSpecification (if present)		
	href	M (in response message)
	id	M
	@type	M
paymentMethod (if present)		
	href	M (in response message)
	id	M
	@type	M

Mandatory attribute when parent is present		Rule
relatedParty (if present)		
	role	M
	@type	M
relatedParty.partyOrPartyRole (if present)		
	engagedParty	M See conditions for PartyRef at engagedParty.
relatedParty.partyOrPartyRole.engagedParty		M See conditions for PartyRef at engagedParty.
	href	M (in response message)
	id	M
	name	M
	@type	M
relatedParty.partyOrPartyRole.account (if present)		See conditions for AccountRef at account.
relatedParty.partyOrPartyRole.agreement (if present)		See conditions for AgreementRef at agreement.
relatedParty.partyOrPartyRole.characteristic (if present)		See conditions for Characteristic at characteristic.
relatedParty.partyOrPartyRole.characteristic.characteristicRelationship (if present)		See conditions for CharacteristicRelationship at characteristic.characteristicRelationship.
relatedParty.partyOrPartyRole.contactMedium (if present)		See conditions for ContactMedium at contactMedium.
relatedParty.partyOrPartyRole.creditProfile (if present)		See conditions for CreditProfile at creditProfile.
relatedParty.partyOrPartyRole.creditRating (if present)		
	href	M (in response messages)
	@type	M
relatedParty.partyOrPartyRole.externalReference (if present)		
	id	M
	@type	M
relatedParty.partyOrPartyRole.individualIdentification (if present)		
	@type	M

Mandatory attribute when parent is present		Rule
relatedParty.partyOrPartyRole.individualIdentification.attachment (if present)		
	attachmentType	M
	href	M (in response message)
	id	M
	contentType	M
	@type	M
relatedParty.partyOrPartyRole.organizationChildRelationship (if present)		
	@type	M
relatedParty.partyOrPartyRole.organizationChildRelationship.organization (if present)		
	href	M (in response message)
	id	M
	@type	M
relatedParty.partyOrPartyRole.organizationIdentification (if present)		
	@type	M
relatedParty.partyOrPartyRole.organizationIdentification.attachment (if present)		See conditions for AttachmentRefOrValue at relatedParty.partyOrPartyRole.individualIdentification.attachment.
relatedParty.partyOrPartyRole.organizationParentRelationship (if present)		
	@type	M
relatedParty.partyOrPartyRole.organizationParentRelationship.organization (if present)		See conditions for OrganizationRef at relatedParty.partyOrPartyRole.organizationChildRelationship.organization.
relatedParty.partyOrPartyRole.otherName (if present)		
	@type	M
relatedParty.partyOrPartyRole.partyCharacteristic (if present)		See conditions for Characteristic at characteristic.
relatedParty.partyOrPartyRole.partyCharacteristic.characteristicRelationship (if present)		See conditions for CharacteristicRelationship at characteristic.characteristicRelationship.
relatedParty.partyOrPartyRole.partyRoleSpecification (if present)		See conditions for PartyRoleSpecificationRef at partyRoleSpecification.

Mandatory attribute when parent is present		Rule
relatedParty.partyOrPartyRole.paymentMethod (if present)		See conditions for PaymentMethodRef at paymentMethod.
relatedParty.partyOrPartyRole.taxExemptionCertificate (if present)		
	@type	M
relatedParty.partyOrPartyRole.taxExemptionCertificate.attachment (if present)		See conditions for AttachmentRefOrValue at relatedParty.partyOrPartyRole.individualIdentification.attachment.
relatedParty.partyOrPartyRole.taxExemptionCertificate.taxDefinition (if present)		
	@type	M

Notification Model Conformance

There are no mandatory notifications for this API.

API Operations Conformance

For every single resource the following tables includes mandatory operations.

PartyRole Mandatory Operations

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

Uniform API Operation	Comment
GET	
POST	
DELETE	
PATCH	

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 /partyRole?fields=...&{filtering}

List or find PartyRole objects.

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 /partyRole/{id}?fields=...&{filtering}

This operation retrieves a PartyRole entity. Attribute selection 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 /partyRole?fields=...&{filtering}

This operation creates a PartyRole entity.

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

Mandatory Attribute	Rule
engagedParty	
engagedParty.@type	
engagedParty.id	
name	
@type	

API PATCH Operation Conformance

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

The mandatory application context is JSON Merge.

PATCH	Mandatory/Optional
Status Code 200 if resource modified	M

PATCH /partyRole/{id}?fields=...&{filtering}

This operation updates partially a PartyRole entity.

Non Patchable Attribute	Rule
href	
id	
@baseType	@baseType is immutable
@schemaLocation	@schemaLocation is immutable
@type	@type is immutable

Patchable Attribute	Rule
account	
agreement	
characteristic	
contactMedium	
creditProfile	
description	
engagedParty	
name	
partyRoleSpecification	
paymentMethod	
relatedParty	
role	
status	
statusReason	
validFor	

API DELETE Operation Conformance

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

DELETE	Mandatory/Optional
Status Code 204 if resource deleted	M

DELETE /partyRole/{id}

This operation deletes a PartyRole entity.

Acknowledgements

Release History

Release Number	Date	Release led by:	Description
Release 2.0	27/06/2027	Mariano Belaunde (Orange)	Refactored API
Release 4.0	06/30/2019	Mariano Belaunde mariano.belaunde@orange.com Pierre Gauthier TM Forum pgauthier@tmforum.org	Renaming and refactoring for R19.0 Nota: the version 4.0 is assigned to all the APIs delivered in the release 19.0
Release 5.0	25/08/2023	Olivier Arnaud (Orange)	Migration to OAS (Open API Specification 3) and some schemas changed

Version History

Version Number	Date	Modified by	Description

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