

TM Forum Specification

Party Role Management

TMF669

Maturity Level: General availability	Team Approved Date: 29-09-2023
Release Status: Production	Approval Status: Team Approved
Version 5.0.0	IPR Mode: RAND

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Introduction

The following document is the user guide of the REST API for Party Role management. It includes the model definition as well as all available operations.

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.

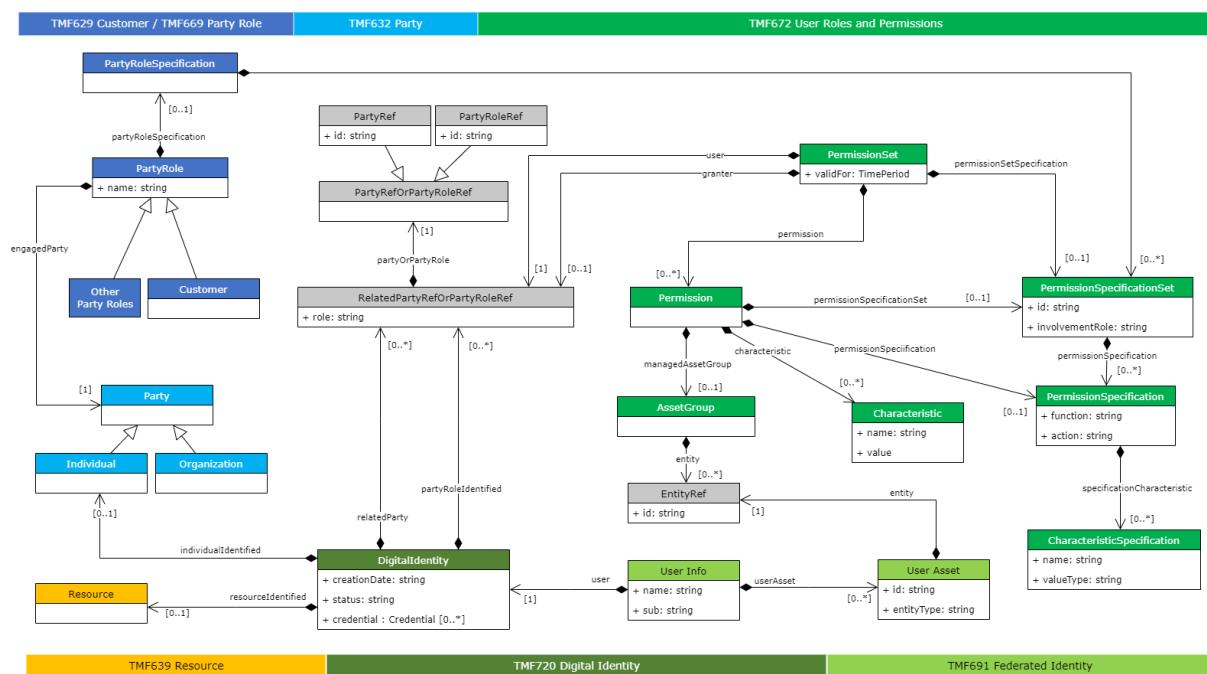
This API defines 2 resources:

- 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. Following diagram illustrates the involved entities in a global party domain overview, referencing related TM Forum Open APIs and resource model entities:



Notes :

- in this document all examples have a `@type=PartyRole` for simplicity, but implementations should use specialized schemas like `Supplier` or `BusinessPartner` for instance.
- even if `Customer` inherits from `PartyRole`, this `Customer` specialized schema has not been put in the `PartyRole` and `PartyOrPartyRole` discriminator list just to not overload this API specification with complete `Customer` schema, and to not have duplication between this API and the TMF629 Customer Management API.

Sample Use Cases

Reader will find examples of use cases using this API in “IG1228 How to use ODA” document.

This section includes a set of main use cases that can be performed with this API. Additional use cases can be generated using the operations and resources defined in this specification.

- In a digital identity context (see TMF720 Digital Identity), a partyRole can be used to represent the parties identified by this digital identity.
- A partyRoleSpecification resource can be created to manage a given user profile (“catalog administrator” for example). In this case, the partyRoleSpecification resource will precise the various characteristics that are to be selected when creating a new catalog administrator partyRole (“mobile catalog”, “internet/TV catalog”, “B2B catalog”, ...).
- If a partyRoleSpecification contains one or more permissionSpecificationSet references (PermissionSpecificationSetRef), this gives information on the related permissions that are to be created when a new partyRole is created linked with this partyRoleSpecification.

Support of polymorphism and extension patterns

Support of polymorphic collections and types and schema based extension is provided by means of a list of generic meta-attributes that we describe below. Polymorphism in collections occurs when entities inherit from base entities, for instance a BillingAccount and SettlementAccount inheriting properties from the abstract Account entity.

Generic support of polymorphism and pattern extensions is described in the TMF API Guidelines, Part 2 (TMF630).

The @type attribute provides a way to represent the actual class type of an entity. For example, within a list of Account instances some may be instances of BillingAccount where other could be instances of SettlementAccount. The @type gives this information. All resources and sub-resources of this API have a @type attributes that can be provided when this is useful.

The @referredType can be used within reference entities (like for instance an AccountRef object) to explicitly denote the actual entity type of the referred class. Notice that in reference entities the @type, when used, denotes the class type of the reference itself, such as BillingAccountRef or SettlementAccountRef, and not the class type of the referred object. However since reference classes are rarely sub-classed, @type is generally not useful in reference objects.

The @schemaLocation property can be used in resources to allow specifying user-defined properties of an Entity or to specify the expected characteristics of an entity.

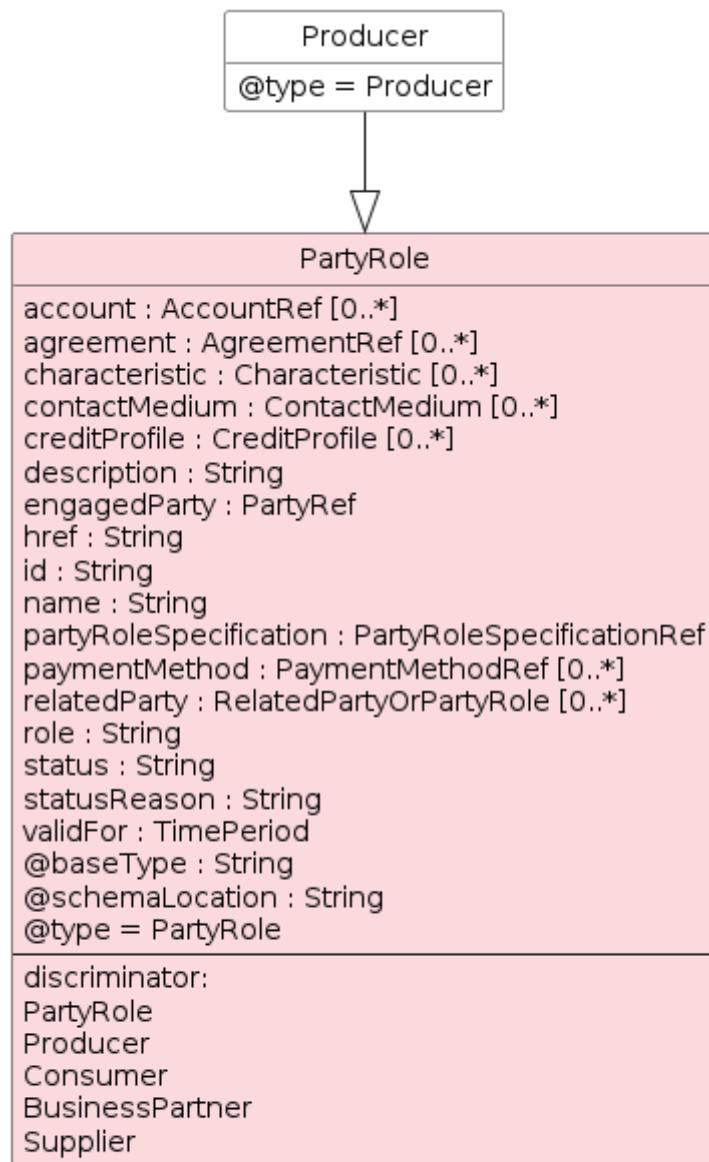
The @baseType attribute gives a way to provide explicitly the base of class of a given resource that has been extended.

RESOURCE MODEL

Managed Entity and Task Resource Models

Producer resource

Resource model



Color	Description
White	Resource (entry point)
Pink	Sub-resource with details in separate diagram

(1) : Mandatory property

Figure 1 - Producer

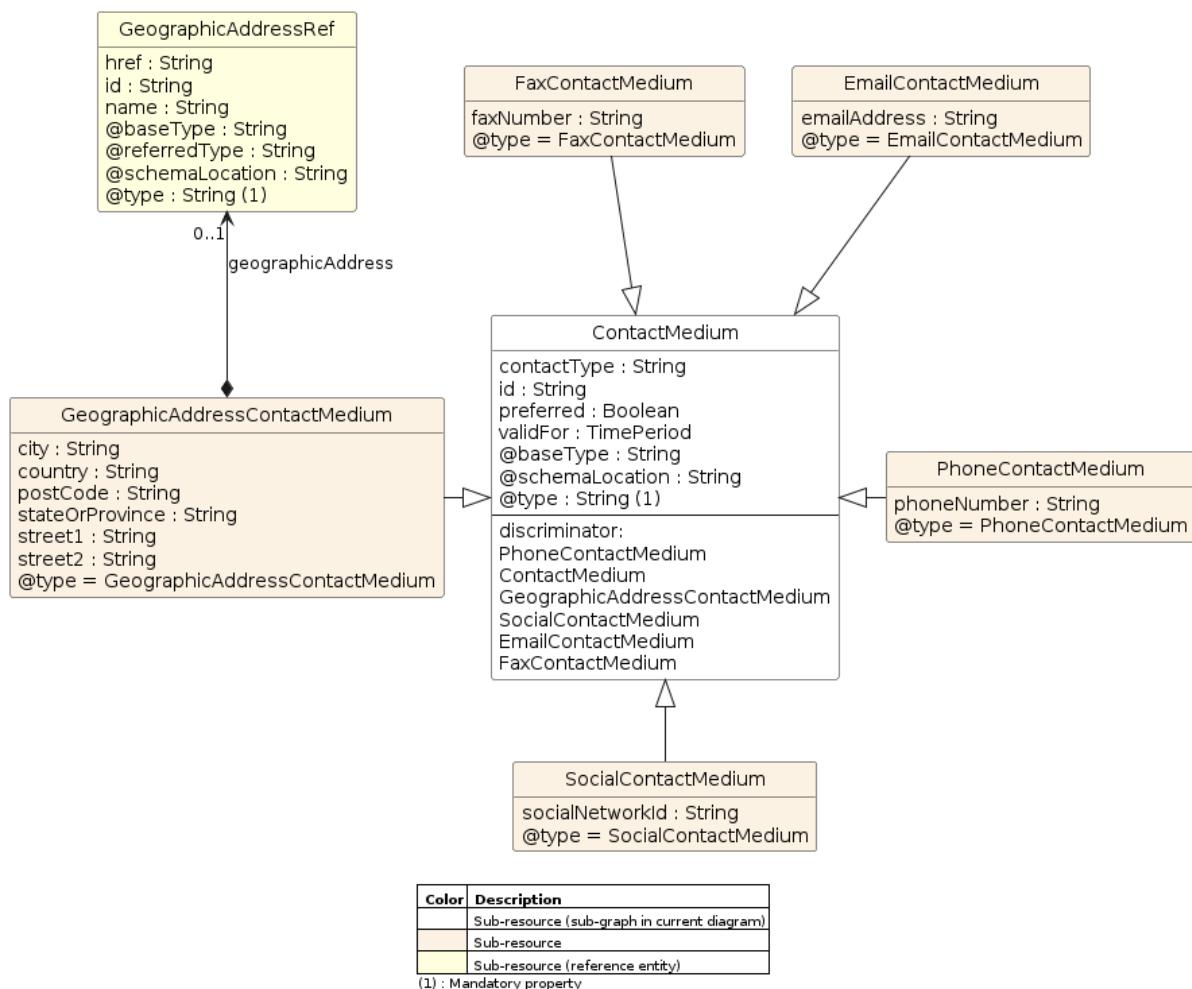


Figure 2 - ContactMedium

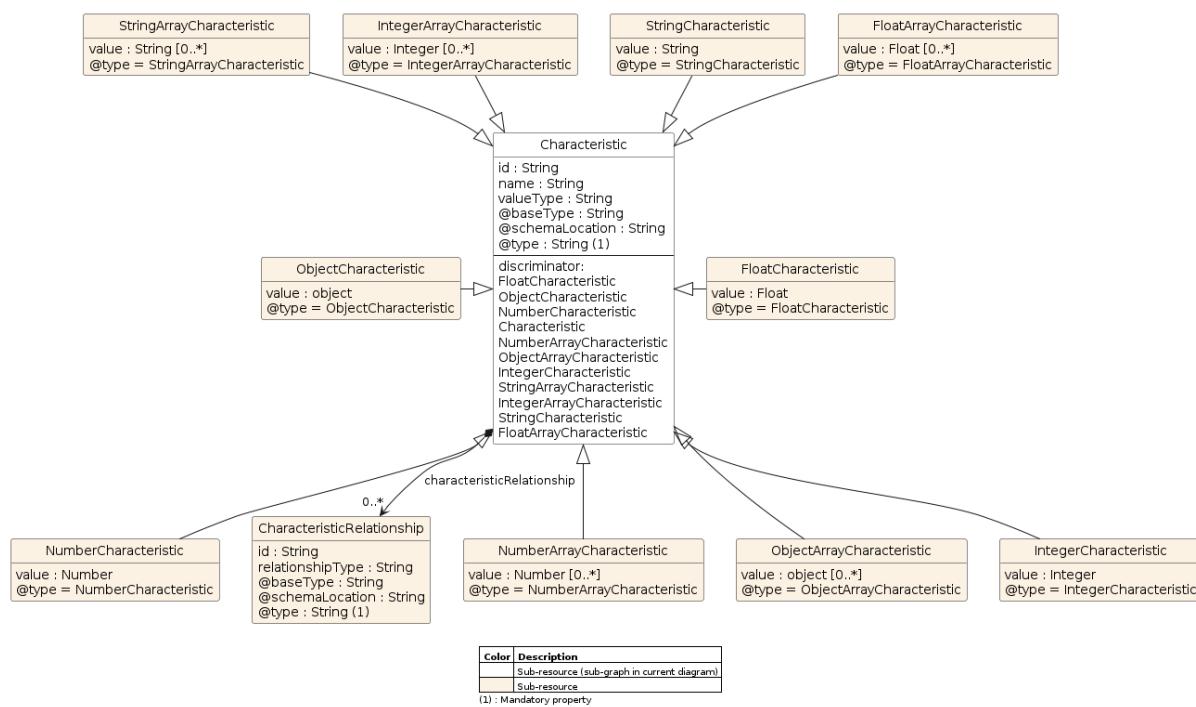


Figure 3 - Characteristic

Field descriptions

AccountRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicRelationship sub-resource fields

<code>id</code>	A String. Unique identifier of the characteristic.
<code>relationshipType</code>	A String. The type of relationship.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

ContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
<code>id</code>	A String. Identifier for this contact medium.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

CreditProfile sub-resource fields

<code>creditProfileDate</code>	A DateTime. The date the profile was established.
<code>creditRiskRating</code>	An Integer. This is an integer whose value is used to rate the risk.
<code>creditScore</code>	An Integer. A measure of a person or organizations creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
<code>href</code>	A String. Hyperlink reference.
<code>id</code>	A String. Unique identifier.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
emailAddress	A String. Full email address in standard format.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
faxNumber	A String. The fax number of the contact.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
-------	--

FloatCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
id	A String. Identifier for this contact medium.
postCode	A String. Postcode.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRole sub-resource fields

account	An AccountRef. Account reference. A account may be a party account or a financial account.
agreement	An AgreementRef. Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A Characteristic. Describes the characteristic of a party role.
contactMedium	A ContactMedium. Indicates the contact medium that could be used to contact the party.
creditProfile	A CreditProfile. Credit profile for the party (containing credit scoring, ...). By default only the current credit profile is retrieved. It can be used as a list to give the party credit profiles history, the first one in the list will be the current one.
description	A String. A description of the PartyRole.

engagedParty	A PartyRef. A Party reference.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. A word, term, or phrase by which the PartyRole is known and distinguished from other PartyRoles. It's the name of the PartyRole unique entity.
partyRoleSpecification	A PartyRoleSpecificationRef. Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.
paymentMethod	A PaymentMethodRef. PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
role	A String. Role played by the engagedParty in this context. As role is defined by partyRoleSpecification, this role attribute can be used to precise the role defined by partyRoleSpecification, or it can be used to define the role in case there is no partyRoleSpecification.
status	A String. Used to track the lifecycle status of the party role.
statusReason	A String. A string providing an explanation on the value of the status lifecycle. For instance if the status is Rejected, statusReason will provide the reason for rejection.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PaymentMethodRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
phoneNumber	A String. The phone number of the contact.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

partyOrPartyRole	A PartyOrPartyRole.
role	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

SocialContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
socialNetworkId	A String. Identifier as a member of a social network.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

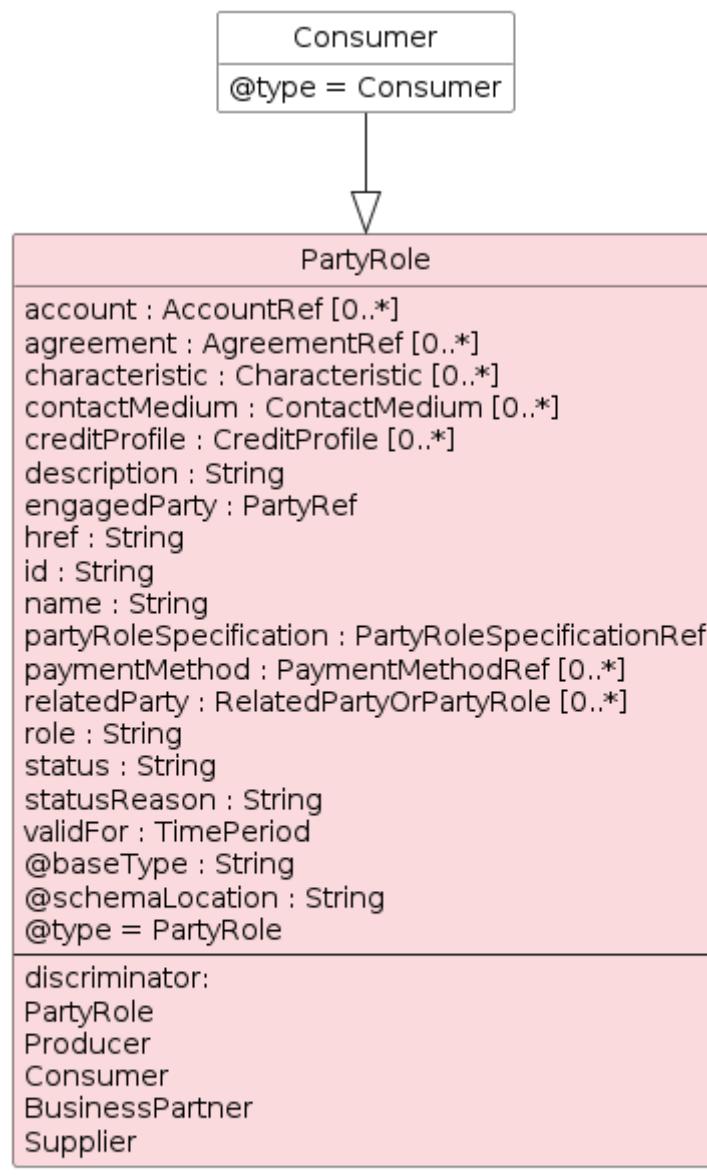
Json representation sample(s)

We provide below a JSON representation as example of the 'Producer' resource object.

```
{  
    "@type": "Producer",  
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/9",  
    "id": "9",  
    "name": "ClosedLoop B producer",  
    "role": "Producer",  
    "engagedParty": {  
        "@type": "PartyRef",  
        "href": "https://host:port/tmf-api/partyManagement/v2/organization/16",  
        "id": "16",  
        "name": "Tip Network",  
        "@referredType": "Organization"  
    },  
    "partyRoleSpecification": {  
        "@type": "PartyRoleSpecificationRef",  
        "href": "https://host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/5",  
        "id": "5",  
        "name": "ClosedLoop producer organization"  
    },  
    "status": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-24T00:00:00.000Z",  
        "endDateTime": "2024-06-24T00:00:00.000Z"  
    }  
}
```

Consumer resource

Resource model



Color	Description
White	Resource (entry point)
Pink	Sub-resource with details in separate diagram

(1) : Mandatory property

Figure 4 - Consumer

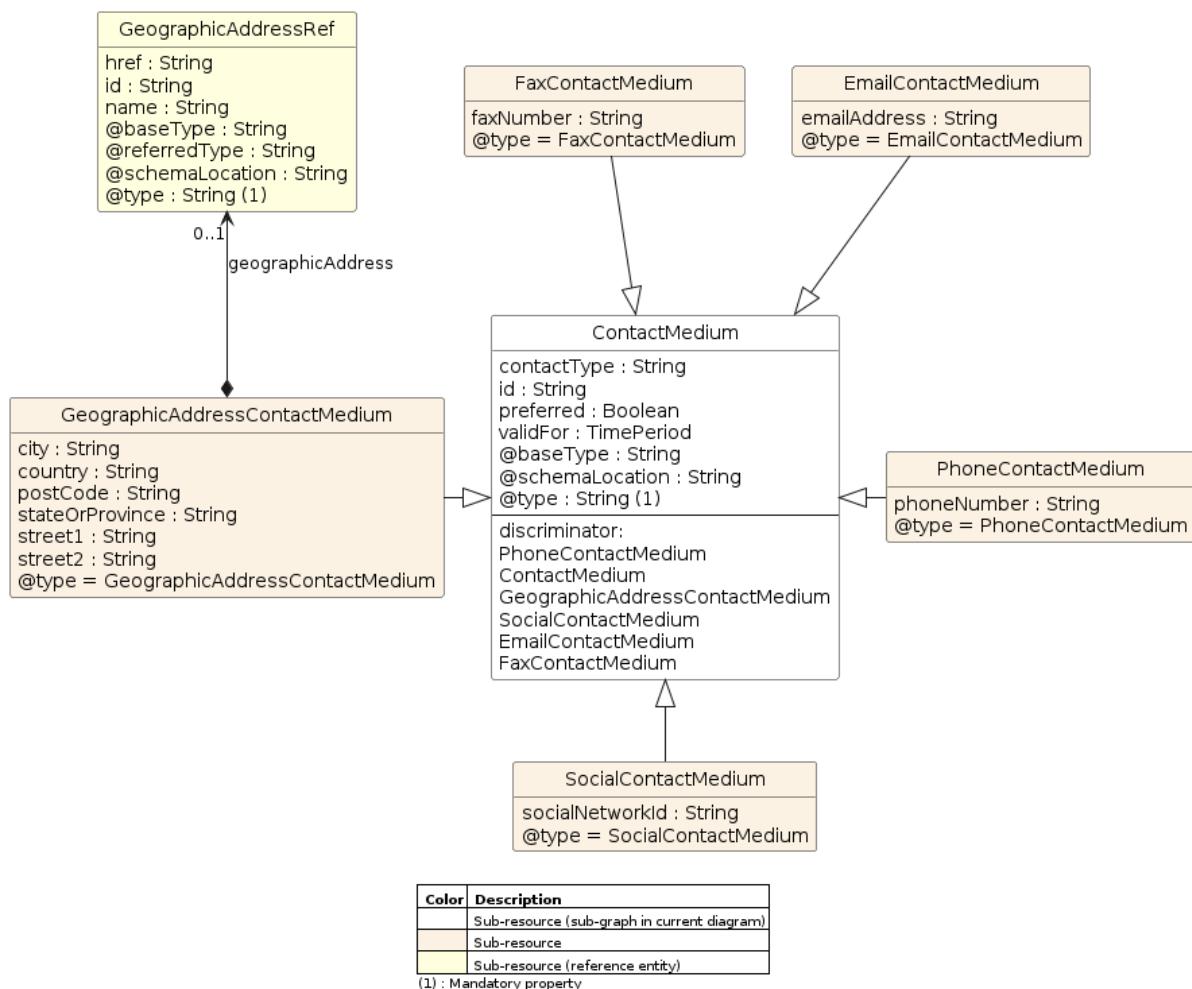


Figure 5 - ContactMedium

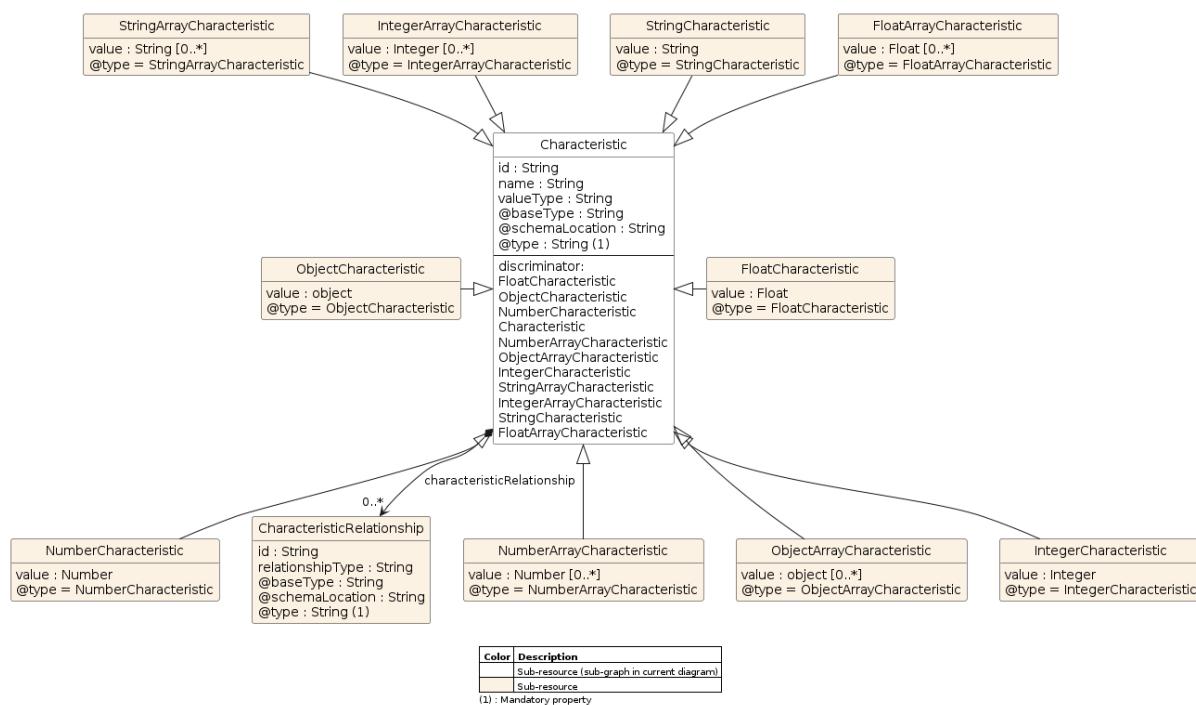


Figure 6 - Characteristic

Field descriptions

AccountRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicRelationship sub-resource fields

<code>id</code>	A String. Unique identifier of the characteristic.
<code>relationshipType</code>	A String. The type of relationship.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

ContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
<code>id</code>	A String. Identifier for this contact medium.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

CreditProfile sub-resource fields

<code>creditProfileDate</code>	A DateTime. The date the profile was established.
<code>creditRiskRating</code>	An Integer. This is an integer whose value is used to rate the risk.
<code>creditScore</code>	An Integer. A measure of a person or organizations creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
<code>href</code>	A String. Hyperlink reference.
<code>id</code>	A String. Unique identifier.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
emailAddress	A String. Full email address in standard format.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
faxNumber	A String. The fax number of the contact.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
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FloatCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
id	A String. Identifier for this contact medium.
postCode	A String. Postcode.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRole sub-resource fields

account	An AccountRef. Account reference. A account may be a party account or a financial account.
agreement	An AgreementRef. Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A Characteristic. Describes the characteristic of a party role.
contactMedium	A ContactMedium. Indicates the contact medium that could be used to contact the party.
creditProfile	A CreditProfile. Credit profile for the party (containing credit scoring, ...). By default only the current credit profile is retrieved. It can be used as a list to give the party credit profiles history, the first one in the list will be the current one.
description	A String. A description of the PartyRole.

engagedParty	A PartyRef. A Party reference.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. A word, term, or phrase by which the PartyRole is known and distinguished from other PartyRoles. It's the name of the PartyRole unique entity.
partyRoleSpecification	A PartyRoleSpecificationRef. Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.
paymentMethod	A PaymentMethodRef. PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
role	A String. Role played by the engagedParty in this context. As role is defined by partyRoleSpecification, this role attribute can be used to precise the role defined by partyRoleSpecification, or it can be used to define the role in case there is no partyRoleSpecification.
status	A String. Used to track the lifecycle status of the party role.
statusReason	A String. A string providing an explanation on the value of the status lifecycle. For instance if the status is Rejected, statusReason will provide the reason for rejection.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PaymentMethodRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
phoneNumber	A String. The phone number of the contact.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

partyOrPartyRole	A PartyOrPartyRole.
role	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

SocialContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
socialNetworkId	A String. Identifier as a member of a social network.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Json representation sample(s)

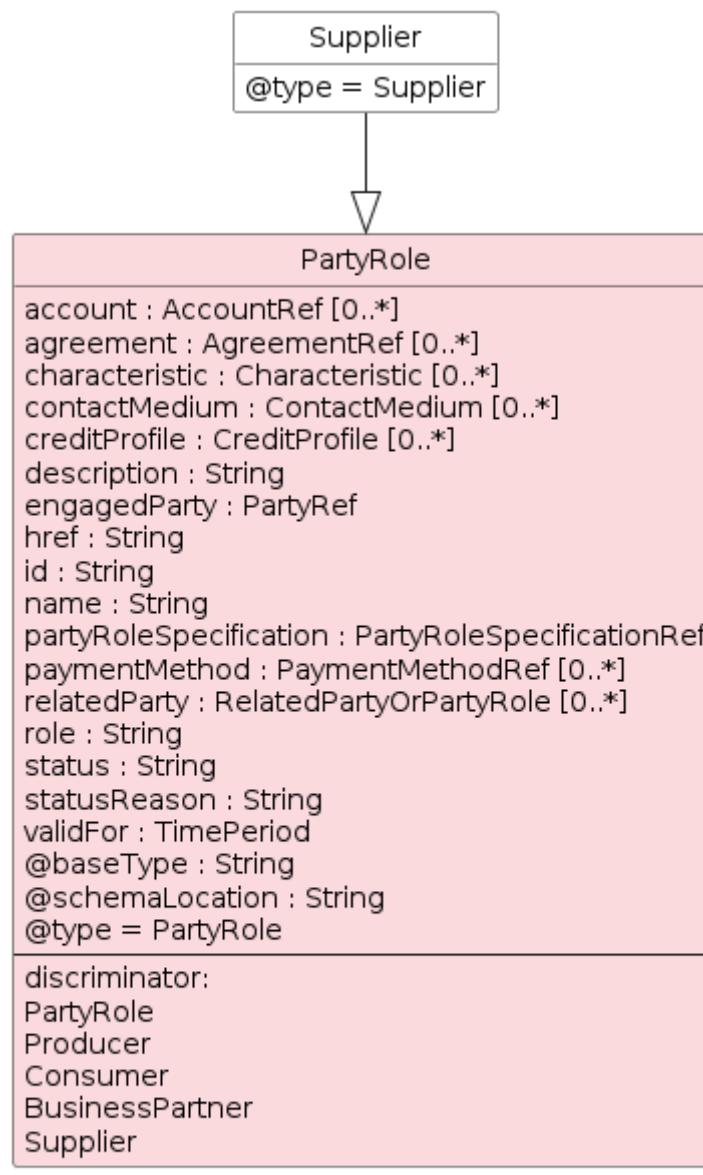
We provide below a JSON representation as example of the 'Consumer' resource object.

```
{  
    "@type": "Consumer",  
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/8",  
    "id": "8",  
    "name": "ClosedLoop A consumer",  
    "role": "Consumer",  
    "engagedParty": {  
        "@type": "PartyRef",  
        "href": "https://host:port/tmf-api/partyManagement/v2/organization/15",  
        "id": "15",  
        "name": "Top Network",  
        "@referredType": "Organization"  
    },  
    "partyRoleSpecification": {  
        "@type": "PartyRoleSpecificationRef",  
        "href": "https://host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/4",  
        "id": "4",  
        "name": "ClosedLoop consumer organization"  
    },  
    "status": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-24T00:00:00.000Z",  
        "endDateTime": "2024-06-24T00:00:00.000Z"  
    }  
}
```

Supplier resource

When business partner is the Supplier.

Resource model



Color	Description
White	Resource (entry point)
Pink	Sub-resource with details in separate diagram

(1) : Mandatory property

Figure 7 - Supplier

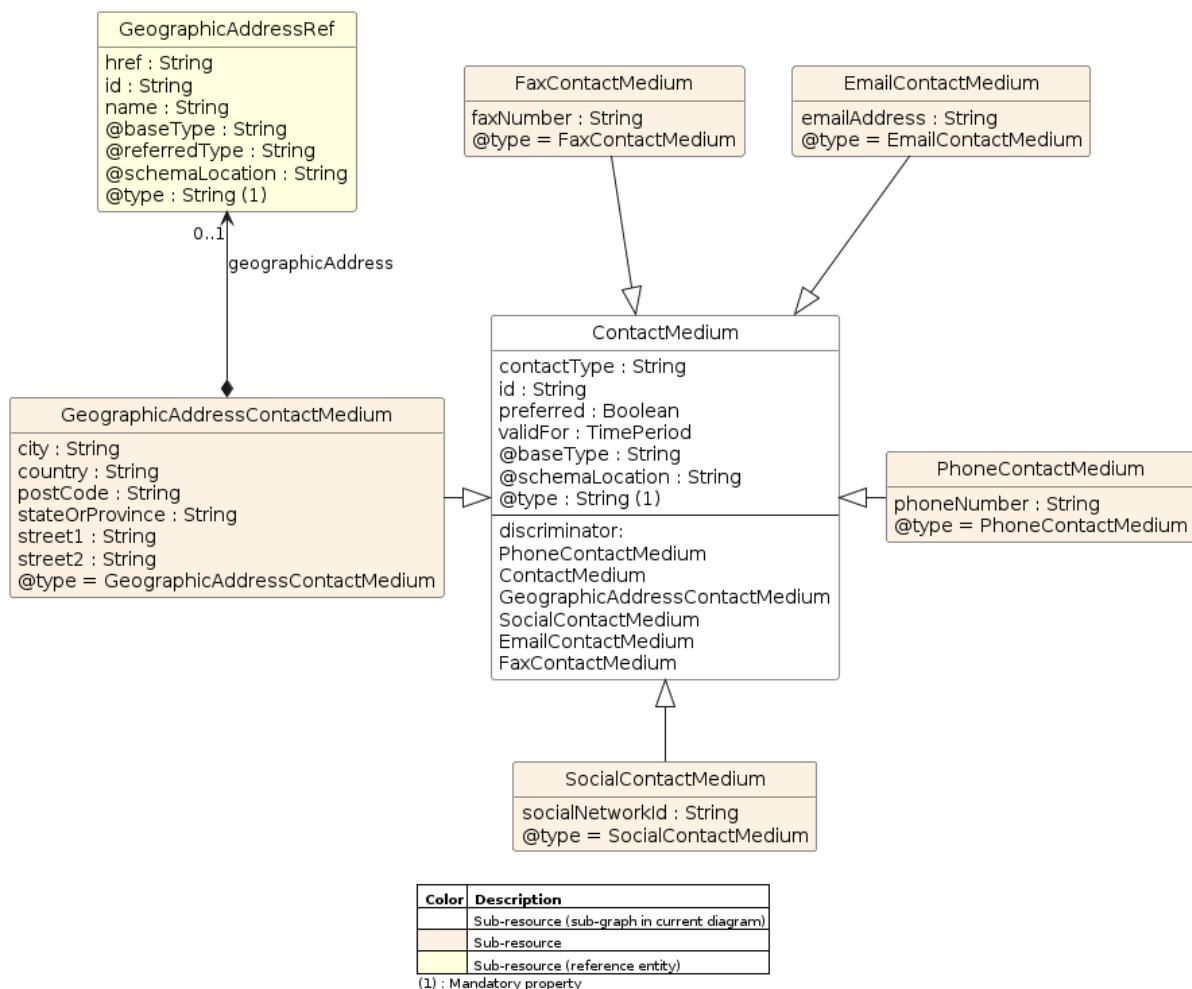


Figure 8 - ContactMedium

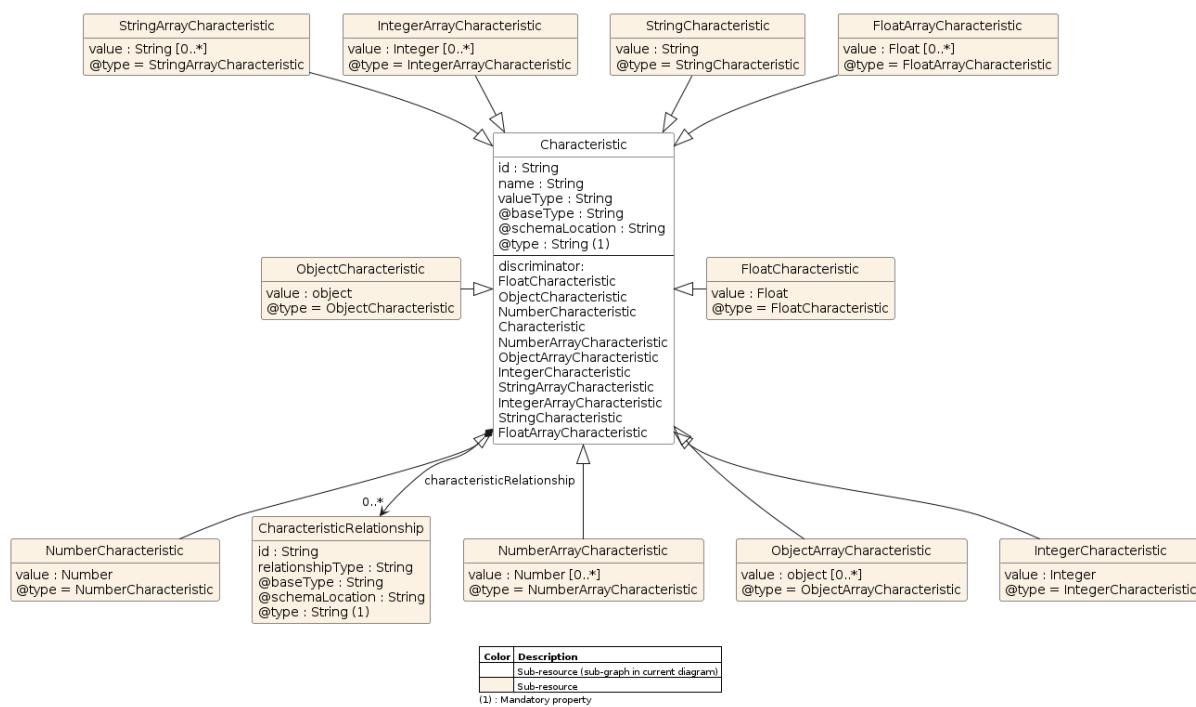


Figure 9 - Characteristic

Field descriptions

AccountRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicRelationship sub-resource fields

<code>id</code>	A String. Unique identifier of the characteristic.
<code>relationshipType</code>	A String. The type of relationship.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

ContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
<code>id</code>	A String. Identifier for this contact medium.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

CreditProfile sub-resource fields

<code>creditProfileDate</code>	A DateTime. The date the profile was established.
<code>creditRiskRating</code>	An Integer. This is an integer whose value is used to rate the risk.
<code>creditScore</code>	An Integer. A measure of a person or organizations creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
<code>href</code>	A String. Hyperlink reference.
<code>id</code>	A String. Unique identifier.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
emailAddress	A String. Full email address in standard format.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
faxNumber	A String. The fax number of the contact.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
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FloatCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
id	A String. Identifier for this contact medium.
postCode	A String. Postcode.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRole sub-resource fields

account	An AccountRef. Account reference. A account may be a party account or a financial account.
agreement	An AgreementRef. Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A Characteristic. Describes the characteristic of a party role.
contactMedium	A ContactMedium. Indicates the contact medium that could be used to contact the party.
creditProfile	A CreditProfile. Credit profile for the party (containing credit scoring, ...). By default only the current credit profile is retrieved. It can be used as a list to give the party credit profiles history, the first one in the list will be the current one.
description	A String. A description of the PartyRole.

engagedParty	A PartyRef. A Party reference.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. A word, term, or phrase by which the PartyRole is known and distinguished from other PartyRoles. It's the name of the PartyRole unique entity.
partyRoleSpecification	A PartyRoleSpecificationRef. Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.
paymentMethod	A PaymentMethodRef. PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
role	A String. Role played by the engagedParty in this context. As role is defined by partyRoleSpecification, this role attribute can be used to precise the role defined by partyRoleSpecification, or it can be used to define the role in case there is no partyRoleSpecification.
status	A String. Used to track the lifecycle status of the party role.
statusReason	A String. A string providing an explanation on the value of the status lifecycle. For instance if the status is Rejected, statusReason will provide the reason for rejection.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PaymentMethodRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
phoneNumber	A String. The phone number of the contact.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

partyOrPartyRole	A PartyOrPartyRole.
role	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

SocialContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
socialNetworkId	A String. Identifier as a member of a social network.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Json representation sample(s)

We provide below a JSON representation as example of the 'Supplier' resource object.

```
{  
    "@type": "Supplier",  
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/123",  
    "id": "123",  
    "name": "Good Phone supplier",  
    "role": "Supplier",  
    "engagedParty": {  
        "@type": "PartyRef",  
        "href": "https://host:port/tmf-api/partyManagement/v2/organization/14",  
        "id": "14",  
        "name": "Good Phone",  
        "@referredType": "Organization"  
    },  
    "partyRoleSpecification": {  
        "@type": "PartyRoleSpecificationRef",  
        "href": "https://host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/3",  
        "id": "3",  
        "name": "Devices supplier"  
    },  
    "characteristic": [  
        {  
            "@type": "StringCharacteristic",  
            "name": "CommercialDomain",  
            "valueType": "string",  
            "value": "devices"  
        }  
    ],  
    "contactMedium": [  
        {  
            "@type": "EmailContactMedium",  
            "id": "1",  
            "phoneNumber": "contact@goodphone.com"  
        }  
    ],  
    "relatedParty": [  
        {  
            "@type": "RelatedPartyOrPartyRole",  
            "role": "CEO",  
            "partyOrPartyRole": {  
                "@type": "PartyRef",  
                "href": "https://host:port/tmf-  
api/partyManagement/v4/individual/1a0b-961h",  
                "id": "1a0b-961h",  
                "name": "Marion Smith",  
                "@referredType": "Individual"  
            }  
        }  
    ],  
    "status": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-24T00:00:00.000Z",  
        "endDateTime": "2024-06-24T00:00:00.000Z"  
    }  
}
```

PartyRole resource

The part played by a party in a given context.

Resource model

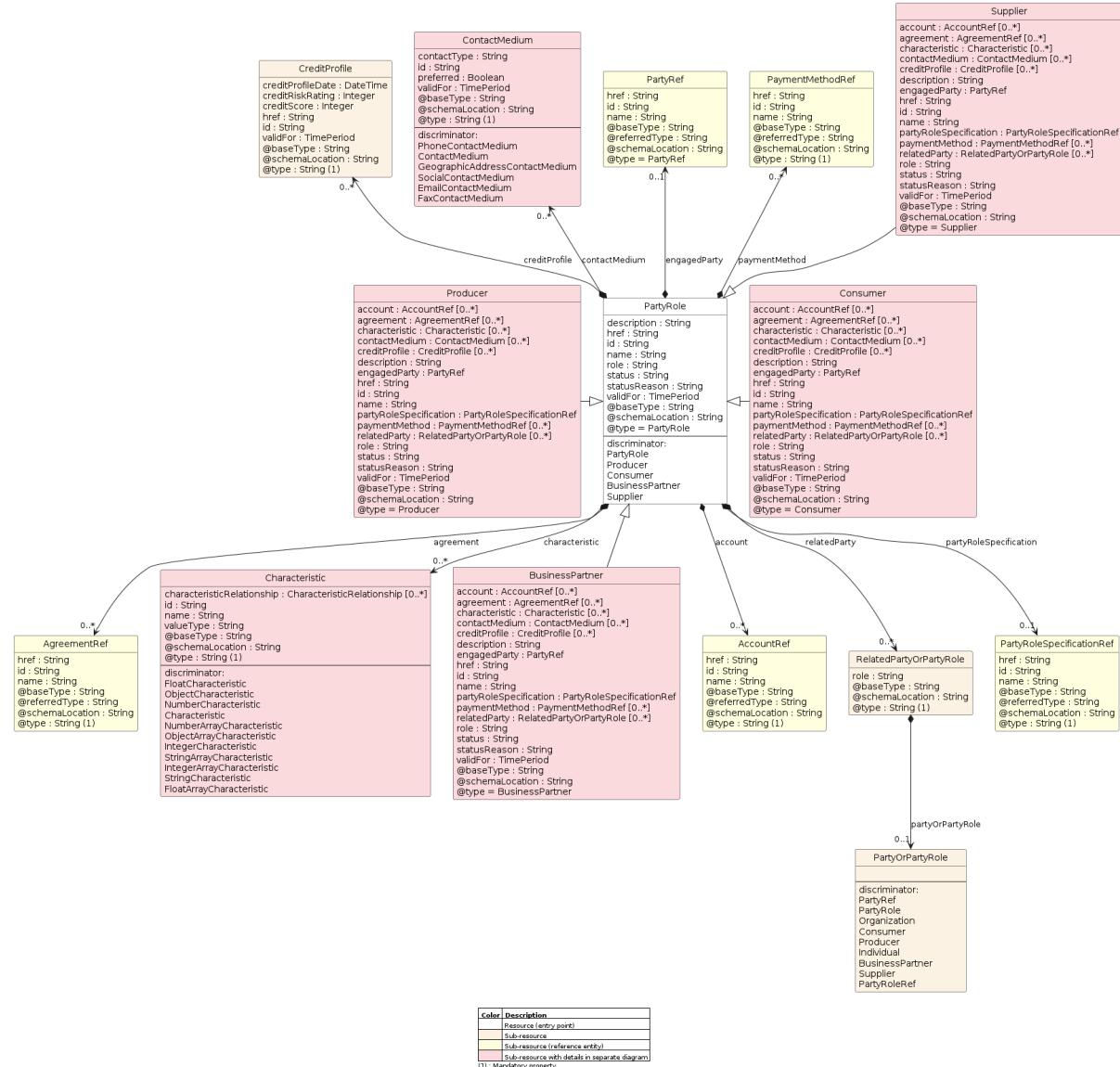


Figure 10 - PartyRole

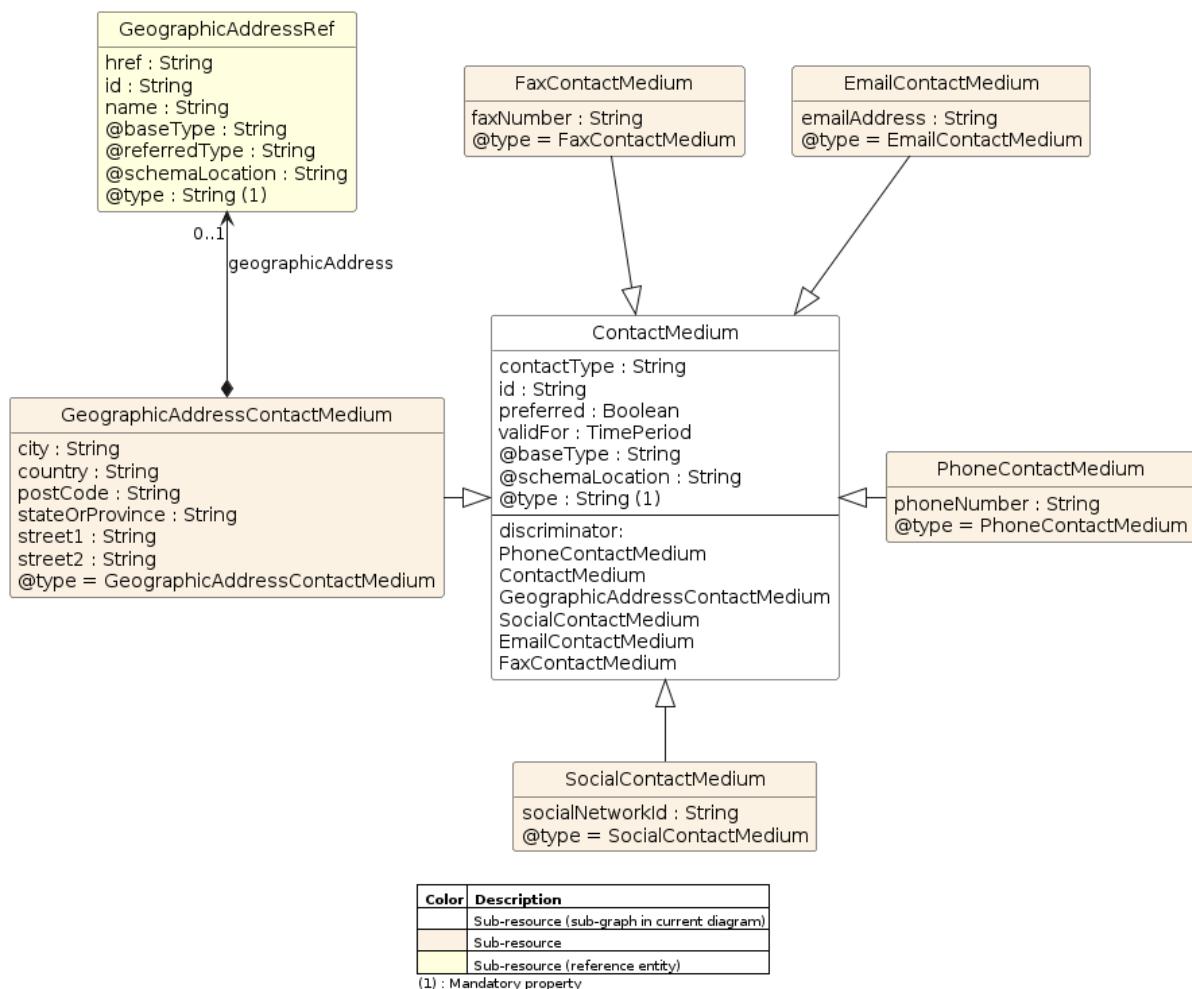


Figure 11 - ContactMedium

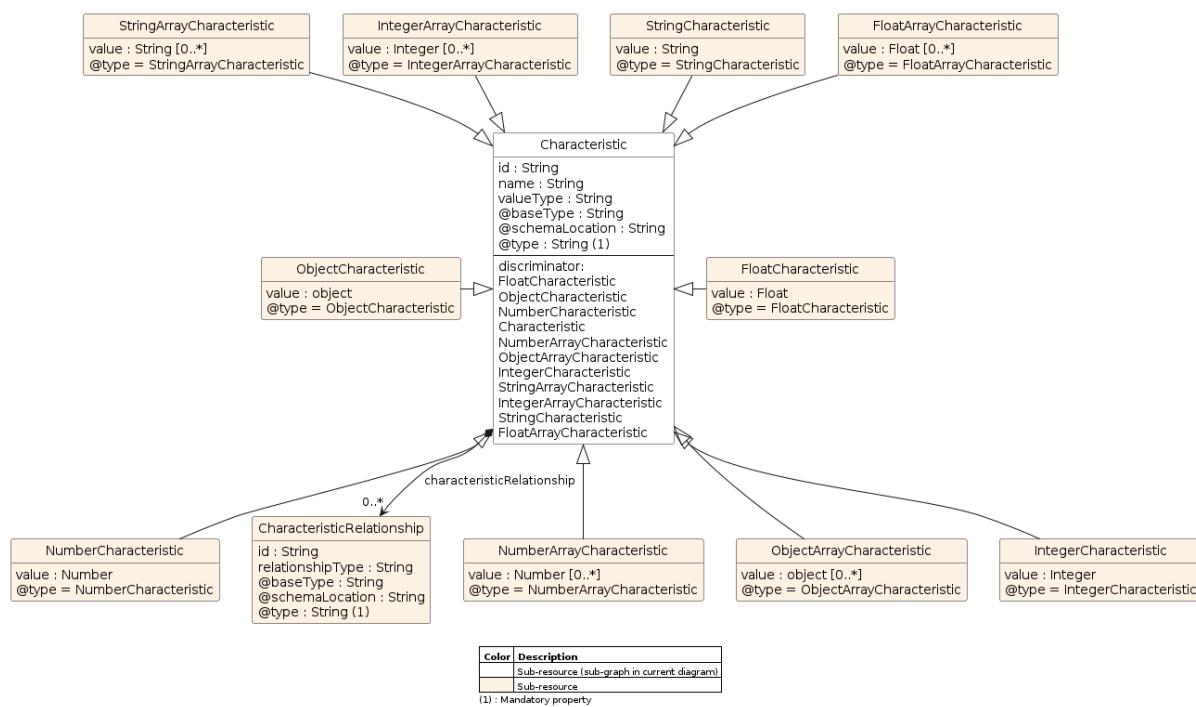


Figure 12 - Characteristic

Field descriptions

PartyRole fields

account	An AccountRef. Account reference. A account may be a party account or a financial account.
agreement	An AgreementRef. Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A Characteristic. Describes the characteristic of a party role.
contactMedium	A ContactMedium. Indicates the contact medium that could be used to contact the party.
creditProfile	A CreditProfile. Credit profile for the party (containing credit scoring, ...). By default only the current credit profile is retrieved. It can be used as a list to give the party credit profiles history, the first one in the list will be the current one.
description	A String. A description of the PartyRole.
engagedParty	A PartyRef. A Party reference.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. A word, term, or phrase by which the PartyRole is known and distinguished from other PartyRoles. It's the name of the PartyRole unique entity.
partyRoleSpecification	A PartyRoleSpecificationRef. Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.
paymentMethod	A PaymentMethodRef. PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
role	A String. Role played by the engagedParty in this context. As role is defined by partyRoleSpecification, this role attribute can be used to precise the role defined by partyRoleSpecification, or it can be used to define the role in case there is no partyRoleSpecification.
status	A String. Used to track the lifecycle status of the party role.
statusReason	A String. A string providing an explanation on the value of the status lifecycle. For instance if the status is Rejected, statusReason will provide the reason for rejection.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.

@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AccountRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
-------	--

CharacteristicRelationship sub-resource fields

id	A String. Unique identifier of the characteristic.
relationshipType	A String. The type of relationship.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CreditProfile sub-resource fields

creditProfileDate	A DateTime. The date the profile was established.
creditRiskRating	An Integer. This is an integer whose value is used to rate the risk.
creditScore	An Integer. A measure of a person or organizations creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
-------	--

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
emailAddress	A String. Full email address in standard format.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
faxNumber	A String. The fax number of the contact.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float.
valueType	A String. Data type of the value of the characteristic.

@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
id	A String. Identifier for this contact medium.
postCode	A String. Postcode.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PaymentMethodRef sub-resource fields

href	A String. Hyperlink reference.
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<code>id</code>	A String. Unique identifier.
<code>name</code>	A String. Name of the referred entity.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@referredType</code>	A String. The actual type of the target instance when needed for disambiguation.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

PhoneContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
<code>id</code>	A String. Identifier for this contact medium.
<code>phoneNumber</code>	A String. The phone number of the contact.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

<code>partyOrPartyRole</code>	A PartyOrPartyRole.
<code>role</code>	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

SocialContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
--------------------------	---

<code>id</code>	A String. Identifier for this contact medium.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>socialNetworkId</code>	A String. Identifier as a member of a social network.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

<code>characteristicRelationship</code>	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
<code>id</code>	A String. Unique identifier of the characteristic.
<code>name</code>	A String. Name of the characteristic.
<code>value</code>	A String.
<code>valueType</code>	A String. Data type of the value of the characteristic.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

<code>characteristicRelationship</code>	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
<code>id</code>	A String. Unique identifier of the characteristic.
<code>name</code>	A String. Name of the characteristic.
<code>value</code>	A String. Value of the characteristic.
<code>valueType</code>	A String. Data type of the value of the characteristic.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

Json representation sample(s)

We provide below a JSON representation as example of the 'PartyRole' resource object.

```
{  
    "@type": "PartyRole",  
    "href": "https:/host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",  
    "id": "7321-7c0d",  
    "name": "Mobile catalog administrator",  
    "role": "CatalogAdmin",  
    "engagedParty": {  
        "@type": "PartyRef",  
        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",  
        "id": "3b1c-74f1",  
        "name": "Jean Pontus",  
        "@REFERREDTYPE": "Individual"  
    },  
    "partyRoleSpecification": {  
        "@type": "PartyRoleSpecificationRef",  
        "href": "https:/host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/5713",  
        "id": "5713",  
        "name": "Catalog administrator"  
    },  
    "characteristic": [  
        {  
            "@type": "StringCharacteristic",  
            "name": "CatalogDomain",  
            "valueType": "string",  
            "value": "mobile catalog"  
        }  
    ],  
    "contactMedium": [  
        {  
            "@type": "PhoneContactMedium",  
            "id": "1",  
            "phoneNumber": "+3311223344"  
        }  
    ],  
    "relatedParty": [  
        {  
            "@type": "RelatedPartyOrPartyRole",  
            "role": "manager",  
            "partyOrPartyRole": {  
                "@type": "PartyRef",  
                "href": "https:/host:port/tmf-  
api/partyManagement/v4/individual/1a0b-961f",  
                "id": "1a0b-961f",  
                "name": "Gustave Flaubert",  
                "@REFERREDTYPE": "Individual"  
            }  
        }  
    ],  
    "status": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-24T00:00:00.000Z",  
        "endDateTime": "2024-06-24T00:00:00.000Z"  
    }  
}
```

BusinessPartner resource

When business partner is the BusinessPartner.

Resource model

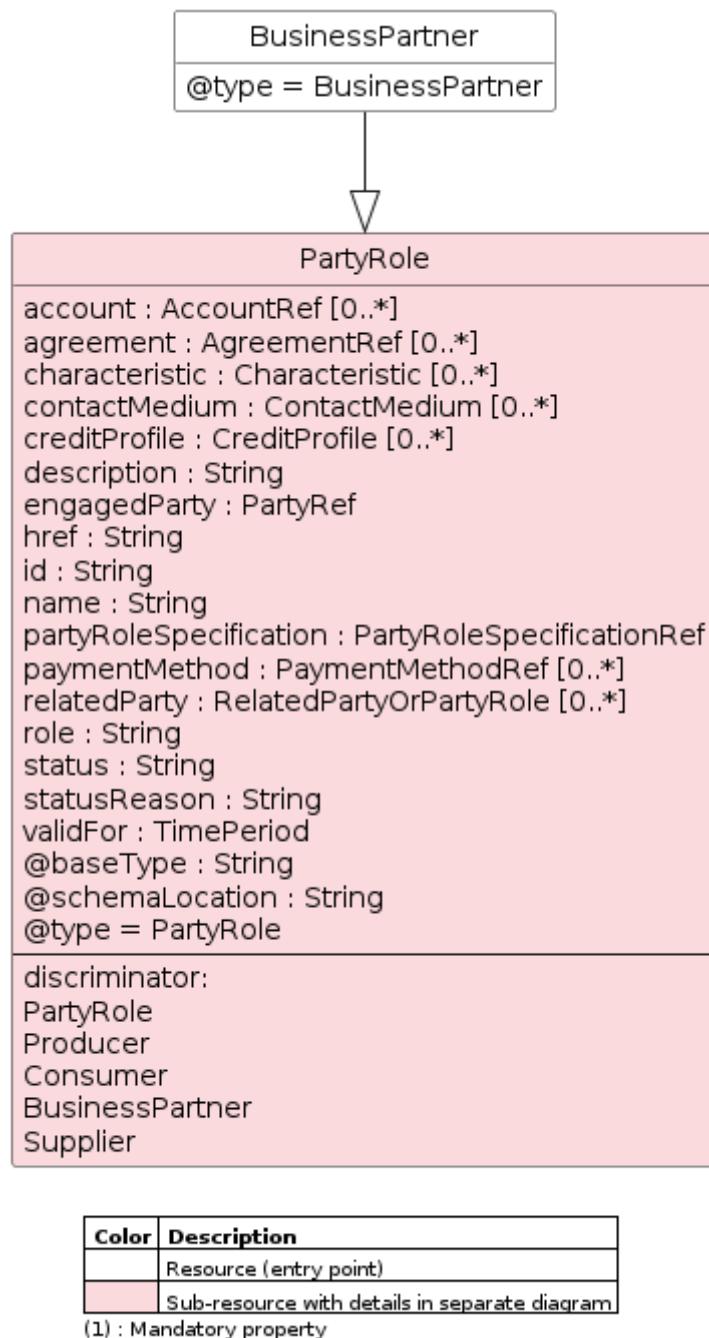


Figure 13 - BusinessPartner

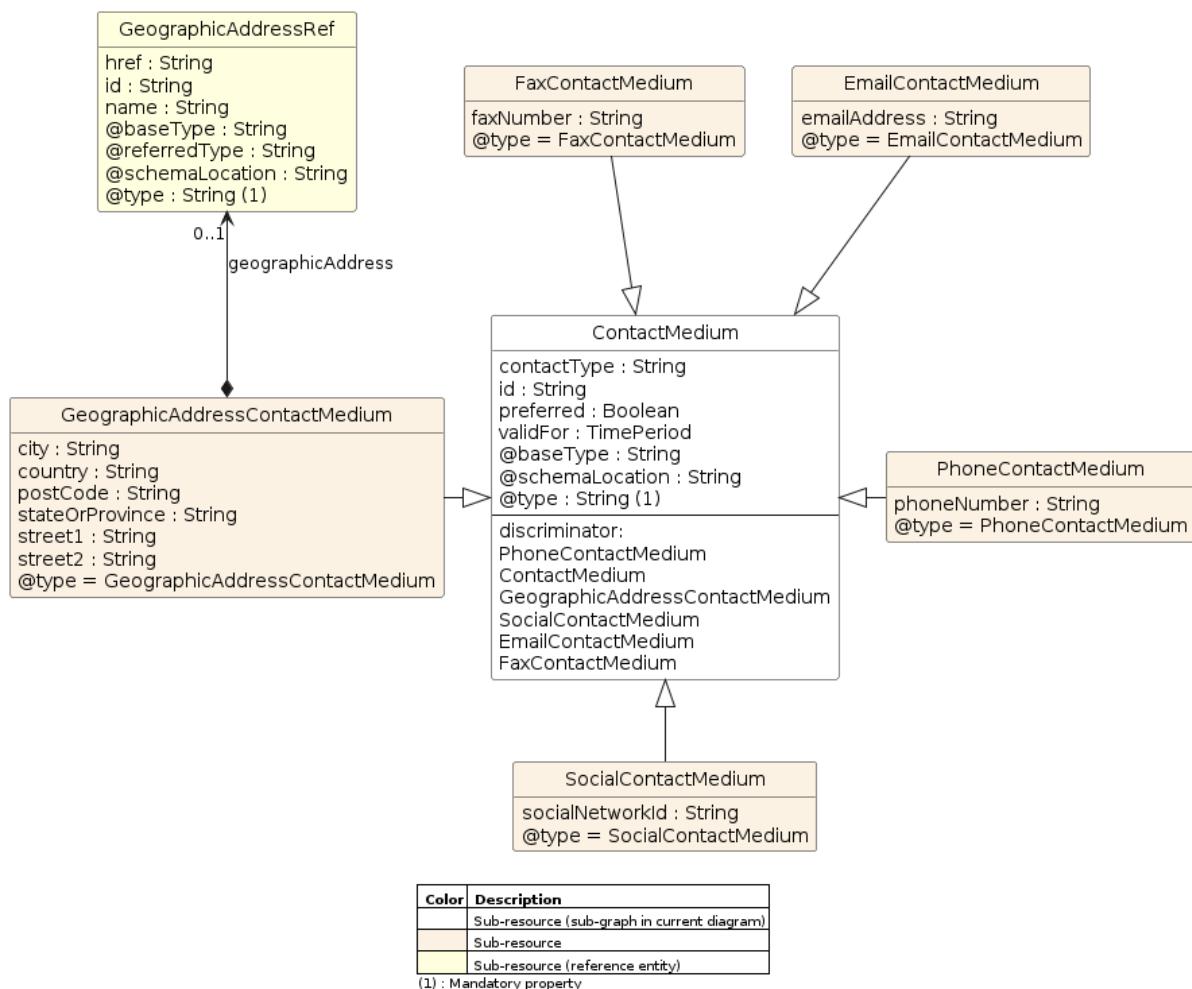


Figure 14 - ContactMedium

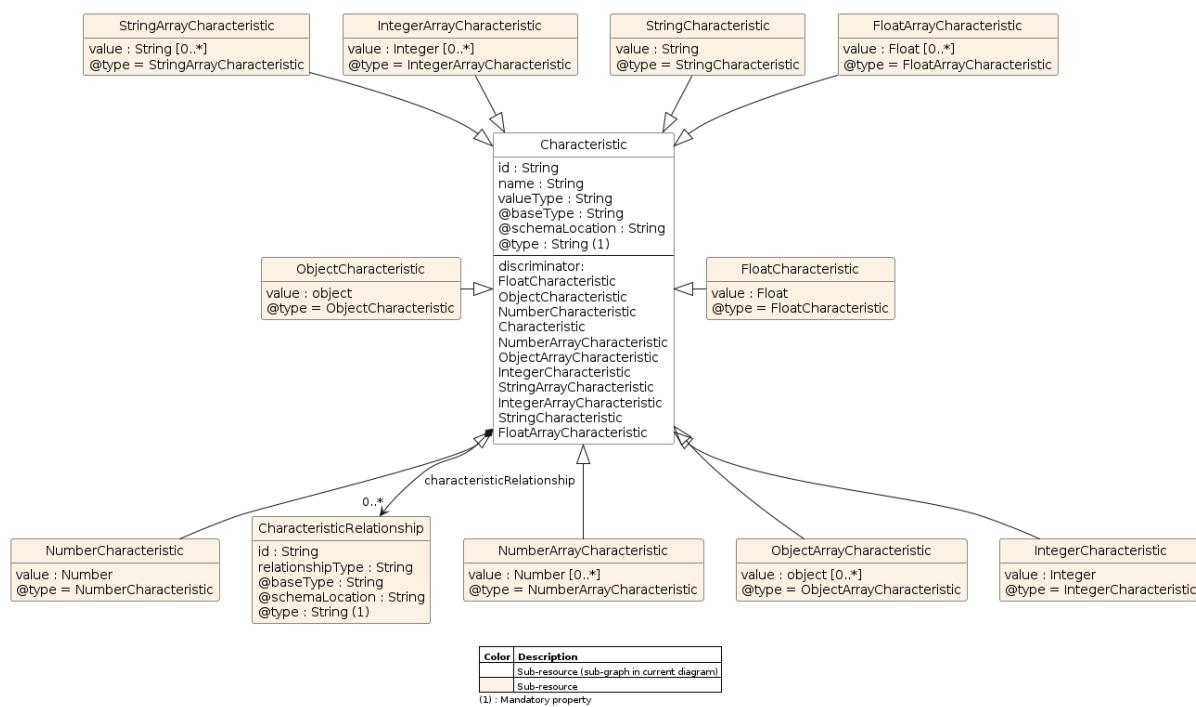


Figure 15 - Characteristic

Field descriptions

AccountRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicRelationship sub-resource fields

<code>id</code>	A String. Unique identifier of the characteristic.
<code>relationshipType</code>	A String. The type of relationship.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

ContactMedium sub-resource fields

<code>contactType</code>	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
<code>id</code>	A String. Identifier for this contact medium.
<code>preferred</code>	A Boolean. If true, indicates that is the preferred contact medium.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

CreditProfile sub-resource fields

<code>creditProfileDate</code>	A DateTime. The date the profile was established.
<code>creditRiskRating</code>	An Integer. This is an integer whose value is used to rate the risk.
<code>creditScore</code>	An Integer. A measure of a person or organizations creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
<code>href</code>	A String. Hyperlink reference.
<code>id</code>	A String. Unique identifier.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
emailAddress	A String. Full email address in standard format.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
faxNumber	A String. The fax number of the contact.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.

@type	A String. When sub-classing, this defines the sub-class Extensible name.
-------	--

FloatCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Float. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
id	A String. Identifier for this contact medium.
postCode	A String. Postcode.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An Integer. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A Number. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	An object. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRole sub-resource fields

account	An AccountRef. Account reference. A account may be a party account or a financial account.
agreement	An AgreementRef. Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A Characteristic. Describes the characteristic of a party role.
contactMedium	A ContactMedium. Indicates the contact medium that could be used to contact the party.
creditProfile	A CreditProfile. Credit profile for the party (containing credit scoring, ...). By default only the current credit profile is retrieved. It can be used as a list to give the party credit profiles history, the first one in the list will be the current one.
description	A String. A description of the PartyRole.

engagedParty	A PartyRef. A Party reference.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. A word, term, or phrase by which the PartyRole is known and distinguished from other PartyRoles. It's the name of the PartyRole unique entity.
partyRoleSpecification	A PartyRoleSpecificationRef. Party role specification reference. A party role specification gives additional details on the part played by a party in a given context.
paymentMethod	A PaymentMethodRef. PaymentMethod reference. A payment method defines a specific mean of payment (e.g direct debit).
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
role	A String. Role played by the engagedParty in this context. As role is defined by partyRoleSpecification, this role attribute can be used to precise the role defined by partyRoleSpecification, or it can be used to define the role in case there is no partyRoleSpecification.
status	A String. Used to track the lifecycle status of the party role.
statusReason	A String. A string providing an explanation on the value of the status lifecycle. For instance if the status is Rejected, statusReason will provide the reason for rejection.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PaymentMethodRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
phoneNumber	A String. The phone number of the contact.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

partyOrPartyRole	A PartyOrPartyRole.
role	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

SocialContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
socialNetworkId	A String. Identifier as a member of a social network.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

characteristicRelationship	A CharacteristicRelationship. Another Characteristic that is related to the current Characteristic;.
id	A String. Unique identifier of the characteristic.
name	A String. Name of the characteristic.
value	A String. Value of the characteristic.
valueType	A String. Data type of the value of the characteristic.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Json representation sample(s)

We provide below a JSON representation as example of the 'BusinessPartner' resource object.

```
{  
    "@type": "BusinessPartner",  
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/456",  
    "id": "456",  
    "name": "ABC application developer",  
    "role": "BusinessPartner",  
    "engagedParty": {  
        "@type": "PartyRef",  
        "href": "https://host:port/tmf-api/partyManagement/v2/organization/13",  
        "id": "13",  
        "name": "ABC dev",  
        "@referredType": "Organization"  
    },  
    "partyRoleSpecification": {  
        "@type": "PartyRoleSpecificationRef",  
        "href": "https://host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/2",  
        "id": "2",  
        "name": "Application developer"  
    },  
    "characteristic": [  
        {  
            "@type": "StringCharacteristic",  
            "name": "CommercialDomain",  
            "valueType": "string",  
            "value": "network API"  
        }  
    ],  
    "contactMedium": [  
        {  
            "@type": "EmailContactMedium",  
            "id": "1",  
            "phoneNumber": "contact@ABCdev.com"  
        }  
    ],  
    "relatedParty": [  
        {  
            "@type": "RelatedPartyOrPartyRole",  
            "role": "CEO",  
            "partyOrPartyRole": {  
                "@type": "PartyRef",  
                "href": "https://host:port/tmf-  
api/partyManagement/v4/individual/1a0b-961g",  
                "id": "1a0b-961g",  
                "name": "Sandra Boltz",  
                "@referredType": "Individual"  
            }  
        }  
    ],  
    "status": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-24T00:00:00.000Z",  
        "endDateTime": "2024-06-24T00:00:00.000Z"  
    }  
}
```

}

PartyRoleSpecification resource

Party role specification. A party role specification gives additional details on the part played by a party in a given context.

Resource model

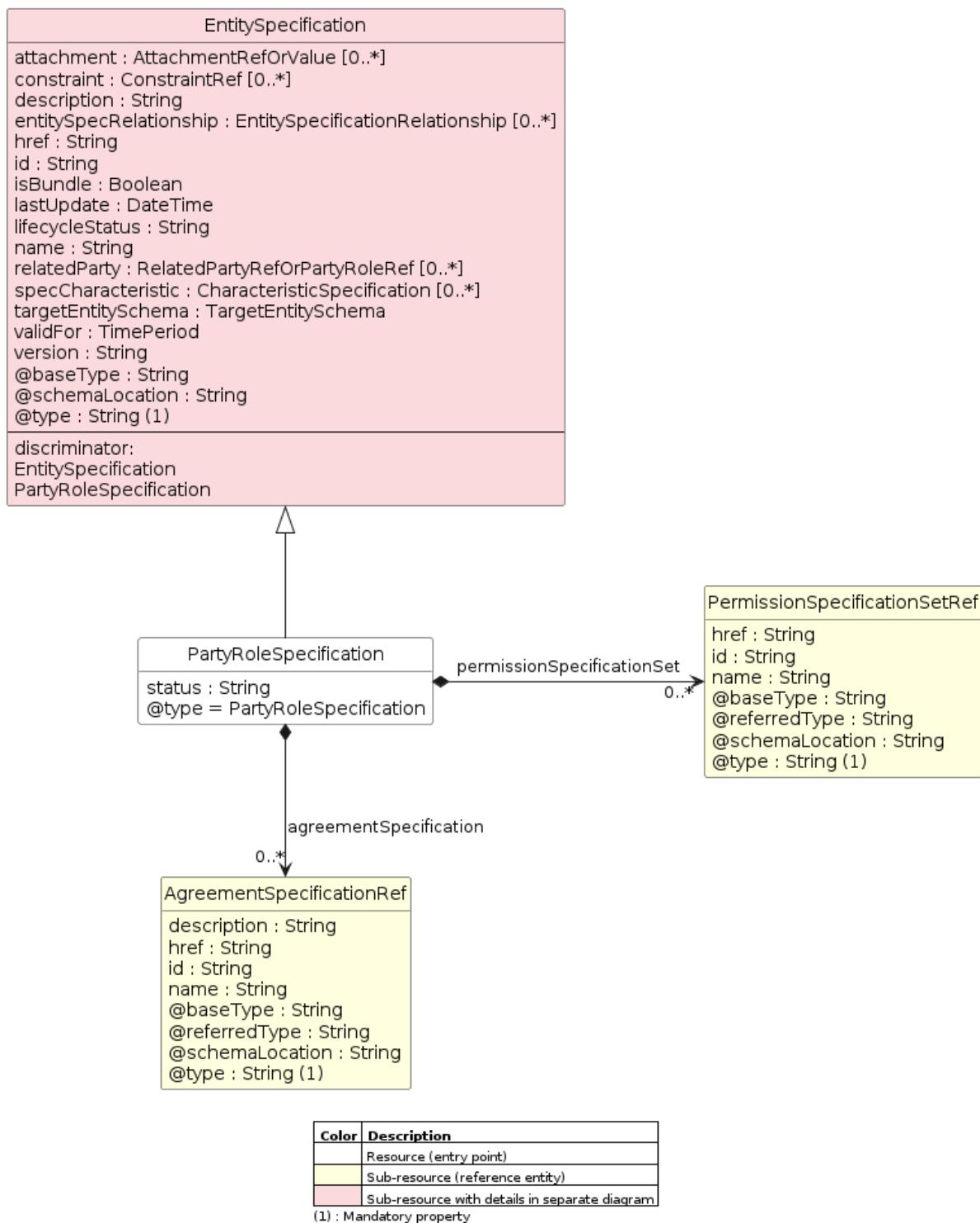


Figure 16 - PartyRoleSpecification

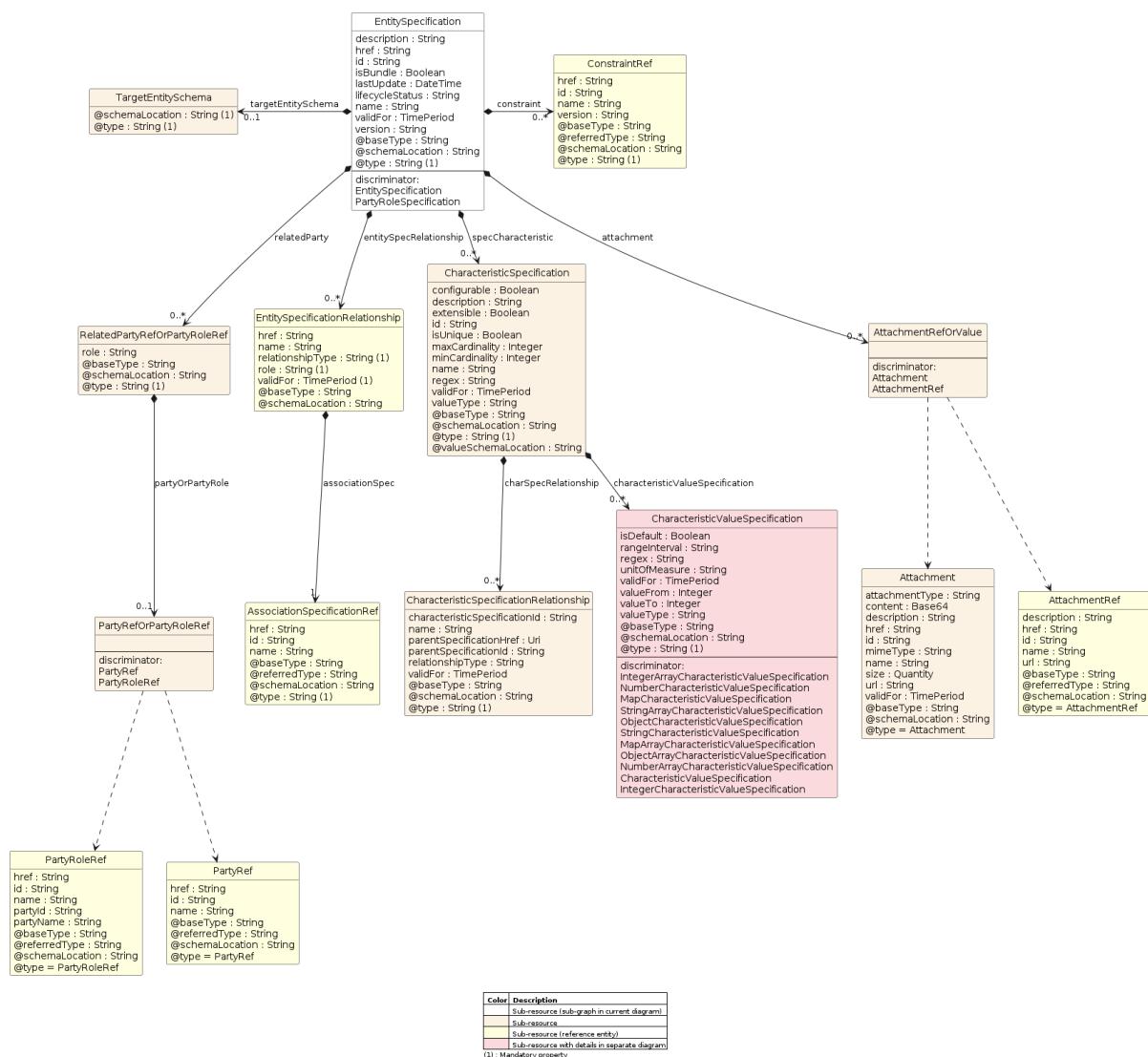


Figure 17 - EntitySpecification

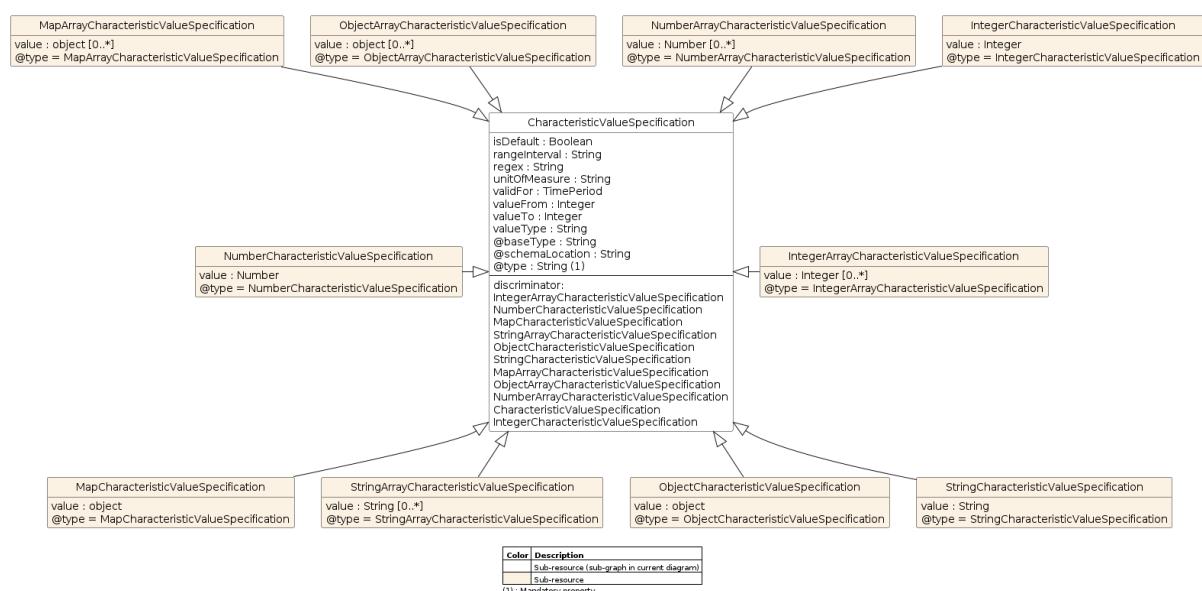


Figure 18 - CharacteristicValueSpecification

Field descriptions

PartyRoleSpecification fields

agreementSpecification	An AgreementSpecificationRef. Agreement specification reference. An AgreementSpecification represents a template of an agreement that can be used when establishing partnerships.
attachment	An AttachmentRefOrValue. Attachments that may be of relevance to this specification, such as picture, document, media.
constraint	A ConstraintRef. This is a list of constraint references applied to this specification.
description	A String. Description of the specification.
entitySpecRelationship	An EntitySpecificationRelationship. Relationship to another specification.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
isBundle	A Boolean. IsBundle determines whether specification represents a single specification (false), or a bundle of specifications (true).
lastUpdate	A DateTime. Date and time of the last update of the specification.
lifecycleStatus	A String. Used to indicate the current lifecycle status of this catalog item.
name	A String. Name given to the specification.
permissionSpecificationSet	A PermissionSpecificationSetRef. A PermissionSpecificationSet defines a set of permissions that can be attached to a party role specification. The resulting permissions will then apply to all users that adopt this party role.
relatedParty	A RelatedPartyRefOrPartyRoleRef. Parties who manage or otherwise have an interest in this specification.
specCharacteristic	A CharacteristicSpecification. List of characteristics that the entity can take.
status	A String. Used to track the lifecycle status of the partyRoleSpecification.
targetEntitySchema	A TargetEntitySchema. The reference object to the schema and type of target entity which is described by a specification.
validFor	A TimePeriod. A period of time, either as a deadline (endDateOnly) a startDateTime only, or both.
version	A String. Specification version.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AgreementSpecificationRef sub-resource fields

description	A String. A narrative that explains in detail what the agreement specification is about.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AssociationSpecificationRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Attachment sub-resource fields

attachmentType	A String. A business characterization of the purpose of the attachment, for example logo, instructionManual, contractCopy.
content	A Base64. The actual contents of the attachment object, if embedded, encoded as base64.
description	A String. A narrative text describing the content of the attachment.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
contentType	A String. A technical characterization of the attachment content format using IETF Mime Types.
name	A String. The name of the attachment.
size	A Quantity. An amount in a given unit.

url	A String. Uniform Resource Locator, is a web page address (a subset of URI).
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

AttachmentRef sub-resource fields

description	A String. A narrative text describing the content of the attachment.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
url	A String. Link to the attachment media/content.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicSpecification sub-resource fields

charSpecRelationship	A CharacteristicSpecificationRelationship. An aggregation, migration, substitution, dependency or exclusivity relationship between/among Specification Characteristics.
characteristicValueSpecification	A CharacteristicValueSpecification. A CharacteristicValueSpecification object is used to define a set of attributes, each of which can be assigned to a corresponding set of attributes in a CharacteristicSpecification object. The values of the attributes in the CharacteristicValueSpecification object describe the values of the attributes that a corresponding Characteristic object can take on.
configurable	A Boolean. If true, the Boolean indicates that the target Characteristic is configurable.
description	A String. A narrative that explains the CharacteristicSpecification.
extensible	A Boolean. An indicator that specifies that the values for the characteristic can be extended by adding new values when instantiating a characteristic for a resource.

id	A String. Unique ID for the characteristic.
isUnique	A Boolean. Specifies if the value of this characteristic is unique across all entities instantiated from the specification that uses this characteristic. For example, consider a ProductSpecification for a set-top box, with a CharacteristicSpecification cardID. Each set-top box must have a different value for cardID, so this isUnique attribute would be set to true for the characteristic.
maxCardinality	An Integer. The maximum number of instances a CharacteristicValue can take on. For example, zero to five phone numbers in a group calling plan, where five is the value for the maxCardinality.
minCardinality	An Integer. The minimum number of instances a CharacteristicValue can take on. For example, zero to five phone numbers in a group calling plan, where zero is the value for the minCardinality.
name	A String. A word, term, or phrase by which this characteristic specification is known and distinguished from other characteristic specifications.
regex	A String. A rule or principle represented in regular expression used to derive the value of a characteristic value.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
valueType	A String. A kind of value that the characteristic can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.
@valueSchemaLocation	A String. This (optional) field provides a link to the schema describing the value type.

CharacteristicSpecificationRelationship sub-resource fields

characteristicSpecificationId	A String. Unique identifier of the characteristic within the specification.
name	A String. Name of the target characteristic within the specification.
parentSpecificationHref	A Uri. Hyperlink reference to the parent specification containing the target characteristic.
parentSpecificationId	A String. Unique identifier of the parent specification containing the target characteristic.
relationshipType	A String. Type of relationship such as aggregation, migration, substitution, dependency, exclusivity.

validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

CharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ConstraintRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
version	A String. Constraint version.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.

@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

EntitySpecification sub-resource fields

attachment	An AttachmentRefOrValue. Attachments that may be of relevance to this specification, such as picture, document, media.
constraint	A ConstraintRef. This is a list of constraint references applied to this specification.
description	A String. Description of the specification.
entitySpecRelationship	An EntitySpecificationRelationship. Relationship to another specification.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
isBundle	A Boolean. IsBundle determines whether specification represents a single specification (false), or a bundle of specifications (true).
lastUpdate	A DateTime. Date and time of the last update of the specification.
lifecycleStatus	A String. Used to indicate the current lifecycle status of this catalog item.
name	A String. Name given to the specification.
relatedParty	A RelatedPartyRefOrPartyRoleRef. Parties who manage or otherwise have an interest in this specification.
specCharacteristic	A CharacteristicSpecification. List of characteristics that the entity can take.
targetEntitySchema	A TargetEntitySchema. The reference object to the schema and type of target entity which is described by a specification.
validFor	A TimePeriod. A period of time, either as a deadline (endDateOnly) a startDateTime only, or both.
version	A String. Specification version.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

EntitySpecificationRelationship sub-resource fields

associationSpec	An AssociationSpecificationRef. Reference to an AssociationSpecification object.
href	A String.

<code>name</code>	A String.
<code>relationshipType</code>	A String. Type of relationship such as migration, substitution, dependency, exclusivity.
<code>role</code>	A String. The association role for this entity specification.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>@baseType</code>	A String.
<code>@schemaLocation</code>	A String.

IntegerArrayCharacteristicValueSpecification sub-resource fields

<code>isDefault</code>	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
<code>rangelInterval</code>	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
<code>regex</code>	A String. A regular expression constraint for given value.
<code>unitOfMeasure</code>	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
<code>value</code>	An Integer.
<code>valueFrom</code>	An Integer. The low range value that a characteristic can take on.
<code>valueTo</code>	An Integer. The upper range value that a characteristic can take on.
<code>valueType</code>	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristicValueSpecification sub-resource fields

<code>isDefault</code>	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
<code>rangelInterval</code>	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".

regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	An Integer. Value of the characteristic.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

MapArrayCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	An object.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.

@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

MapCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangelInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
value	An object. Value of the characteristic.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangelInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.

validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	A Number.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	A Number. Value of the characteristic.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	An object.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
value	An object. Value of the characteristic.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.

valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PartyRoleRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.
name	A String. Name of the referred entity.
partyId	A String. The identifier of the engaged party that is linked to the PartyRole object.
partyName	A String. The name of the engaged party that is linked to the PartyRole object.
@baseType	A String. When sub-classing, this defines the super-class.
@referredType	A String. The actual type of the target instance when needed for disambiguation.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

PermissionSpecificationSetRef sub-resource fields

href	A String. Hyperlink reference.
id	A String. Unique identifier.

<code>name</code>	A String. Name of the referred entity.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@referredType</code>	A String. The actual type of the target instance when needed for disambiguation.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyRefOrPartyRoleRef sub-resource fields

<code>partyOrPartyRole</code>	A PartyRefOrPartyRoleRef.
<code>role</code>	A String. Role played by the related party or party role in the context of the specific entity it is linked to. Such as 'initiator', 'customer', 'salesAgent', 'user'.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.
<code>@schemaLocation</code>	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
<code>@type</code>	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristicValueSpecification sub-resource fields

<code>isDefault</code>	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
<code>rangeInterval</code>	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
<code>regex</code>	A String. A regular expression constraint for given value.
<code>unitOfMeasure</code>	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
<code>validFor</code>	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
<code>value</code>	A String.
<code>valueFrom</code>	An Integer. The low range value that a characteristic can take on.
<code>valueTo</code>	An Integer. The upper range value that a characteristic can take on.
<code>valueType</code>	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
<code>@baseType</code>	A String. When sub-classing, this defines the super-class.

@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristicValueSpecification sub-resource fields

isDefault	A Boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.
rangeInterval	A String. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".
regex	A String. A regular expression constraint for given value.
unitOfMeasure	A String. A length, surface, volume, dry measure, liquid measure, money, weight, time, and the like. In general, a determinate quantity or magnitude of the kind designated, taken as a standard of comparison for others of the same kind, in assigning to them numerical values, as 1 foot, 1 yard, 1 mile, 1 square foot.
validFor	A TimePeriod. A period of time, either as a deadline (endTime only) a startTime only, or both.
value	A String. Value of the characteristic.
valueFrom	An Integer. The low range value that a characteristic can take on.
valueTo	An Integer. The upper range value that a characteristic can take on.
valueType	A String. A kind of value that the characteristic value can take on, such as numeric, text and so forth.
@baseType	A String. When sub-classing, this defines the super-class.
@schemaLocation	A String. A URI to a JSON-Schema file that defines additional attributes and relationships.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

TargetEntitySchema sub-resource fields

@schemaLocation	A String. This field provides a link to the schema describing the target entity.
@type	A String. Class type of the target entity.

Json representation sample(s)

We provide below a JSON representation as example of the 'PartyRoleSpecification' resource object.

```
{
  "permissionSpecificationSet": [
    {
      ...
    }
  ]
}
```

```

    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
    "id": "2473-dc10"
},
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
    "id": "920e-01df"
}
],
"lifecycleStatus": "validationInProgress",
"validFor": {"startDateTime": "2022-06-01T00:00:00.000Z"},
"@type": "PartyRoleSpecification",
"name": "Catalog administration",
"specCharacteristic": [
    {
        "@type": "CharacteristicSpecification",
        "valueType": "string",
        "characteristicValueSpecification": [
            {
                "@type": "StringCharacteristicValueSpecification",
                "valueType": "string",
                "value": "mobile catalog"
            },
            {
                "@type": "StringCharacteristicValueSpecification",
                "valueType": "string",
                "value": "internet/TV catalog"
            },
            {
                "@type": "StringCharacteristicValueSpecification",
                "valueType": "string",
                "value": "B2B catalog"
            }
        ],
        "name": "CatalogDomain",
        "id": "1"
    }
],
"href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
"id": "5713",
"relatedParty": [
    {
        "partyOrPartyRole": {
            "@referredType": "Individual",
            "@type": "PartyRef",
            "name": "John Doe",
            "href": "https:/host:port/tmf-api/partyManagement/v4/individual/62ac-01fb",
            "id": "62ac-01fb"
        },
        "role": "Rights&access manager",
        "@type": "RelatedPartyOrPartyRole"
    }
]
}

```

Notification Resource Models

8 notifications are defined for this API.

Notifications related to PartyRole:

- Party Role State Change Event
- Party Role Create Event
- Party Role Delete Event
- Party Role Attribute Value Change Event

Notifications related to PartyRoleSpecification:

- Party Role Specification Delete Event
- Party Role Specification State Change Event
- Party Role Specification Attribute Value Change Event
- Party Role Specification Create Event

The notification structure for all notifications in this API follow the pattern depicted by the figure below. A notification event resource (depicted by "SpecificEvent" placeholder) is a sub class of a generic Event structure containing at least an id of the event occurrence (eventId), an event timestamp (eventTime), and the name of the resource (eventType). This notification structure owns an event payload structure ("SpecificEventPayload" placeholder) linked to the resource concerned by the notification using the resource name as access field ("resourceName" placeholder).

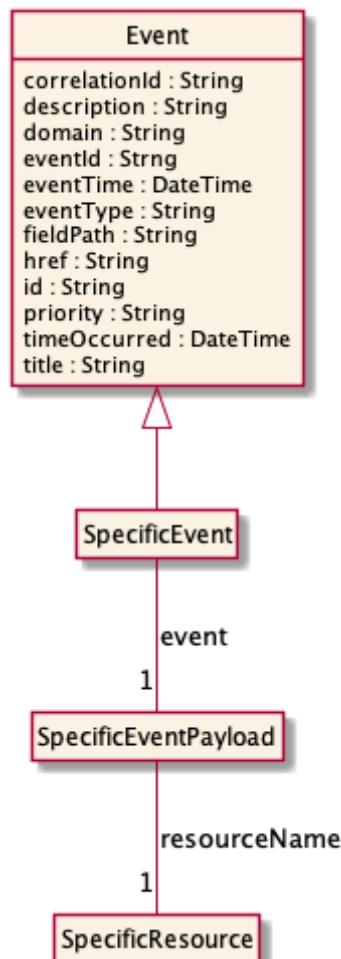


Figure 19 Notification Pattern

Party Role State Change Event

Message example for PartyRoleStateChangeEvent event

```
Content-Type: application/json

{
    "@type": "PartyRoleStateChangeEvent",
    "@baseType": "Event",
    "correlationId": "01424706-45de",
    "domain": "Commercial",
    "title": "PartyRoleStateChangeEvent",
    "description": "PartyRoleStateChangeEvent illustration",
    "priority": "5",
    "timeOccurred": "2022-11-24T15:02:27.428Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "4191-a495-7e5694322a53",
    "eventTime": "2022-11-24T15:02:28.232Z",
    "eventType": "PartyRoleStateChangeEvent",
    "event": {
        "partyRole": {
            "@type": "PartyRole",
            "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
            "id": "7321-7c0d",
            "name": "Mobile catalog administrator",
            "role": "CatalogAdmin",
            "engagedParty": {
                "@type": "PartyRef",
                "href": "https://host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
                "id": "3b1c-74f1",
                "name": "Jean Pontus",
                "@referredType": "Individual"
            },
            "partyRoleSpecification": {
                "@type": "PartyRoleSpecificationRef",
                "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRoleSpecification/5713",
                "id": "5713",
                "name": "Catalog administrator"
            },
            "characteristic": [
                {
                    "@type": "StringCharacteristic",
                    "name": "CatalogDomain",
                    "valueType": "string",
                    "value": "mobile catalog"
                }
            ],
        }
    }
}
```

```
        "contactMedium": [
            {
                "@type": "PhoneContactMedium",
                "id": "1",
                "phoneNumber": "+3311223344"
            }
        ],
        "relatedParty": [
            {
                "@type": "RelatedPartyOrPartyRole",
                "role": "manager",
                "partyOrPartyRole": [
                    {
                        "@type": "PartyRef",
                        "href": "https:/host:port/tmf-api/partyManagement/v4/individual/1a0b-961f",
                        "id": "1a0b-961f",
                        "name": "Gustave Flaubert",
                        "@referredType": "Individual"
                    }
                ]
            },
            {
                "status": "validated",
                "validFor": {
                    "startDateTime": "2022-06-24T00:00:00.000Z",
                    "endDateTime": "2024-06-24T00:00:00.000Z"
                }
            }
        ]
    }
}
```

Party Role Create Event

Message example for PartyRoleCreateEvent event

```
Content-Type: application/json

{
    "@type": "PartyRoleCreateEvent",
    "@baseType": "Event",
    "correlationId": "1ccd2737-dde9",
    "domain": "Commercial",
    "title": "PartyRoleCreateEvent",
    "description": "PartyRoleCreateEvent illustration",
    "priority": "2",
    "timeOccurred": "2022-11-24T15:02:24.942Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@REFERREDTYPE": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@REFERREDTYPE": "LogicalResource"
    },
    "eventId": "463a-a791-3572340b22c1",
    "eventTime": "2022-11-24T15:02:28.204Z"
}
```

```
"eventType": "PartyRoleCreateEvent",
"event": {
    "partyRole": {
        "@type": "PartyRole",
        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRole/7321-7c0d",
        "id": "7321-7c0d",
        "name": "Mobile catalog administrator",
        "role": "CatalogAdmin",
        "engagedParty": {
            "@type": "PartyRef",
            "href": "https:/host:port/tmf-
api/partyManagement/v2/individual/3b1c-74f1",
            "id": "3b1c-74f1",
            "name": "Jean Pontus",
            "@referredType": "Individual"
        },
        "partyRoleSpecification": {
            "@type": "PartyRoleSpecificationRef",
            "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
            "id": "5713",
            "name": "Catalog administrator"
        },
        "characteristic": [
            {
                "@type": "StringCharacteristic",
                "name": "CatalogDomain",
                "valueType": "string",
                "value": "mobile catalog"
            }
        ],
        "contactMedium": [
            {
                "@type": "PhoneContactMedium",
                "id": "1",
                "phoneNumber": "+3311223344"
            }
        ],
        "relatedParty": [
            {
                "@type": "RelatedPartyOrPartyRole",
                "role": "manager",
                "partyOrPartyRole": {
                    "@type": "PartyRef",
                    "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                    "id": "1a0b-961f",
                    "name": "Gustave Flaubert",
                    "@referredType": "Individual"
                }
            }
        ],
        "status": "validationInProgress",
        "validFor": {
            "startDateTime": "2022-06-24T00:00:00.000Z",
            "endDateTime": "2024-06-24T00:00:00.000Z"
        }
    }
}
```

Party Role Delete Event

Message example for PartyRoleDeleteEvent event

```
Content-Type: application/json

{
    "@type": "PartyRoleDeleteEvent",
    "@baseType": "Event",
    "correlationId": "bce0fdb2-384d",
    "domain": "Commercial",
    "title": "PartyRoleDeleteEvent",
    "description": "PartyRoleDeleteEvent illustration",
    "priority": "1",
    "timeOccurred": "2022-11-24T15:02:22.999Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "42b6-85c2-a778ed319692",
    "eventTime": "2022-11-24T15:02:28.244Z",
    "eventType": "PartyRoleDeleteEvent",
    "event": {
        "partyRole": {
            "@type": "PartyRole",
            "id": "7321-7c0d"
        }
    }
}
```

Party Role Attribute Value Change Event

Message example for PartyRoleAttributeValueChangeEvent event

```
Content-Type: application/json

{
    "@type": "PartyRoleAttributeValueChangeEvent",
    "@baseType": "Event",
    "correlationId": "5e106a05-25e4",
    "domain": "Commercial",
    "title": "PartyRoleAttributeValueChangeEvent",
    "description": "PartyRoleAttributeValueChangeEvent illustration",
    "priority": "3",
    "timeOccurred": "2022-11-24T15:02:22.124Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    }
}
```

```

    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "4c52-bf1d-ea5ac506c5b3",
    "eventTime": "2022-11-24T15:02:28.219Z",
    "eventType": "PartyRoleAttributeValueChangeEvent",
    "event": {
        "partyRole": {
            "@type": "PartyRole",
            "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
            "id": "7321-7c0d",
            "name": "Mobile catalog main administrator"
        }
    }
}
}

```

Party Role Specification Delete Event

Message example for PartyRoleSpecificationDeleteEvent event

```

Content-Type: application/json

{
    "@type": "PartyRoleSpecificationDeleteEvent",
    "@baseType": "Event",
    "correlationId": "bce0fdb2-0964",
    "domain": "Commercial",
    "title": "PartyRoleSpecificationDeleteEvent",
    "description": "PartyRoleSpecificationDeleteEvent illustration",
    "priority": "1",
    "timeOccurred": "2022-11-24T15:02:22.999Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "42b6-85c2-a778ed3lnfieu",
    "eventTime": "2022-11-24T15:02:28.244Z",
    "eventType": "PartyRoleSpecificationDeleteEvent",
    "event": {
        "partyRoleSpecification": {
            "@type": "PartyRoleSpecification",
            "id": "5713"
        }
    }
}

```

Party Role Specification State Change Event

Message example for PartyRoleSpecificationStateChangeEvent event

```
Content-Type: application/json

{
    "@type": "PartyRoleSpecificationStateChangeEvent",
    "@baseType": "Event",
    "correlationId": "01424706-shcy",
    "domain": "Commercial",
    "title": "PartyRoleSpecificationStateChangeEvent",
    "description": "PartyRoleSpecificationStateChangeEvent illustration",
    "priority": "5",
    "timeOccurred": "2022-11-24T15:02:27.428Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "4191-a495-7e56943276452",
    "eventTime": "2022-11-24T15:02:28.232Z",
    "eventType": "PartyRoleSpecificationStateChangeEvent",
    "event": {
        "partyRoleSpecification": {
            "@type": "PartyRoleSpecification",
            "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
            "id": "5713",
            "name": "Catalog administration",
            "partyRoleSpecificationCharacteristic": [
                {
                    "@type": "CharacteristicSpecification",
                    "id": "1",
                    "name": "CatalogDomain",
                    "valueType": "string",
                    "characteristicValueSpecification": [
                        {
                            "@type": "StringCharacteristicValueSpecification",
                            "value": "mobile catalog",
                            "valueType": "string"
                        },
                        {
                            "@type": "StringCharacteristicValueSpecification",
                            "value": "internet/TV catalog",
                            "valueType": "string"
                        },
                        {
                            "@type": "StringCharacteristicValueSpecification",
                            "value": "B2B catalog",
                            "valueType": "string"
                        }
                    ]
                }
            ]
        }
    }
}
```

```

        ],
        "relatedParty": [
            {
                "@type": "RelatedPartyOrPartyRole",
                "role": "Rights&access manager",
                "partyOrPartyRole":
                    {
                        "@type": "PartyRef",
                        "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
                        "id": "62ac-01fb",
                        "name": "John Doe",
                        "@referredType": "Individual"
                    }
            }
        ],
        "permissionSpecificationSet": [
            {
                "@type": "PermissionSpecificationSetRef",
                "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
                "id": "2473-dc10"
            },
            {
                "@type": "PermissionSpecificationSetRef",
                "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
                "id": "920e-01df"
            }
        ],
        "lifecycleStatus": "validated",
        "validFor": {
            "startDateTime": "2022-06-01T00:00:00.000Z"
        }
    }
}
}

```

Party Role Specification Attribute Value Change Event

Message example for PartyRoleSpecificationAttributeValueChangeEvent event

```

Content-Type: application/json

{
    "@type": "PartyRoleSpecificationAttributeValueChangeEvent",
    "@baseType": "Event",
    "correlationId": "5e106a05-38fj",
    "domain": "Commercial",
    "title": "PartyRoleSpecificationAttributeValueChangeEvent",
    "description": "PartyRoleSpecificationAttributeValueChangeEvent illustration",
    "priority": "3",
    "timeOccurred": "2022-11-24T15:02:22.124Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {

```

```

    "@type": "ReportingResource",
    "id": "999",
    "name": "APP-28",
    "@referredType": "LogicalResource"
},
"eventId": "4c52-bf1d-ea5ac506dn78",
"eventTime": "2022-11-24T15:02:28.219Z",
"eventType": "PartyRoleSpecificationAttributeValueChangeEvent",
"event": {
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecification",
        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Main catalog administration"
    }
}
}

```

Party Role Specification Create Event

Message example for PartyRoleSpecificationCreateEvent event

Content-Type: application/json

```

{
    "@type": "PartyRoleSpecificationCreateEvent",
    "@baseType": "Event",
    "correlationId": "1cccd2737-msk9",
    "domain": "Commercial",
    "title": "PartyRoleSpecificationCreateEvent",
    "description": "PartyRoleSpecificationCreateEvent illustration",
    "priority": "2",
    "timeOccurred": "2022-11-24T15:02:24.942Z",
    "source": {
        "@type": "ReportingResource",
        "id": "21",
        "name": "APP-422",
        "@referredType": "LogicalResource"
    },
    "reportingSystem": {
        "@type": "ReportingResource",
        "id": "999",
        "name": "APP-28",
        "@referredType": "LogicalResource"
    },
    "eventId": "463a-a791-3572340bjcu8",
    "eventTime": "2022-11-24T15:02:28.204Z",
    "eventType": "PartyRoleSpecificationCreateEvent",
    "event": {
        "partyRoleSpecification": {
            "@type": "PartyRoleSpecification",
            "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
            "id": "5713",
            "name": "Catalog administration",
            "partyRoleSpecificationCharacteristic": [
                {
                    "@type": "CharacteristicSpecification",
                    "id": "1",
                    "name": "Catalog administration"
                }
            ]
        }
    }
}

```

```
"name": "CatalogDomain",
"valueType": "string",
"characteristicValueSpecification": [
    {
        "@type": "StringCharacteristicValueSpecification",
        "value": "mobile catalog",
        "valueType": "string"
    },
    {
        "@type": "StringCharacteristicValueSpecification",
        "value": "internet/TV catalog",
        "valueType": "string"
    },
    {
        "@type": "StringCharacteristicValueSpecification",
        "value": "B2B catalog",
        "valueType": "string"
    }
],
"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "Rights&access manager",
        "partyOrPartyRole": [
            {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
                "id": "62ac-01fb",
                "name": "John Doe",
                "@referredType": "Individual"
            }
        ]
    },
    "permissionSpecificationSet": [
        {
            "@type": "PermissionSpecificationSetRef",
            "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
            "id": "2473-dc10"
        },
        {
            "@type": "PermissionSpecificationSetRef",
            "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
            "id": "920e-01df"
        }
    ],
    "lifecycleStatus": "validationInProgress",
    "validFor": {
        "startDateTime": "2022-06-01T00:00:00.000Z"
    }
}
]
```

API OPERATIONS

Remember the following Uniform Contract:

Operation on Entities	Uniform API Operation	Description
Query Entities	GET Resource	GET must be used to retrieve a representation of a resource.
Create Entity	POST Resource	POST must be used to create a new resource
Partial Update of an Entity	PATCH Resource	PATCH must be used to partially update a resource
Remove an Entity	DELETE Resource	DELETE must be used to remove a resource
Execute an Action on an Entity	POST on TASK Resource	POST must be used to execute Task Resources
Other Request Methods	POST on TASK Resource	GET and POST must not be used to tunnel other request methods.

Filtering and attribute selection rules are described in the TMF REST Design Guidelines.

Notifications are also described in a subsequent section.

Operations on PartyRole

Retrieves a PartyRole by ID

`GET /partyRole/{id}?fields=...`

Description

This operation retrieves a PartyRole entity. Attribute selection is enabled for all first level attributes. Filtering may be available depending on the compliance level supported by an implementation.

Usage samples

Here's an example of a request for retrieving a PartyRole resource

Request

```
GET /partyRole/7321-7c0d
Content-Type: application/json
```

Response

```
200
```

```
{
    "@type": "PartyRole",
    "href": "https:/host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    },
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecificationRef",
        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Catalog administrator"
    },
    "characteristic": [
        {
            "@type": "StringCharacteristic",
            "name": "CatalogDomain",
            "valueType": "string",
            "value": "mobile catalog"
        }
    ],
    "contactMedium": [
        {
            "@type": "PhoneContactMedium",
            "id": "1",
            "phoneNumber": "+3311223344"
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "manager",
            "partyOrPartyRole": {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        }
    ],
    "status": "validationInProgress",
    "validFor": {
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    }
}
```

List or find PartyRole objects

GET /partyRole?fields=...

Description

This operation list PartyRole entities. Attribute selection is enabled for all first level attributes. Filtering may be available depending on the compliance level supported by an implementation.

Usage samples

Here's an example of a request for retrieving PartyRole resources.

Request

```
GET /partyRole
Content-Type: application/json
```

Response

```
200
[
  {
    "@type": "PartyRole",
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
      "@type": "PartyRef",
      "href": "https://host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
      "id": "3b1c-74f1",
      "name": "Jean Pontus",
      "@referredType": "Individual"
    },
    "partyRoleSpecification": {
      "@type": "PartyRoleSpecificationRef",
      "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRoleSpecification/5713",
      "id": "5713",
      "name": "Catalog administrator"
    },
    "characteristic": [
      {
        "@type": "StringCharacteristic",
        "name": "CatalogDomain",
        "valueType": "string",
        "value": "mobile catalog"
      }
    ],
    "contactMedium": [
      {
        "@type": "PhoneContactMedium",
        "id": "1",
        "phoneNumber": "+3311223344"
      }
    ],
  }
]
```

```

"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "manager",
        "partyOrPartyRole": [
            {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        ]
    },
    "status": "validationInProgress",
    "validFor": {
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    }
]
]

```

Here's an example of a request for retrieving PartyRole resources with fields selection

Request

```

GET
/partyRole?engagedParty.name=Jean%20Pontus&fields=@type,id,name,role,engagedParty
Content-Type: application/json

```

Response

```

200
[
    {
        "@type": "PartyRole",
        "id": "7321-7c0d",
        "name": "Mobile catalog administrator",
        "role": "CatalogAdmin",
        "engagedParty": {
            "@type": "PartyRef",
            "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-
74f1",
            "id": "3b1c-74f1",
            "name": "Jean Pontus",
            "@referredType": "Individual"
        }
    },
    {
        "@type": "PartyRole",
        "id": "567c-df01",
        "name": "Telco operator employee",
        "role": "Employee",
        "engagedParty": {
            "@type": "PartyRef",
            "href": "https:/host:port/tmf-api/partyManagement/v2/individual/567c-df01",
            "id": "567c-df01",
            "name": "Telco operator employee"
        }
    }
]

```

```

        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-
74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    }
},
{
    "@type": "PartyRole",
    "id": "6d0a-aac7",
    "name": "Catalog administration tool user",
    "role": "CatalogToolingUser",
    "engagedParty": [
        {
            "@type": "PartyRef",
            "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-
74f1",
            "id": "3b1c-74f1",
            "name": "Jean Pontus",
            "@referredType": "Individual"
        }
    ]
}
]

```

Creates a PartyRole

POST /partyRole?fields=...

Description

This operation creates a PartyRole entity.

Mandatory Attributes

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

Usage samples

Here's an example of a request for creating a PartyRole resource.

Request

```

POST /partyRole
Content-Type: application/json

{
    "@type": "PartyRole",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",

```

```

"engagedParty": {
    "@type": "PartyRef",
    "href": "https://host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
    "id": "3b1c-74f1",
    "name": "Jean Pontus",
    "@referredType": "Individual"
},
"partyRoleSpecification": {
    "@type": "PartyRoleSpecificationRef",
    "href": "https://host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administrator"
},
"characteristic": [
    {
        "@type": "StringCharacteristic",
        "name": "CatalogDomain",
        "valueType": "string",
        "value": "mobile catalog"
    }
],
"contactMedium": [
    {
        "@type": "PhoneContactMedium",
        "id": "1",
        "phoneNumber": "+3311223344"
    }
],
"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "manager",
        "partyOrPartyRole": [
            {
                "@type": "PartyRef",
                "href": "https://host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        ]
    },
    "status": "validationInProgress",
    "validFor": [
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    ]
}
}

```

Response

```

201
{
    "@type": "PartyRole",
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
}

```

```

"role": "CatalogAdmin",
"engagedParty": {
    "@type": "PartyRef",
    "href": "https://host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
    "id": "3b1c-74f1",
    "name": "Jean Pontus",
    "@referredType": "Individual"
},
"partyRoleSpecification": {
    "@type": "PartyRoleSpecificationRef",
    "href": "https://host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administrator"
},
"characteristic": [
    {
        "@type": "StringCharacteristic",
        "name": "CatalogDomain",
        "valueType": "string",
        "value": "mobile catalog"
    }
],
"contactMedium": [
    {
        "@type": "PhoneContactMedium",
        "id": "1",
        "phoneNumber": "+3311223344"
    }
],
"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "manager",
        "partyOrPartyRole": {
            "@type": "PartyRef",
            "href": "https://host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
            "id": "1a0b-961f",
            "name": "Gustave Flaubert",
            "@referredType": "Individual"
        }
    }
],
"status": "validationInProgress",
"validFor": {
    "startDateTime": "2022-06-24T00:00:00.000Z",
    "endDateTime": "2024-06-24T00:00:00.000Z"
}
}

```

Updates partially a PartyRole

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

Description

This operation allows partial updates of a PartyRole entity. Support of json/merge (<https://tools.ietf.org/html/rfc7386>) is mandatory, support of json/patch (<http://tools.ietf.org/>

[html/rfc5789](#)) is optional. Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

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

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

Usage samples

Here's an example of a request for updating a PartyRole resource - set status to validated. This example illustrates patch using application/json.

Request

```
PATCH /partyRole/7321-7c0d
Content-Type: application/json

{
```

```
    "@type": "PartyRole",
    "status": "validated"
}
```

Response

```
200

{
    "@type": "PartyRole",
    "href": "https:/host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    },
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecificationRef",
        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Catalog administrator"
    },
    "characteristic": [
        {
            "@type": "StringCharacteristic",
            "name": "CatalogDomain",
            "valueType": "string",
            "value": "mobile catalog"
        }
    ],
    "contactMedium": [
        {
            "@type": "PhoneContactMedium",
            "id": "1",
            "phoneNumber": "+3311223344"
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "manager",
            "partyOrPartyRole": {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        }
    ],
    "status": "validated",
    "validFor": {
```

```
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    }
}
```

Here's an example of a request for updating a PartyRole resource - set status to validated. This example illustrates patch using application/merge-patch+json.

Request

```
PATCH /partyRole/7321-7c0d
Content-Type: application/merge-patch+json

{
    "@type": "PartyRole",
    "status": "validated"
}
```

Response

```
200

{
    "@type": "PartyRole",
    "href": "https:/host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    },
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecificationRef",
        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Catalog administrator"
    },
    "characteristic": [
        {
            "@type": "StringCharacteristic",
            "name": "CatalogDomain",
            "valueType": "string",
            "value": "mobile catalog"
        }
    ],
    "contactMedium": [
        {
            "@type": "PhoneContactMedium",
            "id": "1",
            "phoneNumber": "+3311223344"
        }
    ],
}
```

```

"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "manager",
        "partyOrPartyRole": [
            {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        ]
    },
    "status": "validated",
    "validFor": {
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    }
}
]

```

Here's an example of a request for updating a PartyRole resource - set status to validated. This example illustrates patch using application/json-patch+json.

Request

```

PATCH /partyRole/7321-7c0d
Content-Type: application/json-patch+json

[
    {
        "op": "replace",
        "path": "/status",
        "value": "validated"
    }
]

```

Response

```

200

{
    "@type": "PartyRole",
    "href": "https:/host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    },
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecificationRef",
    }
}

```

```

        "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Catalog administrator"
    },
    "characteristic": [
        {
            "@type": "StringCharacteristic",
            "name": "CatalogDomain",
            "valueType": "string",
            "value": "mobile catalog"
        }
    ],
    "contactMedium": [
        {
            "@type": "PhoneContactMedium",
            "id": "1",
            "phoneNumber": "+3311223344"
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "manager",
            "partyOrPartyRole": [
                {
                    "@type": "PartyRef",
                    "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                    "id": "1a0b-961f",
                    "name": "Gustave Flaubert",
                    "@referredType": "Individual"
                }
            ]
        },
        {
            "status": "validated",
            "validFor": [
                "startDateTime": "2022-06-24T00:00:00.000Z",
                "endDateTime": "2024-06-24T00:00:00.000Z"
            ]
        }
    ]
}

```

Here's an example of a request for updating a PartyRole resource - change phone number. This example illustrates patch using application/json-patch-query+json.

Request

```

PATCH /partyRole/7321-7c0d
Content-Type: application/json-patch-query+json

[
    {
        "op": "replace",
        "path": "/contactMedium?id=1",
        "value": {
            "@type": "PhoneContactMedium",
            "phoneNumber": "+3312345678"
        }
    }
]

```

]

Response

```
200

{
    "@type": "PartyRole",
    "href": "https://host:port/tmf-api/partyRoleManagement/v4/partyRole/7321-7c0d",
    "id": "7321-7c0d",
    "name": "Mobile catalog administrator",
    "role": "CatalogAdmin",
    "engagedParty": {
        "@type": "PartyRef",
        "href": "https://host:port/tmf-api/partyManagement/v2/individual/3b1c-74f1",
        "id": "3b1c-74f1",
        "name": "Jean Pontus",
        "@referredType": "Individual"
    },
    "partyRoleSpecification": {
        "@type": "PartyRoleSpecificationRef",
        "href": "https://host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
        "id": "5713",
        "name": "Catalog administrator"
    },
    "characteristic": [
        {
            "@type": "StringCharacteristic",
            "name": "CatalogDomain",
            "valueType": "string",
            "value": "mobile catalog"
        }
    ],
    "contactMedium": [
        {
            "@type": "PhoneContactMedium",
            "id": "1",
            "phoneNumber": "+3312345678"
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "manager",
            "partyOrPartyRole": {
                "@type": "PartyRef",
                "href": "https://host:port/tmf-
api/partyManagement/v4/individual/1a0b-961f",
                "id": "1a0b-961f",
                "name": "Gustave Flaubert",
                "@referredType": "Individual"
            }
        }
    ],
    "status": "validationInProgress",
    "validFor": {
        "startDateTime": "2022-06-24T00:00:00.000Z",
        "endDateTime": "2024-06-24T00:00:00.000Z"
    }
}
```

```
    }  
}
```

Deletes a PartyRole

DELETE /partyRole/{id}

Description

This operation deletes a PartyRole entity.

Usage samples

Here's an example of a request for delete a specific partyRole.

Request

```
DELETE /partyRole/7321-7c0d  
Content-Type: application/json
```

Response

```
204
```

Operations on PartyRoleSpecification

Retrieves a PartyRoleSpecification by ID

GET /partyRoleSpecification/{id}?fields=...

Description

This operation retrieves a PartyRoleSpecification entity. Attribute selection is enabled for all first level attributes. Filtering may be available depending on the compliance level supported by an implementation.

Usage samples

Here's an example of a request for retrieving a PartyRoleSpecification resource

Request

```
GET /partyRoleSpecification/5713  
Content-Type: application/json
```

Response

```
200
```

```
{  
    "@type": "PartyRoleSpecification",  
    "href": "https:/host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/5713",  
    "id": "5713",  
    "name": "Catalog administration",  
    "specCharacteristic": [  
        {  
            "@type": "CharacteristicSpecification",  
            "name": "CatalogDomain",  
            "valueType": "string",  
            "characteristicValueSpecification": [  
                {  
                    "@type": "StringCharacteristicValueSpecification",  
                    "value": "mobile catalog",  
                    "valueType": "string"  
                },  
                {  
                    "@type": "StringCharacteristicValueSpecification",  
                    "value": "internet/TV catalog",  
                    "valueType": "string"  
                },  
                {  
                    "@type": "StringCharacteristicValueSpecification",  
                    "value": "B2B catalog",  
                    "valueType": "string"  
                }  
            ]  
        }  
    ],  
    "relatedParty": [  
        {  
            "@type": "RelatedPartyOrPartyRole",  
            "role": "Rights&access manager",  
            "partyOrPartyRole":  
                {  
                    "@type": "PartyRef",  
                    "href": "https:/host:port/tmf-  
api/partyManagement/v4/individual/62ac-01fb",  
                    "id": "62ac-01fb",  
                    "name": "John Doe",  
                    "@referredType": "Individual"  
                }  
        }  
    ],  
    "permissionSpecificationSet": [  
        {  
            "@type": "PermissionSpecificationSetRef",  
            "href": "https:/host:port/tmf-  
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",  
            "id": "2473-dc10"  
        },  
        {  
            "@type": "PermissionSpecificationSetRef",  
            "href": "https:/host:port/tmf-  
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",  
            "id": "920e-01df"  
        }  
    ],  
    "lifecycleStatus": "validationInProgress",  
    "validFor": {  
        "startDateTime": "2022-06-01T00:00:00.000Z"  
    }  
}
```

```
    }  
}
```

List or find PartyRoleSpecification objects

GET /partyRoleSpecification?fields=...

Description

This operation list PartyRoleSpecification entities. Attribute selection is enabled for all first level attributes. Filtering may be available depending on the compliance level supported by an implementation.

Usage samples

Here's an example of a request for retrieving PartyRoleSpecification resources.

Request

```
GET /partyRoleSpecification  
Content-Type: application/json
```

Response

```
200  
[  
  {  
    "@type": "PartyRoleSpecification",  
    "href": "https://host:port/tmf-  
api/partyRoleManagement/v4/partyRoleSpecification/5713",  
    "id": "5713",  
    "name": "Catalog administration",  
    "specCharacteristic": [  
      {  
        "@type": "CharacteristicSpecification",  
        "id": "1",  
        "name": "CatalogDomain",  
        "valueType": "string",  
        "characteristicValueSpecification": [  
          {  
            "@type": "StringCharacteristicValueSpecification",  
            "value": "mobile catalog",  
            "valueType": "string"  
          },  
          {  
            "@type": "StringCharacteristicValueSpecification",  
            "value": "internet/TV catalog",  
            "valueType": "string"  
          },  
          {  
            "@type": "StringCharacteristicValueSpecification",  
            "value": "B2B catalog",  
            "valueType": "string"  
          }  
        ]  
      }  
    ]  
  }  
]
```

```

        ]
    },
],
"relatedParty": [
{
    "@type": "RelatedPartyOrPartyRole",
    "role": "Rights&access manager",
    "partyOrPartyRole": [
        {
            "@type": "PartyRef",
            "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
            "id": "62ac-01fb",
            "name": "John Doe",
            "@REFERREDTYPE": "Individual"
        }
    ],
},
"permissionSpecificationSet": [
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
    "id": "2473-dc10"
},
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
    "id": "920e-01df"
},
],
"lifecycleStatus": "validationInProgress",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
]
]

```

Here's an example of a request for retrieving PartyRoleSpecification resources with fields selection.

Request

```

GET
/partyRoleSpecification?lifecycleStatus=validated&fields=@type,id,name,lifecycleStat
us
Content-Type: application/json

```

Response

```

200
[
{
    "@type": "PartyRoleSpecification",
    "id": "5713",
    "name": "Access Manager"
}
]

```

```

        "name": "Catalog administration",
        "lifecycleStatus": "validated"
    },
    {
        "@type": "PartyRoleSpecification",
        "id": "8016",
        "name": "Human resources member",
        "lifecycleStatus": "validated"
    },
    {
        "@type": "PartyRoleSpecification",
        "id": "6540",
        "name": "Employees vacation validation",
        "lifecycleStatus": "validated"
    }
]

```

Creates a PartyRoleSpecification

POST /partyRoleSpecification?fields=...

Description

This operation creates a PartyRoleSpecification entity.

Mandatory Attributes

Mandatory Attributes	Rule
name	
@type	

Usage samples

Here's an example of a request for creating a PartyRoleSpecification resource.

Request

```

POST /partyRoleSpecification
Content-Type: application/json

{
    "@type": "PartyRoleSpecification",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "id": "1",
            "name": "CatalogDomain",
            "valueType": "string",
            "characteristicValueSpecification": [
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "mobile catalog",
                    "valueType": "string"
                },
            ]
        }
    ]
}

```

```
{
    "@type": "StringCharacteristicValueSpecification",
    "value": "internet/TV catalog",
    "valueType": "string"
},
{
    "@type": "StringCharacteristicValueSpecification",
    "value": "B2B catalog",
    "valueType": "string"
}
]
}
],
"relatedParty": [
{
    "@type": "RelatedPartyOrPartyRole",
    "role": "Rights&access manager",
    "partyOrPartyRole": {
        "@type": "PartyRef",
        "href": "https://host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
        "id": "62ac-01fb",
        "name": "John Doe",
        "@referredType": "Individual"
    }
}
],
"permissionSpecificationSet": [
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https://host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
    "id": "2473-dc10"
},
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https://host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
    "id": "920e-01df"
}
],
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
```

Response

```
201

{
    "@type": "PartyRoleSpecification",
    "href": "https://host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "value": "true"
        }
    ]
}
```

```

    "id": "1",
    "name": "CatalogDomain",
    "valueType": "string",
    "characteristicValueSpecification": [
        {
            "@type": "StringCharacteristicValueSpecification",
            "value": "mobile catalog",
            "valueType": "string"
        },
        {
            "@type": "StringCharacteristicValueSpecification",
            "value": "internet/TV catalog",
            "valueType": "string"
        },
        {
            "@type": "StringCharacteristicValueSpecification",
            "value": "B2B catalog",
            "valueType": "string"
        }
    ]
},
"relatedParty": [
    {
        "@type": "RelatedPartyOrPartyRole",
        "role": "Rights&access manager",
        "partyOrPartyRole": [
            {
                "@type": "PartyRef",
                "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
                "id": "62ac-01fb",
                "name": "John Doe",
                "@referredType": "Individual"
            }
        ]
    }
],
"permissionSpecificationSet": [
    {
        "@type": "PermissionSpecificationSetRef",
        "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
        "id": "2473-dc10"
    },
    {
        "@type": "PermissionSpecificationSetRef",
        "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
        "id": "920e-01df"
    }
],
"lifecycleStatus": "validationInProgress",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
]
}

```

Updates partially a PartyRoleSpecification

PATCH /partyRoleSpecification/{id}?fields=...

Description

This operation allows partial updates of a PartyRoleSpecification entity. Support of json/merge (<https://tools.ietf.org/html/rfc7386>) is mandatory, support of json/patch (<http://tools.ietf.org/html/rfc5789>) is optional. Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

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

Patchable Attributes	Rule
agreementSpecification	
attachment	
constraint	
description	
entitySpecRelationship	
isBundle	
lastUpdate	
lifecycleStatus	
name	
permissionSpecificationSet	
relatedParty	
specCharacteristic	
status	
targetEntitySchema	
validFor	
version	

Usage samples

Here's an example of a request for updating a PartyRoleSpecification resource - set lifecycleStatus to validated. This example illustrates patch using application/json.

Request

```
PATCH /partyRoleSpecification/5713
Content-Type: application/json

{
    "@type": "PartyRoleSpecification",
    "lifecycleStatus": "validated"
}
```

Response

```
200

{
    "@type": "PartyRoleSpecification",
    "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "name": "CatalogDomain",
            "valueType": "string",
            "characteristicValueSpecification": [
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "mobile catalog",
                    "valueType": "string"
                },
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "internet/TV catalog",
                    "valueType": "string"
                },
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "B2B catalog",
                    "valueType": "string"
                }
            ]
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "Rights&access manager",
            "partyOrPartyRole": [
                {
                    "@type": "PartyRef",
                    "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
                    "id": "62ac-01fb",
                    "name": "John Doe",
                    "@referredType": "Individual"
                }
            ]
        }
    ]
}
```

```

"permissionSpecificationSet": [
    {
        "@type": "PermissionSpecificationSetRef",
        "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
        "id": "2473-dc10"
    },
    {
        "@type": "PermissionSpecificationSetRef",
        "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
        "id": "920e-01df"
    }
],
"lifecycleStatus": "validated",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}

```

Here's an example of a request for updating a PartyRoleSpecification resource - set lifecycleStatus to validated. This example illustrates patch using application/merge-patch+json.

Request

```

PATCH /partyRoleSpecification/5713
Content-Type: application/merge-patch+json

{
    "@type": "PartyRoleSpecification",
    "lifecycleStatus": "validated"
}

```

Response

```

200

{
    "@type": "PartyRoleSpecification",
    "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "name": "CatalogDomain",
            "valueType": "string",
            "characteristicValueSpecification": [
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "mobile catalog",
                    "valueType": "string"
                },
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "mobile catalog",
                    "valueType": "string"
                }
            ]
        }
    ]
}

```

```

        "value": "internet/TV catalog",
        "valueType": "string"
    },
    {
        "@type": "StringCharacteristicValueSpecification",
        "value": "B2B catalog",
        "valueType": "string"
    }
]
},
"relatedParty": [
{
    "@type": "RelatedPartyOrPartyRole",
    "role": "Rights&access manager",
    "partyOrPartyRole": [
    {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
        "id": "62ac-01fb",
        "name": "John Doe",
        "@referredType": "Individual"
    }
]
},
"permissionSpecificationSet": [
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
    "id": "2473-dc10"
},
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
    "id": "920e-01df"
}
],
"lifecycleStatus": "validated",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
]
}

```

Here's an example of a request for updating a PartyRoleSpecification resource - set lifecycleStatus to validated. This example illustrates patch using application/json-patch+json.

Request

```

PATCH /partyRoleSpecification/5713
Content-Type: application/json-patch+json

[
{
    "op": "replace",
    "path": "/lifecycleStatus",
    "value": "validated"
}
]

```

]

Response

```
200

{
    "@type": "PartyRoleSpecification",
    "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "name": "CatalogDomain",
            "valueType": "string",
            "characteristicValueSpecification": [
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "mobile catalog",
                    "valueType": "string"
                },
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "internet/TV catalog",
                    "valueType": "string"
                },
                {
                    "@type": "StringCharacteristicValueSpecification",
                    "value": "B2B catalog",
                    "valueType": "string"
                }
            ]
        }
    ],
    "relatedParty": [
        {
            "@type": "RelatedPartyOrPartyRole",
            "role": "Rights&access manager",
            "partyOrPartyRole": [
                {
                    "@type": "PartyRef",
                    "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
                    "id": "62ac-01fb",
                    "name": "John Doe",
                    "@referredType": "Individual"
                }
            ]
        }
    ],
    "permissionSpecificationSet": [
        {
            "@type": "PermissionSpecificationSetRef",
            "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
            "id": "2473-dc10"
        },
        {
            "@type": "PermissionSpecificationSetRef",
            "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10"
        }
    ]
}
```

```

        "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
        "id": "920e-01df"
    }
],
"lifecycleStatus": "validated",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
}

```

Here's an example of a request for updating a PartyRoleSpecification resource - remove some characteristics. This example illustrates patch using application/json-patch-query+json.

Request

```

PATCH /partyRoleSpecification/5713
Content-Type: application/json-patch-query+json

[
{
    "op": "replace",
    "path": "/specCharacteristic?id=1",
    "value": {
        "@type": "CharacteristicSpecification",
        "id": "1",
        "name": "CatalogDomain",
        "valueType": "string",
        "characteristicValueSpecification": [
            {
                "@type": "StringCharacteristicValueSpecification",
                "value": "mobile catalog",
                "valueType": "string"
            }
        ]
    }
}
]

```

Response

```

200

{
    "@type": "PartyRoleSpecification",
    "href": "https:/host:port/tmf-
api/partyRoleManagement/v4/partyRoleSpecification/5713",
    "id": "5713",
    "name": "Catalog administration",
    "specCharacteristic": [
        {
            "@type": "CharacteristicSpecification",
            "name": "CatalogDomain",
            "valueType": "string",
            "characteristicValueSpecification": [
                {
                    "@type": "StringCharacteristicValueSpecification",

```

```

        "value": "mobile catalog",
        "valueType": "string"
    }
]
}
],
"relatedParty": [
{
    "@type": "RelatedPartyOrPartyRole",
    "role": "Rights&access manager",
    "partyOrPartyRole": {
        "@type": "PartyRef",
        "href": "https:/host:port/tmf-
api/partyManagement/v4/individual/62ac-01fb",
        "id": "62ac-01fb",
        "name": "John Doe",
        "@referredType": "Individual"
    }
},
],
"permissionSpecificationSet": [
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/2473-dc10",
    "id": "2473-dc10"
},
{
    "@type": "PermissionSpecificationSetRef",
    "href": "https:/host:port/tmf-
api/userRolePermissionManagement/v4/permissionSpecificationSet/920e-01df",
    "id": "920e-01df"
},
],
"lifecycleStatus": "validationInProgress",
"validFor": {
    "startDateTime": "2022-06-01T00:00:00.000Z"
}
}
]
}

```

Deletes a PartyRoleSpecification

DELETE /partyRoleSpecification/{id}

Description

This operation deletes a PartyRoleSpecification entity.

Usage samples

Here's an example of a request for delete a specific partyRoleSpecification.

Request

```

DELETE /partyRoleSpecification/5713
Content-Type: application/json

```

Response

204

API NOTIFICATIONS

For every single of operation on the entities use the following templates and provide sample REST notification POST calls.

It is assumed that the Pub/Sub uses the Register and UnRegister mechanisms described in the REST Guidelines reproduced below.

Register listener

POST /hub

Description

Sets the communication endpoint address the service instance must use to deliver information about its health state, execution state, failures and metrics. Subsequent POST calls will be rejected by the service if it does not support multiple listeners. In this case DELETE /api/hub/{id} must be called before an endpoint can be created again.

Behavior

Returns HTTP/1.1 status code 204 if the request was successful.

Returns HTTP/1.1 status code 409 if request is not successful.

Usage Samples

Here's an example of a request for registering a listener.

Request

```
POST /api/hub
Accept: application/json
{
  "callback": "http://in.listener.com"
}
```

Response

```
201
Content-Type: application/json
Location: /api/hub/42
{
  "id": "42",
  "callback": "http://in.listener.com",
  "query": ""
}
```

Unregister listener

DELETE /hub/{id}

Description

Clears the communication endpoint address that was set by creating the Hub..

Behavior

Returns HTTP/1.1 status code 204 if the request was successful.

Returns HTTP/1.1 status code 404 if the resource is not found.

Usage Samples

Here's an example of a request for un-registering a listener.

Request

```
DELETE /api/hub/42  
Accept: application/json
```

Response

```
204
```

Publish Event to listener

POST /client/listener

Description

Clears the communication endpoint address that was set by creating the Hub.

Provides to a registered listener the description of the event that was raised. The /client/listener url is the callback url passed when registering the listener.

Behavior

Returns HTTP/1.1 status code 201 if the service is able to set the configuration.

Usage Samples

Here's an example of a notification received by the listener. In this example "EVENT TYPE" should be replaced by one of the notification types supported by this API (see Notification resources Models section) and EVENT BODY refers to the data structure of the given notification type.

Request

```
POST /client/listener

Accept: application/json

{
    "event": {
        EVENT BODY
    },
    "eventType": "EVENT_TYPE"
}
```

Response

```
201
```

For detailed examples on the general TM Forum notification mechanism, see the TMF REST Design Guidelines.

Acknowledgements

Release History

Release Number	Date	Release led by:	Description
Release 1.0	03/01/2017	Pierre Gauthier (TM Forum) Mariano Belaunde (Orange) Jean Luc Tymen (Orange) Veronique Moineau (Orange)	Retrieved from Onboarding specification so that it becomes a standalone API. The document is generated from the latest version of API Data Model.
Release 2.0	06/11/2018	Mariano Belaunde (Orange)	Alignment with Guidelines 3.0
Release 4.0	06/30/2019	Mariano Belaunde (Orange)	Regeneration after schematization
Release 4.1	06/06/2022	Grégoire Laurent (Orange)	Add of the PartyRoleSpecification resource
Release 5.0	25/08/2023	Olivier Arnaud (Orange)	Migration to OAS (Open API Specification 3) and some schemas changed

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