TM Forum Specification

Party Management

TMF632

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Direct inquiries to the TM Forum office:

181 New Road, Suite 304
Parsippany, NJ 07054, USA
Tel No. +1 862 227 1648
TM Forum Web Page: www.tmforum.org

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Introduction

The following document is the specification of the REST API for Party Management. It includes the model definition as well as all available operations. Possible actions are creating, updating and retrieving parties (individuals or organizations), including filtering.

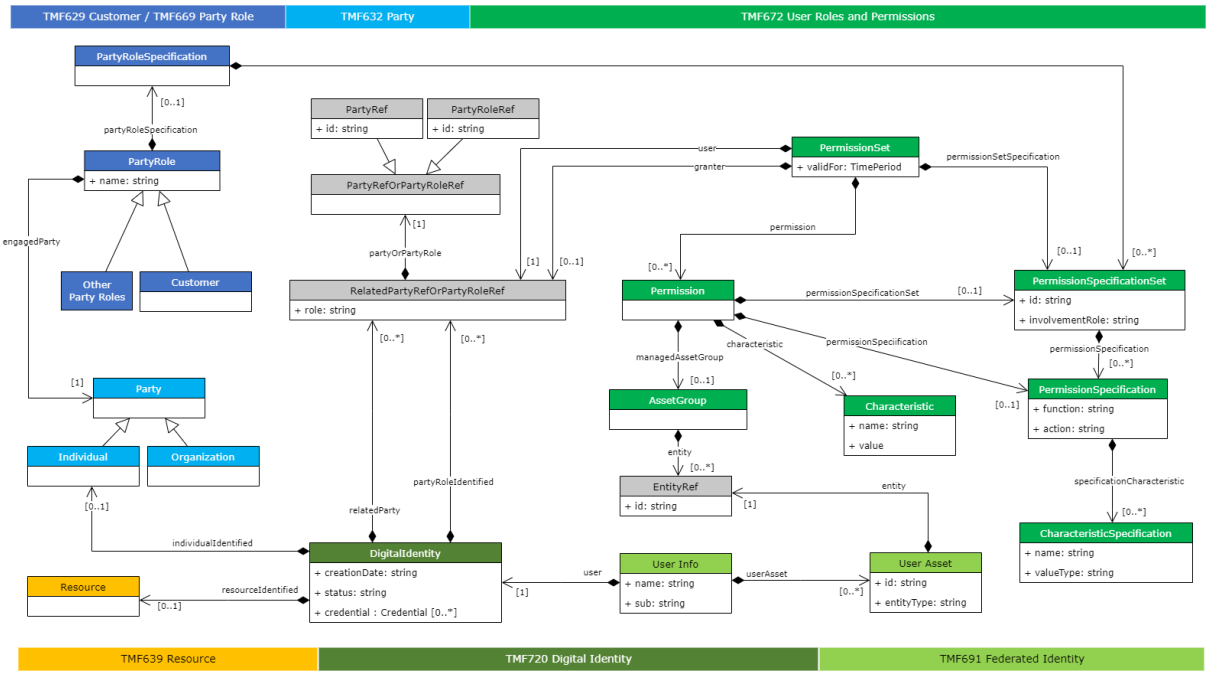
Party is an abstract concept that represents an individual (person) or an organization that has any kind of relation with the enterprise.

Party is created to record an individual or an organization before the assignment of any role. The actual role(s) that the party plays in its relationship with the enterprised are represented by the Party Role API.

More generally, this API plays an important role in the global party domain relating to TMF672 Roles and Permissions API, TMF669 Party Role Management API, TMF629 Customer Management API, TMF720 Digital Identity Management API, TMF691 Federated Identity API and TMF639 Resource Management API, to managing and controlling access to information and resources within an organization or network.

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.

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



The Party API manages the following data resources:

Individual

- Individual represents a single human being (a man, woman or child). The individual can

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be a customer, an employee or any other person that the organization needs to store information about.

Organization

- Organization represents a group of people identified by shared interests or purpose. Examples include business, department and enterprise. Because of the complex nature of many businesses, both organizations and organization units are represented by the same data.

The party API performs the following operations on individuals and organizations:

- Retrieval of an individual or an organization
- List a collection of individuals or organization depending on filter criteria
- Partial update of an individual or an organization
- Creation of an individual or an organization
- Deletion of an individual or an organization
- Notification of events relating to an individual or an organization.

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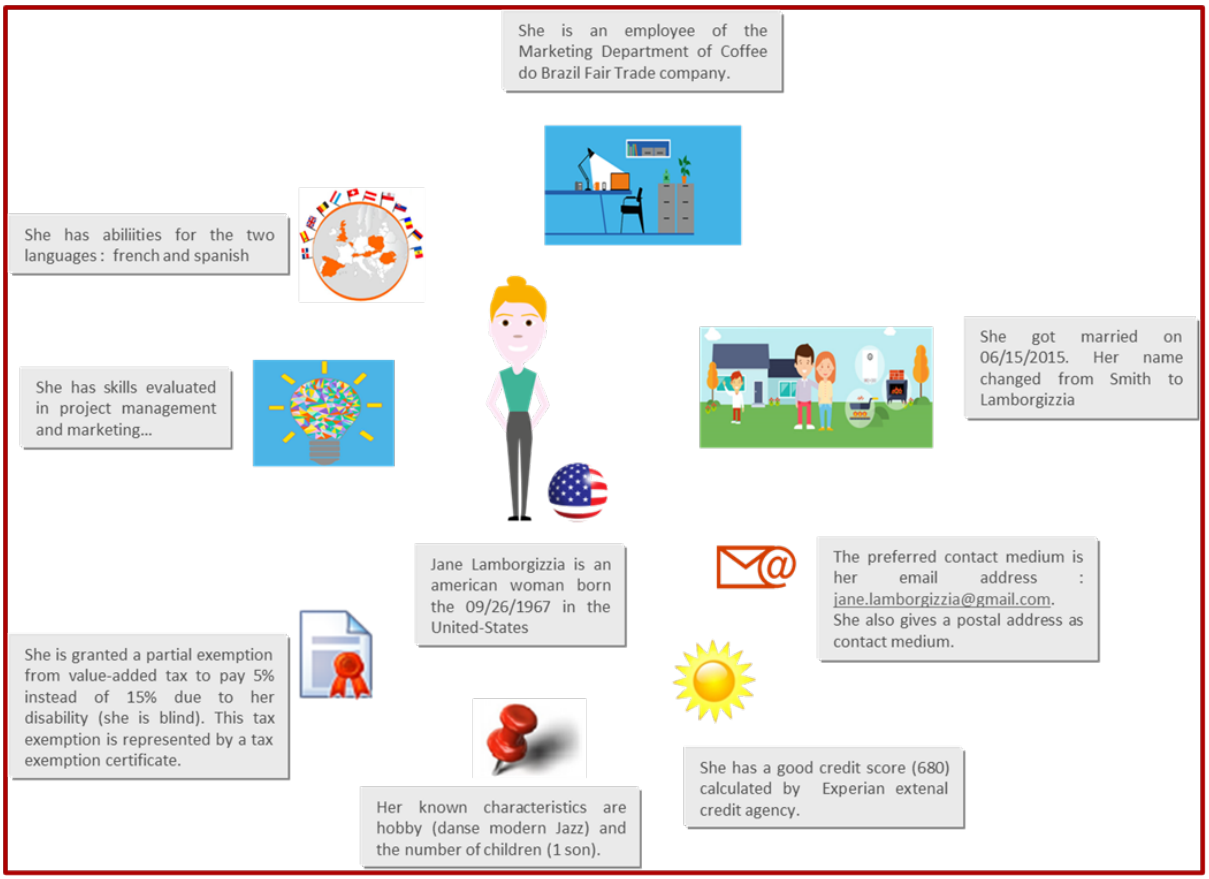
Sample Use Cases

To illustrate JSON representation of resources concerned by this API, we use the two use cases detailed below.

Use case 1 (UC1): An individual employee of an organization



- + *

Use case 2 (UC2): a company (organization) with two departments (organizations)

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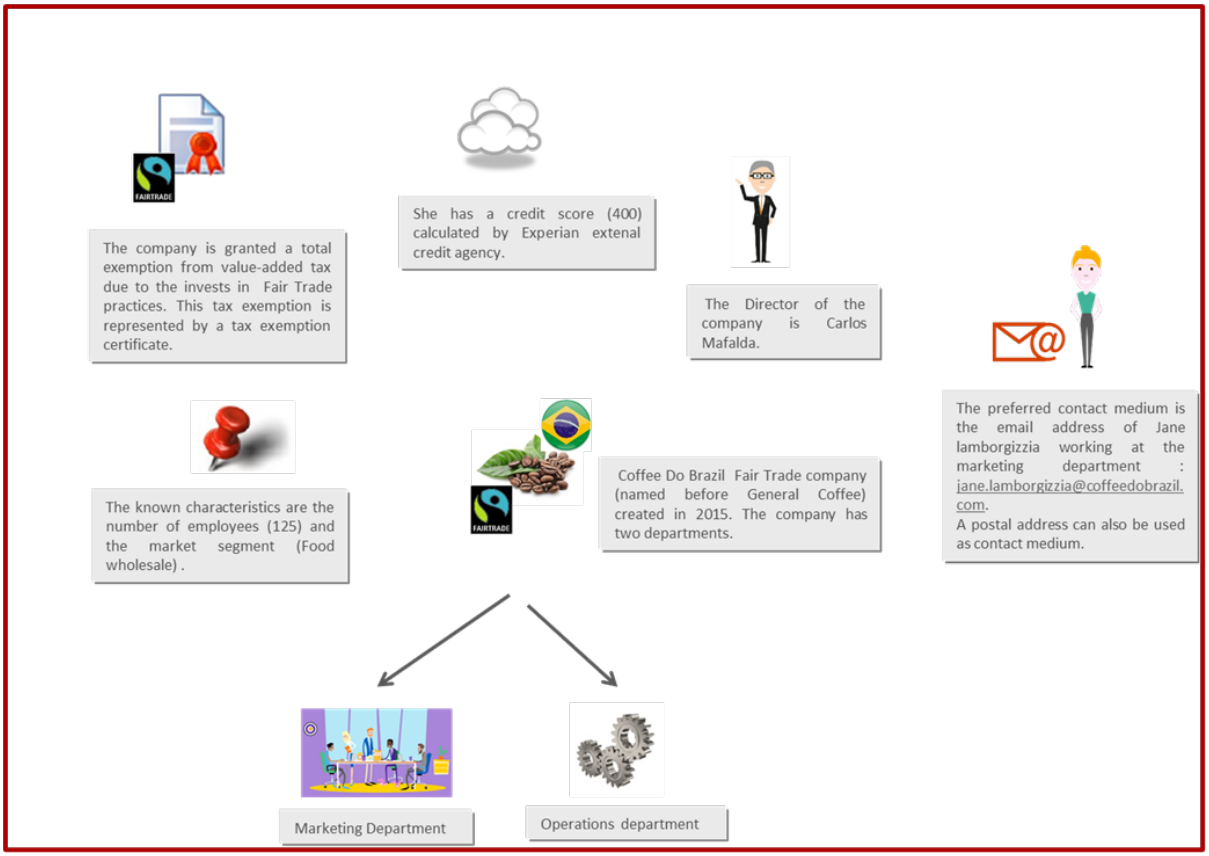

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Support of polymorphism and extension patterns

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 PricingRequest and Quoting inheriting properties from the abstract Quote entity.

Generic support of polymorphism and pattern extensions is described in the TMF API Guidelines v3.0 Part 2 document.

The @type attribute provides a way to represent the actual class type of an entity. For example, within a list of Quote instances some may be instances of PricingRequest where other could be instances of Quoting. 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 a QuoteRef 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 PricingRequestRef or QuotingRef, 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.

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RESOURCE MODEL

Managed Entity and Task Resource Models

Individual resource

Individual represents a single human being (a man, woman or child). The individual can be a customer, an employee or any other person that the organization needs to store information about.

Resource model

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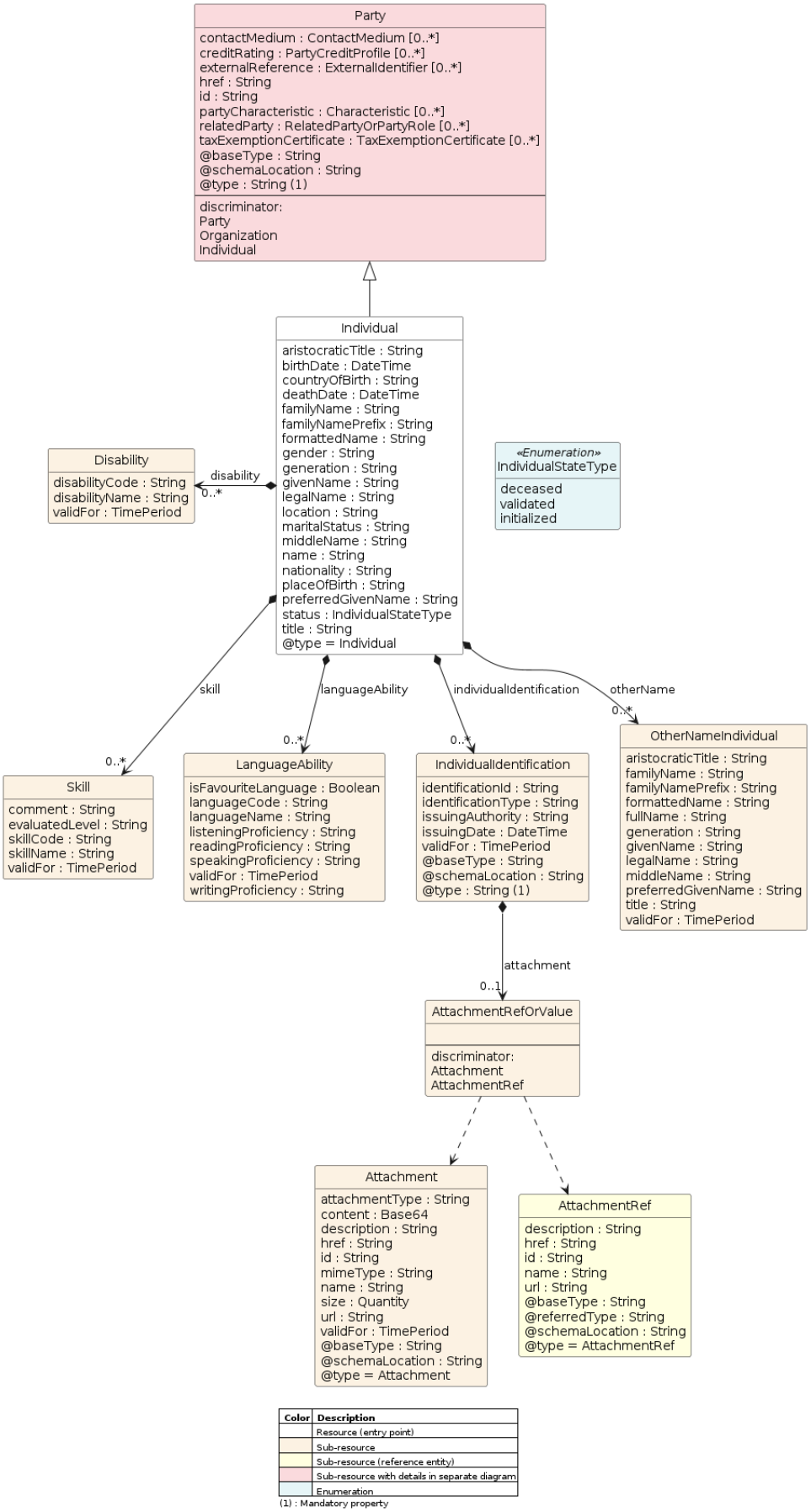

Figure 1 - Individual

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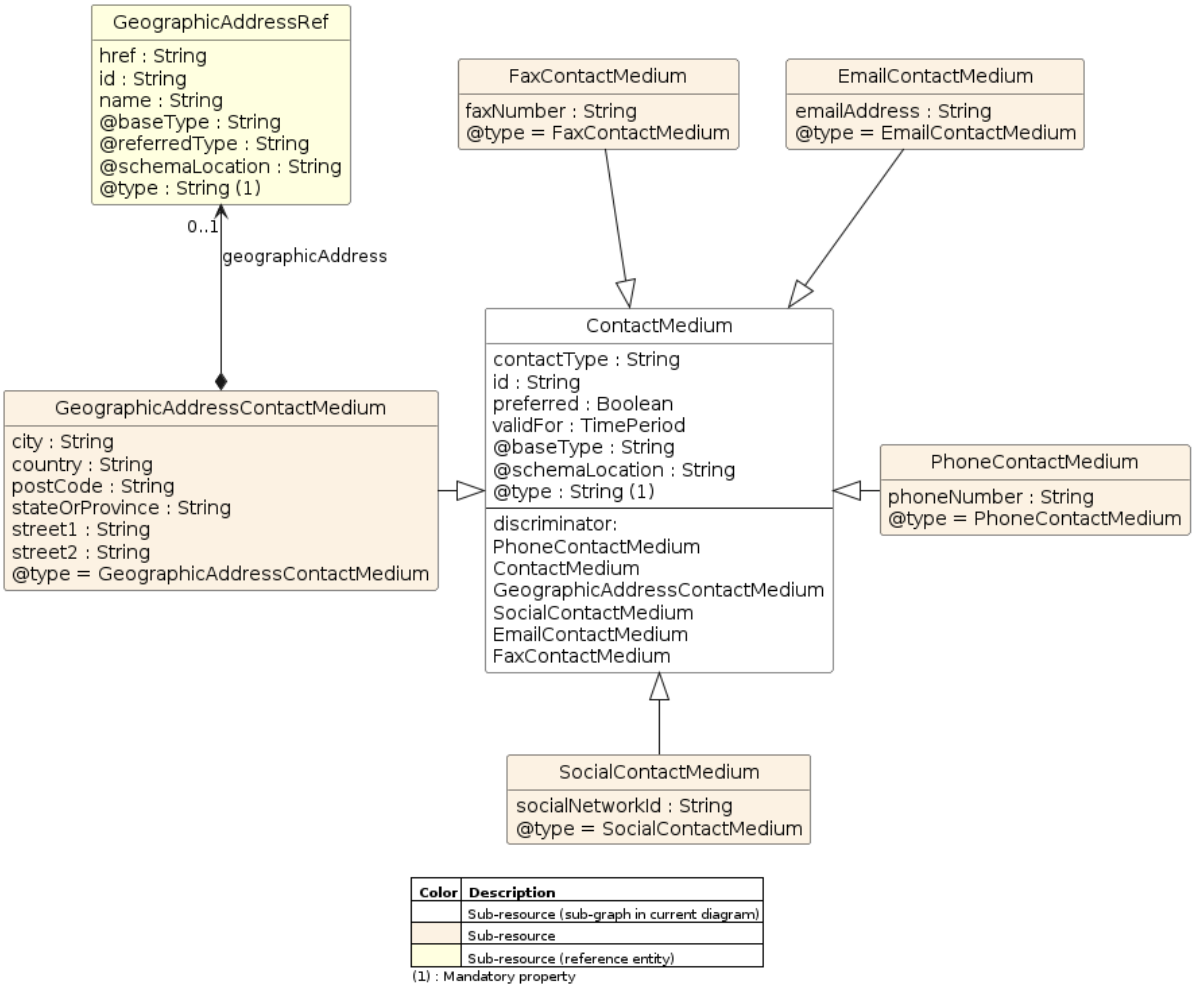

Figure 2 - ContactMedium

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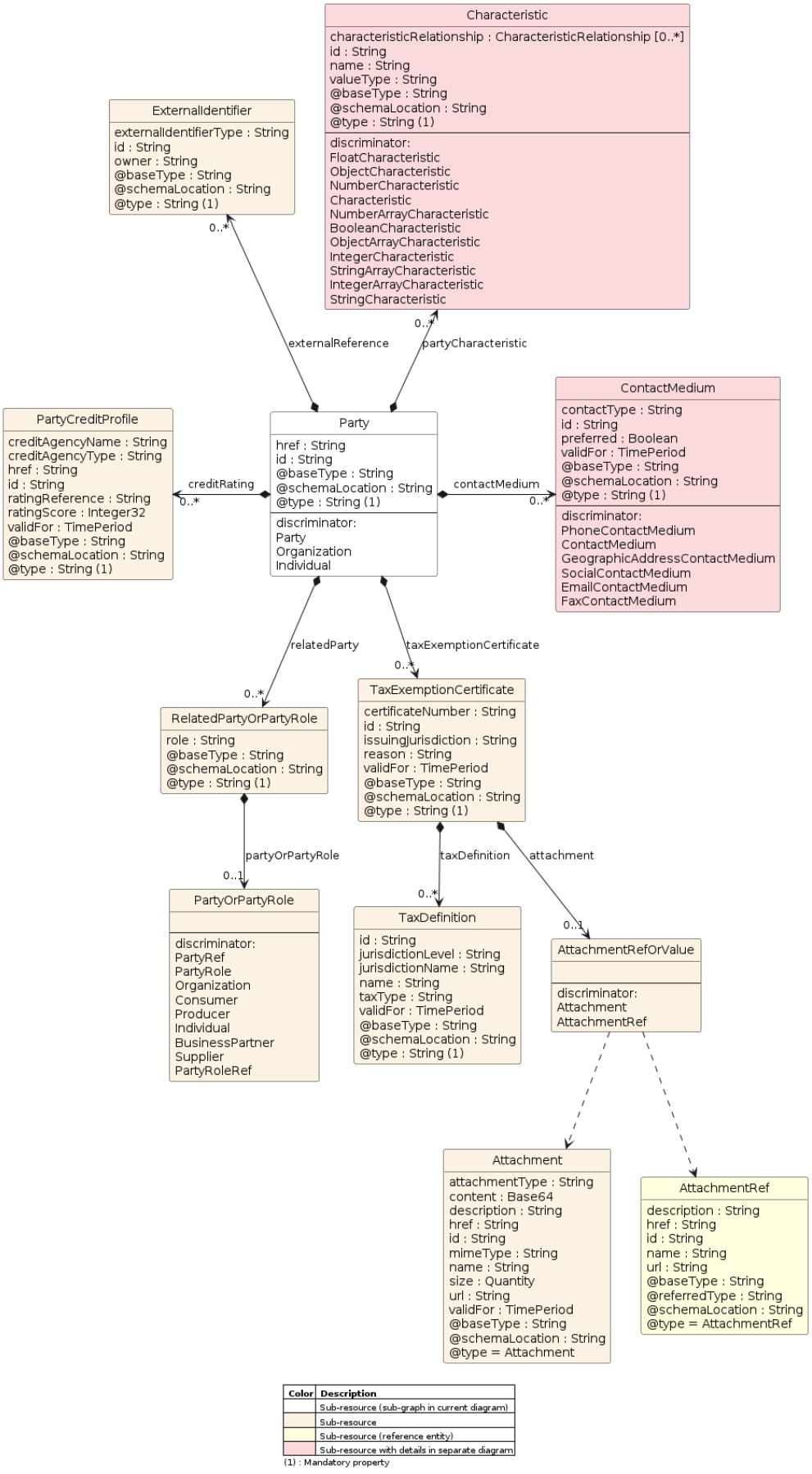

Figure 3 - Party

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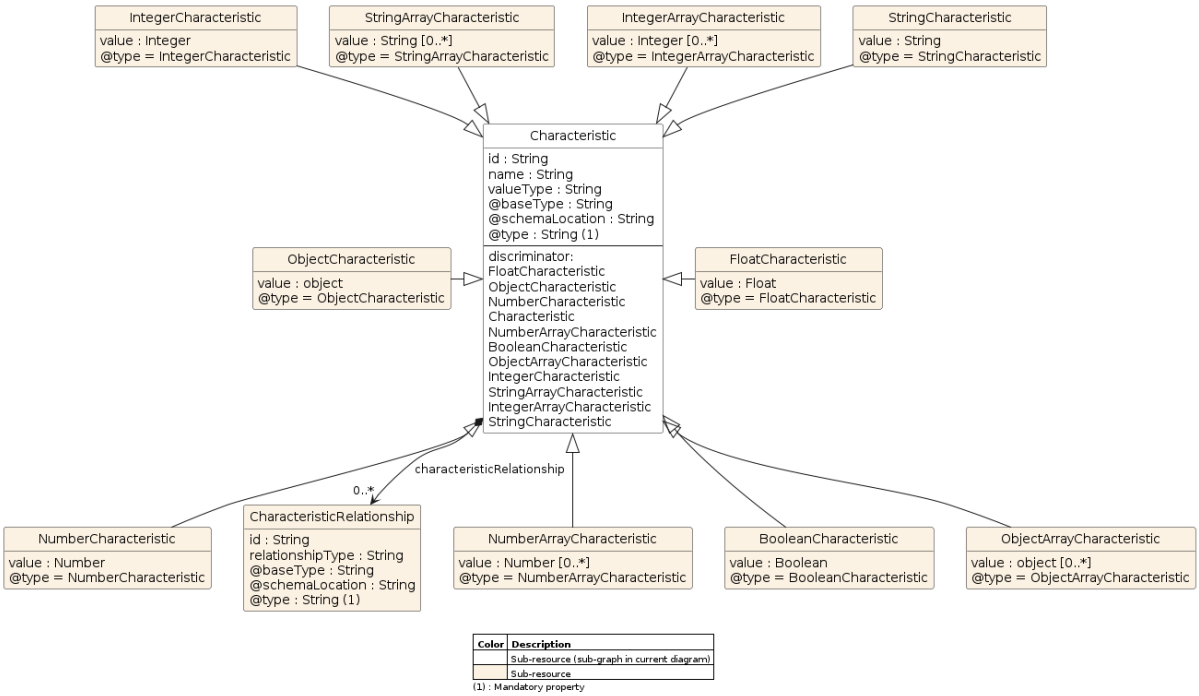

Figure 4 - Characteristic

Field descriptions

Individual fields

aristocraticTitle	A String. E.g. Baron, Graf, Earl.
birthDate	A DateTime. Birth date.
contactMedium	A ContactMedium. List of means for contacting the party, e.g. mobile phone, email address.
countryOfBirth	A String. Country where the individual was born.
creditRating	A PartyCreditProfile. List of credit profiles and scores for the party, typically received from an external credit broker.
deathDate	A DateTime. Date of death.
disability	A Disability. List of disabilities suffered by the individual.
externalReference	An ExternalIdentifier. List of identifiers of the Party in an external system, for example when party information is imported from a commerce system.
familyName	A String. Contains the non-chosen or inherited name. Also known as last name in the Western context.
familyNamePrefix	A String. Family name prefix.
formattedName	A String. A fully formatted name in one string with all of its pieces in their proper place and all of the necessary punctuation. Useful for specific contexts (Chinese, Japanese, Korean).
gender	A String. Gender.
generation	A String. E.g.. Sr, Jr, III (the third).

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givenName	A String. First name of the individual.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
individualIdentification	An IndividualIdentification. List of official identifications issued to the individual, such as passport, driving licence, social security number.
languageAbility	A LanguageAbility. List of national languages known by the individual.
legalName	A String. Legal name or birth name (name one has for official purposes).
location	A String. Temporary current location of the individual (may be used if the individual has approved its sharing).
maritalStatus	A String. Marital status (married, divorced, widow …).
middleName	A String. Middles name or initial.
name	A String. Full name flatten (first, middle, and last names) - this is the name that is expected to be presented in reference data types such as PartyRef, RelatedParty, etc. that refer to Individual.
nationality	A String. Nationality.
otherName	An OtherNameIndividual. List of other names by which this individual is known.
partyCharacteristic	A Characteristic. List of additional characteristics that a Party can take on.
placeOfBirth	A String. Reference to the place where the individual was born.
preferredGivenName	A String. Contains the chosen name by which the individual prefers to be addressed. Note: This name may be a name other than a given name, such as a nickname.
relatedParty	A RelatedPartyOrPartyRole. List of parties and/or party roles related to this party.
skill	A Skill. List of skills exhibited by the individual.
status	An IndividualStateType. Valid values for the lifecycle state of the individual.
taxExemptionCertificate	A TaxExemptionCertificate. List of tax exemptions granted to the party. For example, a war veteran might have partial exemption from state tax and a full exemption from federal tax.
title	A String. Useful for titles (aristocratic, social,…) Pr, Dr, Sir, …
@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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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.
mimeType	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.

BooleanCharacteristic sub-resource fields

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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 Boolean. 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.

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 qualifiy 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.

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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.

Disability sub-resource fields

disabilityCode	A String. Code of the disability.
disabilityName	A String. Name of the disability.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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.

ExternalIdentifier sub-resource fields

externalIdentifierType	A String. Type of the identification, typically would be the type of the entity within the external system.
id	A String. Identification of the entity within the external system.
owner	A String. Name of the external system that owns the entity.
@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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FaxContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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.

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 qualifiy 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.

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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 (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.

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.

IndividualIdentification sub-resource fields

attachment	An AttachmentRefOrValue. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Attachment entity and not the AttachmentRefOrValue class itself.
identificationId	A String. Identifier.
identificationType	A String. Identification type (passport, national identity card, drivers license, social security number, birth certificate).
issuingAuthority	A String. Authority which has issued the identifier, such as: social security, town hall.
issuingDate	A DateTime. Date at which the identifier was issued.
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.

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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.

LanguageAbility sub-resource fields

isFavouriteLanguage	A Boolean. A ?true? value specifies whether the language is considered by the individual as his favourite one.
languageCode	A String. Language code (RFC 5646).
languageName	A String. Language name.
listeningProficiency	A String. Listening proficiency evaluated for this language.
readingProficiency	A String. Reading proficiency evaluated for this language.
speakingProficiency	A String. Speaking proficiency evaluated for this language.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
writingProficiency	A String. Writing proficiency evaluated for this language.

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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.

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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.

OtherNameIndividual sub-resource fields

aristocraticTitle	A String. E.g. Baron, Graf, Earl, etc.
familyName	A String. Contains the non-chosen or inherited name. Also known as last name in the Western context.
familyNamePrefix	A String. Family name prefix.
formattedName	A String. . A fully formatted name in one string with all of its pieces in their proper place and all of the necessary punctuation. Useful for specific contexts (Chinese, Japanese, Korean, etc.).
fullName	A String. Full name flatten (first, middle, and last names).
generation	A String. E.g. Sr, Jr, etc.
givenName	A String. First name.
legalName	A String. Legal name or birth name (name one has for official purposes).
middleName	A String. Middle name or initial.
preferredGivenName	A String. Contains the chosen name by which the person prefers to be addressed. Note: This name may be a name other than a given name, such as a nickname.
title	A String. Use for titles (aristocatic, social, …): Pr, Dr, Sir,….
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.

Party sub-resource fields

contactMedium	A ContactMedium. List of means for contacting the party, e.g. mobile phone, email address.
creditRating	A PartyCreditProfile. List of credit profiles and scores for the party, typically received from an external credit broker.

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externalReference	An ExternalIdentifier. List of identifiers of the Party in an external system, for example when party information is imported from a commerce system.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
partyCharacteristic	A Characteristic. List of additional characteristics that a Party can take on.
relatedParty	A RelatedPartyOrPartyRole. List of parties and/or party roles related to this party.
taxExemptionCertificate	A TaxExemptionCertificate. List of tax exemptions granted to the party. For example, a war veteran might have partial exemption from state tax and a full exemption from federal tax.
@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.

PartyCreditProfile sub-resource fields

creditAgencyName	A String. Name of the credit agency giving the score.
creditAgencyType	A String. Type of the credit agency giving the score.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
ratingReference	A String. Reference corresponding to the credit rating.
ratingScore	An Integer32. A measure of a party's creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
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.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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.

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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.

Skill sub-resource fields

comment	A String. A free text comment linked to the evaluation done.
evaluatedLevel	A String. Level of expertise in a skill evaluated for an individual.
skillCode	A String. Code of the skill.
skillName	A String. Name of the skill, such as Java language.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.

SocialContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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.

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@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.

TaxDefinition sub-resource fields

id	A String. Unique identifier of the tax.
jurisdictionLevel	A String. Level of the jurisdiction that levies the tax.
jurisdictionName	A String. Name of the jurisdiction that levies the tax.
name	A String. Tax name.
taxType	A String. Type of the tax.
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.

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@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.

TaxExemptionCertificate sub-resource fields

attachment	An AttachmentRefOrValue. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Attachment entity and not the AttachmentRefOrValue class itself.
certificateNumber	A String. Identifier of a document that shows proof of exemption from taxes for the taxing jurisdiction.
id	A String. Identifier of the tax exemption within list of the exemptions.
issuingJurisdiction	A String. Name of the jurisdiction that issued the exemption.
reason	A String. Reason for the tax exemption.
taxDefinition	A TaxDefinition. A list of taxes that are covered by the exemption, e.g. City Tax, State Tax. The definition would include the exemption (e.g. for a rate exemption 0% would be a full exemption, 5% could be a partial exemption if the actual rate was 10%).
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.

Json representation sample(s)

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


```
{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "married",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
```


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```
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        },
        {
            "name": "childrenNumber",
            "value": 1,
            "valueType": "number",
            "@type": "IntegerCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "passportCopy",
          "name": "PassportCopy321.pdf",
          "description": "Scanned copy of the passport",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/321/PassportCopy321.pdf"
      }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
```


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```
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "98765432345",
            "issuingJurisdiction": "USA",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-566655.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref123",
      "ratingScore": 680,
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "employer",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "128",
          "href": "https://serverRoot/tmf-api/party/v5/organization/128",
          "name": "Coffee Do Brazil Fair Trade Marketing Department",
          "@type": "PartyRef",
          "@referredType": "Organization"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@gmail.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
```


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```
        "validFor": {
          "startDateTime": "2017-03-15T07:49:25.246Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower - 10th Floor"
      }
    ],
    "disability": [
      {
        "disabilityCode": "BLD",
        "disabilityName": "Blind",
        "validFor": {
          "startDateTime": "1967-09-26T07:49:25.246Z"
        }
      }
    ],
    "languageAbility": [
      {
        "languageCode": "FR",
        "languageName": "French",
        "isFavouriteLanguage": true,
        "writingProficiency": "advanced",
        "readingProficiency": "advanced",
        "speakingProficiency": "intermediate",
        "listeningProficiency": "intermediate",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "languageCode": "SP",
        "languageName": "Spanish",
        "isFavouriteLanguage": false,
        "writingProficiency": "scholar",
        "readingProficiency": "scholar",
        "speakingProficiency": "scholar",
        "listeningProficiency": "scholar",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
    "skill": [
      {
        "skillCode": "SK001",
        "skillName": "marketing",
        "evaluatedLevel": "Advanced",
        "comment": "Ten years experience",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "skillCode": "SK002",
        "skillName": "Project Management",
        "evaluatedLevel": "newbie",
        "comment": "First work experience",
        "validFor": {
```


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```
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ]
  }
```


Organization resource

Organization represents a group of people identified by shared interests or purpose. Examples include business, department and enterprise. Because of the complex nature of many businesses, both organizations and organization units are represented by the same data.

Resource model

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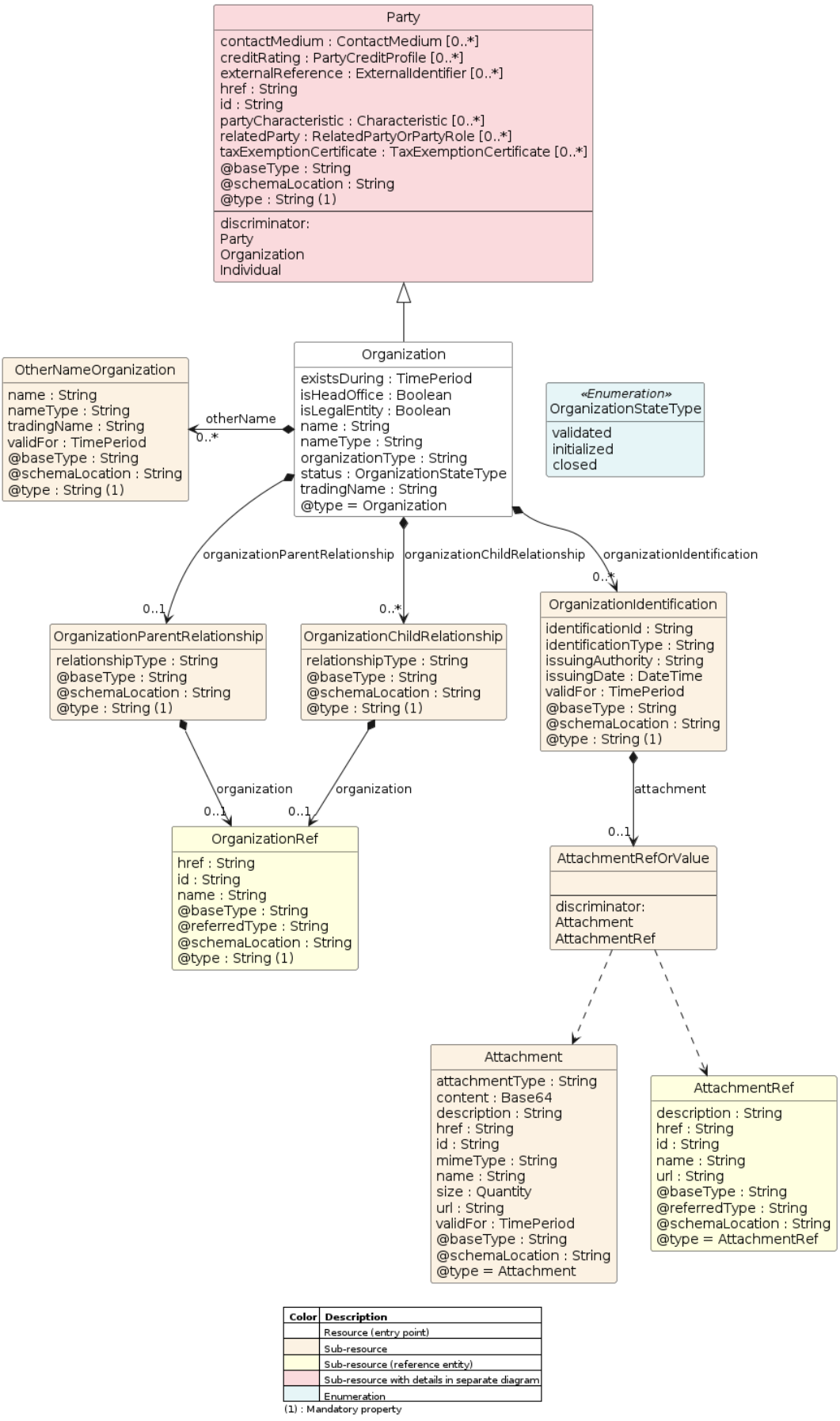

Figure 5 - Organization

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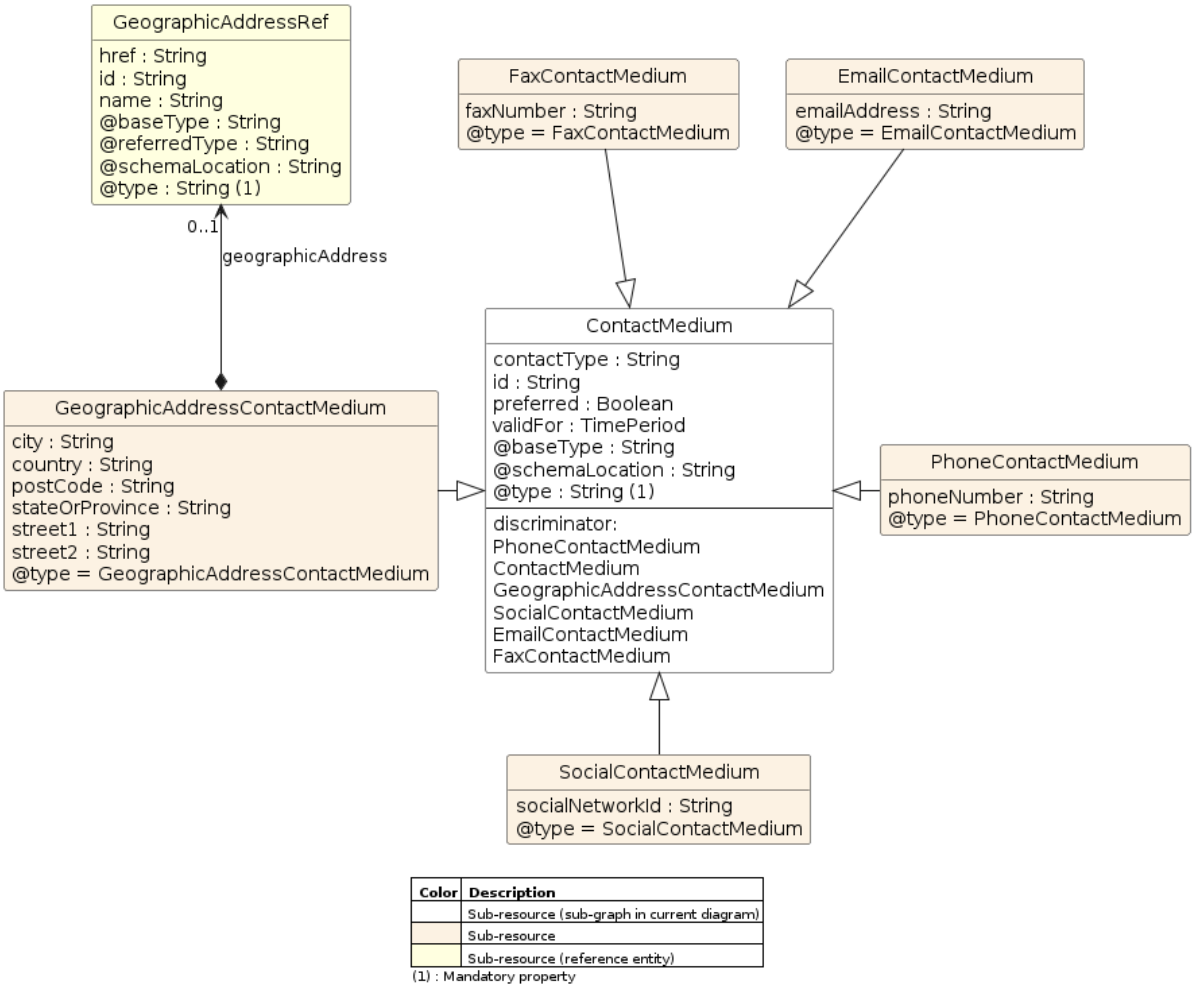

Figure 6 - ContactMedium

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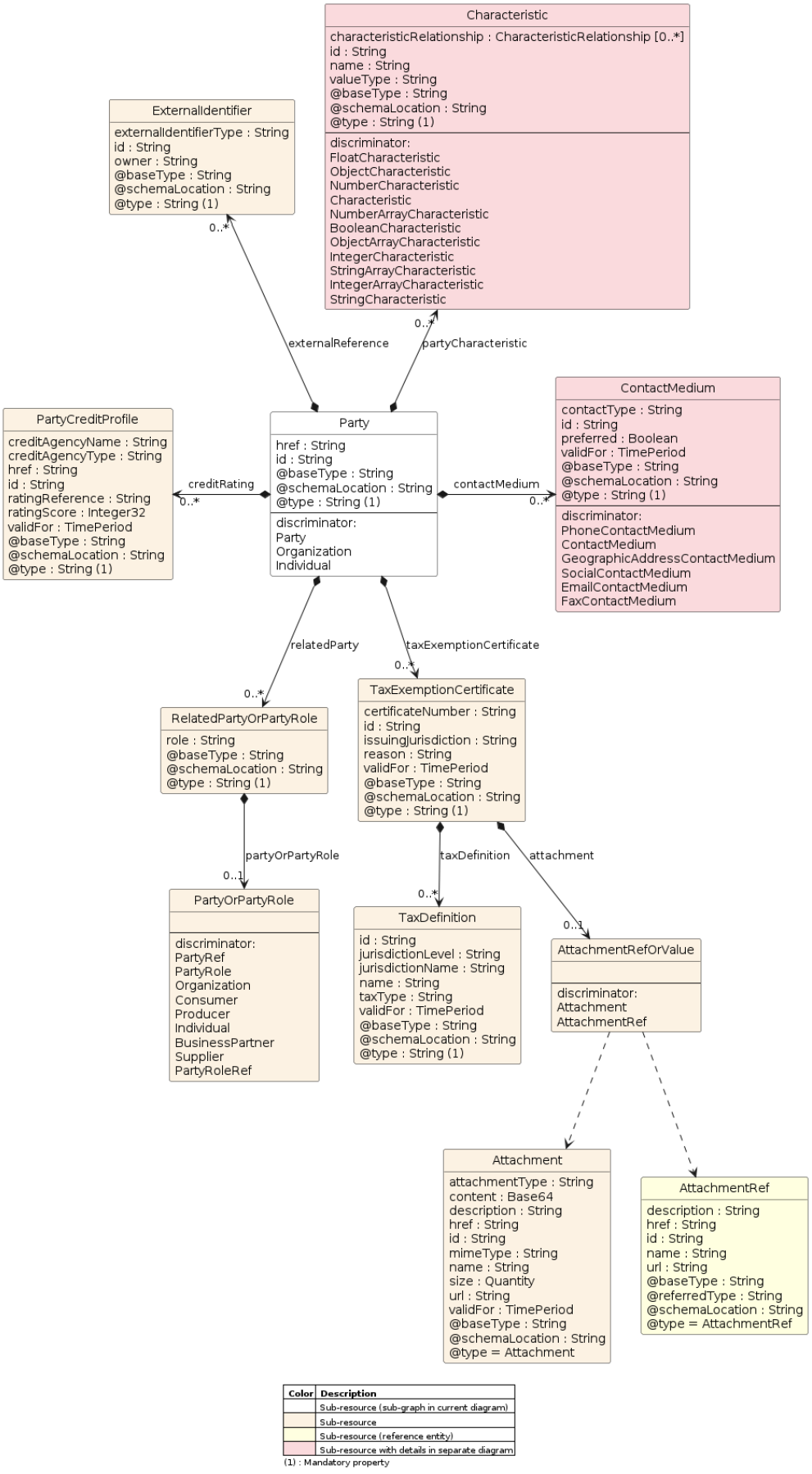

Figure 7 - Party

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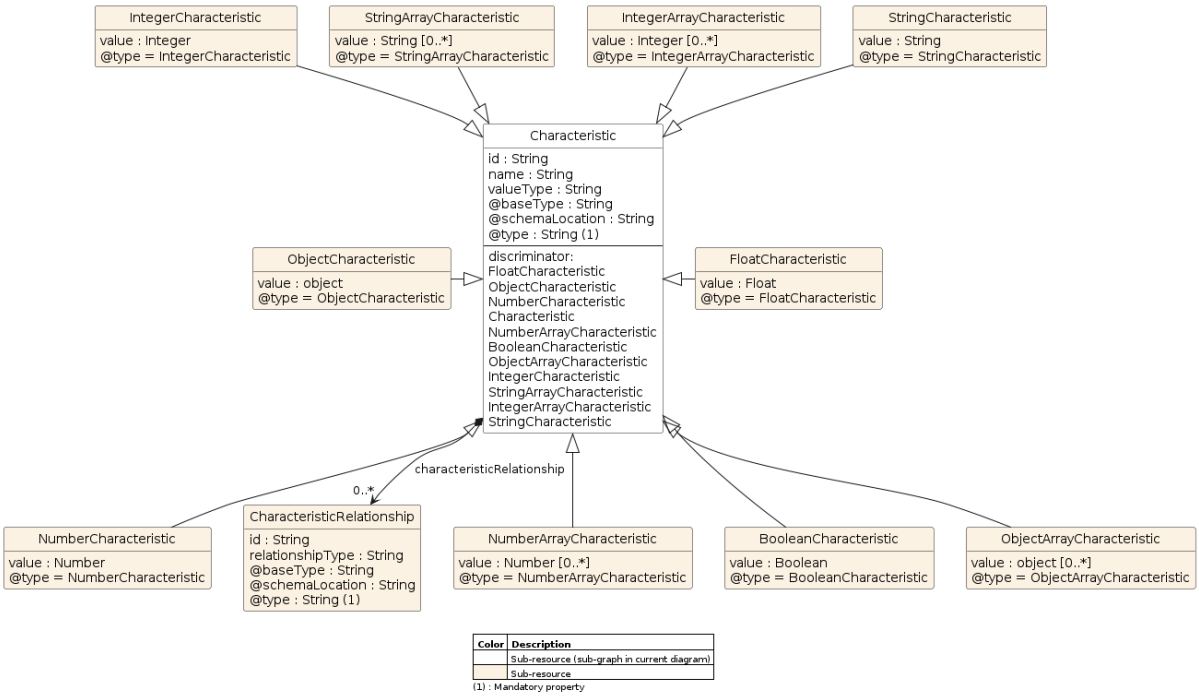

Figure 8 - Characteristic

Field descriptions

Organization fields

contactMedium	A ContactMedium. List of means for contacting the party, e.g. mobile phone, email address.
creditRating	A PartyCreditProfile. List of credit profiles and scores for the party, typically received from an external credit broker.
existsDuring	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
externalReference	An ExternalIdentifier. List of identifiers of the Party in an external system, for example when party information is imported from a commerce system.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
isHeadOffice	A Boolean. If value is true, the organization is the head office.
isLegalEntity	A Boolean. If value is true, the organization is a legal entity known by a national referential.
name	A String. Organization name (department name for example).
nameType	A String. Type of the name : Co, Inc, Ltd, etc.
organizationChildRelationship	An OrganizationChildRelationship. List of organizations that are contained within this organization. For example if this organization is the Legal Department, the child organizations might include Claims, Courts, Contracts.

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organizationIdentification	An OrganizationIdentification. List of official identifiers given to the organization, for example company number in the registry of companies.
organizationParentRelationship	An OrganizationParentRelationship. Parent references of an organization in a structure of organizations.
organizationType	A String. Type of Organization (company, department…).
otherName	An OtherNameOrganization. List of additional names by which the organization is known.
partyCharacteristic	A Characteristic. List of additional characteristics that a Party can take on.
relatedParty	A RelatedPartyOrPartyRole. List of parties and/or party roles related to this party.
status	An OrganizationStateType. Valid values for the lifecycle state of the organization.
taxExemptionCertificate	A TaxExemptionCertificate. List of tax exemptions granted to the party. For example, a war veteran might have partial exemption from state tax and a full exemption from federal tax.
tradingName	A String. Name that the organization (unit) trades under.
@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.

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.
mimeType	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.

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@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.

BooleanCharacteristic 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 Boolean. 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.

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.

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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 qualifiy 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 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.

EmailContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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.

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@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.

ExternalIdentifier sub-resource fields

externalIdentifierType	A String. Type of the identification, typically would be the type of the entity within the external system.
id	A String. Identification of the entity within the external system.
owner	A String. Name of the external system that owns the entity.
@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 qualifiy 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.

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.

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@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 qualifiy 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 (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.

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

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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

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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.

OrganizationChildRelationship sub-resource fields

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organization	An OrganizationRef.
relationshipType	A String. Type of the relationship. Could be juridical, hierarchical, geographical, functional for example.
@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.

OrganizationIdentification sub-resource fields

attachment	An AttachmentRefOrValue. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Attachment entity and not the AttachmentRefOrValue class itself.
identificationId	A String. Identifier.
identificationType	A String. Type of identification information used to identify the company in a country or internationally.
issuingAuthority	A String. Authority which has issued the identifier (chamber of commerce…).
issuingDate	A DateTime. Date at which the identifier was issued.
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.

OrganizationParentRelationship sub-resource fields

organization	An OrganizationRef.
relationshipType	A String. Type of the relationship. Could be juridical, hierarchical, geographical, functional for example.
@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.

OrganizationRef sub-resource fields

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

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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.

OtherNameOrganization sub-resource fields

name	A String. Organization name (department name for example).
nameType	A String. Co. , Inc. , Ltd. , Pty Ltd. , Plc; , Gmbh.
tradingName	A String. The name that the organization trades under.
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.

Party sub-resource fields

contactMedium	A ContactMedium. List of means for contacting the party, e.g. mobile phone, email address.
creditRating	A PartyCreditProfile. List of credit profiles and scores for the party, typically received from an external credit broker.
externalReference	An ExternalIdentifier. List of identifiers of the Party in an external system, for example when party information is imported from a commerce system.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
partyCharacteristic	A Characteristic. List of additional characteristics that a Party can take on.
relatedParty	A RelatedPartyOrPartyRole. List of parties and/or party roles related to this party.
taxExemptionCertificate	A TaxExemptionCertificate. List of tax exemptions granted to the party. For example, a war veteran might have partial exemption from state tax and a full exemption from federal tax.
@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.

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

PartyCreditProfile sub-resource fields

creditAgencyName	A String. Name of the credit agency giving the score.
creditAgencyType	A String. Type of the credit agency giving the score.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
ratingReference	A String. Reference corresponding to the credit rating.
ratingScore	An Integer32. A measure of a party's creditworthiness calculated on the basis of a combination of factors such as their income and credit history.
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.

PhoneContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualifiy 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'.

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@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 qualifiy 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.

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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.

TaxDefinition sub-resource fields

id	A String. Unique identifier of the tax.
jurisdictionLevel	A String. Level of the jurisdiction that levies the tax.
jurisdictionName	A String. Name of the jurisdiction that levies the tax.
name	A String. Tax name.
taxType	A String. Type of the tax.
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.

TaxExemptionCertificate sub-resource fields

attachment	An AttachmentRefOrValue. The polymorphic attributes @type, @schemaLocation & @referredType are related to the Attachment entity and not the AttachmentRefOrValue class itself.
certificateNumber	A String. Identifier of a document that shows proof of exemption from taxes for the taxing jurisdiction.
id	A String. Identifier of the tax exemption within list of the exemptions.
issuingJurisdiction	A String. Name of the jurisdiction that issued the exemption.
reason	A String. Reason for the tax exemption.
taxDefinition	A TaxDefinition. A list of taxes that are covered by the exemption, e.g. City Tax, State Tax. The definition would include the exemption (e.g. for a rate exemption 0% would be a full exemption, 5% could be a partial exemption if the actual rate was 10%).
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.

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@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 'Organization' resource object.

```
{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": true,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
      "externalIdentifierType": "internetSite",
      "@type": "ExternalIdentifier"
    }
  ],
  "partyCharacteristic": [
    {
      "name": "number of employees",
      "value": 125,
      "valueType": "number",
      "@type": "IntegerCharacteristic"
    },
    {
      "name": "market segment",
      "value": "Food wholesale",
      "valueType": "string",
      "@type": "StringCharacteristic"
    }
  ],
  "otherName": [
  {
        "nameType": "inc",
        "tradingName": "General Coffee",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.026Z",
          "endDateTime": "2017-10-22T08:31:52.026Z"
        }
    }
  ],
  "organizationIdentification": [
    {
      "@type": "OrganizationIdentification",
      "identificationType": "commercialRegistration",
```

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```
      "identificationId": "12345678",
      "issuingAuthority": "US Government",
      "issuingDate": "2015-10-22T08:31:52.028Z",
      "validFor": {
        "startDateTime": "2015-10-22T08:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "RegistrationCertificate421.pdf",
          "description": "Scanned copy of the registration certificate",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
        }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "9875755432345",
            "issuingJurisdiction": "USA",
            "reason": "Voluntary Body",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-233322.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref456",
      "ratingScore": 400,
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "director",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
```


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```
            "id": "54",
            "href": "https://serverRoot/tmf-api/party/v5/individual/54",
            "name": "Carlos Mafalda",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      },
      {
        "role": "employee",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "42",
            "href": "https://serverRoot/tmf-api/party/v5/individual/42",
            "name": "Jane Lamborgizzia",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      }
    ],
    "contactMedium": [
      {
        "preferred": true,
        "mediumType": "email",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "EmailContactMedium",
        "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
      },
      {
        "preferred": false,
        "mediumType": "postalAddress",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower 10th Floor"
      }
    ],
    "organizationParentRelationship": {
      "@type": "OrganizationParentRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "800",
        "href": "https://serverRoot/tmf-api/party/v5/organization/800"
      }
    },
    "organizationChildRelationship": [
      {
        "@type": "OrganizationChildRelationship",
        "relationshipType": "juridical",
        "organization": {
          "@type": "OrganizationRef",
          "id": "149",
          "href": "https://serverRoot/tmf-api/party/v5/organization/149"
        }
      },
```


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```
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "150",
        "href": "https://serverRoot/tmf-api/party/v5/organization/150"
      }
    }
  ]
}
```


Notification Resource Models

8 notifications are defined for this API.

Notifications related to Individual:

- Individual Delete Event
- Individual Create Event
- Individual State Change Event
- Individual Attribute Value Change Event

Notifications related to Organization:

- Organization Delete Event
- Organization Attribute Value Change Event
- Organization State Change Event
- Organization 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).

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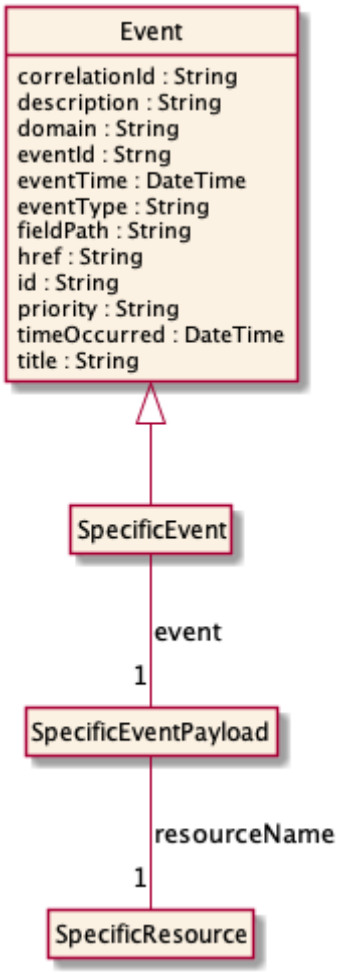

Figure 9 Notification Pattern

Individual Delete Event

Message example for IndividualDeleteEvent event

```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "IndividualDeleteEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "IndividualDeleteEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "IndividualDeleteEvent",
  "event": {
    "individual": {
        "id": "42",
        "href": "https://serverRoot/tmf-api/party/v5/individual/42",
        "@type": "Individual",
        "@baseType": "Party"
    }
  },
  "reportingSystem": {
```

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```
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "IndividualDeleteEvent"
}
```


Individual Create Event

Message example for IndividualCreateEvent event


```
Content-Type: application/json

{
  "correlationId": "95003dd3-e325",
  "description": "IndividualCreateEvent illustration",
  "domain": "Commercial",
  "eventId": "4010-9b59-509a64cf85a8",
  "eventTime": "2022-08-25T12:18:12.171Z",
  "eventType": "IndividualCreateEvent",
  "priority": "1",
  "timeOcurred": "2022-08-25T12:18:06.252Z",
  "title": "IndividualCreateEvent",
  "event": {
    "individual": {
        "id": "42",
        "href": "https://serverRoot/tmf-api/party/v5/individual/42",
        "@type": "Individual",
        "@baseType": "Party",
        "gender": "female",
        "countryOfBirth": "United States",
        "nationality": "American",
        "maritalStatus": "married",
        "birthDate": "1967-09-26T05:00:00.246Z",
        "givenName": "Jane",
        "preferredGivenName": "Lamborgizzia",
        "familyName": "Lamborgizzia",
        "legalName": "Smith",
        "middleName": "JL",
        "fullName": "Jane Smith ep Lamborgizzia",
        "formattedName": "Jane Smith ep Lamborgizzia",
        "status": "validated",
        "externalReference": [
            {
                "name": "http://facebook.com/17263635",
                "externalIdentifierType": "facebookId",
                "@type": "ExternalIdentifier"
            },
            {
                "name": "http://google.com/17263635",
                "externalIdentifierType": "googleId",
                "@type": "ExternalIdentifier"
```


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```
            }
        ],
        "partyCharacteristic": [
            {
                "name": "hobby",
                "value": ["Modern Jazz","Cinema"],
                "valueType": "array",
                "@type": "StringArrayCharacteristic"
            },
            {
                "name": "childrenNumber",
                "value": 1,
                "valueType": "number",
                "@type": "IntegerCharacteristic"
            }
        ],
        "otherName": [
            {
                "@type": "OtherNameIndividual",
                "givenName": "Jane",
                "familyName": "Smith",
                "validFor": {
                    "startDateTime": "1967-09-26T00:00:00.246Z",
                    "endDateTime": "2015-06-15T00:00:00.246Z"
                }
            }
        ],
        "individualIdentification": [
        {
          "@type": "IndividualIdentification",
          "identificationType": "passport",
          "identificationId": "51DD1234",
          "issuingAuthority": "US Government",
          "issuingDate": "2017-10-22T07:49:25.246Z",
          "validFor": {
            "startDateTime": "2017-10-22T07:49:25.246Z",
            "endDateTime": "2027-10-21T07:49:25.246Z"
          },
          "attachment": {
              "@type": "Attachment",
              "id": "6662326757667",
              "href": "https://serverRoot/tmf-
api/document/v5/attachment/6662326757667",
              "attachmentType": "passportCopy",
              "name": "PassportCopy321.pdf",
              "description": "Scanned copy of the passport",
              "mimeType": "application/pdf",
              "url": "http://DocumentManager/321/PassportCopy321.pdf"
          }
        }
      ],
        "taxExemptionCertificate": [
            {
                "@type": "TaxExemptionCertificate",
                "id": "1",
                "validFor": {
                    "startDateTime": "2018-10-22T07:49:25.246Z"
                },
                "certificateNumber": "98765432345",
                "issuingJurisdiction": "USA",
                "taxDefinition": [
                    {
                        "@type": "TaxDefinitionRef",
```


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```
                        "id": "96",
                        "name": "Value Added Tax",
                        "taxType": "federalVat"
                    }
                ],
                "attachment": {
                    "@type": "Attachment",
                    "id": "5565734535",
                    "href": "https://serverRoot/tmf-
api/document/v5/attachment/5565734535",
                    "attachmentType": "taxExemptionCertificate",
                    "name": "TaxExemptionCertificate-566655.pdf",
                    "description": "Electronic version of the tax exemption
certificate",
                    "mimeType": "application/pdf",
                    "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
                }
            }
        ],
      "creditRating": [
        {
          "@type": "CreditRating",
          "creditAgencyName": "Experian",
          "creditAgencyType": "externalAgency",
          "ratingReference": "ref123",
          "ratingScore": 680,
          "validFor": {
            "startDateTime": "2018-10-22T07:49:25.246Z"
          }
        }
      ],
      "relatedParty": [
        {
          "role": "employer",
          "@type": "RelatedPartyRefOrPartyRoleRef",
          "partyOrPartyRole": {
              "id": "128",
              "href": "https://serverRoot/tmf-api/party/v5/organization/128",
              "name": "Coffee Do Brazil Fair Trade Marketing Department",
              "@type": "PartyRef",
              "@referredType": "Organization"
          }
        }
      ],
      "contactMedium": [
        {
          "preferred": true,
          "mediumType": "email",
          "validFor": {
            "startDateTime": "2017-03-15T07:49:25.246Z"
          },
          "@type": "EmailContactMedium",
          "emailAddress": "jane.lamborgizzia@gmail.com"
        },
        {
          "preferred": false,
          "mediumType": "postalAddress",
          "validFor": {
            "startDateTime": "2017-03-15T07:49:25.246Z"
          },
          "@type": "GeographicAddressContactMedium",
          "city": "Morristown",
```


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```
          "country": "USA",
          "postCode": "07960",
          "stateOrProvince": "New Jersey",
          "street1": "240 Headquarters Plazza",
          "street2": "East Tower - 10th Floor"
        }
      ],
      "disability": [
        {
          "disabilityCode": "BLD",
          "disabilityName": "Blind",
          "validFor": {
            "startDateTime": "1967-09-26T07:49:25.246Z"
          }
        }
      ],
      "languageAbility": [
        {
          "languageCode": "FR",
          "languageName": "French",
          "isFavouriteLanguage": true,
          "writingProficiency": "advanced",
          "readingProficiency": "advanced",
          "speakingProficiency": "intermediate",
          "listeningProficiency": "intermediate",
          "validFor": {
            "startDateTime": "2018-10-22T07:49:25.246Z"
          }
        },
        {
          "languageCode": "SP",
          "languageName": "Spanish",
          "isFavouriteLanguage": false,
          "writingProficiency": "scholar",
          "readingProficiency": "scholar",
          "speakingProficiency": "scholar",
          "listeningProficiency": "scholar",
          "validFor": {
            "startDateTime": "2018-10-22T07:49:25.246Z"
          }
        }
      ],
      "skill": [
        {
          "skillCode": "SK001",
          "skillName": "marketing",
          "evaluatedLevel": "Advanced",
          "comment": "Ten years experience",
          "validFor": {
            "startDateTime": "2018-10-22T07:49:25.246Z"
          }
        },
        {
          "skillCode": "SK002",
          "skillName": "Project Management",
          "evaluatedLevel": "newbie",
          "comment": "First work experience",
          "validFor": {
            "startDateTime": "2018-10-22T07:49:25.246Z"
          }
        }
      ]
    }
```


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```
  },
  "reportingSystem": {
    "id": "759",
    "name": "APP-745",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "705",
    "name": "APP-317",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "IndividualCreateEvent"
}
```

Individual State Change Event

Message example for IndividualStateChangeEvent event

```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "IndividualStateChangeEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "IndividualStateChangeEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "IndividualStateChangeEvent",
  "event": {
    "individual": {
        "id": "42",
        "href": "https://serverRoot/tmf-api/party/v5/individual/42",
        "@type": "Individual",
        "@baseType": "Party",
        "status": "validated"
    }
  },
  "reportingSystem": {
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "IndividualStateChangeEvent"
}
```

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Individual Attribute Value Change Event

Message example for IndividualAttributeValueChangeEvent event

```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "IndividualAttributeValueChangeEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "IndividualAttributeValueChangeEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "IndividualAttributeValueChangeEvent",
  "event": {
    "individual": {
        "id": "42",
        "href": "https://serverRoot/tmf-api/party/v5/individual/42",
        "@type": "Individual",
        "@baseType": "Party",
        "maritalStatus": "divorced"
    }
  },
  "reportingSystem": {
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "IndividualAttributeValueChangeEvent"
}
```

Organization Delete Event

Message example for OrganizationDeleteEvent event

```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "OrganizationDeleteEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "OrganizationDeleteEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "OrganizationDeleteEvent",
  "event": {
```

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```
    "organization": {
        "id": "128",
        "href": "https://serverRoot/tmf-api/party/v5/organization/128",
        "@type": "Organization",
        "@baseType": "Party"
    }
  },
  "reportingSystem": {
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "OrganizationDeleteEvent"
}
```


Organization Attribute Value Change Event

Message example for OrganizationAttributeValueChangeEvent event


```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "OrganizationAttributeValueChangeEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "OrganizationAttributeValueChangeEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "OrganizationAttributeValueChangeEvent",
  "event": {
    "organization": {
        "id": "128",
        "href": "https://serverRoot/tmf-api/party/v5/organization/128",
        "@type": "Organization",
        "@baseType": "Party",
        "isHeadOffice": false
    }
  },
  "reportingSystem": {
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
```


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```
  "@baseType": "Event",
  "@type": "OrganizationAttributeValueChangeEvent"
}
```

Organization State Change Event

Message example for OrganizationStateChangeEvent event

```
Content-Type: application/json

{
  "correlationId": "f3a34f89-0046",
  "description": "OrganizationStateChangeEvent illustration",
  "domain": "Commercial",
  "eventId": "4996-b9b1-e533c09a0186",
  "eventTime": "2022-08-25T12:17:59.636Z",
  "eventType": "OrganizationStateChangeEvent",
  "priority": "2",
  "timeOcurred": "2022-08-25T12:17:55.035Z",
  "title": "OrganizationStateChangeEvent",
  "event": {
    "organization": {
        "id": "128",
        "href": "https://serverRoot/tmf-api/party/v5/organization/128",
        "@type": "Organization",
        "@baseType": "Party",
        "status": "validated"
    }
  },
  "reportingSystem": {
    "id": "868",
    "name": "APP-394",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "source": {
    "id": "372",
    "name": "APP-92",
    "@type": "ReportingResource",
    "@referredType": "LogicalResource"
  },
  "@baseType": "Event",
  "@type": "OrganizationStateChangeEvent"
}
```

Organization Create Event

Message example for OrganizationCreateEvent event

```
Content-Type: application/json

{
  "correlationId": "95003dd3-e325",
  "description": "OrganizationCreateEvent illustration",
  "domain": "Commercial",
  "eventId": "4010-9b59-509a64cf85a8",
  "eventTime": "2022-08-25T12:18:12.171Z",
```

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```
  "eventType": "OrganizationCreateEvent",
  "priority": "1",
  "timeOcurred": "2022-08-25T12:18:06.252Z",
  "title": "OrganizationCreateEvent",
  "event": {
    "organization": {
      "id": "128",
      "href": "https://serverRoot/tmf-api/party/v5/organization/128",
      "@type": "Organization",
      "@baseType": "Party",
      "isLegalEntity": true,
      "isHeadOffice": true,
      "organizationType": "company",
      "existsDuring": {
        "startDateTime": "2015-10-22T08:31:52.026Z"
      },
      "name": "Coffee Do Brazil",
      "tradingName": "Coffee Do Brazil Fair Trade",
      "nameType": "inc",
      "status": "validated",
      "externalReference": [
        {
          "name": "http://coffeedobrazil.com",
          "externalIdentifierType": "internetSite",
          "@type": "ExternalIdentifier"
        }
      ],
      "partyCharacteristic": [
        {
          "name": "number of employees",
          "value": 125,
          "valueType": "number",
          "@type": "IntegerCharacteristic"
        },
        {
          "name": "market segment",
          "value": "Food wholesale",
          "valueType": "string",
          "@type": "StringCharacteristic"
        }
      ],
      "otherName": [
      {
            "@type": "OtherNameOrganization",
            "nameType": "inc",
            "tradingName": "General Coffee",
            "validFor": {
              "startDateTime": "2015-10-22T08:31:52.026Z",
              "endDateTime": "2017-10-22T08:31:52.026Z"
            }
        }
      ],
      "organizationIdentification": [
        {
          "@type": "OrganizationIdentification",
          "identificationType": "commercialRegistration",
          "identificationId": "12345678",
          "issuingAuthority": "US Government",
          "issuingDate": "2015-10-22T08:31:52.028Z",
          "validFor": {
            "startDateTime": "2015-10-22T08:31:52.028Z"
          },
          "attachment": {
```


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```
              "@type": "Attachment",
              "attachmentType": "documentCopy",
              "name": "RegistrationCertificate421.pdf",
              "description": "Scanned copy of the registration certificate",
              "mimeType": "application/pdf",
              "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
            }
        }
      ],
        "taxExemptionCertificate": [
            {
                "@type": "TaxExemptionCertificate",
                "id": "1",
                "validFor": {
                    "startDateTime": "2018-10-22T07:49:25.246Z"
                },
                "certificateNumber": "9875755432345",
                "issuingJurisdiction": "USA",
                "reason": "Voluntary Body",
                "taxDefinition": [
                    {
                        "@type": "TaxDefinitionRef",
                        "id": "96",
                        "name": "Value Added Tax",
                        "taxType": "federalVat"
                    }
                ],
                "attachment": {
                    "@type": "Attachment",
                    "attachmentType": "taxExemptionCertificate",
                    "name": "TaxExemptionCertificate-233322.pdf",
                    "description": "Electronic version of the tax exemption
certificate",
                    "mimeType": "application/pdf",
                    "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
                }
            }
        ],
      "creditRating": [
        {
          "@type": "CreditRating",
          "creditAgencyName": "Experian",
          "creditAgencyType": "externalAgency",
          "ratingReference": "ref456",
          "ratingScore": 400,
          "validFor": {
            "startDateTime": "2018-10-22T08:31:52.028Z"
          }
        }
      ],
      "relatedParty": [
        {
          "role": "director",
          "@type": "RelatedPartyRefOrPartyRoleRef",
          "partyOrPartyRole": {
              "id": "54",
              "href": "https://serverRoot/tmf-api/party/v5/individual/54",
              "name": "Carlos Mafalda",
              "@type": "PartyRef",
              "@referredType": "Individual"
          }
        },
```


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```
        {
          "role": "employee",
          "@type": "RelatedPartyRefOrPartyRoleRef",
          "partyOrPartyRole": {
              "id": "42",
              "href": "https://serverRoot/tmf-api/party/v5/individual/42",
              "name": "Jane Lamborgizzia",
              "@type": "PartyRef",
              "@referredType": "Individual"
          }
        }
      ],
      "contactMedium": [
        {
          "preferred": true,
          "mediumType": "email",
          "validFor": {
            "startDateTime": "2018-10-22T08:31:52.028Z"
          },
          "@type": "EmailContactMedium",
          "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
        },
        {
          "preferred": false,
          "mediumType": "postalAddress",
          "validFor": {
            "startDateTime": "2018-10-22T08:31:52.028Z"
          },
          "@type": "GeographicAddressContactMedium",
          "city": "Morristown",
          "country": "USA",
          "postCode": "07960",
          "stateOrProvince": "New Jersey",
          "street1": "240 Headquarters Plazza",
          "street2": "East Tower 10th Floor"
        }
      ],
          "organizationParentRelationship": {
            "@type": "OrganizationParentRelationship",
            "relationshipType": "juridical",
            "organization": {
              "@type": "OrganizationRef",
              "id": "800",
              "href": "https://serverRoot/tmf-api/party/v5/organization/800"
            }
          },
          "organizationChildRelationship": [
            {
              "@type": "OrganizationChildRelationship",
              "relationshipType": "juridical",
              "organization": {
                "@type": "OrganizationRef",
                "id": "149",
                "href": "https://serverRoot/tmf-api/party/v5/organization/149"
              }
            },
            {
              "@type": "OrganizationChildRelationship",
              "relationshipType": "juridical",
              "organization": {
                "@type": "OrganizationRef",
                "id": "150",
                "href": "https://serverRoot/tmf-api/party/v5/organization/150"
```


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```
              }
            }
          ]
      }
    },
    "reportingSystem": {
      "id": "759",
      "name": "APP-745",
      "@type": "ReportingResource",
      "@referredType": "LogicalResource"
    },
    "source": {
      "id": "705",
      "name": "APP-317",
      "@type": "ReportingResource",
      "@referredType": "LogicalResource"
    },
    "@baseType": "Event",
    "@type": "OrganizationCreateEvent"
  }
```


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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 Individual

Retrieves a Individual by ID

`GET /individual/{id}?fields=…`

Description

This operation retrieves an Individual 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 a sample of a request for retrieving an Individual resource based on its ID.

Request

```
GET /individual/42
Content-Type: application/json
```

Response

```
200
```

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```
{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "married",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "id": "6662326757667",
```


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```
            "href": "https://serverRoot/tmf-api/document/v5/attachment/6662326757667",
            "attachmentType": "passportCopy",
            "name": "PassportCopy321.pdf",
            "description": "Scanned copy of the passport",
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/321/PassportCopy321.pdf"
          }
      }
    ],
      "taxExemptionCertificate": [
          {
              "@type": "TaxExemptionCertificate",
              "id": "1",
              "validFor": {
                  "startDateTime": "2018-10-22T07:49:25.246Z"
              },
              "certificateNumber": "98765432345",
              "issuingJurisdiction": "USA",
              "taxDefinition": [
                  {
                      "@type": "TaxDefinitionRef",
                      "id": "96",
                      "name": "Value Added Tax",
                      "taxType": "federalVat"
                  }
              ],
              "attachment": {
                  "@type": "Attachment",
                  "id": "5565734535",
                  "href": "https://serverRoot/tmf-
api/document/v5/attachment/5565734535",
                  "attachmentType": "taxExemptionCertificate",
                  "name": "TaxExemptionCertificate-566655.pdf",
                  "description": "Electronic version of the tax exemption
certificate",
                  "mimeType": "application/pdf",
                  "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
              }
          }
      ],
    "creditRating": [
      {
        "@type": "CreditRating",
        "creditAgencyName": "Experian",
        "creditAgencyType": "externalAgency",
        "ratingReference": "ref123",
        "ratingScore": 680,
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
    "relatedParty": [
      {
        "role": "employer",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "128",
            "href": "https://serverRoot/tmf-api/party/v5/organization/128",
            "name": "Coffee Do Brazil Fair Trade Marketing Department",
            "@type": "PartyRef",
            "@referredType": "Organization"
```


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```
        }
      }
    ],
    "contactMedium": [
      {
        "preferred": true,
        "mediumType": "email",
        "validFor": {
          "startDateTime": "2017-03-15T07:49:25.246Z"
        },
        "@type": "EmailContactMedium",
        "emailAddress": "jane.lamborgizzia@gmail.com"
      },
      {
        "preferred": false,
        "mediumType": "postalAddress",
        "validFor": {
          "startDateTime": "2017-03-15T07:49:25.246Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower - 10th Floor"
      }
    ],
    "disability": [
      {
        "disabilityCode": "BLD",
        "disabilityName": "Blind",
        "validFor": {
          "startDateTime": "1967-09-26T07:49:25.246Z"
        }
      }
    ],
    "languageAbility": [
      {
        "languageCode": "FR",
        "languageName": "French",
        "isFavouriteLanguage": true,
        "writingProficiency": "advanced",
        "readingProficiency": "advanced",
        "speakingProficiency": "intermediate",
        "listeningProficiency": "intermediate",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "languageCode": "SP",
        "languageName": "Spanish",
        "isFavouriteLanguage": false,
        "writingProficiency": "scholar",
        "readingProficiency": "scholar",
        "speakingProficiency": "scholar",
        "listeningProficiency": "scholar",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
```


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```
  "skill": [
    {
      "skillCode": "SK001",
      "skillName": "marketing",
      "evaluatedLevel": "Advanced",
      "comment": "Ten years experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    },
    {
      "skillCode": "SK002",
      "skillName": "Project Management",
      "evaluatedLevel": "newbie",
      "comment": "First work experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ]
}
```

List or find Individual objects

`GET /individual?fields=…`

Description

This operation list Individual 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 resources of type Individual, Retrieving all Individual with validated status and credit score equal to 700. The result items are field-restricted to show only the id, the family name and the given name.

Request

```
GET
/individual?status=validated&creditRating.ratingScore=700&fields=id,familyName,given
Name
Content-Type: application/json
```

Response

```
200

[
 {
   "id": "42",
   "href": "https://serverRoot/tmf-api/party/v5/individual/42",
   "@type": "Individual",
   "@baseType": "Party",
```

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```
    "givenName": "Jane",
    "familyName": "Lamborgizzia"
  },
  {
    "id": "52",
    "href": "https://serverRoot/tmf-api/party/v5/individual/52",
    "@type": "Individual",
    "@baseType": "Party",
    "givenName": "Paul",
    "familyName": "Newman"
  }
]
```


Creates a Individual

POST /individual?fields=…

Description

This operation creates an Individual entity.

Mandatory Attributes

Mandatory Attributes	Rule
familyName	
givenName	
@type	

Usage samples

Here's a sample of a request for creating an Individual resource. In this example the request only passes mandatory attributes.

Request

```
POST /individual
Content-Type: application/json

{
  "@type": "Individual",
  "@baseType": "Party",
  "givenName": "Jane",
  "familyName": "Lamborgizzia"
}
```

Response


```
201

{
  "id": "42",
  "href": "https://serverRoot/tmf-api/party/v5/individual/42",
```


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```
    "@type": "Individual",
    "@baseType": "Party",
    "givenName": "Jane",
    "familyName": "Lamborgizzia",
    "status": "initialized"
  }
```

Updates partially a Individual

PATCH /individual/{id}?fields=…

Description

This operation allows partial updates of an Individual entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optiona. 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
aristocraticTitle	
birthDate	
contactMedium	
countryOfBirth	
creditRating	
deathDate	
disability	
externalReference	
familyName	
familyNamePrefix	
formattedName	
gender	
generation	

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Patchable Attributes	Rule
givenName	
individualIdentification	
languageAbility	
legalName	
location	
maritalStatus	
middleName	
name	
nationality	
otherName	
partyCharacteristic	
placeOfBirth	
preferredGivenName	
relatedParty	
skill	
status	
taxExemptionCertificate	
title	

Usage samples

Here's an example of a request for patching an Individual resource with change on maritalStatus attribute using patch merge

Request

```
PATCH /individual/{id}
Content-Type: application/merge-patch+json

{
    "@type": "Individual",
    "maritalStatus": "divorced"
}
```

Response

```
200

{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
```

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```
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "divorced",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        },
        {
            "name": "childrenNumber",
            "value": 1,
            "valueType": "number",
            "@type": "IntegerCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
```


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```
            "@type": "Attachment",
            "attachmentType": "passportCopy",
            "name": "PassportCopy321.pdf",
            "description": "Scanned copy of the passport",
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/321/PassportCopy321.pdf"
          }
      }
    ],
      "taxExemptionCertificate": [
          {
              "@type": "TaxExemptionCertificate",
              "id": "1",
              "validFor": {
                  "startDateTime": "2018-10-22T07:49:25.246Z"
              },
              "certificateNumber": "98765432345",
              "issuingJurisdiction": "USA",
              "taxDefinition": [
                  {
                      "@type": "TaxDefinitionRef",
                      "id": "96",
                      "name": "Value Added Tax",
                      "taxType": "federalVat"
                  }
              ],
              "attachment": {
                  "@type": "Attachment",
                  "attachmentType": "taxExemptionCertificate",
                  "name": "TaxExemptionCertificate-566655.pdf",
                  "description": "Electronic version of the tax exemption
certificate",
                  "mimeType": "application/pdf",
                  "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
              }
          }
      ],
    "creditRating": [
      {
        "@type": "CreditRating",
        "creditAgencyName": "Experian",
        "creditAgencyType": "externalAgency",
        "ratingReference": "ref123",
        "ratingScore": 680,
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
    "relatedParty": [
      {
        "role": "employer",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "128",
            "href": "https://serverRoot/tmf-api/party/v5/organization/128",
            "name": "Coffee Do Brazil Fair Trade Marketing Department",
            "@type": "PartyRef",
            "@referredType": "Organization"
        }
      }
    ],
```


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```
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@gmail.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "GeographicAddressContactMedium",
      "city": "Morristown",
      "country": "USA",
      "postCode": "07960",
      "stateOrProvince": "New Jersey",
      "street1": "240 Headquarters Plazza",
      "street2": "East Tower - 10th Floor"
    }
  ],
  "disability": [
    {
      "disabilityCode": "BLD",
      "disabilityName": "Blind",
      "validFor": {
        "startDateTime": "1967-09-26T07:49:25.246Z"
      }
    }
  ],
  "languageAbility": [
    {
      "languageCode": "FR",
      "languageName": "French",
      "isFavouriteLanguage": true,
      "writingProficiency": "advanced",
      "readingProficiency": "advanced",
      "speakingProficiency": "intermediate",
      "listeningProficiency": "intermediate",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    },
    {
      "languageCode": "SP",
      "languageName": "Spanish",
      "isFavouriteLanguage": false,
      "writingProficiency": "scholar",
      "readingProficiency": "scholar",
      "speakingProficiency": "scholar",
      "listeningProficiency": "scholar",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "skill": [
    {
      "skillCode": "SK001",
```


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```
      "skillName": "marketing",
      "evaluatedLevel": "Advanced",
      "comment": "Ten years experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    },
    {
      "skillCode": "SK002",
      "skillName": "Project Management",
      "evaluatedLevel": "newbie",
      "comment": "First work experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ]
}
```


Here's an example of a request for patching an Individual resource with change on maritalStatus attribute using patch merge

Request

```
PATCH /individual/{id}
Content-Type: application/json

{
    "@type": "Individual",
    "maritalStatus": "divorced"
}
```

Response


```
200

{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "divorced",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
```


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```
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        },
        {
            "name": "childrenNumber",
            "value": 1,
            "valueType": "number",
            "@type": "IntegerCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "passportCopy",
          "name": "PassportCopy321.pdf",
          "description": "Scanned copy of the passport",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/321/PassportCopy321.pdf"
      }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "98765432345",
```


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```
            "issuingJurisdiction": "USA",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-566655.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref123",
      "ratingScore": 680,
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "employer",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "128",
          "href": "https://serverRoot/tmf-api/party/v5/organization/128",
          "name": "Coffee Do Brazil Fair Trade Marketing Department",
          "@type": "PartyRef",
          "@referredType": "Organization"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@gmail.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "GeographicAddressContactMedium",
```


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```
      "city": "Morristown",
      "country": "USA",
      "postCode": "07960",
      "stateOrProvince": "New Jersey",
      "street1": "240 Headquarters Plazza",
      "street2": "East Tower - 10th Floor"
    }
  ],
  "disability": [
    {
      "disabilityCode": "BLD",
      "disabilityName": "Blind",
      "validFor": {
        "startDateTime": "1967-09-26T07:49:25.246Z"
      }
    }
  ],
  "languageAbility": [
    {
      "languageCode": "FR",
      "languageName": "French",
      "isFavouriteLanguage": true,
      "writingProficiency": "advanced",
      "readingProficiency": "advanced",
      "speakingProficiency": "intermediate",
      "listeningProficiency": "intermediate",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    },
    {
      "languageCode": "SP",
      "languageName": "Spanish",
      "isFavouriteLanguage": false,
      "writingProficiency": "scholar",
      "readingProficiency": "scholar",
      "speakingProficiency": "scholar",
      "listeningProficiency": "scholar",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "skill": [
    {
      "skillCode": "SK001",
      "skillName": "marketing",
      "evaluatedLevel": "Advanced",
      "comment": "Ten years experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    },
    {
      "skillCode": "SK002",
      "skillName": "Project Management",
      "evaluatedLevel": "newbie",
      "comment": "First work experience",
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ]
```


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```
}
```

Here's an example of a request for patching an Individual by adding an IndividualIdentification using json-patch

Request

```
PATCH /individual/{id}
Content-Type: application/json-patch+json

[
  {
    "op": "add",
    "path": "/individualIdentification/-",
    "value": {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "passportCopy",
          "name": "PassportCopy321.pdf",
          "description": "Scanned copy of the passport",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/321/PassportCopy321.pdf"
      }
    }
  }
]
```

Response

```
200

{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "married",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
```

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```
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        },
        {
            "name": "childrenNumber",
            "value": 1,
            "valueType": "number",
            "@type": "IntegerCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "passportCopy",
          "name": "PassportCopy321.pdf",
          "description": "Scanned copy of the passport",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/321/PassportCopy321.pdf"
      }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
```


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```
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "98765432345",
            "issuingJurisdiction": "USA",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-566655.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref123",
      "ratingScore": 680,
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "employer",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "128",
          "href": "https://serverRoot/tmf-api/party/v5/organization/128",
          "name": "Coffee Do Brazil Fair Trade Marketing Department",
          "@type": "PartyRef",
          "@referredType": "Organization"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@gmail.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
```


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```
        "validFor": {
          "startDateTime": "2017-03-15T07:49:25.246Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower - 10th Floor"
      }
    ],
    "disability": [
      {
        "disabilityCode": "BLD",
        "disabilityName": "Blind",
        "validFor": {
          "startDateTime": "1967-09-26T07:49:25.246Z"
        }
      }
    ],
    "languageAbility": [
      {
        "languageCode": "FR",
        "languageName": "French",
        "isFavouriteLanguage": true,
        "writingProficiency": "advanced",
        "readingProficiency": "advanced",
        "speakingProficiency": "intermediate",
        "listeningProficiency": "intermediate",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "languageCode": "SP",
        "languageName": "Spanish",
        "isFavouriteLanguage": false,
        "writingProficiency": "scholar",
        "readingProficiency": "scholar",
        "speakingProficiency": "scholar",
        "listeningProficiency": "scholar",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
    "skill": [
      {
        "skillCode": "SK001",
        "skillName": "marketing",
        "evaluatedLevel": "Advanced",
        "comment": "Ten years experience",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "skillCode": "SK002",
        "skillName": "Project Management",
        "evaluatedLevel": "newbie",
        "comment": "First work experience",
        "validFor": {
```


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```
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ]
}
```

Here's an example of a request for patching an Individual by updating a characteristic value using json-patch query

Request

```
PATCH /individual/{id}
Content-Type: application/json-patch-query+json

[
  {
    "op": "replace",
    "path": "/partyCharacteristic/value?/partyCharacteristic/name=childrenNumber",
    "value": 2
  }
]
```

Response

```
200

{
    "id": "42",
    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
    "@type": "Individual",
    "@baseType": "Party",
    "gender": "female",
    "countryOfBirth": "United States",
    "nationality": "American",
    "maritalStatus": "married",
    "birthDate": "1967-09-26T05:00:00.246Z",
    "givenName": "Jane",
    "preferredGivenName": "Lamborgizzia",
    "familyName": "Lamborgizzia",
    "legalName": "Smith",
    "middleName": "JL",
    "fullName": "Jane Smith ep Lamborgizzia",
    "formattedName": "Jane Smith ep Lamborgizzia",
    "status": "validated",
    "externalReference": [
        {
            "name": "http://facebook.com/17263635",
            "externalIdentifierType": "facebookId",
            "@type": "ExternalIdentifier"
        },
        {
            "name": "http://google.com/17263635",
            "externalIdentifierType": "googleId",
            "@type": "ExternalIdentifier"
        }
    ],
    "partyCharacteristic": [
```

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```
        {
            "name": "hobby",
            "value": ["Modern Jazz","Cinema"],
            "valueType": "array",
            "@type": "StringArrayCharacteristic"
        },
        {
            "name": "childrenNumber",
            "value": 2,
            "valueType": "number",
            "@type": "IntegerCharacteristic"
        }
    ],
    "otherName": [
        {
            "@type": "OtherNameIndividual",
            "givenName": "Jane",
            "familyName": "Smith",
            "validFor": {
                "startDateTime": "1967-09-26T00:00:00.246Z",
                "endDateTime": "2015-06-15T00:00:00.246Z"
            }
        }
    ],
    "individualIdentification": [
    {
      "@type": "IndividualIdentification",
      "identificationType": "passport",
      "identificationId": "51DD1234",
      "issuingAuthority": "US Government",
      "issuingDate": "2017-10-22T07:49:25.246Z",
      "validFor": {
        "startDateTime": "2017-10-22T07:49:25.246Z",
        "endDateTime": "2027-10-21T07:49:25.246Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "passportCopy",
          "name": "PassportCopy321.pdf",
          "description": "Scanned copy of the passport",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/321/PassportCopy321.pdf"
      }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "98765432345",
            "issuingJurisdiction": "USA",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
```


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```
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-566655.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-566655.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref123",
      "ratingScore": 680,
      "validFor": {
        "startDateTime": "2018-10-22T07:49:25.246Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "employer",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "128",
          "href": "https://serverRoot/tmf-api/party/v5/organization/128",
          "name": "Coffee Do Brazil Fair Trade Marketing Department",
          "@type": "PartyRef",
          "@referredType": "Organization"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@gmail.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
      "validFor": {
        "startDateTime": "2017-03-15T07:49:25.246Z"
      },
      "@type": "GeographicAddressContactMedium",
      "city": "Morristown",
      "country": "USA",
      "postCode": "07960",
      "stateOrProvince": "New Jersey",
      "street1": "240 Headquarters Plazza",
      "street2": "East Tower - 10th Floor"
    }
  ],
  "disability": [
    {
```


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```
        "disabilityCode": "BLD",
        "disabilityName": "Blind",
        "validFor": {
          "startDateTime": "1967-09-26T07:49:25.246Z"
        }
      }
    ],
    "languageAbility": [
      {
        "languageCode": "FR",
        "languageName": "French",
        "isFavouriteLanguage": true,
        "writingProficiency": "advanced",
        "readingProficiency": "advanced",
        "speakingProficiency": "intermediate",
        "listeningProficiency": "intermediate",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "languageCode": "SP",
        "languageName": "Spanish",
        "isFavouriteLanguage": false,
        "writingProficiency": "scholar",
        "readingProficiency": "scholar",
        "speakingProficiency": "scholar",
        "listeningProficiency": "scholar",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ],
    "skill": [
      {
        "skillCode": "SK001",
        "skillName": "marketing",
        "evaluatedLevel": "Advanced",
        "comment": "Ten years experience",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      },
      {
        "skillCode": "SK002",
        "skillName": "Project Management",
        "evaluatedLevel": "newbie",
        "comment": "First work experience",
        "validFor": {
          "startDateTime": "2018-10-22T07:49:25.246Z"
        }
      }
    ]
  }
```


Deletes a Individual

`DELETE /individual/{id}`

Description

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This operation deletes an Individual entity.

Operations on Organization

List or find Organization objects

`GET /organization?fields=…`

Description

This operation list Organization 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 Organization resources, retrieving all Organization with validated status and credit score equal to 700. The result items are field-restricted to show only the id and the name.

Request

```
GET /organization?status=validated&creditRating.ratingScore=700&&fields=id,name
Content-Type: application/json
```

Response

```
200

[
 {
   "id": "128",
   "href": "https://serverRoot/tmf-api/party/v5/organization/128",
   "@type": "Organization",
   "@baseType": "Party",
   "name": "Coffee Do Brazil Fair Trade"
 },
 {
   "id": "1882",
   "href": "https://serverRoot/tmf-api/party/v5/organization/1882",
   "@type": "Organization",
   "@baseType": "Party",
   "name": "Joe's Pizza"
 }
]
```

Retrieves a Organization by ID

`GET /organization/{id}?fields=…`

Description

This operation retrieves an Organization entity. Attribute selection is enabled for all first level

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attributes. Filtering may be available depending on the compliance level supported by an implementation.

Usage samples

Here's a sample of a request for retrieving an Organization resource based on its ID.

Request

```
GET /organization/128
Content-Type: application/json
```

Response

```
200

{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": true,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
      "externalIdentifierType": "internetSite",
      "@type": "ExternalIdentifier"
    }
  ],
  "partyCharacteristic": [
    {
      "name": "number of employees",
      "value": 125,
      "valueType": "number",
      "@type": "IntegerCharacteristic"
    },
    {
      "name": "market segment",
      "value": "Food wholesale",
      "valueType": "string",
      "@type": "StringCharacteristic"
    }
  ],
  "otherName": [
  {
        "@type": "OtherNameOrganization",
        "nameType": "inc",
        "tradingName": "General Coffee",
        "validFor": {
```

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```
            "startDateTime": "2015-10-22T08:31:52.026Z",
            "endDateTime": "2017-10-22T08:31:52.026Z"
          }
      }
    ],
    "organizationIdentification": [
      {
        "@type": "OrganizationIdentification",
        "identificationType": "commercialRegistration",
        "identificationId": "12345678",
        "issuingAuthority": "US Government",
        "issuingDate": "2015-10-22T08:31:52.028Z",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.028Z"
        },
        "attachment": {
            "@type": "Attachment",
            "attachmentType": "documentCopy",
            "name": "RegistrationCertificate421.pdf",
            "description": "Scanned copy of the registration certificate",
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
          }
      }
    ],
      "taxExemptionCertificate": [
          {
              "@type": "TaxExemptionCertificate",
              "id": "1",
              "validFor": {
                  "startDateTime": "2018-10-22T07:49:25.246Z"
              },
              "certificateNumber": "9875755432345",
              "issuingJurisdiction": "USA",
              "reason": "Voluntary Body",
              "taxDefinition": [
                  {
                      "@type": "TaxDefinitionRef",
                      "id": "96",
                      "name": "Value Added Tax",
                      "taxType": "federalVat"
                  }
              ],
              "attachment": {
                  "@type": "Attachment",
                  "attachmentType": "taxExemptionCertificate",
                  "name": "TaxExemptionCertificate-233322.pdf",
                  "description": "Electronic version of the tax exemption
certificate",
                  "mimeType": "application/pdf",
                  "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
              }
          }
      ],
    "creditRating": [
      {
        "@type": "CreditRating",
        "creditAgencyName": "Experian",
        "creditAgencyType": "externalAgency",
        "ratingReference": "ref456",
        "ratingScore": 400,
        "validFor": {
```


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```
          "startDateTime": "2018-10-22T08:31:52.028Z"
        }
      }
    ],
    "relatedParty": [
      {
        "role": "director",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "54",
            "href": "https://serverRoot/tmf-api/party/v5/individual/54",
            "name": "Carlos Mafalda",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      },
      {
        "role": "employee",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "42",
            "href": "https://serverRoot/tmf-api/party/v5/individual/42",
            "name": "Jane Lamborgizzia",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      }
    ],
    "contactMedium": [
      {
        "preferred": true,
        "mediumType": "email",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "EmailContactMedium",
        "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
      },
      {
        "preferred": false,
        "mediumType": "postalAddress",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower 10th Floor"
      }
    ],
    "organizationParentRelationship": {
      "@type": "OrganizationParentRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "800",
        "href": "https://serverRoot/tmf-api/party/v5/organization/800"
      }
    },
    "organizationChildRelationship": [
```


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```
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "149",
        "href": "https://serverRoot/tmf-api/party/v5/organization/149"
      }
    },
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "150",
        "href": "https://serverRoot/tmf-api/party/v5/organization/150"
      }
    }
  ]
}
```

Creates a Organization

`POST /organization?fields=…`

Description

This operation creates an Organization entity.

Mandatory Attributes

Mandatory Attributes	Rule
name	
@type	

Usage samples

Here's a sample of a request for creating an Organization resource. In this example the request only passes mandatory attributes.

Request

```
POST /organization
Content-Type: application/json

{
  "@type": "Organization",
  "@baseType": "Party",
  "name": "Coffee Do Brazil"
}
```

Response

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```
201

{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "name": "Coffee Do Brazil",
  "status": "initialized"
}
```

Updates partially a Organization

`PATCH /organization/{id}?fields=…`

Description

This operation allows partial updates of an Organization entity. Support of json/merge (https://tools.ietf.org/html/rfc7386) is mandatory, support of json/patch (http://tools.ietf.org/html/rfc5789) is optiona. 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
contactMedium	
creditRating	
existsDuring	
externalReference	
isHeadOffice	
isLegalEntity	
name	
nameType	
organizationChildRelationship	
organizationIdentification	

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Patchable Attributes	Rule
organizationParentRelationship	
organizationType	
otherName	
partyCharacteristic	
relatedParty	
status	
taxExemptionCertificate	
tradingName	

Usage samples

Here's an example of a request for patching an Organization resource with change on isHeadOffice attribute using patch merge

Request

```
PATCH /organization/{id}
Content-Type: application/merge-patch+json

{
    "@type": "Organization",
    "isHeadOffice": false
}
```

Response

```
200

{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": false,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
      "externalIdentifierType": "internetSite",
      "@type": "ExternalIdentifier"
    }
  ],
```

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```
  "partyCharacteristic": [
    {
      "name": "number of employees",
      "value": 125,
      "valueType": "number",
      "@type": "IntegerCharacteristic"
    },
    {
      "name": "market segment",
      "value": "Food wholesale",
      "valueType": "string",
      "@type": "StringCharacteristic"
    }
  ],
  "otherName": [
  {
        "@type": "OtherNameOrganization",
        "nameType": "inc",
        "tradingName": "General Coffee",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.026Z",
          "endDateTime": "2017-10-22T08:31:52.026Z"
        }
    }
  ],
  "organizationIdentification": [
    {
      "@type": "OrganizationIdentification",
      "identificationType": "commercialRegistration",
      "identificationId": "12345678",
      "issuingAuthority": "US Government",
      "issuingDate": "2015-10-22T08:31:52.028Z",
      "validFor": {
        "startDateTime": "2015-10-22T08:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "RegistrationCertificate421.pdf",
          "description": "Scanned copy of the registration certificate",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
        }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "9875755432345",
            "issuingJurisdiction": "USA",
            "reason": "Voluntary Body",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
```


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```
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-233322.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref456",
      "ratingScore": 400,
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "director",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "54",
          "href": "https://serverRoot/tmf-api/party/v5/individual/54",
          "name": "Carlos Mafalda",
          "@type": "PartyRef",
          "@referredType": "Individual"
      }
    },
    {
      "role": "employee",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "42",
          "href": "https://serverRoot/tmf-api/party/v5/individual/42",
          "name": "Jane Lamborgizzia",
          "@type": "PartyRef",
          "@referredType": "Individual"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
```


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```
      },
      "@type": "GeographicAddressContactMedium",
      "city": "Morristown",
      "country": "USA",
      "postCode": "07960",
      "stateOrProvince": "New Jersey",
      "street1": "240 Headquarters Plazza",
      "street2": "East Tower 10th Floor"
    }
  ],
  "organizationParentRelationship": {
    "@type": "OrganizationParentRelationship",
    "relationshipType": "juridical",
    "organization": {
      "@type": "OrganizationRef",
      "id": "800",
      "href": "https://serverRoot/tmf-api/party/v5/organization/800"
    }
  },
  "organizationChildRelationship": [
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "149",
        "href": "https://serverRoot/tmf-api/party/v5/organization/149"
      }
    },
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "150",
        "href": "https://serverRoot/tmf-api/party/v5/organization/150"
      }
    }
  ]
}
```


Here's an example of a request for patching an Organization resource with change on isHeadOffice attribute using patch merge

Request

```
PATCH /organization/{id}
Content-Type: application/merge-patch+json

{
    "@type": "Organization",
    "isHeadOffice": false
}
```

Response

```
200
```

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```
{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": false,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
      "externalIdentifierType": "internetSite",
      "@type": "ExternalIdentifier"
    }
  ],
  "partyCharacteristic": [
    {
      "name": "number of employees",
      "value": 125,
      "valueType": "number",
      "@type": "IntegerCharacteristic"
    },
    {
      "name": "market segment",
      "value": "Food wholesale",
      "valueType": "string",
      "@type": "StringCharacteristic"
    }
  ],
  "otherName": [
  {
        "@type": "OtherNameOrganization",
        "nameType": "inc",
        "tradingName": "General Coffee",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.026Z",
          "endDateTime": "2017-10-22T08:31:52.026Z"
        }
    }
  ],
  "organizationIdentification": [
    {
      "@type": "OrganizationIdentification",
      "identificationType": "commercialRegistration",
      "identificationId": "12345678",
      "issuingAuthority": "US Government",
      "issuingDate": "2015-10-22T08:31:52.028Z",
      "validFor": {
        "startDateTime": "2015-10-22T08:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "RegistrationCertificate421.pdf",
          "description": "Scanned copy of the registration certificate",
```


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```
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
          }
      }
    ],
      "taxExemptionCertificate": [
          {
              "@type": "TaxExemptionCertificate",
              "id": "1",
              "validFor": {
                  "startDateTime": "2018-10-22T07:49:25.246Z"
              },
              "certificateNumber": "9875755432345",
              "issuingJurisdiction": "USA",
              "reason": "Voluntary Body",
              "taxDefinition": [
                  {
                      "@type": "TaxDefinitionRef",
                      "id": "96",
                      "name": "Value Added Tax",
                      "taxType": "federalVat"
                  }
              ],
              "attachment": {
                  "@type": "Attachment",
                  "attachmentType": "taxExemptionCertificate",
                  "name": "TaxExemptionCertificate-233322.pdf",
                  "description": "Electronic version of the tax exemption
certificate",
                  "mimeType": "application/pdf",
                  "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
              }
          }
      ],
    "creditRating": [
      {
        "@type": "CreditRating",
        "creditAgencyName": "Experian",
        "creditAgencyType": "externalAgency",
        "ratingReference": "ref456",
        "ratingScore": 400,
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        }
      }
    ],
    "relatedParty": [
      {
        "role": "director",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
            "id": "54",
            "href": "https://serverRoot/tmf-api/party/v5/individual/54",
            "name": "Carlos Mafalda",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      },
      {
        "role": "employee",
        "@type": "RelatedPartyRefOrPartyRoleRef",
        "partyOrPartyRole": {
```


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```
          "id": "42",
          "href": "https://serverRoot/tmf-api/party/v5/individual/42",
          "name": "Jane Lamborgizzia",
          "@type": "PartyRef",
          "@referredType": "Individual"
        }
      }
    ],
    "contactMedium": [
      {
        "preferred": true,
        "mediumType": "email",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "EmailContactMedium",
        "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
      },
      {
        "preferred": false,
        "mediumType": "postalAddress",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower 10th Floor"
      }
    ],
    "organizationParentRelationship": {
      "@type": "OrganizationParentRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "800",
        "href": "https://serverRoot/tmf-api/party/v5/organization/800"
      }
    },
    "organizationChildRelationship": [
      {
        "@type": "OrganizationChildRelationship",
        "relationshipType": "juridical",
        "organization": {
          "@type": "OrganizationRef",
          "id": "149",
          "href": "https://serverRoot/tmf-api/party/v5/organization/149"
        }
      },
      {
        "@type": "OrganizationChildRelationship",
        "relationshipType": "juridical",
        "organization": {
          "@type": "OrganizationRef",
          "id": "150",
          "href": "https://serverRoot/tmf-api/party/v5/organization/150"
        }
      }
    ]
```


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```
}
```

Here's an example of a request for patching an Organization by adding an OrganizationIdentification using json-patch

Request

```
PATCH /organization/{id}
Content-Type: application/json-patch+json

[
  {
    "op": "add",
    "path": "/organizationIdentification/-",
    "value": {
      "@type": "OrganizationIdentification",
      "identificationType": "Business Permit",
      "identificationId": "966935345345",
      "issuingAuthority": "State of New Jersey",
      "issuingDate": "2016-01-22T09:31:52.028Z",
      "validFor": {
        "startDateTime": "2016-01-22T09:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "BusinessPermitCertificate888441.pdf",
          "description": "Scanned copy of the business permit",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/888441/BusinessPermitCertificate888441.pdf"
        }
    }
  }
]
```

Response

```
200

{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": true,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
```

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```
        "externalIdentifierType": "internetSite",
        "@type": "ExternalIdentifier"
      }
    ],
    "partyCharacteristic": [
      {
        "name": "number of employees",
        "value": 125,
        "valueType": "number",
        "@type": "IntegerCharacteristic"
      },
      {
        "name": "market segment",
        "value": "Food wholesale",
        "valueType": "string",
        "@type": "StringCharacteristic"
      }
    ],
    "otherName": [
    {
          "@type": "OtherNameOrganization",
          "nameType": "inc",
          "tradingName": "General Coffee",
          "validFor": {
            "startDateTime": "2015-10-22T08:31:52.026Z",
            "endDateTime": "2017-10-22T08:31:52.026Z"
          }
      }
    ],
    "organizationIdentification": [
      {
        "@type": "OrganizationIdentification",
        "identificationType": "commercialRegistration",
        "identificationId": "12345678",
        "issuingAuthority": "US Government",
        "issuingDate": "2015-10-22T08:31:52.028Z",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.028Z"
        },
        "attachment": {
            "@type": "Attachment",
            "attachmentType": "documentCopy",
            "name": "RegistrationCertificate421.pdf",
            "description": "Scanned copy of the registration certificate",
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
          }
      },
      {
        "identificationType": "Business Permit",
        "identificationId": "966935345345",
        "issuingAuthority": "State of New Jersey",
        "issuingDate": "2016-01-22T09:31:52.028Z",
        "validFor": {
          "startDateTime": "2016-01-22T09:31:52.028Z"
        },
        "attachment": {
            "@type": "Attachment",
            "attachmentType": "documentCopy",
            "name": "BusinessPermitCertificate888441.pdf",
            "description": "Scanned copy of the business permit",
            "mimeType": "application/pdf",
            "url": "http://DocumentManager/888441/BusinessPermitCertificate888441.pdf"
```


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```
        }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "9875755432345",
            "issuingJurisdiction": "USA",
            "reason": "Voluntary Body",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-233322.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref456",
      "ratingScore": 400,
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "director",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "54",
          "href": "https://serverRoot/tmf-api/party/v5/individual/54",
          "name": "Carlos Mafalda",
          "@type": "PartyRef",
          "@referredType": "Individual"
      }
    },
    {
      "role": "employee",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "42",
          "href": "https://serverRoot/tmf-api/party/v5/individual/42",
```


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```
            "name": "Jane Lamborgizzia",
            "@type": "PartyRef",
            "@referredType": "Individual"
        }
      }
    ],
    "contactMedium": [
      {
        "preferred": true,
        "mediumType": "email",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "EmailContactMedium",
        "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
      },
      {
        "preferred": false,
        "mediumType": "postalAddress",
        "validFor": {
          "startDateTime": "2018-10-22T08:31:52.028Z"
        },
        "@type": "GeographicAddressContactMedium",
        "city": "Morristown",
        "country": "USA",
        "postCode": "07960",
        "stateOrProvince": "New Jersey",
        "street1": "240 Headquarters Plazza",
        "street2": "East Tower 10th Floor"
      }
    ],
    "organizationParentRelationship": {
      "@type": "OrganizationParentRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "800",
        "href": "https://serverRoot/tmf-api/party/v5/organization/800"
      }
    },
    "organizationChildRelationship": [
      {
        "@type": "OrganizationChildRelationship",
        "relationshipType": "juridical",
        "organization": {
          "@type": "OrganizationRef",
          "id": "149",
          "href": "https://serverRoot/tmf-api/party/v5/organization/149"
        }
      },
      {
        "@type": "OrganizationChildRelationship",
        "relationshipType": "juridical",
        "organization": {
          "@type": "OrganizationRef",
          "id": "150",
          "href": "https://serverRoot/tmf-api/party/v5/organization/150"
        }
      }
    ]
  }
```


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Here's an example of a request for patching an Organization by updating a characteristic value using json-patch query

Request

```
PATCH /organization/{id}
Content-Type: application/json-patch-query+json

[
  {
    "op": "replace",
    "path": "/partyCharacteristic/value?/partyCharacteristic/name=market segment",
    "value": "Food retail"
  }
]
```

Response

```
200

{
  "id": "128",
  "href": "https://serverRoot/tmf-api/party/v5/organization/128",
  "@type": "Organization",
  "@baseType": "Party",
  "isLegalEntity": true,
  "isHeadOffice": true,
  "organizationType": "company",
  "existsDuring": {
    "startDateTime": "2015-10-22T08:31:52.026Z"
  },
  "name": "Coffee Do Brazil",
  "tradingName": "Coffee Do Brazil Fair Trade",
  "nameType": "inc",
  "status": "validated",
  "externalReference": [
    {
      "name": "http://coffeedobrazil.com",
      "externalIdentifierType": "internetSite",
      "@type": "ExternalIdentifier"
    }
  ],
  "partyCharacteristic": [
    {
      "name": "number of employees",
      "value": 125,
      "valueType": "number",
      "@type": "IntegerCharacteristic"
    },
    {
      "name": "market segment",
      "value": "Food retail",
      "valueType": "string",
      "@type": "StringCharacteristic"
    }
  ],
  "otherName": [
  {
```

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```
        "@type": "OtherNameOrganization",
        "nameType": "inc",
        "tradingName": "General Coffee",
        "validFor": {
          "startDateTime": "2015-10-22T08:31:52.026Z",
          "endDateTime": "2017-10-22T08:31:52.026Z"
        }
    }
  ],
  "organizationIdentification": [
    {
      "@type": "OrganizationIdentification",
      "identificationType": "commercialRegistration",
      "identificationId": "12345678",
      "issuingAuthority": "US Government",
      "issuingDate": "2015-10-22T08:31:52.028Z",
      "validFor": {
        "startDateTime": "2015-10-22T08:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "RegistrationCertificate421.pdf",
          "description": "Scanned copy of the registration certificate",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/421/RegistrationCertificate421.pdf"
        }
    },
    {
      "identificationType": "Business Permit",
      "identificationId": "966935345345",
      "issuingAuthority": "State of New Jersey",
      "issuingDate": "2016-01-22T09:31:52.028Z",
      "validFor": {
        "startDateTime": "2016-01-22T09:31:52.028Z"
      },
      "attachment": {
          "@type": "Attachment",
          "attachmentType": "documentCopy",
          "name": "BusinessPermitCertificate888441.pdf",
          "description": "Scanned copy of the business permit",
          "mimeType": "application/pdf",
          "url": "http://DocumentManager/888441/BusinessPermitCertificate888441.pdf"
        }
    }
  ],
    "taxExemptionCertificate": [
        {
            "@type": "TaxExemptionCertificate",
            "id": "1",
            "validFor": {
                "startDateTime": "2018-10-22T07:49:25.246Z"
            },
            "certificateNumber": "9875755432345",
            "issuingJurisdiction": "USA",
            "reason": "Voluntary Body",
            "taxDefinition": [
                {
                    "@type": "TaxDefinitionRef",
                    "id": "96",
                    "name": "Value Added Tax",
                    "taxType": "federalVat"
                }
```


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```
            ],
            "attachment": {
                "@type": "Attachment",
                "attachmentType": "taxExemptionCertificate",
                "name": "TaxExemptionCertificate-233322.pdf",
                "description": "Electronic version of the tax exemption
certificate",
                "mimeType": "application/pdf",
                "url":
"https://mycsp.com:8080/DocumentManager/666/TaxExemptionCertificate-233322.pdf"
            }
        }
    ],
  "creditRating": [
    {
      "@type": "CreditRating",
      "creditAgencyName": "Experian",
      "creditAgencyType": "externalAgency",
      "ratingReference": "ref456",
      "ratingScore": 400,
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      }
    }
  ],
  "relatedParty": [
    {
      "role": "director",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "54",
          "href": "https://serverRoot/tmf-api/party/v5/individual/54",
          "name": "Carlos Mafalda",
          "@type": "PartyRef",
          "@referredType": "Individual"
      }
    },
    {
      "role": "employee",
      "@type": "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole": {
          "id": "42",
          "href": "https://serverRoot/tmf-api/party/v5/individual/42",
          "name": "Jane Lamborgizzia",
          "@type": "PartyRef",
          "@referredType": "Individual"
      }
    }
  ],
  "contactMedium": [
    {
      "preferred": true,
      "mediumType": "email",
      "validFor": {
        "startDateTime": "2018-10-22T08:31:52.028Z"
      },
      "@type": "EmailContactMedium",
      "emailAddress": "jane.lamborgizzia@coffeedobrazil.com"
    },
    {
      "preferred": false,
      "mediumType": "postalAddress",
      "validFor": {
```


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```
        "startDateTime": "2018-10-22T08:31:52.028Z"
      },
      "@type": "GeographicAddressContactMedium",
      "city": "Morristown",
      "country": "USA",
      "postCode": "07960",
      "stateOrProvince": "New Jersey",
      "street1": "240 Headquarters Plazza",
      "street2": "East Tower 10th Floor"
    }
  ],
  "organizationParentRelationship": {
    "@type": "OrganizationParentRelationship",
    "relationshipType": "juridical",
    "organization": {
      "@type": "OrganizationRef",
      "id": "800",
      "href": "https://serverRoot/tmf-api/party/v5/organization/800"
    }
  },
  "organizationChildRelationship": [
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "149",
        "href": "https://serverRoot/tmf-api/party/v5/organization/149"
      }
    },
    {
      "@type": "OrganizationChildRelationship",
      "relationshipType": "juridical",
      "organization": {
        "@type": "OrganizationRef",
        "id": "150",
        "href": "https://serverRoot/tmf-api/party/v5/organization/150"
      }
    }
  ]
}
```


Deletes a Organization

`DELETE /organization/{id}`

Description

This operation deletes an Organization entity.

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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":""
}
```

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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

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```
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.

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Acknowledgements

VERSION History

Release Number	Date	Release led by:	Description
Release 1.0.0	09/06/2017	Sophie Bouleau Orange sophie.bouleau@orange.com	First Release of the Document.
Release 4.0.0	06/05/2019	Sophie Bouleau Orange sophie.bouleau@orange.com	Schema-driven API with polymorphism pattern Following Jira have been integrated: • AP-1016 • AP-1017 • AP-1195 • AP-1282 *Note: the version 4.0 is assigned to all the APIs delivered in the release 19.0*

Release History

Release Number	Date	Release led by:	Description
Release 14.5	09/06/2017	Sophie Bouleau Orange sophie.bouleau@orange.com	Version 1.0 of the API REST
Release 19.0	06/05/2019	Sophie Bouleau Orange sophie.bouleau@orange.com	Version 4.0 of the API REST *Nota: the version 4.0 is assigned to all the APIs delivered in the release 19.0*

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