Party Management

NOTICE

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Introduction

The following document is the specification of the Async 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:
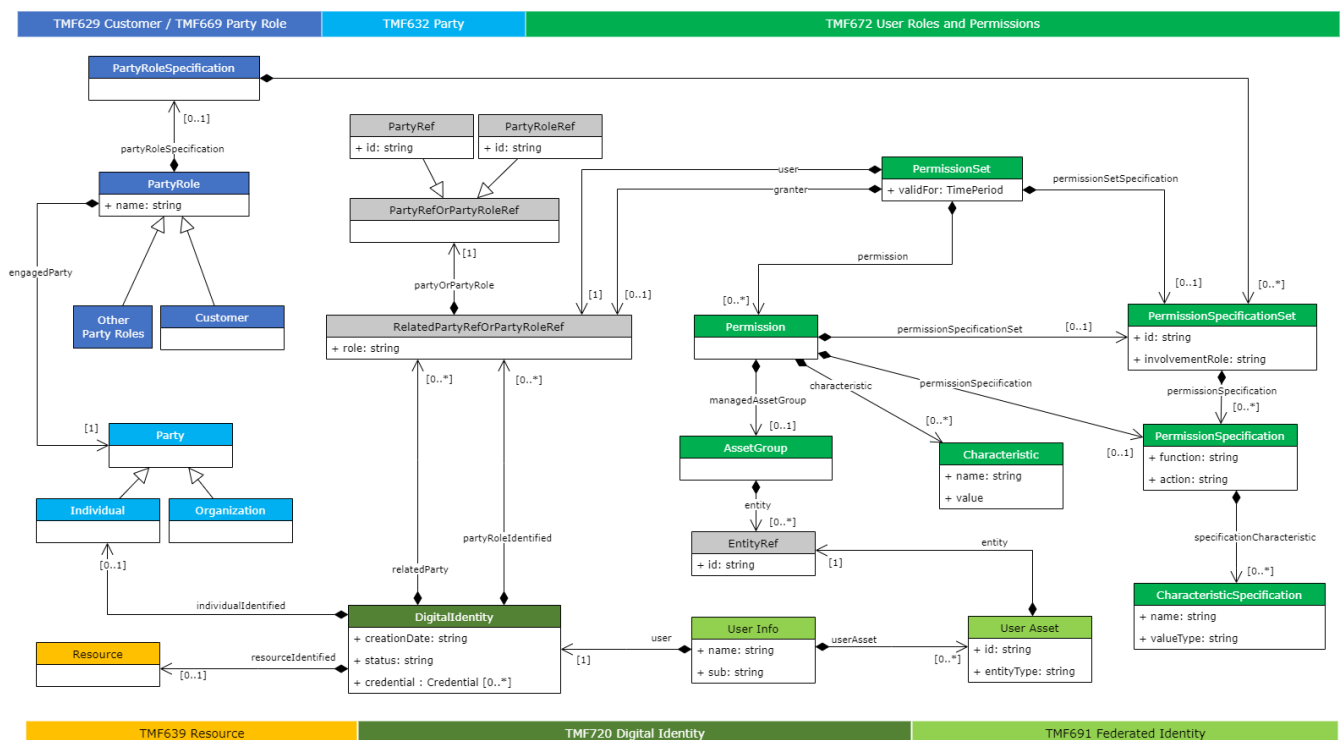
The Party API manages the following data resources:

Individual

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

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

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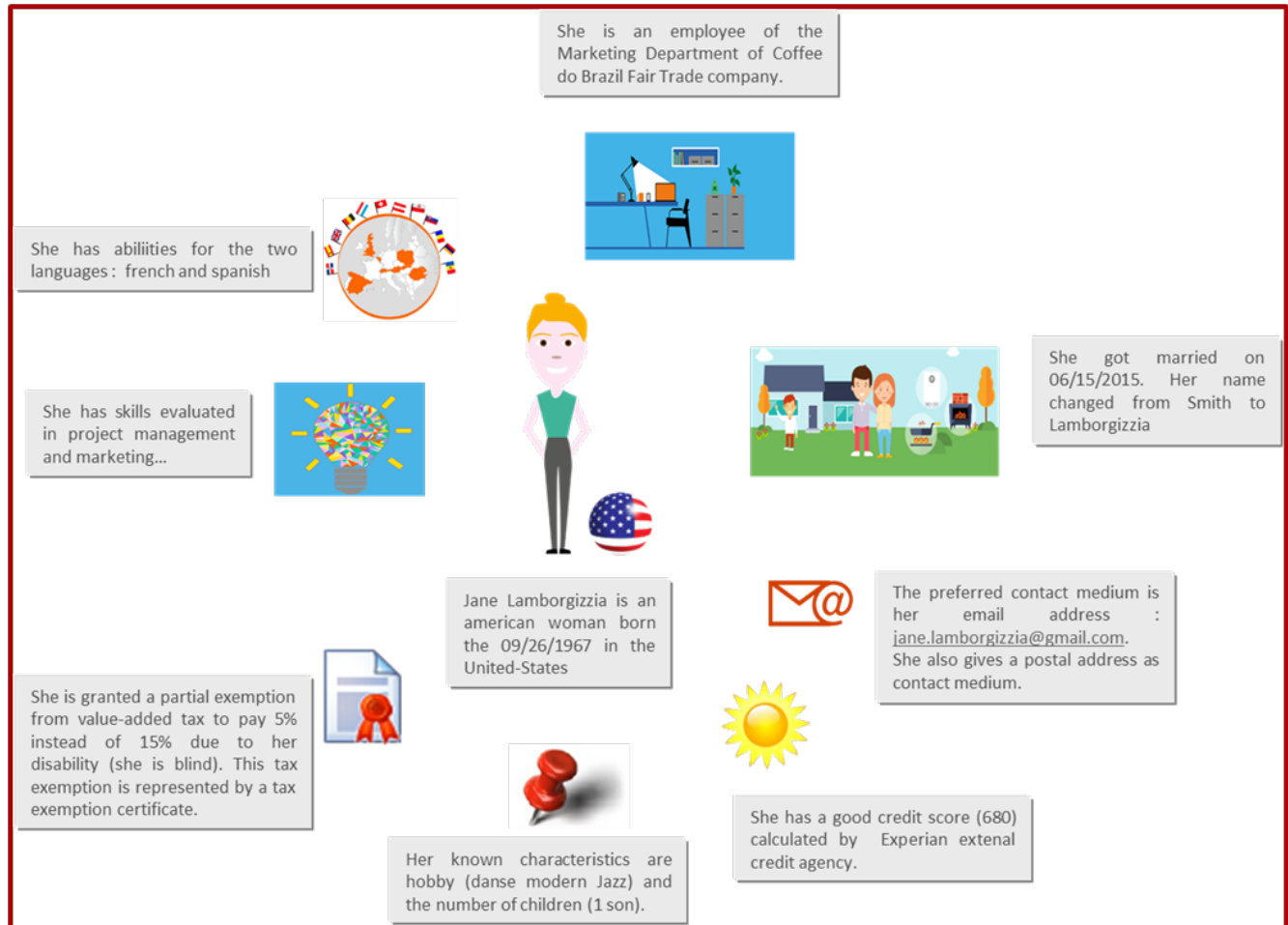
Use case 2 (UC2): a company (organization) with two departments (organizations)

The company is granted a total exemption from value-added tax due to the invests in Fair Trade practices. This tax exemption is represented by a tax exemption certificate.

She has a credit score (400) calculated by Experian extenal credit agency.

The Director of the company is Carlos Mafalda.

The preferred contact medium is the email address of Jane lamborgizzia working at the marketing department : jane.lamborgizzia@coffeedobrazil. com.
A postal address can also be used as contact medium.

The known characteristics are the number of employees (125) and the market segment (Food wholesale) .

Coffee Do Brazil Fair Trade company (named before General Coffee) created in 2015. The company has two departments.
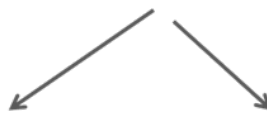
Marketing Department

Operations department

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.

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

Party

contactMedium : ContactMedium [0..*]
creditRating : PartyCreditProfile [0..*]
externalReference : ExternalIdentifier [0..*]
href : String
id : String
partyCharacteristic : Characteristic [0..*]
relatedParty : RelatedPartyOrPartyRole [0..*]
taxExemptionCertificate : TaxExemptionCertificate [0..*]
topicRef : String
@baseType : String
@schemaLocation : String
@type : String (1)

discriminator:
Party
Organization
Individual

Individual

aristocraticTitle : String
birthDate : DateTime
countryOfBirth : String
deathDate : DateTime
familyName : String
familyNamePrefix : String
formattedName : String
gender : String
generation : String
givenName : String
legalName : String
location : String
maritalStatus : String
middleName : String
name : String
nationality : String
placeOfBirth : String
preferredGivenName : String
status : IndividualStateType
title : String
@type = Individual

Disability

disabilityCode : String
disabilityName : String
validFor : TimePeriod

0..* disability

«Enumeration»
IndividualStateType

deceased
validated
initialized

Skill

comment : String
evaluatedLevel : String
skillCode : String
skillName : String
validFor : TimePeriod

0..* skill

LanguageAbility

isFavouriteLanguage : Boolean
languageCode : String
languageName : String
listeningProficiency : String
readingProficiency : String
speakingProficiency : String
validFor : TimePeriod
writingProficiency : String

0..* languageAbility

IndividualIdentification

identificationId : String
identificationType : String
issuingAuthority : String
issuingDate : DateTime
validFor : TimePeriod
@baseType : String
@schemaLocation : String
@type : String (1)

0..* individualIdentification

OtherNameIndividual

aristocraticTitle : String
familyName : String
familyNamePrefix : String
formattedName : String
fullName : String
generation : String
givenName : String
legalName : String
middleName : String
preferredGivenName : String
title : String
validFor : TimePeriod

0..* otherName

AttachmentRefOrValue

discriminator:
Attachment
AttachmentRef

0..1 attachment

Attachment

attachmentType : String
content : Base64
description : String
href : String
id : String
mimeType : String
name : String
size : Quantity
topicRef : String
url : String
validFor : TimePeriod
@baseType : String
@schemaLocation : String
@type = Attachment

AttachmentRef

description : String
href : String
id : String
name : String
topicRef : String
url : String
@baseType : String
@referredType : String
@schemaLocation : String
@type = AttachmentRef

Color	Description
	Resource (entry point)
	Sub–resource
	Sub–resource (reference entity)
	Sub–resource with details in separate diagram
	Enumeration

(1) : Mandatory property

Figure 1 - Individual

Field descriptions

Individual fields

aristocraticTitle	A String. E.g. Baron, Graf, Earl.
birthDate	A DateTime. Birth date.
countryOfBirth	A String. Country where the individual was born.
deathDate	A DateTime. Date of death.
disability	A Disability. Lack or inadequate strength or ability.
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).
givenName	A String. First name of the individual.
individualIdentification	An IndividualIdentification. Represents our registration of information used as proof of identity by an individual (passport, national identity card, drivers license, social security number, birth certificate).
languageAbility	A LanguageAbility. Ability of an individual to understand or converse in a language.
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. Keeps track of other names, for example the old name of a woman before marriage or an artist name.
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.
skill	A Skill. Skills evaluated for an individual with a level and possibly with a limited validity when an obsolescence is defined (Ex: the first-aid certificate first level is limited to one year and an update training is required each year to keep the level).
status	An IndividualStateType. Valid values for the lifecycle state of the individual.
title	A String. Useful for titles (aristocratic, social,...) Pr, Dr, Sir, ...
@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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
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.

BooleanArrayCharacteristic sub-resource fields

value	A Boolean. A characteristic which value is an array of Boolean(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

BooleanCharacteristic sub-resource fields

value	A Boolean. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

Characteristic sub-resource fields

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

CharacteristicRelationship sub-resource fields

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

ContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a 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

emailAddress	A String. Full email address in standard format.
@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

faxNumber	A String. The fax number of the contact.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatCharacteristic sub-resource fields

value	A Float. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
postCode	A String. Postcode.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
@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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
@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.

IntegerArrayCharacteristic sub-resource fields

value	An Integer. A characteristic which value is an array of Integer(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

value	An Integer. Value of the characteristic.
@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.

NumberArrayCharacteristic sub-resource fields

value	A Number. A characteristic which value is an array of Number(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

value	A Number. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

value	An object. Collection of characteristic values.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectCharacteristic sub-resource fields

value	An object. Value of the characteristic.
@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 (aristrocatic, 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. Indicates the contact medium that could be used to contact the party. This is an abstract base class, the actual value is in one of the strongly-typed subclasses : EmailContactMedium, FaxContactMedium, PhoneContactMedium, GeographicAddressContactMedium, SocialMediaContactMedium...
creditRating	A PartyCreditProfile. An individual might be evaluated for its worthiness and this evaluation might be based on a credit rating given by a credit agency.
externalReference	An ExternalIdentifier. An identification of an entity that is owned by or originates in a software system different from the current system, for example a ProductOrder handed off from a commerce platform into an order handling system. The structure identifies the system itself, the nature of the entity within the system (e.g. class name) and the unique ID of the entity within the system. It is anticipated that multiple external IDs can be held for a single entity, e.g. if the entity passed through multiple systems on the way to the current system. In this case the consumer is expected to sequence the IDs in the array in reverse order of provenance, i.e. most recent system first in the list.
href	A String. Hyperlink reference.
id	A String. Unique identifier.

partyCharacteristic	A Characteristic. Describes a given characteristic of an object or entity through a name/value pair. This is an abstract base class, the actual value is in one of the strongly-typed subclasses : StringCharacteristic, ObjectCharacteristic, FloatCharacteristic, BooleanCharacteristic, NumberCharacteristic, IntegerCharacteristic, StringArrayCharacteristic, ObjectArrayCharacteristic, BooleanArrayCharacteristic, NumberArrayCharacteristic, IntegerArrayCharacteristic...
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
taxExemptionCertificate	A TaxExemptionCertificate. A tax exemption certificate represents a tax exemption granted to a party (individual or organization) by a tax jurisdiction which may be a city, state, country,... An exemption has a certificate identifier (received from the jurisdiction that levied the tax) and a validity period. An exemption is per tax types and determines for each type of tax what portion of the tax is exempted (partial by percentage or complete) via the tax definition.
topicRef	A String. A reference to the topic from which this entity can be fetched.
@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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
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

phoneNumber	A String. The phone number of the contact.
@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

socialNetworkId	A String. Identifier as a member of a social network.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

value	A String. Collection of string characteristics.

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

StringCharacteristic sub-resource fields

value	A String. Value of the characteristic.
@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. Reference of a tax definition. A tax is levied by an authorized tax jurisdiction. For example, there are many different types of tax (Federal Tax levied by the US Government, State Tax levied by the State of California, City Tax levied by the City of Los Angeles, etc.).

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",
    "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",
                    "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",
      "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": {
        "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.
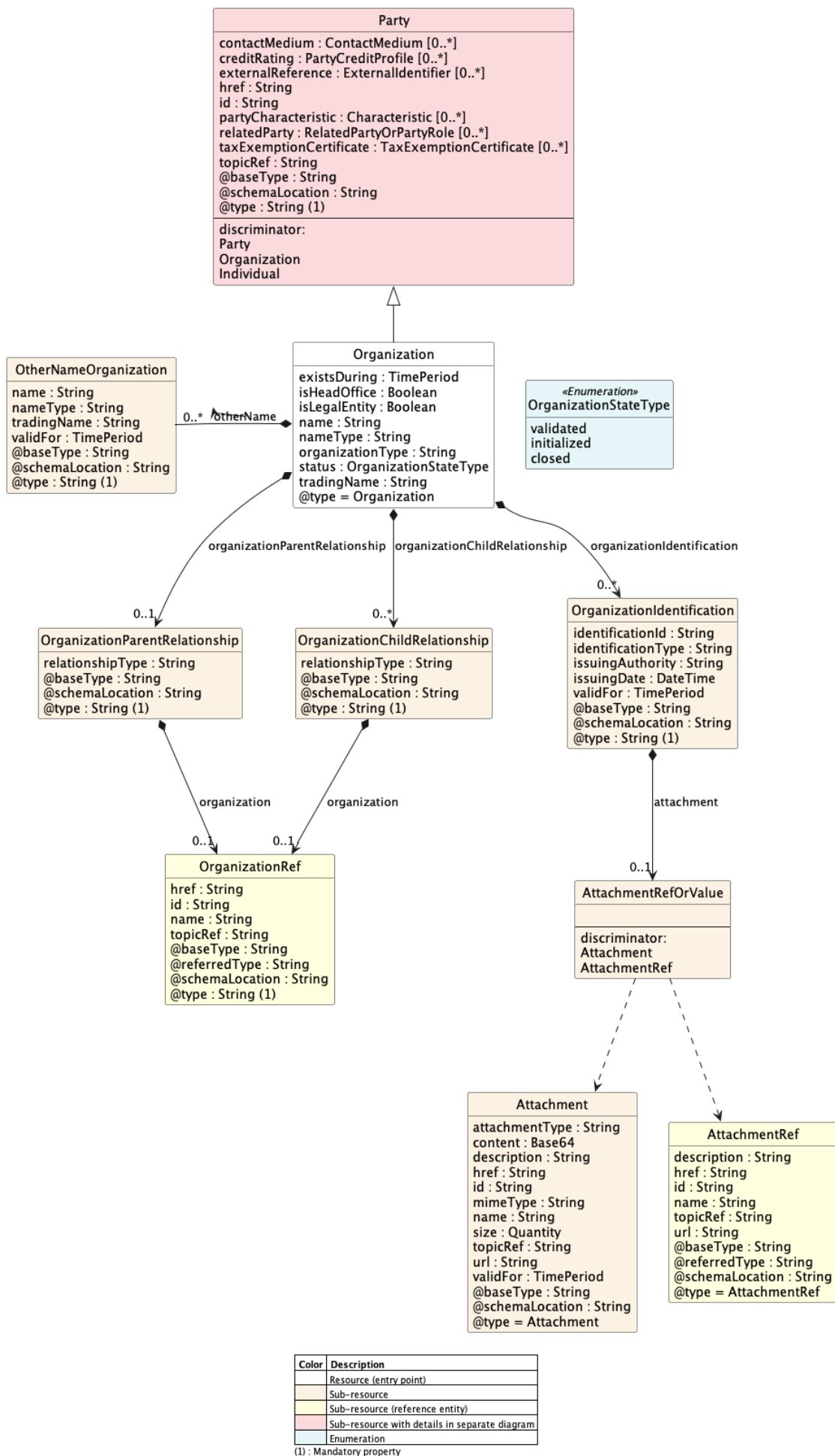
Resource model

Figure 2 - Organization

Field descriptions

Organization fields

existsDuring	A TimePeriod. A period of time, either as a deadline (endDateTime only) a startDateTime only, or both.
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. Child references of an organization in a structure of organizations.
organizationIdentification	An OrganizationIdentification. Represents our registration of information used as proof of identity by an organization.
organizationParentRelationship	An OrganizationParentRelationship. Parent references of an organization in a structure of organizations.
organizationType	A String. Type of Organization (company, department...).
otherName	An OtherNameOrganization. Keeps track of other names, for example the old name of an organization.
status	An OrganizationStateType. Valid values for the lifecycle state of the organization.
tradingName	A String. Name that the organization (unit) trades under.
@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.

topicRef	A String. A reference to the topic from which this entity can be fetched.
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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
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.

BooleanArrayCharacteristic sub-resource fields

value	A Boolean. A characteristic which value is an array of Boolean(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

BooleanCharacteristic sub-resource fields

value	A Boolean. Value of the characteristic.

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

Characteristic sub-resource fields

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

CharacteristicRelationship sub-resource fields

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

ContactMedium sub-resource fields

contactType	A String. Type of the contact medium to qualify it like pro email / personal email. This is not used to define the contact medium used.
id	A String. Identifier for this contact medium.
preferred	A Boolean. If true, indicates that is the preferred contact medium.
validFor	A TimePeriod. A period of time, either as a deadline (endDateTime only) a 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

emailAddress	A String. Full email address in standard format.
@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

faxNumber	A String. The fax number of the contact.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

FloatCharacteristic sub-resource fields

value	A Float. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

GeographicAddressContactMedium sub-resource fields

city	A String. The city.
country	A String. The country.
geographicAddress	A GeographicAddressRef. Reference to a Geographic Address.
postCode	A String. Postcode.
stateOrProvince	A String. State or province.
street1	A String. Describes the street.
street2	A String. Complementary street description.
@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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
@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

value	An Integer. A characteristic which value is an array of Integer(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

IntegerCharacteristic sub-resource fields

value	An Integer. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberArrayCharacteristic sub-resource fields

value	A Number. A characteristic which value is an array of Number(s).
@type	A String. When sub-classing, this defines the sub-class Extensible name.

NumberCharacteristic sub-resource fields

value	A Number. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

ObjectArrayCharacteristic sub-resource fields

value	An object. Collection of characteristic values.

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

ObjectCharacteristic sub-resource fields

value	An object. Value of the characteristic.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

OrganizationChildRelationship 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.

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.
name	A String. Name of the referred entity.
topicRef	A String. A reference to the topic from which this entity can be fetched.
@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. Indicates the contact medium that could be used to contact the party. This is an abstract base class, the actual value is in one of the strongly-typed subclasses : EmailContactMedium, FaxContactMedium, PhoneContactMedium, GeographicAddressContactMedium, SocialMediaContactMedium...
creditRating	A PartyCreditProfile. An individual might be evaluated for its worthiness and this evaluation might be based on a credit rating given by a credit agency.
externalReference	An ExternalIdentifier. An identification of an entity that is owned by or originates in a software system different from the current system, for example a ProductOrder handed off from a commerce platform into an order handling system. The structure identifies the system itself, the nature of the entity within the system (e.g. class name) and the unique ID of the entity within the system. It is anticipated that multiple external IDs can be held for a single entity, e.g. if the entity passed through multiple systems on the way to the current system. In this case the consumer is expected to sequence the IDs in the array in reverse order of provenance, i.e. most recent system first in the list.
href	A String. Hyperlink reference.
id	A String. Unique identifier.
partyCharacteristic	A Characteristic. Describes a given characteristic of an object or entity through a name/value pair. This is an abstract base class, the actual value is in one of the strongly-typed subclasses : StringCharacteristic, ObjectCharacteristic, FloatCharacteristic, BooleanCharacteristic, NumberCharacteristic, IntegerCharacteristic, StringArrayCharacteristic, ObjectArrayCharacteristic, BooleanArrayCharacteristic, NumberArrayCharacteristic, IntegerArrayCharacteristic...
relatedParty	A RelatedPartyOrPartyRole. RelatedParty reference. A related party defines party or party role or its reference, linked to a specific entity.
taxExemptionCertificate	A TaxExemptionCertificate. A tax exemption certificate represents a tax exemption granted to a party (individual or organization) by a tax jurisdiction which may be a city, state, country,... An exemption has a certificate identifier (received from the jurisdiction that levied the tax) and a validity period. An exemption is per tax types and determines for each type of tax what portion of the tax is exempted (partial by percentage or complete) via the tax definition.
topicRef	A String. A reference to the topic from which this entity can be fetched.

@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.
topicRef	A String. A reference to the topic from which this entity can be fetched.
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

phoneNumber	A String. The phone number of the contact.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

RelatedPartyOrPartyRole sub-resource fields

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

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

SocialContactMedium sub-resource fields

socialNetworkId	A String. Identifier as a member of a social network.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringArrayCharacteristic sub-resource fields

value	A String. Collection of string characteristics.
@type	A String. When sub-classing, this defines the sub-class Extensible name.

StringCharacteristic sub-resource fields

value	A String. Value of the characteristic.
@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. Reference of a tax definition. A tax is levied by an authorized tax jurisdiction. For example, there are many different types of tax (Federal Tax levied by the US Government, State Tax levied by the State of California, City Tax levied by the City of Los Angeles, etc.).
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 '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",
          "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": {
                    "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"
      }
    },
    {
```

```
      "@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 Create Event

- Individual Delete Event

- Individual Attribute Value Change Event

- Individual State Change Event

Notifications related to Organization:

- Organization Create Event

- Organization Delete Event

- Organization Attribute Value Change Event

- Organization State Change Event

The notification structure for all notifications in this API follow the pattern depicted by the figure below. A notification event resource (depicted by "SpecificEvent" placeholder) is a sub class of a generic Event structure containing at least an id of the event occurrence (eventId), an event timestamp (eventTime), and the name of the resource (eventType). This notification structure owns an event payload structure ("SpecificEventPayload" placeholder) linked to the resource concerned by the notification using the resource name as access field ("resourceName" placeholder).
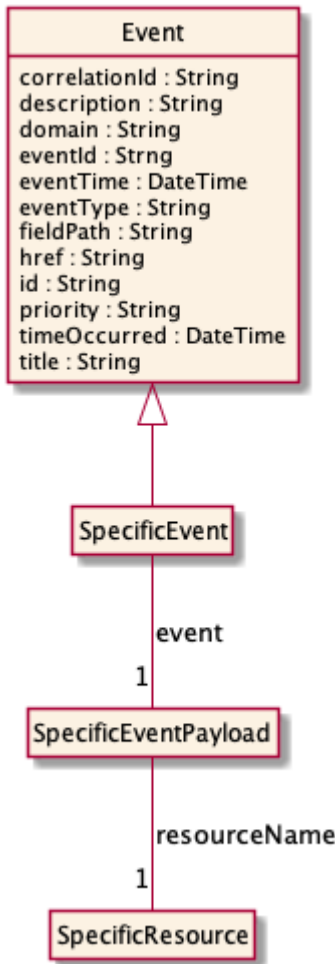
Figure 3 Notification Pattern

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",
```

```json
        "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"
            },
            {
                "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",
                      "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"
```

```json
          }
        }
      ],
      "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": [
      {
        "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"
          }
        }
      ]
    }
  },
  "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 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": {
    "id": "868",
```

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

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"
}
```

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"
}
```

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",
  "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": {
              "@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"
                }
            },
            {
                "role": "employee",
                "@type": "RelatedPartyRefOrPartyRoleRef",
                "partyOrPartyRole": {
                    "id": "42",
                    "href": "https://serverRoot/tmf-api/party/v5/individual/42",
                    "name": "Jane Lamborgizzia",
                    "@type": "PartyRef",
                    "@referredType": "Individual"
                }
            }
        ],
        "contactMedium": [
            {
```

```json
          "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"
            }
          }
```

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

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": {
    "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"
  },
  "@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"
}
```

API OPERATIONS

Every operation consists of two parts:

- REQUEST: Publish a message on a 'commandRequest' channel.
- RESPONSE: Subscribe to the corresponding 'commandReply' channel to receive the response.

Remember the following Async Uniform Contract:

Operation on Entities	Uniform Async API Operation	Description
Query One Entity	retrieveResource	retrieve must be used to retrieve a representation of a resource.
Query Entities	listResource	list must be used to retrieve a list of resources.
Create Entity	createResource	create must be used to create a new resource
Partial Update of an Entity	patchResource	patch must be used to partially update a resource
Remove an Entity	deleteResource	delete must be used to remove a resource

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

Notifications are also described in a subsequent section.

Operations on Individual

Retrieves a Individual by ID

Request topic: {prefix}.partyManagement.v5.retrieveIndividual.commandRequest

Reply topic: {prefix}.partyManagement.v5.retrieveIndividual.commandReply

Description

This operation retrieves a 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

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.retrieveIndividual.commandReply
```

```
Parameters: {
    "id": 42
}
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.retrieveIndividual.commandRequest
```

Response Payload

```
{
  "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",
```

```json
      "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.document.v5.retrieveAttachment.commandRequest"
      }
    } ],
    "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.document.v5.retrieveAttachment.commandRequest"
    }
  } ],
  "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  } ],
  "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",
    "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"
    }
  } ],
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
}
```

List or find Individual objects

Request topic: {prefix}.partyManagement.v5.listIndividual.commandRequest

Reply topic: {prefix}.partyManagement.v5.listIndividual.commandReply

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 Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.listIndividual.commandReply
```

Request message header

```
{
    "Parameters": {
        "filtering": "status=validated&creditRating.ratingScore=700",
        "fields": "id,familyName,givenName"
    }
}
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.listIndividual.commandRequest
```

Response Payload

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

```
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
}, {
  "id" : "52",
  "href" : "https://serverRoot/tmf-api/party/v5/individual/52",
  "@type" : "Individual",
  "@baseType" : "Party",
  "givenName" : "Paul",
  "familyName" : "Newman",
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
} ]
```

Creates a Individual

Request topic: {prefix}.partyManagement.v5.createIndividual.commandRequest

Reply topic: {prefix}.partyManagement.v5.createIndividual.commandReply

Description

This operation creates a Individual entity.

Mandatory Attributes

Mandatory Attributes	Rule
givenName	
familyName	

Usage samples

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

Request Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.createIndividual.commandReply
```

Request Payload

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

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 201
X-Request-Channel: {prefix}.partyManagement.v5.createIndividual.commandRequest
```

Response Payload

```
{
  "id" : "42",
  "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
  "@type" : "Individual",
  "@baseType" : "Party",
  "givenName" : "Jane",
  "familyName" : "Lamborgizzia",
  "status" : "initialized",
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
}
```

Updates partially a Individual

Request topic: {prefix}.partyManagement.v5.patchIndividual.commandRequest

Reply topic: {prefix}.partyManagement.v5.patchIndividual.commandReply

Description

This operation allows partial updates of a 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 createIndividual operation applies to the patchIndividual operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

Non Patchable Attributes	Rule

Patchable Attributes	Rule
aristocraticTitle	
birthDate	
contactMedium	
countryOfBirth	
creditRating	

Patchable Attributes	Rule
deathDate	
disability	
externalReference	
familyName	
familyNamePrefix	
formattedName	
gender	
generation	
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

This example uses the PatchIndividualMergePatchRequest request message (used for a payload of type application/merge-patch+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchIndividual.commandReply
Parameters: {
    "id": 42
}
```

Request Payload

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

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchIndividual.commandRequest
```

Response Payload

```
{
  "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",
    "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",
      "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",
          "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
        }
      } ],
      "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",
        "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"
      }
    } ],
    "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
  }
```

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

This example uses the PatchIndividualJsonRequest request message (used for a payload of type application/json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchIndividual.commandReply
Parameters: {
    "id": 42
}
```

Request Payload

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

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchIndividual.commandRequest
```

Response Payload

```
{
  "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",
```

```json
    "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" : {
        "@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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
```

```
    } ],
    "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",
      "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"
      }
    } ],
    "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
}
```

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

This example uses the PatchIndividualJsonPatchRequest request message (used for a payload of type application/json-patch+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchIndividual.commandReply
Parameters: {
    "id": 42
}
```

Request Payload

```
[ {
  "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 Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchIndividual.commandRequest
```

Response Payload

```
{
  "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"
    }, {
      "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",
      "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  } ],
  "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",
      "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"
```

```
      }
   } ],
   "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
   }
```

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

This example uses the PatchIndividualPatchQueryRequest request message (used for a payload of type application/json-patch-query+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchIndividual.commandReply
Parameters: {
    "id": 42
}
```

Request Payload

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

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchIndividual.commandRequest
```

Response Payload

```
{
  "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"
    }, {
      "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",
```

```json
        "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
```

```
      } ],
      "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",
      "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"
      }
    } ],
    "topicRef" :
  "kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
  }
```

Deletes a Individual

Request topic: {prefix}.partyManagement.v5.deleteIndividual.commandRequest

Reply topic: {prefix}.partyManagement.v5.deleteIndividual.commandReply

Description

This operation deletes a Individual entity.

Usage samples

This operation deletes a Individual resource.

Request

```
DELETE /individual/42
```

Response

```
204
```

Operations on Organization

Retrieves a Organization by ID

Request topic: {prefix}.partyManagement.v5.retrieveOrganization.commandRequest

Reply topic: {prefix}.partyManagement.v5.retrieveOrganization.commandReply

Description

This operation retrieves a Organization 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

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.retrieveOrganization.commandReply
Parameters: {
    "id": 128
}
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.retrieveOrganization.commandRequest
```

Response Payload

```
{
  "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" : {
        "@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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
    }
  }, {
    "role" : "employee",
    "@type" : "RelatedPartyRefOrPartyRoleRef",
    "partyOrPartyRole" : {
      "id" : "42",
      "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
      "name" : "Jane Lamborgizzia",
      "@type" : "PartyRef",
      "@referredType" : "Individual",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
    }
  } ],
```

```
  "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  },
  "organizationChildRelationship" : [ {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "149",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/149",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  }, {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "150",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/150",
      "topicRef" :
```

```
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
  } ],
    "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
}
```

List or find Organization objects

Request topic: {prefix}.partyManagement.v5.listOrganization.commandRequest

Reply topic: {prefix}.partyManagement.v5.listOrganization.commandReply

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 Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.listOrganization.commandReply
```

Request message header

```
{
    "Parameters": {
        "filtering": "status=validated&creditRating.ratingScore=700&",
        "fields": "id,name"
    }
}
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.listOrganization.commandRequest
```

Response Payload

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

Creates a Organization

Request topic: {prefix}.partyManagement.v5.createOrganization.commandRequest

Reply topic: {prefix}.partyManagement.v5.createOrganization.commandReply

Description

This operation creates a Organization entity.

Mandatory Attributes

Mandatory Attributes	Rule
name	

Usage samples

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

Request Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.createOrganization.commandReply
```

Request Payload

```
{
  "@type" : "Organization",
  "@baseType" : "Party",
```

```
    "name" : "Coffee Do Brazil"
  }
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 201
X-Request-Channel: {prefix}.partyManagement.v5.createOrganization.commandRequest
```

Response Payload

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

Updates partially a Organization

Request topic: {prefix}.partyManagement.v5.patchOrganization.commandRequest

Reply topic: {prefix}.partyManagement.v5.patchOrganization.commandReply

Description

This operation allows partial updates of a 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 createOrganization operation applies to the patchOrganization operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

Non Patchable Attributes	Rule
href	
id	

Patchable Attributes	Rule
contactMedium	

Patchable Attributes	Rule
creditRating	
existsDuring	
externalReference	
isHeadOffice	
isLegalEntity	
name	
nameType	
organizationChildRelationship	
organizationIdentification	
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

This example uses the PatchOrganizationMergePatchRequest request message (used for a payload of type application/merge-patch+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchOrganization.commandReply
Parameters: {
    "id": 128
}
```

Request Payload

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

```
    }
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchOrganization.commandRequest
```

Response Payload

```
{
  "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",
      "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    }, {
      "role" : "employee",
      "@type" : "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole" : {
        "id" : "42",
        "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
        "name" : "Jane Lamborgizzia",
        "@type" : "PartyRef",
        "@referredType" : "Individual",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    } ],
    "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  },
  "organizationChildRelationship" : [ {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "149",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/149",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  }, {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "150",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/150",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  } ],
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
}
```

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

This example uses the PatchOrganizationMergePatchRequest request message (used for a payload of type application/merge-patch+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchOrganization.commandReply
Parameters: {
    "id": 128
}
```

Request Payload

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

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchOrganization.commandRequest
```

Response Payload

```
{
  "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",
        "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
    }
  }, {
    "role" : "employee",
    "@type" : "RelatedPartyRefOrPartyRoleRef",
    "partyOrPartyRole" : {
      "id" : "42",
      "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
      "name" : "Jane Lamborgizzia",
      "@type" : "PartyRef",
      "@referredType" : "Individual",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
    }
  } ],
  "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  },
  "organizationChildRelationship" : [ {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "149",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/149",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  }, {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "150",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/150",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  } ],
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
}
```

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

This example uses the PatchOrganizationJsonPatchRequest request message (used for a payload of type application/json-patch+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
```

```
Reply-Channel: {prefix}.partyManagement.v5.patchOrganization.commandReply
Parameters: {
    "id": 128
}
```

Request Payload

```
[ {
  "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 Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchOrganization.commandRequest
```

Response Payload

```
{
  "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" : {
        "@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"
      } ],
      "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    }, {
      "role" : "employee",
      "@type" : "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole" : {
        "id" : "42",
        "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
        "name" : "Jane Lamborgizzia",
        "@type" : "PartyRef",
        "@referredType" : "Individual",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    } ],
    "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",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  },
  "organizationChildRelationship" : [ {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "149",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/149",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  }, {
    "@type" : "OrganizationChildRelationship",
    "relationshipType" : "juridical",
    "organization" : {
      "@type" : "OrganizationRef",
      "id" : "150",
      "href" : "https://serverRoot/tmf-api/party/v5/organization/150",
      "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
    }
  } ],
  "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
}
```

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

This example uses the PatchOrganizationPatchQueryRequest request message (used for a payload of type application/json-patch-query+json).

Request message header

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Reply-Channel: {prefix}.partyManagement.v5.patchOrganization.commandReply
Parameters: {
    "id": 128
}
```

Request Payload

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

```
    "value" : "Food retail"
} ]
```

Response Headers

```
X-Correlation-Id: 4226B739-1DD2-4B43-A393-5E6F05CEF169
Status-Code: 200
X-Request-Channel: {prefix}.partyManagement.v5.patchOrganization.commandRequest
```

Response Payload

```
{
  "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" : [ {
    "@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"
      } ],
```

```
      "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    }, {
      "role" : "employee",
      "@type" : "RelatedPartyRefOrPartyRoleRef",
      "partyOrPartyRole" : {
        "id" : "42",
        "href" : "https://serverRoot/tmf-api/party/v5/individual/42",
        "name" : "Jane Lamborgizzia",
        "@type" : "PartyRef",
        "@referredType" : "Individual",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveIndividual.commandRequest"
      }
    } ],
  "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",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
    },
    "organizationChildRelationship" : [ {
      "@type" : "OrganizationChildRelationship",
      "relationshipType" : "juridical",
      "organization" : {
        "@type" : "OrganizationRef",
        "id" : "149",
        "href" : "https://serverRoot/tmf-api/party/v5/organization/149",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
    }, {
      "@type" : "OrganizationChildRelationship",
      "relationshipType" : "juridical",
      "organization" : {
        "@type" : "OrganizationRef",
        "id" : "150",
        "href" : "https://serverRoot/tmf-api/party/v5/organization/150",
        "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
      }
    } ],
    "topicRef" :
"kafka://serverRoot/{prefix}.party.v5.retrieveOrganization.commandRequest"
```

```
    }
```

Deletes a Organization

Request topic: {prefix}.partyManagement.v5.deleteOrganization.commandRequest

Reply topic: {prefix}.partyManagement.v5.deleteOrganization.commandReply

Description

This operation deletes a Organization entity.

Usage samples

This operation deletes a Organization resource.

Request

```
DELETE /organization/128
```

Response

```
204
```

NOTIFICATIONS

Topic for Individual entity: {prefix}.partyManagement.v5.individual.notificationEvent

Topic for Organization entity: {prefix}.partyManagement.v5.organization.notificationEvent

For every single of operation on the entities use the following templates and provide sample notification message payloads.

It is assumed that consumers will subscribe to the notificationEvent channel to receive notifications, and that the server component will post notifications to that channel.

Publish Event to listener

Here's an example of a notification received by the consumer. 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.

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

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

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*