

TM Forum Specification

Privacy Management API User Guide

TMF644

Team Approved Date: 28-May-2020

Release Status: Pre-production	Approval Status: Team Approved
Version 4.0.0	IPR Mode: RAND

NOTICE

Copyright © TM Forum 2020. All Rights Reserved.

This document and translations of it may be copied and furnished to others, and derivative works that comment on or otherwise explain it or assist in its implementation may be prepared, copied, published, and distributed, in whole or in part, without restriction of any kind, provided that the above copyright notice and this section are included on all such copies and derivative works. However, this document itself may not be modified in any way, including by removing the copyright notice or references to TM FORUM, except as needed for the purpose of developing any document or deliverable produced by a TM FORUM Collaboration Project Team (in which case the rules applicable to copyrights, as set forth in the [TM FORUM IPR Policy](#), must be followed) or as required to translate it into languages other than English.

The limited permissions granted above are perpetual and will not be revoked by TM FORUM or its successors or assigns.

This document and the information contained herein is provided on an "AS IS" basis and TM FORUM DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY WARRANTY THAT THE USE OF THE INFORMATION HEREIN WILL NOT INFRINGE ANY OWNERSHIP RIGHTS OR ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

Direct inquiries to the TM Forum office:

4 Century Drive, Suite 100
Parsippany, NJ 07054, USA
Tel No. +1 973 944 5100
Fax No. +1 973 998 7196
TM Forum Web Page: www.tmforum.org

Table of Contents

NOTICE	2
Table of Contents	3
List of Tables	5
Introduction	6
SAMPLE USE CASES.....	8
Use Case 1: Customer Subscribing to a Service Provider	8
Support of polymorphism and extension patterns	9
RESOURCE MODEL.....	10
Managed Entity and Task Resource Models.....	10
Party Privacy Profile resource	10
Party Privacy Profile Status Example Type resource	14
Party Privacy Profile Specification resource.....	14
Party Privacy Profile Specification Status Example Type resource	21
Party Privacy Agreement resource.....	21
Party Privacy Agreement Status Example Type resource	30
Notification Resource Models	31
Party Privacy Profile Create Event.....	32
Party Privacy Profile Attribute Value Change Event.....	33
Party Privacy Profile Delete Event.....	33
Party Privacy Profile Status Change Event	33
Party Privacy Profile Specification Create Event	34
Party Privacy Profile Specification Attribute Value Change Event.....	34
Party Privacy Profile Specification Delete Event	35
Party Privacy Profile Specification Status Change Event.....	35
Party Privacy Agreement Create Event	35
Party Privacy Agreement Attribute Value Change Event	36
Party Privacy Agreement Delete Event	36
Party Privacy Agreement Status Change Event.....	36
API OPERATIONS.....	38
Operations on Party Privacy Profile.....	38
List party privacy profiles	38
Retrieve party privacy profile.....	40

- Create party privacy profile..... 42
- Patch party privacy profile 44
- Delete party privacy profile..... 47
- Operations on Party Privacy Profile Status Example Type 47
- Operations on Party Privacy Profile Specification 47
 - List party privacy profile specifications 48
 - Retrieve party privacy profile specification..... 49
 - Create party privacy profile specification 51
 - Patch party privacy profile specification 54
 - Delete party privacy profile specification..... 56
- Operations on Party Privacy Profile Specification Status Example Type 56
- Operations on Party Privacy Agreement 56
 - List party privacy agreements 56
 - Retrieve party privacy agreement..... 59
 - Create party privacy agreement..... 61
 - Patch party privacy agreement 63
 - Delete party privacy agreement..... 66
- Operations on Party Privacy Agreement Status Example Type 66
- API NOTIFICATIONS..... 67
 - Register listener 67
 - Unregister listener 68
 - Publish Event to listener 68
- Acknowledgements 70
 - Release History 70
 - Contributors to Document..... 71

List of Tables

N/A

Introduction

The following document is the specification of the REST API for Privacy management. It includes the model definition as well as all available operations.

The Privacy management API provides standardized mechanism for privacy profile specification, privacy profiles and privacy agreements such as creation, update, retrieval, deletion and notification of events.

Privacy management API manages the following data resources:

Privacy Profile Specification

- Privacy profile specification represents a description for privacy profiles.
- Main privacy profile specification attributes are its identifier, name, description, version, last update, lifecycle status, validity period, characteristics and their values, related parties, applicable roles.

Privacy Profile

- Privacy profile represents the set of Privacy settings defined for a Party
- Main privacy profile attributes are its identifier, name, description, date of creation, status, validity period, privacy profile specification, characteristics values, agreement, the party who has agreed and the party which the privacy is applicable for, typically the same party represents both the aggregated by and applicable for. In case of minor privacy, the applicable for party is the minor and the agreed party is the parent.

Privacy Agreement

- Privacy agreement represents the approval made by the Party about a Party Privacy Profile
- Main privacy agreement attributes are its identifier, name, description, agreement period, initial date, completion date, document number, statement of intent, status, type, version, agreement specification, agreement items, engaged party, agreement authorization, characteristics, associated agreements, privacy profile and privacy profile characteristic values.

Privacy management API performs the following operations on privacy profile specification, privacy profiles and privacy agreements:

- Retrieval of a privacy profile specification, a privacy profile or a privacy agreement, or of a collection of them depending on filter criteria
- Partial update of a privacy profile specification, a privacy profile or a privacy agreement
- Creation of a privacy profile specification, a privacy profile or a privacy agreement
- Deletion of a privacy profile specification, a privacy profile or a privacy agreement (for administration purposes)
- Notification of events:
 - o privacy profile specification create
 - o privacy profile specification update
 - o privacy profile specification delete
 - o privacy profile create
 - o privacy profile update
 - o privacy profile delete

- privacy agreement create
- privacy agreement update
- privacy agreement delete

SAMPLE USE CASES

Use Case 1: Customer Subscribing to a Service Provider

Prospect Customer Subscribes to a Service Provider Service with Privacy Policy Right to Know for Marketing Purposes

AS A...
A Prospective Customer
I NEED TO...
provide PII required for the service and agree to a default Privacy Policy Agreement presented as part of Service Provider Contract Terms & Conditions
SO THAT I CAN....
Receive the desired Service, confident that my data will only be used in accordance with the Privacy Policy Agreement presented as part of Service Provider Contract Terms & Conditions
TO DO THIS I NEED...
To be able to view and understand the privacy policy structure, and the applicable privacy policy. To be able to opt in/out specific privacy policy for example email address

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.

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

document.

The `@type` attribute provides a way to represent the actual class type of an entity. For example, within a list of `PartyPrivacyProfile` instances some may be instances of `PartyPrivacyProfile` where other could be instances of `IndividualPrivacyProfile`. 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 `PartyPrivacyProfileRef` 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 `IndividualPrivacyProfileRef`, 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.

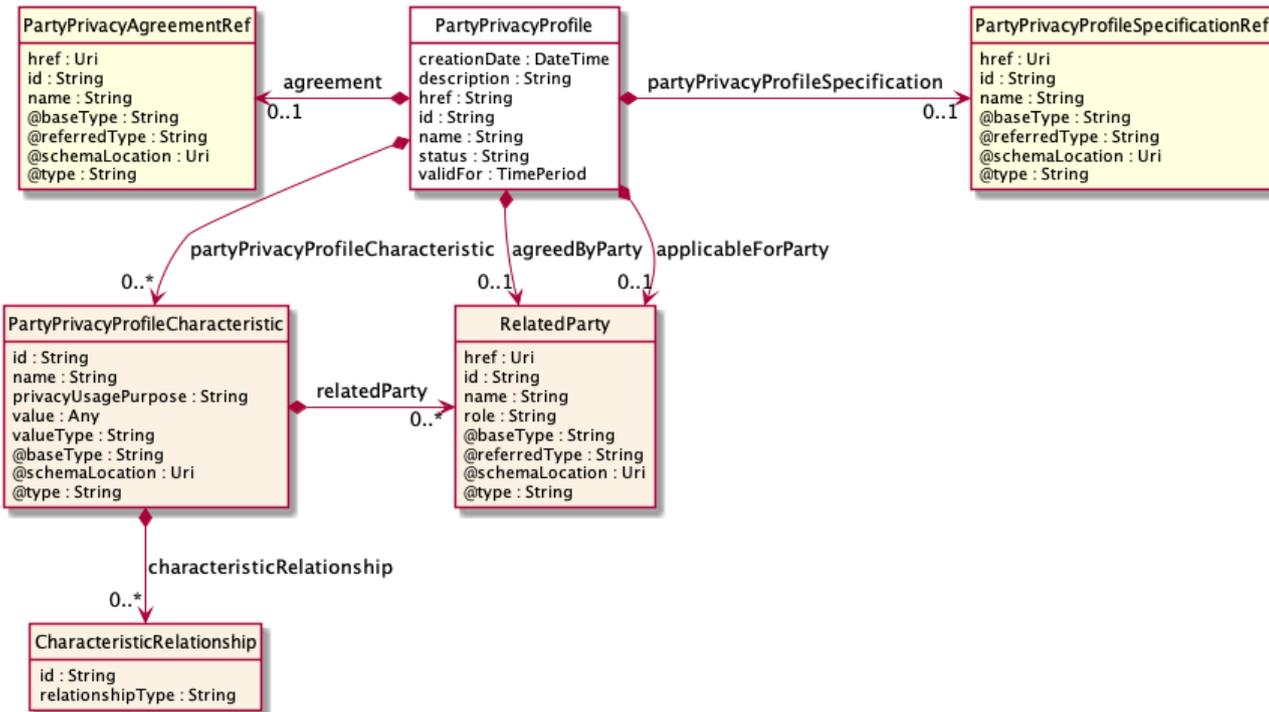
RESOURCE MODEL

Managed Entity and Task Resource Models

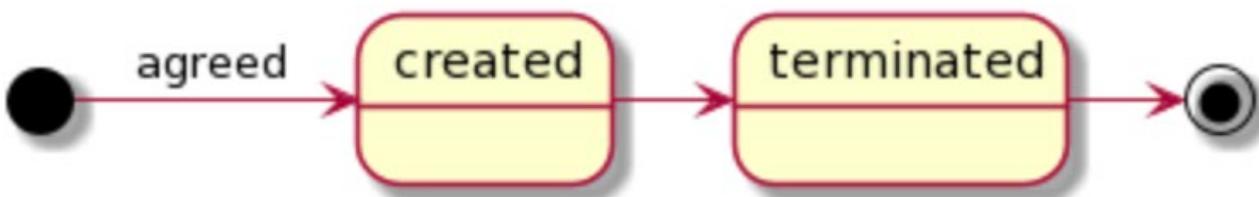
Party Privacy Profile resource

A Party Privacy Profile represents the set of Privacy settings defined for a Party.

Resource model



Lifecycle



Field descriptions

PartyPrivacyProfile fields

- agreedByParty** A related party (RelatedParty). The party who agreed to the privacy profile. Not necessarily the party to whom the profile applies.
- agreement** A party privacy agreement reference (PartyPrivacyAgreementRef). An agreement under which the privacy profile was produced.

applicableForParty	A related party (RelatedParty). The party to whom the privacy profile applies. Could be a minor where the agreeing party is a parent, an organization where the agreeing party is authorized to make such agreements, or some individual for whom the agreeing party has authorization (e.g. power of attorney). If empty, the agreeing party is the party to whom the profile applies.
creationDate	A date time (DateTime). The date on which the PartyPrivacyProfile was created.
description	A string. Description of the privacy profile.
href	A string. URI reference of the privacy profile allowing navigation to the resource.
id	A string. Unique identifier of the privacy profile.
name	A string. Name of the privacy profile.
partyPrivacyProfileCharacteristic	A list of party privacy profile characteristics (PartyPrivacyProfileCharacteristic [*]). List of characteristics of the privacy profile.
partyPrivacyProfileSpecification	A party privacy profile specification reference (PartyPrivacyProfileSpecificationRef). The specification from which this profile was instantiated.
status	A string. The status of this profile (for example: created, terminated, etc.).
validFor	A time period. The period of time for which this profile is valid, depending on regulations or business consideration the profile may expire and need to be renegotiated.

CharacteristicRelationship sub-resource

Another Characteristic that is related to the current Characteristic;

id	A string. Unique identifier of the characteristic.
relationshipType	A string. The type of relationship.

PartyPrivacyProfileCharacteristic sub-resource

A characteristic for an instantiated party profile, where the value indicates the allowed use of the characteristic.

id	A string.
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	An uri (Uri). 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.
privacyUsagePurpose	A string. Defines the purpose authorized or refused for the characteristic (e.g. ADMIN, INFORMATION, MARKETING, RESEARCH, etc.
relatedParty	A list of related parties (RelatedParty [*]). A list of parties to which the allowed use of the characteristic applies.
characteristicRelationship	A list of characteristic relationships (CharacteristicRelationship [*]). Another Characteristic that is related to the current Characteristic;.
value	An any (Any). The value of the characteristic.

RelatedParty sub-resource

Related Entity reference. A related party defines party or party role linked to a specific entity.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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.
role	A string. Role played by the related party.

PartyPrivacyAgreementRef relationship

Reference to Party Privacy Agreement resource.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.

@schemaLocation	An uri (Uri). 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.

PartyPrivacyProfileSpecificationRef relationship

Reference to Party Privacy Specification resource.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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

We provide below the json representation of an example of a 'PartyPrivacyProfile' resource object

```
{
  "id": "109",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/109",
  "creationDate": "2019-09-06T04:54:42.690Z",
  "description": "Individual Privacy Profile",
  "name": "individual Consents",
  "status": "created",
  "agreedByParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "Individual",
    "@referredType": "Individual"
  },
  "agreement": {
    "id": "Agreement_5667789jjhbjklb7878",
    "href": "https://mycsp.com:8080/tmf-api/agreement/Agreement_5667789jjhbjklb7878",
    "name": "agreement"
  },
  "applicableForParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "owner",
    "@referredType": "Individual"
  },
  "partyPrivacyProfileCharacteristic": [
```

```
{
  "id": "43",
  "name": "Can EmailAddress be used for information purpose",
  "privacyUsagePurpose": "INFORMATION",
  "valueType": "string",
  "value": "Yes",
  "relatedParty": [
    {
      "id": "8632",
      "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
      "name": "John Doe",
      "role": "Vendor",
      "@referredType": "Individual"
    }
  ]
},
"partyPrivacyProfileSpecification": {
  "id": "PartyPrivacySpec_156bjhbjk57434",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacySpecification/PartyPrivacySpec_156bjhbjk57434",
  "name": "Individual Privacy Spec"
},
"validFor": {
  "endDateTime": "2020-09-09T04:54:42.691Z",
  "startDateTime": "2019-09-06T04:54:42.691Z"
}
}
```

Party Privacy Profile Status Example Type resource

Possible values for the status of party privacy profile (for example: created, terminated).

Json representation sample

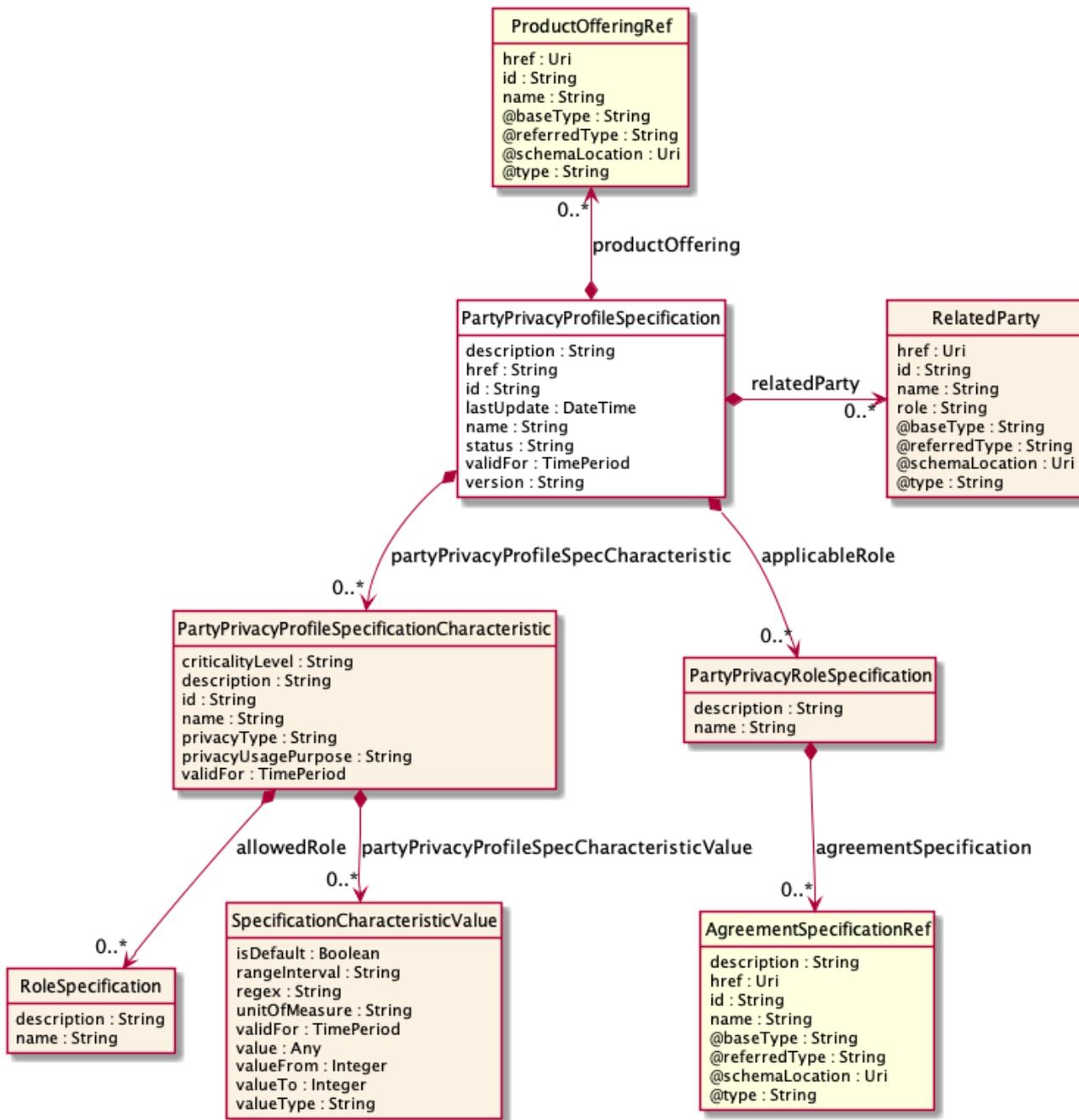
We provide below the json representation of an example of a 'PartyPrivacyProfileStatusExampleType' resource object

```
{
  "status": "created"
}
```

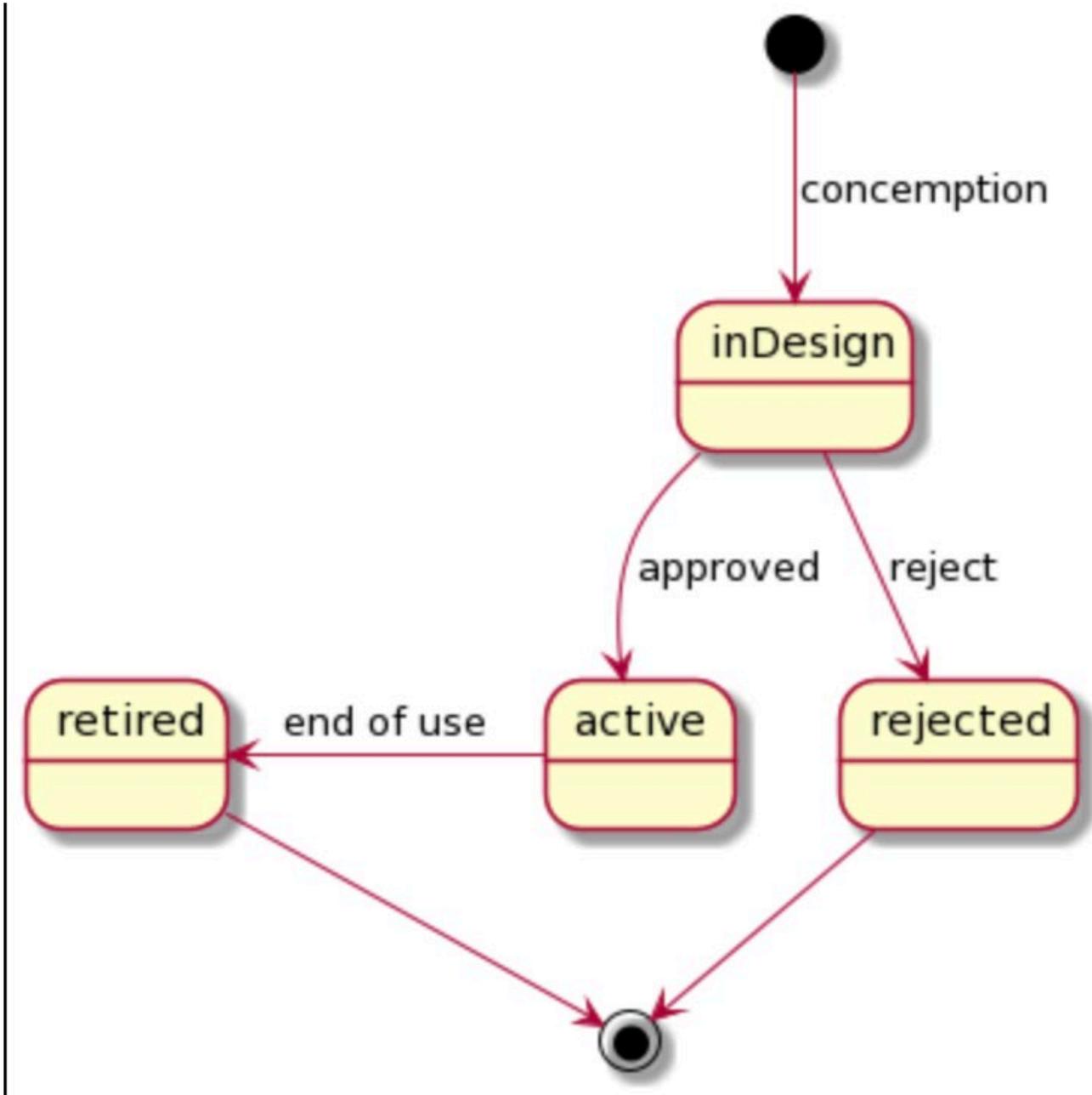
Party Privacy Profile Specification resource

Party Privacy Profile Specification serves as a template for creating Privacy Profiles. The specification defines characteristics for the profile. For example, there might be a profile specification for residential customers, and a different specification for partners.

Resource model



Lifecycle



Field descriptions

PartyPrivacyProfileSpecification fields

applicableRole	A list of party privacy role specifications (PartyPrivacyRoleSpecification [*]). A list of roles to which this specification can apply. For example: Shop Agent, Call Center Agent.
description	A string. Description of the specification.
href	A string. URI reference of the specification allowing navigation to the resource.

id	A string. Unique identifier of the specification.
lastUpdate	A date time (DateTime). Date and time when the specification was last updated.
name	A string. Name of the specification.
partyPrivacyProfileSpecCharacteristic	A list of party privacy profile specification characteristics (PartyPrivacyProfileSpecificationCharacteristic [*]). List of characteristics of the specification, whose values would typically be supplied when the profile is instantiated.
productOffering	A list of product offering references (ProductOfferingRef [*]). A product offering represents entities that are orderable from the provider of the catalog, this resource includes pricing information.
relatedParty	A list of related parties (RelatedParty [*]). List of parties or party roles involved in the definition or management of the specification.
status	A string. Lifecycle status of the specification (for example: In Design, Active, Rejected, Retired).
validFor	A time period. The period of time for which the specification is valid.
version	A string. The version of the specification, in case it is desired to maintain multiple versions of profile specifications.

PartyPrivacyProfileSpecificationCharacteristic sub-resource

A characteristic of the party privacy profile, whose value(s) would be supplied at runtime. For example, email address.

allowedRole	A list of role specifications (RoleSpecification [*]). A list of roles in the organization who are allowed access to this characteristic.
criticalityLevel	A string. Level of criticality for this characteristic of personal identifiable information (e.g. in terms of the damage if this item was breached), such as low, medium, high.
description	A string. Description of the characteristic.
id	A string.
name	A string. Name of the characteristic.
partyPrivacyProfileSpecCharacteristicValue	A list of specification characteristic values (SpecificationCharacteristicValue [*]). List of values that can be assigned to this characteristic at runtime.

privacyType	A string. Type of privacy (e.g. Internal Purpose, External Purpose, Internal Retention, External Retention).
privacyUsagePurpose	A string. Defines the purpose authorized or refused for the characteristic (e.g. ADMIN, INFORMATION, MARKETING, RESEARCH).
validFor	A time period. The period of time for which this characteristic specification is valid.

PartyPrivacyRoleSpecification sub-resource

A PartyPrivacyRoleSpecification represents a specification of a role defined in the context of a given privacy specification, such as Customer, User.

description	A string. An explanatory text documenting the role specification.
name	A string. The name of the role specification. This name uniquely identifies the role specification.
agreementSpecification	A list of agreement specification references (AgreementSpecificationRef [*]). An AgreementSpecification represents a template of an agreement that can be used when establishing partnerships.

RelatedParty sub-resource

Related Entity reference. A related party defines party or party role linked to a specific entity.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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.
role	A string. Role played by the related party.

RoleSpecification sub-resource

A RoleSpecification represents a specification of a role.

description	A string. An explanatory text documenting the role specification.
-------------	-------------------------------------------------------------------

name A string. The name of the role specification. This name uniquely identifies the role specification.

SpecificationCharacteristicValue sub-resource

A number or text that can be assigned to a SpecificationCharacteristic.

isDefault A boolean. If true, the Boolean Indicates if the value is the default value for a characteristic.

rangeInterval A string. An indicator that specifies the inclusion or exclusion of the valueFrom and valueTo attributes. If applicable, possible values are "open", "closed", "closedBottom" and "closedTop".

regex A string. A regular expression constraint for given value.

unitOfMeasure A string. unit of measure for the valueCould be minutes, GB, etc.

validFor A time period. The period for which this object is valid.

value An any (Any). the value that the characteristic can take on.

valueFrom An integer. The low range value that a characteristic can take on.

valueTo An integer. The upper range value that a characteristic can take on.

valueType A string. A kind of value that the characteristic value can take on, such as numeric, text and so forth.

AgreementSpecificationRef relationship

Agreement specification reference. An AgreementSpecification represents a template of an agreement that can be used when establishing partnerships.

@referredType A string. The actual type of the target instance when needed for disambiguation.

name A string. Name of the agreement specification.

href An uri (Uri). Hyperlink reference.

id A string. unique identifier.

@baseType A string. When sub-classing, this defines the super-class.

@schemaLocation An uri (Uri). 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.

description A string. A narrative that explains in detail what the agreement specification is about.

ProductOfferingRef relationship

ProductOffering reference. A product offering represents entities that are orderable from the provider of the catalog, this resource includes pricing information.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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

We provide below the json representation of an example of a 'PartyPrivacyProfileSpecification' resource object

```
{
  "id": "103",
  "href": "http://serverlocation:port/privacyManagement/partyPrivacySpecification/103",
  "description": "This is the Individual Privacy Specification",
  "lastUpdate": "2019-07-06T10:36:30.709Z",
  "name": "Individual Privacy",
  "status": "active",
  "version": "1",
  "applicableRole": [
    {
      "name": "owner"
    }
  ],
  "partyPrivacyProfileSpecCharacteristic": [
    {
      "id": "42",
      "criticalityLevel": "low",
      "description": "Can EmailAddress be used for information purpose",
      "name": "emailAddress",
      "privacyType": "InternalPurpose",
      "privacyUsagePurpose": "ADMIN",
      "allowedRole": [
        {
          "name": "vendor"
        }
      ]
    }
  ],
  "partyPrivacyProfileSpecCharacteristicValue": [
    {
      "isDefault": true,
      "valueType": "string",
      "value": "Yes"
    }
  ]
}
```

```
        "isDefault": false,
        "valueType": "string",
        "value": "No"
      }
    ],
    "validFor": {
      "endDateTime": "2019-09-06T10:36:30.709Z",
      "startDateTime": "2020-09-06T10:36:30.709Z"
    }
  }
},
"relatedParty": [
  {
    "id": "203",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/203",
    "name": "Mandy brown",
    "role": "admin"
  }
],
"validFor": {
  "endDateTime": "2019-09-06T10:36:30.709Z",
  "startDateTime": "2020-09-06T10:36:30.709Z"
}
}
```

Party Privacy Profile Specification Status Example Type resource

Possible values for the status of party privacy profile Specification (for example: inDesign, active, rejected, retired).

Json representation sample

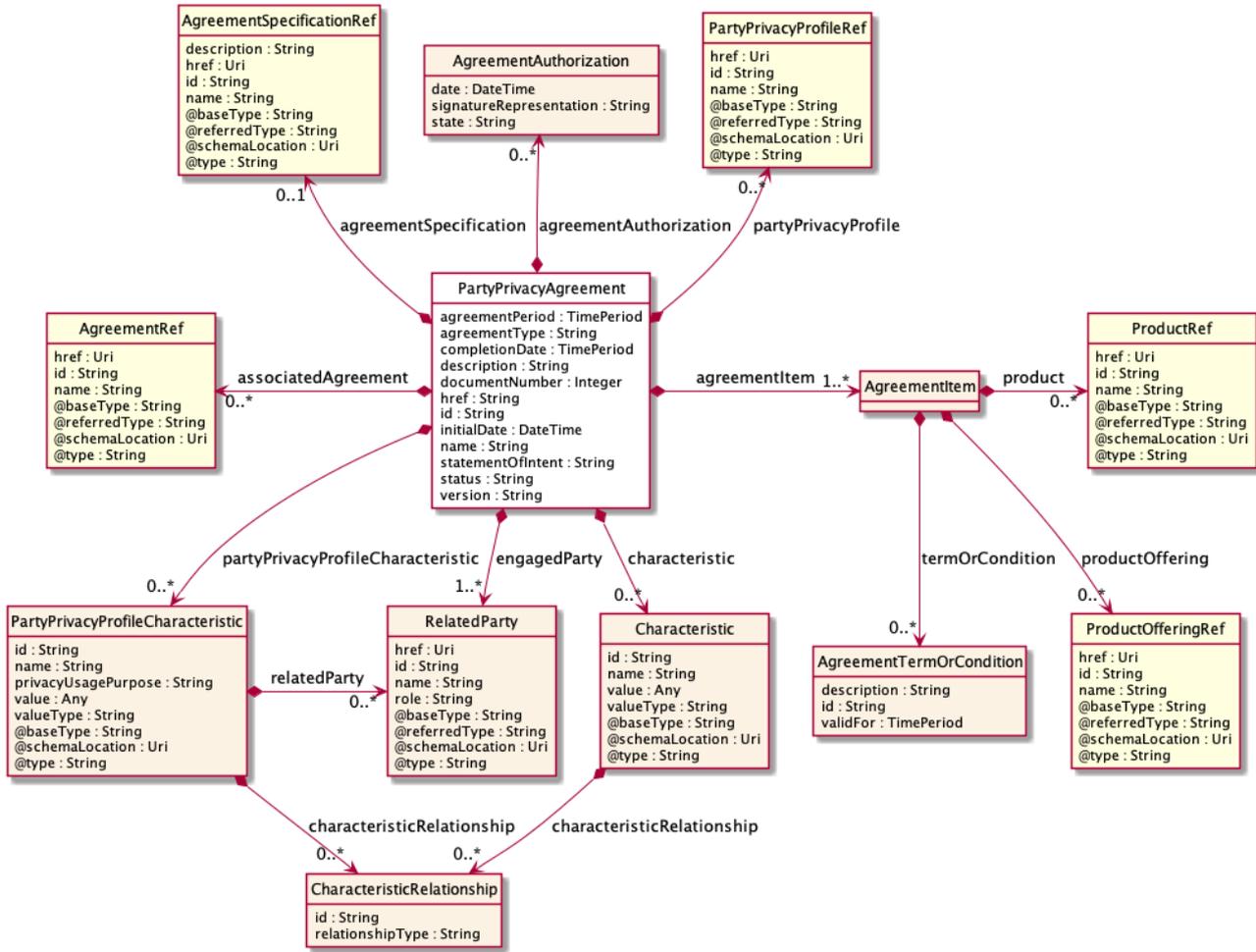
We provide below the json representation of an example of a 'PartyPrivacyProfileSpecificationStatusExampleType' resource object

```
{
  "status": "active"
}
```

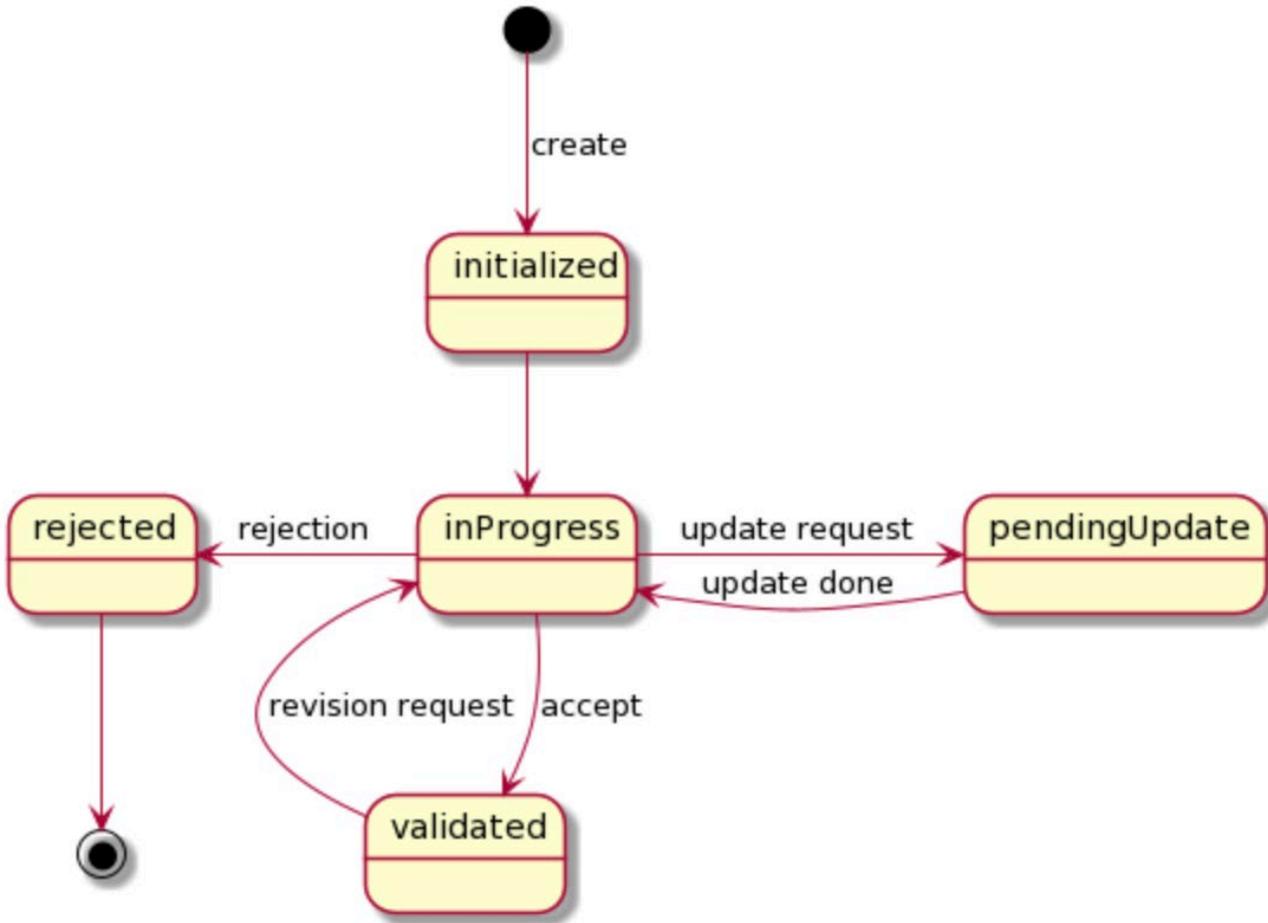
Party Privacy Agreement resource

A specific type of agreement that formalizes the privacy profiles requested for a party.

Resource model



Lifecycle



Field descriptions

PartyPrivacyAgreement fields

agreementType	A string. The type of the agreement. For example, commercial.
description	A string. Narrative that explains the agreement and details about the it , such as why the agreement is taking place.
documentNumber	An integer. A reference number assigned to an Agreement that follows a prescribed numbering system.
href	A string. Unique url identifying the agreement as a resource.
id	A string. Unique identifier for the agreement.
initialDate	A date time (DateTime). Date at which the agreement was initialized.
name	A string. A human-readable name for the agreement.
statementOfIntent	A string. An overview and goals of the Agreement.

status	A string. The current status of the agreement. Typical values are: in process, approved and rejected.
version	A string. A string identifying the version of the agreement.
partyPrivacyProfile	A list of party privacy profile references (PartyPrivacyProfileRef [*]). The privacy profiles that are the subject of the agreement.
partyPrivacyProfileCharacteristic	A list of party privacy profile characteristics (PartyPrivacyProfileCharacteristic [*]). A list of (typically) high criticality characteristics whose chosen privacy rules are included in the agreement.
agreementAuthorization	A list of agreement authorizations (AgreementAuthorization [*]). A business participant that is responsible for approving the agreement.
agreementItem	A list of agreement items (AgreementItem [1..*]). A part of the agreement expressed in terms of a product offering and possibly including specific terms and conditions.
agreementPeriod	A time period. The time period during which the Agreement is in effect.
agreementSpecification	An agreement specification reference (AgreementSpecificationRef). An AgreementSpecification represents a template of an agreement that can be used when establishing partnerships.
associatedAgreement	A list of agreement references (AgreementRef [*]). An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.
characteristic	A list of characteristics (Characteristic [*]). Describes a given characteristic of an object or entity through a name/value pair.
completionDate	A time period. Date at which the agreement is completed.
engagedParty	A list of related parties (RelatedParty [1..*]). Related Entity reference. A related party defines party or party role linked to a specific entity.

AgreementAuthorization sub-resource

A business participant that is responsible for approving the agreement.

date	A date time (DateTime). The date associated with the authorization state.
signatureRepresentation	A string. Indication that represents whether the signature is a physical paper signature or a digital signature.
state	A string. Current status of the authorization, for example in process, approved, rejected.

AgreementItem sub-resource

A part of the agreement expressed in terms of a product offering and possibly including specific terms and conditions.

product	A list of product references (ProductRef [*]). The list of products indirectly referred by this agreement item (since an agreement item refers primarily to product offerings).
productOffering	A list of product offering references (ProductOfferingRef [*]). The list of product offerings referred by this agreement item.
termOrCondition	A list of agreement term or conditions (AgreementTermOrCondition [*]). Aspects of the agreement not formally specified elsewhere in the agreement and that cannot be captured elsewhere in a formal notation, or automatically monitored and require a more human level of management.

AgreementTermOrCondition sub-resource

Aspects of the agreement not formally specified elsewhere in the agreement and that cannot be captured elsewhere in a formal notation, or automatically monitored and require a more human level of management.

description	A string. Text that explains the term or condition of the agreement.
id	A string. Unique number assigned for reference.
validFor	A time period. The period of time during which the term or condition of the agreement applies.

Characteristic sub-resource

Describes a given characteristic of an object or entity through a name/value pair.

@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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	A list of characteristic relationships (CharacteristicRelationship [*]). Another Characteristic that is related to the current Characteristic;
id	A string. Unique identifier of the characteristic.
name	A string. Name of the characteristic.
value	An any (Any). The value of the characteristic.
valueType	A string. Data type of the value of the characteristic.

CharacteristicRelationship sub-resource

Another Characteristic that is related to the current Characteristic;

id	A string. Unique identifier of the characteristic.
relationshipType	A string. The type of relationship.

PartyPrivacyProfileCharacteristic sub-resource

A characteristic for an instantiated party profile, where the value indicates the allowed use of the characteristic.

id	A string.
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	An uri (Uri). 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.
privacyUsagePurpose	A string. Defines the purpose authorized or refused for the characteristic (e.g. ADMIN, INFORMATION, MARKETING, RESEARCH, etc.
relatedParty	A list of related parties (RelatedParty [*]). A list of parties to which the allowed use of the characteristic applies.
characteristicRelationship	A list of characteristic relationships (CharacteristicRelationship [*]). Another Characteristic that is related to the current Characteristic;
value	An any (Any). The value of the characteristic.

RelatedParty sub-resource

Related Entity reference. A related party defines party or party role linked to a specific entity.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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.

role A string. Role played by the related party.

AgreementRef relationship

Agreement reference. An agreement represents a contract or arrangement, either written or verbal and sometimes enforceable by law, such as a service level agreement or a customer price agreement. An agreement involves a number of other business entities, such as products, services, and resources and/or their specifications.

@referredType A string. The actual type of the target instance when needed for disambiguation.

name A string. Name of the agreement.

href An uri (Uri). Hyperlink reference.

id A string. unique identifier.

@baseType A string. When sub-classing, this defines the super-class.

@schemaLocation An uri (Uri). A URI to a JSON-Schema file that defines additional attributes and relationships.

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

AgreementSpecificationRef relationship

Agreement specification reference. An AgreementSpecification represents a template of an agreement that can be used when establishing partnerships.

@referredType A string. The actual type of the target instance when needed for disambiguation.

name A string. Name of the agreement specification.

href An uri (Uri). Hyperlink reference.

id A string. unique identifier.

@baseType A string. When sub-classing, this defines the super-class.

@schemaLocation An uri (Uri). 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.

description A string. A narrative that explains in detail what the agreement specification is about.

PartyPrivacyProfileRef relationship

Reference to Party Privacy Profile resource.

@referredType A string. The actual type of the target instance when needed for disambiguation.

name A string. Name of the related entity.

href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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.

ProductOfferingRef relationship

ProductOffering reference. A product offering represents entities that are orderable from the provider of the catalog, this resource includes pricing information.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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.

ProductRef relationship

@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
@baseType	A string. When sub-classing, this defines the super-class.
@schemaLocation	An uri (Uri). 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

We provide below the json representation of an example of a 'PartyPrivacyAgreement' resource object

```

{
  "id": "6810",
  "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/6810",
  "agreementType": "commercial",
  "description": "This agreements is ....",
  "documentNumber": 999,
  "initialDate": "2019-08-06T09:56:38.679Z",
  "name": "Customer mass market privacy agreement",
  "statementOfIntent": "Agreement on customer mass market privacy profile",
  "status": "validated",
  "version": "1",
  "agreementAuthorization": [
    {
      "date": "2019-08-06T09:56:38.679Z",
      "signatureRepresentation": "Digital",
      "state": "approved"
    }
  ],
  "agreementItem": [
    {
      "productOffering": [
        {
          "id": "9559",
          "href": "https://host:port/productOffering/bundledProductOffering/7120",
          "name": "Magic Offer"
        }
      ],
      "termOrCondition": [
        {
          "id": "8905",
          "description": "This agreement term or condition \ufffd",
          "validFor": {
            "endDateTime": "2019-09-06T09:56:38.679Z",
            "startDateTime": "2020-09-06T09:56:38.679Z"
          }
        }
      ]
    }
  ],
  "agreementPeriod": {
    "endDateTime": "2019-09-06T09:56:38.679Z",
    "startDateTime": "2020-09-06T09:56:38.679Z"
  },
  "agreementSpecification": {
    "id": "8139",
    "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreementSpecification/8139",
    "description": "This agreement specification defines the rules of privacy to be followed by each party",
    "name": "General Agreement Specification"
  },
  "associatedAgreement": [
    {
      "id": "987654",
      "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/987654",
      "name": "General Privacy Agreement"
    }
  ],
  "completionDate": {

```

```
"endTime": "2019-09-06T09:56:38.679Z",
"startTime": "2019-09-06T09:56:38.679Z"
},
"engagedPartyRole": [
  {
    "id": "1",
    "href": "http://serverLocation:port/partyManagement/partyRole/1",
    "name": "John Doe",
    "role": "customer"
  }
],
"partyPrivacyProfile": [
  {
    "id": "103",
    "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/103",
    "name": "individual Consents"
  }
],
"partyPrivacyProfileCharacteristic": [
  {
    "id": "43",
    "name": "EmailAddress",
    "privacyUsagePurpose": "INFORMATION",
    "valueType": "string",
    "value": "Yes",
    "relatedParty": [
      {
        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@referredType": "Individual"
      }
    ]
  }
]
}
```

Party Privacy Agreement Status Example Type resource

Possible values for the status of party privacy profile agreement (for example: intialized, inProgress, rejected, pendingUpdate, validated).

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyAgreementStatusExampleType' resource object

```
{
  "status": "initialized"
}
```

Notification Resource Models

12 notifications are defined for this API

Notifications related to PartyPrivacyProfile:

- PartyPrivacyProfileCreateEvent
- PartyPrivacyProfileAttributeValueChangeEvent
- PartyPrivacyProfileDeleteEvent
- PartyPrivacyProfileStatusChangeEvent

Notifications related to PartyPrivacyProfileSpecification:

- PartyPrivacyProfileSpecificationCreateEvent
- PartyPrivacyProfileSpecificationAttributeValueChangeEvent
- PartyPrivacyProfileSpecificationDeleteEvent
- PartyPrivacyProfileSpecificationStatusChangeEvent

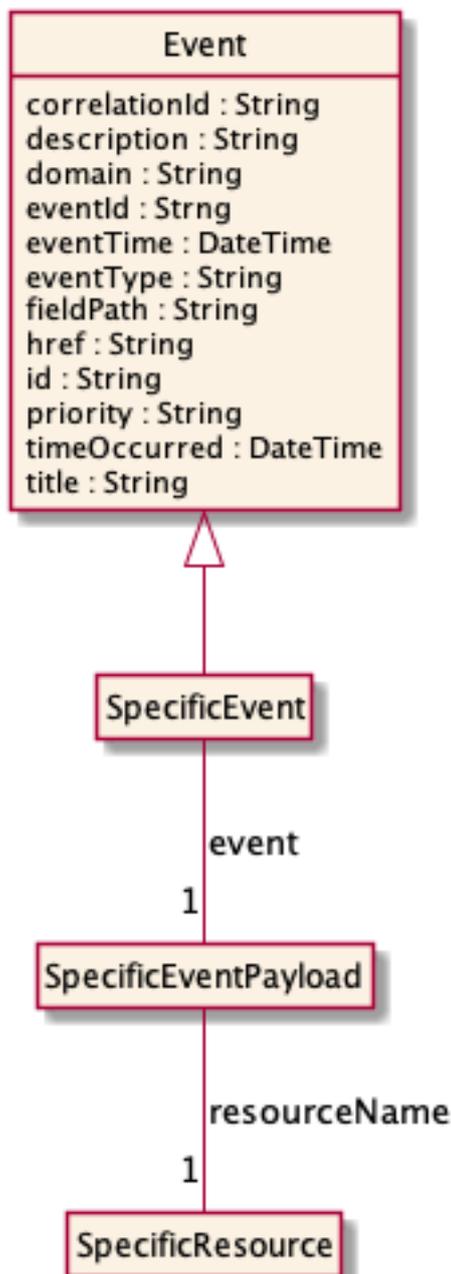
Notifications related to PartyPrivacyAgreement:

- PartyPrivacyAgreementCreateEvent
- PartyPrivacyAgreementAttributeValueChangeEvent
- PartyPrivacyAgreementDeleteEvent
- PartyPrivacyAgreementStatusChangeEvent

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).



Party Privacy Profile Create Event

Notification PartyPrivacyProfileCreateEvent case for resource PartyPrivacyProfile

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileCreateEvent' notification event object

```

{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "PartyPrivacyProfileCreateEvent",
  "event": {

```

```
"partyPrivacyProfile" :  
  {-- SEE PartyPrivacyProfile RESOURCE SAMPLE --}  
}
```

Party Privacy Profile Attribute Value Change Event

Notification PartyPrivacyProfileAttributeValueChangeEvent case for resource PartyPrivacyProfile

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileAttributeValueChangeEvent' notification event object

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"PartyPrivacyProfileAttributeValueChangeEvent",  
  "event": {  
    "partyPrivacyProfile" :  
      {-- SEE PartyPrivacyProfile RESOURCE SAMPLE --}  
  }  
}
```

Party Privacy Profile Delete Event

Notification PartyPrivacyProfileDeleteEvent case for resource PartyPrivacyProfile

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileDeleteEvent' notification event object

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"PartyPrivacyProfileDeleteEvent",  
  "event": {  
    "partyPrivacyProfile" :  
      {-- SEE PartyPrivacyProfile RESOURCE SAMPLE --}  
  }  
}
```

Party Privacy Profile Status Change Event

Notification PartyPrivacyProfileStatusChangeEvent case for resource PartyPrivacyProfile

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileStatusChangeEvent' notification event object

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "PartyPrivacyProfileStatusChangeEvent",
  "event": {
    "partyPrivacyProfile":
      {-- SEE PartyPrivacyProfile RESOURCE SAMPLE --}
  }
}
```

Party Privacy Profile Specification Create Event

Notification PartyPrivacyProfileSpecificationCreateEvent case for resource PartyPrivacyProfileSpecification

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileSpecificationCreateEvent' notification event object

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "PartyPrivacyProfileSpecificationCreateEvent",
  "event": {
    "partyPrivacyProfileSpecification":
      {-- SEE PartyPrivacyProfileSpecification RESOURCE SAMPLE --}
  }
}
```

Party Privacy Profile Specification Attribute Value Change Event

Notification PartyPrivacyProfileSpecificationAttributeValueChangeEvent case for resource PartyPrivacyProfileSpecification

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileSpecificationAttributeValueChangeEvent' notification event object

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "PartyPrivacyProfileSpecificationAttributeValueChangeEvent",
  "event": {
    "partyPrivacyProfileSpecification":
      {-- SEE PartyPrivacyProfileSpecification RESOURCE SAMPLE --}
  }
}
```

Party Privacy Profile Specification Delete Event

Notification PartyPrivacyProfileSpecificationDeleteEvent case for resource PartyPrivacyProfileSpecification

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileSpecificationDeleteEvent' notification event object

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"PartyPrivacyProfileSpecificationDeleteEvent",
  "event": {
    "partyPrivacyProfileSpecification" :
      {-- SEE PartyPrivacyProfileSpecification RESOURCE SAMPLE --}
  }
}
```

Party Privacy Profile Specification Status Change Event

Notification PartyPrivacyProfileSpecificationStatusChangeEvent case for resource PartyPrivacyProfileSpecification

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyProfileSpecificationStatusChangeEvent' notification event object

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"PartyPrivacyProfileSpecificationStatusChangeEvent",
  "event": {
    "partyPrivacyProfileSpecification" :
      {-- SEE PartyPrivacyProfileSpecification RESOURCE SAMPLE --}
  }
}
```

Party Privacy Agreement Create Event

Notification PartyPrivacyAgreementCreateEvent case for resource PartyPrivacyAgreement

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyAgreementCreateEvent' notification event object

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"PartyPrivacyAgreementCreateEvent",
  "event": {
```

```
"partyPrivacyAgreement" :
  {-- SEE PartyPrivacyAgreement RESOURCE SAMPLE --}
}
```

Party Privacy Agreement Attribute Value Change Event

Notification PartyPrivacyAgreementAttributeValueChangeEvent case for resource PartyPrivacyAgreement

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyAgreementAttributeValueChangeEvent' notification event object

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"PartyPrivacyAgreementAttributeValueChangeEvent",
  "event": {
    "partyPrivacyAgreement" :
      {-- SEE PartyPrivacyAgreement RESOURCE SAMPLE --}
  }
}
```

Party Privacy Agreement Delete Event

Notification PartyPrivacyAgreementDeleteEvent case for resource PartyPrivacyAgreement

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyAgreementDeleteEvent' notification event object

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"PartyPrivacyAgreementDeleteEvent",
  "event": {
    "partyPrivacyAgreement" :
      {-- SEE PartyPrivacyAgreement RESOURCE SAMPLE --}
  }
}
```

Party Privacy Agreement Status Change Event

Notification PartyPrivacyAgreementStatusChangeEvent case for resource PartyPrivacyAgreement

Json representation sample

We provide below the json representation of an example of a 'PartyPrivacyAgreementStatusChangeEvent' notification event object

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "PartyPrivacyAgreementStatusChangeEvent",
  "event": {
    "partyPrivacyAgreement" :
      {-- SEE PartyPrivacyAgreement RESOURCE SAMPLE --}
  }
}
```

API OPERATIONS

Remember the following Uniform Contract:

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

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

Notifications are also described in a subsequent section.

Operations on Party Privacy Profile

List party privacy profiles

GET /partyPrivacyProfile?fields=...&{filtering}

Description

This operation list party privacy profile 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 is an example of a request for retrieving a list of privacy profile(s). This operation list party privacy profile entities. Attribute selection is enabled for all first level attributes. Filtering may be available depending on the compliance level supported by an implementation

Request
GET /tmf-api/privacyManagement/v4/partyPrivacyProfile?agreedByParty.id=9176&agreedByParty.@referredType=Individual&status=created Accept: application/json
Response
200 <pre>[{ "id": "109", "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/109", "creationDate": "2019-09-06T04:54:42.690Z", "description": "Individual Privacy Profile", "name": "individual Consents", "status": "created", "agreedByParty": { "id": "9176", "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176", "name": "Sandy Smith", "role": "owner", "@referredType": "Individual" }, "agreement": { "id": "Agreement_5667789jjhbjklb7878", "href": "https://mycsp.com:8080/tmf-api/agreement/Agreement_5667789jjhbjklb7878", "name": "agreement" }, "applicableForParty": { "id": "9176", "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176", "name": "Sandy Smith", "role": "owner", "@referredType": "Individual" } }]</pre>

```

    },
    "partyPrivacyProfileCharacteristic": [
      {
        "id": "43",
        "name": "Email Address use for Information purpose",
        "privacyUsagePurpose": "INFORMATION",
        "valueType": "string",
        "value": "No",
        "relatedParty": [
          {
            "id": "8632",
            "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
            "name": "John Doe",
            "role": "Vendor",
            "@referredType": "Individual"
          }
        ]
      }
    ],
    "partyPrivacyProfileSpecification": {
      "id": "PartyPrivacySpec_156bjhbjk57434",
      "href": "https://mycsp.com:8080/tmf-api/partyPrivacySpecification/PartyPrivacySpec_156bjhbjk57434",
      "name": "Individual Privacy Spec"
    },
    "validFor": {
      "endDateTime": "2020-09-09T04:54:42.691Z",
      "startDateTime": "2019-09-06T04:54:42.691Z"
    }
  }
]

```

Retrieve party privacy profile

GET /partyPrivacyProfile/{id}?fields=...&{filtering}

Description

This operation retrieves a party privacy profile entity.

Attribute selection is enabled for all first level attributes.

Filtering on sub-resources may be available depending on the compliance level supported by an implementation.

Usage Samples

Retrieve privacy profile type with id 109 - with all its attributes

Request

```

GET /tmf-api/privacyManagement/v4/partyPrivacyProfile/109
Accept: application/json

```

Response

200

```

{
  "id": "103",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/103",
  "creationDate": "2019-09-06T04:54:42.690Z",
  "description": "Individual Privacy Profile",
  "name": "individual Consents",
  "status": "created",
  "agreedByParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "Individual",
    "@referredType": "Individual"
  },
  "agreement": {
    "id": "Agreement_5667789jjhbjklb7878",
    "href": "https://mycsp.com:8080/tmf-api/agreement/Agreement_5667789jjhbjklb7878",
    "name": "agreement"
  },
  "applicableForParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "owner",
    "@referredType": "Individual"
  },
  "partyPrivacyProfileCharacteristic": [
    {
      "id": "43",
      "name": "EmailAddress",
      "privacyUsagePurpose": "INFORMATION",
      "valueType": "string",
      "value": "Yes",
      "relatedParty": [
        {
          "id": "8632",
          "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
          "name": "John Doe",
          "role": "Vendor",
          "@referredType": "Individual"
        }
      ]
    }
  ],
  "partyPrivacyProfileSpecification": {
    "id": "PartyPrivacySpec_156bjhbjk57434",
    "href": "https://mycsp.com:8080/tmf-api/partyPrivacySpecification/PartyPrivacySpec_156bjhbjk57434",
    "name": "Individual Privacy Spec"
  }
}

```

```

"validFor": {
  "endDateTime": "2020-09-09T04:54:42.691Z",
  "startDateTime": "2019-09-06T04:54:42.691Z"
}
}
    
```

Create party privacy profile

POST /partyPrivacyProfile

Description

This operation creates a party privacy profile entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a PartyPrivacyProfile, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

Mandatory Attributes	Rule
agreedByParty	
partyPrivacyProfileCharacteristic	
partyPrivacyProfileSpecification	

Non Mandatory Attributes	Rule
agreement	
applicableForParty	
creationDate	
description	
name	
status	
validFor	

Usage Samples

Here's an example of a request for creating a Privacy Profile for existing customer - the resulting privacy profile is 109.

Request
POST /tmf-api/privacyManagement/v4/partyPrivacyProfile Content-Type: application/json { "description": "Individual Privacy Profile", "name": "Individual Consents", "status": "created", }

```

"agreedByParty": {
  "id": "9176",
  "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
  "name": "Sandy Smith",
  "role": "owner",
  "@referredType": "Individual"
},
"agreement": {
  "id": "Agreement_5667789jjhbjklb7878",
  "name": "agreement"
},
"applicableForParty": {
  "id": "9176",
  "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
  "name": "Sandy Smith",
  "role": "owner",
  "@referredType": "Individual"
},
"partyPrivacyProfileCharacteristic": [
  {
    "id": "43",
    "name": "EmailAddress",
    "privacyUsagePurpose": "INFORMATION",
    "valueType": "boolean",
    "value": "No",
    "relatedParty": [
      {
        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@referredType": "Individual"
      }
    ]
  }
]
},
"partyPrivacyProfileSpecification": {
  "id": "PartyPrivacySpec_156bjhbjk57434",
  "name": "Individual Privacy Spec"
},
"validFor": {
  "endDateTime": "2019-09-06T05:26:06.566Z",
  "startDateTime": "2019-09-06T05:26:06.566Z"
}
}

```

Response

201

```

{
  "id": "109",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/109",
  "creationDate": "2019-09-06T04:54:42.690Z",

```

```

"description": "Individual Privacy Profile",
"name": "individual Consents",
"status": "created",
"agreedByParty": {
  "id": "9176",
  "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
  "name": "Sandy Smith",
  "role": "Individual",
  "@referredType": "Individual"
},
"agreement": {
  "id": "Agreement_5667789jjhbjklb7878",
  "href": "https://mycsp.com:8080/tmf-api/agreement/Agreement_5667789jjhbjklb7878",
  "name": "agreement"
},
"applicableForParty": {
  "id": "9176",
  "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
  "name": "Sandy Smith",
  "role": "owner",
  "@referredType": "Individual"
},
"partyPrivacyProfileCharacteristic": [
  {
    "id": "43",
    "name": "Email Address use for Information purpose",
    "privacyUsagePurpose": "INFORMATION",
    "valueType": "string",
    "value": "No",
    "relatedParty": [
      {
        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@referredType": "Individual"
      }
    ]
  }
]
},
"partyPrivacyProfileSpecification": {
  "id": "PartyPrivacySpec_156bjhbjkbbk57434",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacySpecification/PartyPrivacySpec_156bjhbjkbbk57434",
  "name": "Individual Privacy Spec"
},
"validFor": {
  "endDateTime": "2020-09-09T04:54:42.691Z",
  "startDateTime": "2019-09-06T04:54:42.691Z"
}
}

```

Patch party privacy profile

PATCH /partyPrivacyProfile/{id}

Description

This operation allows partial updates of a party privacy profile entity. Support of json/merge (<https://tools.ietf.org/html/rfc7386>) is mandatory, support of json/patch (<http://tools.ietf.org/html/rfc5789>) is optional.

Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.

Patchable Attributes	Rule
agreedByParty	
agreement	
applicableForParty	
description	
name	
partyPrivacyProfileCharacteristic	
partyPrivacyProfileSpecification	
status	
validFor	

Non Patchable Attributes	Rule
id	
href	
creationDate	

Usage Samples

Here's an example of a request for updating a privacy profile. This example illustrating patch merge.

```

Request
PATCH /tmf-api/privacyManagement/v4/partyPrivacyProfile/109
Content-Type: merge-patch+json
{
  "id": "109",
  "partyPrivacyProfileCharacteristic": [
    {
      "id": "43",
      "name": "Email Address use for Information purpose",
      "privacyUsagePurpose": "INFORMATION",
      "valueType": "string",
      "value": "Yes",
    }
  ]
}
    
```

```

    "relatedParty": [
      {
        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@REFERREDType": "Individual"
      }
    ]
  }
}

```

Response

200

```

{
  "id": "109",
  "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/109",
  "creationDate": "2019-09-04T05:26:06.566Z",
  "lastUpdate": "2019-09-25T05:42:22.920Z",
  "description": "Individual Privacy Profile",
  "name": "Individual Consents",
  "status": "created",
  "agreedByParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "owner",
    "@REFERREDType": "Individual"
  },
  "agreement": {
    "id": "Agreement_5667789jjhbjklb7878",
    "name": "agreement"
  },
  "applicableForParty": {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "owner",
    "@REFERREDType": "Individual"
  },
  "partyPrivacyProfileCharacteristic": [
    {
      "id": "43",
      "name": "Email Address use for Information purpose",
      "privacyUsagePurpose": "INFORMATION",
      "valueType": "string",
      "value": "Yes",
      "relatedParty": [
        {
          "id": "8632",
          "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",

```

```

    "name": "John Doe",
    "role": "Vendor",
    "@referredType": "Individual"
  }
]
},
"partyPrivacyProfileSpecification": {
  "id": "PartyPrivacySpec_156bjhbjkbbk57434",
  "name": "Individual Privacy Spec"
},
"validFor": {
  "endDateTime": "2019-09-06T05:26:06.566Z",
  "startDateTime": "2019-09-06T05:26:06.566Z"
}
}

```

Delete party privacy profile

DELETE /partyPrivacyProfile/{id}

Description

This operation deletes a party privacy profile entity.

Usage Samples

Here's an example of a request for deleting a party privacy profile

Request
DELETE /tmf-api/privacyManagement/v4/partyPrivacyProfile/109
Response
204

Operations on Party Privacy Profile Status Example Type

Operations on Party Privacy Profile Specification

List party privacy profile specifications

GET

`/partyPrivacyProfileSpecification?fields=...&{filtering}`

Description

This operation list party privacy profile specification 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 is an example of a request for retrieving a list of privacy profile specification (s). This operation list party privacy profile specifications .Attribute selection is enabled for all first level attributes. Filtering is done on the applicable role.

Request
GET /tmf-api/privacyManagement/v4/partyPrivacyProfileSpecification?applicableRole.name=owner Accept: application/json
Response
200 [{ "id": "103", "href": "http://serverlocation:port//tmf-api/privacyManagement/v4//partyPrivacyProfileSpecification/103", "description": "This is the customer mass market privacy", "lastUpdate": "2018-09-25T05:42:22.920Z", "name": "Customer Mass Market Privacy", "status": "active", "version": "1", "applicableRole": [{ "name": "owner" }], "partyPrivacyProfileSpecCharacteristic": [{ "id": "42", "criticalityLevel": "low", "description": "Customer Mass Market Privacy for email", "name": "eMailAddress", "privacyType": "Internal Purpose", "privacyUsagePurpose": "ADMIN",

```

    "partyPrivacyProfileSpecCharacteristicValue": [
      {
        "isDefault": true,
        "value": "Yes",
        "valueType": "string"
      },
      {
        "isDefault": false,
        "value": "No",
        "valueType": "string"
      }
    ],
    "validFor": {
      "endDateTime": "2019-09-25T05:42:22.920Z",
      "startDateTime": "2019-09-25T05:42:22.920Z"
    }
  }
],
"relatedParty": [
  {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "Admin",
    "@referredType": "Individual"
  }
],
"validFor": {
  "endDateTime": "2018-09-25T05:42:22.920Z",
  "startDateTime": "2020-09-25T05:42:22.920Z"
}
}
]

```

Retrieve party privacy profile specification

GET

`/partyPrivacyProfileSpecification/{id}?fields=...&{filtering}`

Description

This operation retrieves a party privacy profile specification entity.

Attribute selection is enabled for all first level attributes.

Filtering on sub-resources may be available depending on the compliance level supported by an implementation.

Usage Samples

Retrieve privacy profile spec with id 103 - with all its attributes

Request

GET /tmf-api/privacyManagement/v4/partyPrivacyProfileSpecification/103
 Accept: application/json

Response

200

```
{
  "id": "103",
  "href": "http://serverlocation:port//tmf-api/privacyManagement/v4//partyPrivacyProfileSpecification/103",
  "description": "This is the customer mass market privacy",
  "lastUpdate": "2018-09-25T05:42:22.920Z",
  "name": "Customer Mass Market Privacy",
  "status": "active",
  "version": "1",
  "applicableRole": [
    {
      "name": "owner"
    }
  ],
  "partyPrivacyProfileSpecCharacteristic": [
    {
      "id": "42",
      "criticalityLevel": "low",
      "description": "Customer Mass Market Privacy for email",
      "name": "eMailAddress",
      "privacyType": "Internal Purpose",
      "privacyUsagePurpose": "ADMIN",
      "partyPrivacyProfileSpecCharacteristicValue": [
        {
          "isDefault": true,
          "value": "Yes",
          "valueType": "string"
        },
        {
          "isDefault": false,
          "value": "No",
          "valueType": "string"
        }
      ],
      "validFor": {
        "endDateTime": "2019-09-25T05:42:22.920Z",
        "startDateTime": "2019-09-25T05:42:22.920Z"
      }
    }
  ],
  "relatedParty": [
    {
      "id": "9176",
      "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
      "name": "Sandy Smith",
```

```

        "role": "Admin",
        "@referredType": "Individual"
    }
  ],
  "validFor": {
    "endDateTime": "2018-09-25T05:42:22.920Z",
    "startDateTime": "2020-09-25T05:42:22.920Z"
  }
}
    
```

Create party privacy profile specification

POST /partyPrivacyProfileSpecification

Description

This operation creates a party privacy profile specification entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a PartyPrivacyProfileSpecification, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

Mandatory Attributes	Rule
partyPrivacyProfileSpecCharacteristic	

Non Mandatory Attributes	Rule
applicableRole	
description	
lastUpdate	
name	
productOffering	
relatedParty	
status	
validFor	
version	

Usage Samples

Here's an example of a request for creating a Privacy Profile specification, the resulting privacy profile spec is 103.

Request
POST /tmf-api/privacyManagement/v4/partyPrivacyProfileSpecification Content-Type: application/json { "id": "103",

```

"description": "This is the customer mass market privacy",
"name": "Customer Mass Market Privacy",
"status": "active",
"version": "1",
"applicableRole": [
  {
    "name": "Owner"
  }
],
"partyPrivacyProfileSpecCharacteristic": [
  {
    "id": "42",
    "criticalityLevel": "low",
    "description": "Customer Mass Market Privacy for email",
    "name": "eEmailAddress",
    "privacyType": "Internal Purpose",
    "privacyUsagePurpose": "ADMIN",
    "partyPrivacyProfileSpecCharacteristicValue": [
      {
        "isDefault": true,
        "value": "Yes",
        "valueType": "string"
      },
      {
        "isDefault": false,
        "value": "No",
        "valueType": "string"
      }
    ],
    "validFor": {
      "endDateTime": "2019-09-25T05:42:22.920Z",
      "startDateTime": "2019-09-25T05:42:22.920Z"
    }
  }
],
"relatedParty": [
  {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "Admin",
    "@referredType": "Individual"
  }
],
"validFor": {
  "endDateTime": "2018-09-25T05:42:22.920Z",
  "startDateTime": "2020-09-25T05:42:22.920Z"
}
}

```

Response

201

```
{
  "id": "103",
  "href": "http://serverlocation:port//tmf-api/privacyManagement/v4//partyPrivacyProfileSpecification/103",
  "description": "This is the customer mass market privacy",
  "creationDate": "2019-09-04T05:26:06.566Z",
  "name": "Customer Mass Market Privacy",
  "status": "active",
  "version": "1",
  "applicableRole": [
    {
      "name": "owner"
    }
  ],
  "partyPrivacyProfileSpecCharacteristic": [
    {
      "id": "42",
      "criticalityLevel": "low",
      "description": "Customer Mass Market Privacy for email",
      "name": "eMailAddress",
      "privacyType": "Internal Purpose",
      "privacyUsagePurpose": "ADMIN",
      "partyPrivacyProfileSpecCharacteristicValue": [
        {
          "isDefault": true,
          "value": "Yes",
          "valueType": "string"
        },
        {
          "isDefault": false,
          "value": "No",
          "valueType": "string"
        }
      ]
    }
  ],
  "validFor": {
    "endDateTime": "2019-09-25T05:42:22.920Z",
    "startDateTime": "2019-09-25T05:42:22.920Z"
  }
},
"relatedParty": [
  {
    "id": "9176",
    "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
    "name": "Sandy Smith",
    "role": "Admin",
    "@referredType": "Individual"
  }
],
"validFor": {
  "endDateTime": "2018-09-25T05:42:22.920Z",
  "startDateTime": "2020-09-25T05:42:22.920Z"
}
}
```

Patch party privacy profile specification

PATCH /partyPrivacyProfileSpecification/{id}

Description

This operation allows partial updates of a party privacy profile specification entity. Support of json/merge (<https://tools.ietf.org/html/rfc7386>) is mandatory, support of json/patch (<http://tools.ietf.org/html/rfc5789>) is optional.

Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.

Patchable Attributes	Rule
applicableRole	
description	
lastUpdate	
name	
partyPrivacyProfileSpecCharacteristic	
productOffering	
relatedParty	
status	
validFor	
version	

Non Patchable Attributes	Rule
id	
href	

Usage Samples

Here's an example of a request for updating a party privacy profile specification

Request
PATCH /tmf-api/privacyManagement/v4/partyPrivacyProfileSpecification/103 Content-Type: merge-patch+json <pre>{ "id": "103", "href": "http://serverlocation:port//tmf-api/privacyManagement/v4//partyPrivacyProfileSpecification/103", "description": "This is the customer mass market privacy",</pre>

```

"lastUpdate": "2018-09-25T05:42:22.920Z",
"name": "New Customer Mass Market Privacy",
"status": "inDesign",
"version": "1",
"applicableRole": [
  {
    "name": "Owner"
  }
],
"partyPrivacyProfileSpecCharacteristic": [
  {
    "id": "42",
    "criticalityLevel": "high"
  }
]
}

```

Response

200

```

{
  "id": "103",
  "href": "http://serverlocation:port//tmf-api/privacyManagement/v4//partyPrivacyProfileSpecification/103",
  "description": "This is the customer mass market privacy",
  "lastUpdate": "2019-09-25T05:42:22.920Z",
  "name": "New Customer Mass Market Privacy",
  "status": "inDesign",
  "version": "1",
  "applicableRole": [
    {
      "name": "owner"
    }
  ],
  "partyPrivacyProfileSpecCharacteristic": [
    {
      "id": "42",
      "criticalityLevel": "high",
      "description": "Customer Mass Market Privacy for email",
      "name": "eMailAddress",
      "privacyType": "Internal Purpose",
      "privacyUsagePurpose": "ADMIN",
      "partyPrivacyProfileSpecCharacteristicValue": [
        {
          "isDefault": true,
          "value": "Yes",
          "valueType": "string"
        },
        {
          "isDefault": false,
          "value": "No",
          "valueType": "string"
        }
      ]
    }
  ],
}

```

```

    "validFor": {
      "endDateTime": "2019-09-25T05:42:22.920Z",
      "startDateTime": "2019-09-25T05:42:22.920Z"
    }
  },
  "relatedParty": [
    {
      "id": "9176",
      "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/9176",
      "name": "Sandy Smith",
      "role": "Admin",
      "@referredType": "Individual"
    }
  ],
  "validFor": {
    "endDateTime": "2018-09-25T05:42:22.920Z",
    "startDateTime": "2020-09-25T05:42:22.920Z"
  }
}

```

Delete party privacy profile specification

DELETE /partyPrivacyProfileSpecification/{id}

Description

This operation deletes a party privacy profile specification entity.

Usage Samples

Here's an example of a request for deleting a party privacy profile specification

Request
DELETE /tmf-api/privacyManagement/v4/partyPrivacyProfileSpecification/103
Response
204

Operations on Party Privacy Profile Specification Status Example Type

Operations on Party Privacy Agreement

List party privacy agreements

GET /partyPrivacyAgreement?fields=...&{filtering}**Description**

This operation list party privacy agreement 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 PartyPrivacyAgreement resources.

Request
<pre>GET /tmf-api/privacyManagement/v4/partyPrivacyAgreement Accept: application/json</pre>
Response
<pre>200 [{ "id": "6810", "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/6810", "agreementType": "commercial", "description": "This agreements is", "documentNumber": 999, "initialDate": "2019-08-06T09:56:38.679Z", "name": "Customer mass market privacy agreement", "statementOfIntent": "Agreement on customer mass market privacy profile", "status": "validated", "version": "1", "agreementAuthorization": [{ "date": "2019-08-06T09:56:38.679Z", "signatureRepresentation": "Digital", "state": "approved" }], "agreementItem": [{ "productOffering": [{ "id": "9559", "href": "https://host:port/productOffering/bundledProductOffering/7120", "name": "Magic Offer" }] }] }],</pre>

```

    "termOrCondition": [
      {
        "id": "8905",
        "description": "This agreement term or condition \ufffd",
        "validFor": {
          "endDateTime": "2019-09-06T09:56:38.679Z",
          "startDateTime": "2020-09-06T09:56:38.679Z"
        }
      }
    ]
  },
  "agreementPeriod": {
    "endDateTime": "2019-09-06T09:56:38.679Z",
    "startDateTime": "2020-09-06T09:56:38.679Z"
  },
  "agreementSpecification": {
    "id": "8139",
    "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreementSpecification/8139",
    "description": "This agreement specification defines the rules of privacy to be followed by each party",
    "name": "General Agreement Specification"
  },
  "associatedAgreement": [
    {
      "id": "987654",
      "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/987654",
      "name": "General Privacy Agreement"
    }
  ],
  "completionDate": {
    "endDateTime": "2019-09-06T09:56:38.679Z",
    "startDateTime": "2019-09-06T09:56:38.679Z"
  },
  "engagedPartyRole": [
    {
      "id": "1",
      "href": "http://serverLocation:port/partyManagement/partyRole/1",
      "name": "John Doe",
      "role": "customer"
    }
  ],
  "partyPrivacyProfile": [
    {
      "id": "103",
      "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/103",
      "name": "individual Consents"
    }
  ],
  "partyPrivacyProfileCharacteristic": [
    {
      "id": "43",
      "name": "EmailAddress",
      "privacyUsagePurpose": "INFORMATION",
      "valueType": "string",
      "value": "Yes",
      "relatedParty": [

```

```

        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@referredType": "Individual"
    }
  ]
}
]

```

Retrieve party privacy agreement

GET /partyPrivacyAgreement/{id}?fields=...&{filtering}

Description

This operation retrieves a party privacy agreement entity.

Attribute selection is enabled for all first level attributes.

Filtering on sub-resources may be available depending on the compliance level supported by an implementation.

Usage Samples

Here's an example of a request for retrieving a PartyPrivacyAgreement resource.

Request
GET /tmf-api/privacyManagement/v4/partyPrivacyAgreement/6810 Accept: application/json
Response
200 <pre> { "id": "6810", "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/6810", "agreementType": "commercial", "description": "This agreements is", "documentNumber": 999, "initialDate": "2019-08-06T09:56:38.679Z", "name": "Customer mass market privacy agreement", "statementOfIntent": "Agreement on customer mass market privacy profile", "status": "validated", "version": "1", "agreementAuthorization": [{ </pre>

```
"date": "2019-08-06T09:56:38.679Z",
"signatureRepresentation": "Digital",
"state": "approved"
}
],
"agreementItem": [
{
"productOffering": [
{
"id": "9559",
"href": "https://host:port/productOffering/bundledProductOffering/7120",
"name": "Magic Offer"
}
],
"termOrCondition": [
{
"id": "8905",
"description": "This agreement term or condition \ufffd",
"validFor": {
"endDateTime": "2019-09-06T09:56:38.679Z",
"startDateTime": "2020-09-06T09:56:38.679Z"
}
}
]
}
],
"agreementPeriod": {
"endDateTime": "2019-09-06T09:56:38.679Z",
"startDateTime": "2020-09-06T09:56:38.679Z"
},
"agreementSpecification": {
"id": "8139",
"href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreementSpecification/8139",
"description": "This agreement specification defines the rules of privacy to be followed by each party",
"name": "General Agreement Specification"
},
"associatedAgreement": [
{
"id": "987654",
"href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/987654",
"name": "General Privacy Agreement"
}
],
"completionDate": {
"endDateTime": "2019-09-06T09:56:38.679Z",
"startDateTime": "2019-09-06T09:56:38.679Z"
},
"engagedPartyRole": [
{
"id": "1",
"href": "http://serverLocation:port/partyManagement/partyRole/1",
"name": "John Doe",
"role": "customer"
}
],
"partyPrivacyProfile": [
{
```

```

    "id": "103",
    "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/103",
    "name": "individual Consents"
  }
],
"partyPrivacyProfileCharacteristic": [
  {
    "id": "43",
    "name": "EmailAddress",
    "privacyUsagePurpose": "INFORMATION",
    "valueType": "string",
    "value": "Yes",
    "relatedParty": [
      {
        "id": "8632",
        "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
        "name": "John Doe",
        "role": "Vendor",
        "@referredType": "Individual"
      }
    ]
  }
]
}

```

Create party privacy agreement

POST /partyPrivacyAgreement

Description

This operation creates a party privacy agreement entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a PartyPrivacyAgreement, including any possible rule conditions and applicable default values. Notice that it is up to an implementer to add additional mandatory attributes.

Mandatory Attributes	Rule
name	
agreementType	
agreementItem	
engagedParty	

Non Mandatory Attributes	Rule
description	
documentNumber	
initialDate	
statementOfIntent	
status	

Non Mandatory Attributes	Rule
version	
partyPrivacyProfile	
partyPrivacyProfileCharacteristic	
agreementAuthorization	
agreementPeriod	
agreementSpecification	
associatedAgreement	
characteristic	
completionDate	

Usage Samples

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

Request
POST /tmf-api/privacyManagement/v4/partyPrivacyAgreement Content-Type: application/json <pre>{ "agreementType": "commercial", "name": "Customer mass market privacy agreement", "agreementItem": [{ "productOffering": [{ "id": "9559", "href": "https://host:port/productOffering/bundledProductOffering/7120", "name": "Magic Offer" }], "termOrCondition": [{ "id": "8905", "description": "This agreement term or condition \ufffd", "validFor": { "endTime": "2019-09-06T09:56:38.679Z", "startTime": "2020-09-06T09:56:38.679Z" } }] }] }</pre>
Response

```

201
{
  "id": "6810",
  "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/6810",
  "agreementType": "commercial",
  "name": "Customer mass market privacy agreement",
  "agreementItem": [
    {
      "productOffering": [
        {
          "id": "9559",
          "href": "https://host:port/productOffering/bundledProductOffering/7120",
          "name": "Magic Offer"
        }
      ],
      "termOrCondition": [
        {
          "id": "8905",
          "description": "This agreement term or condition \ufffd",
          "validFor": {
            "endDateTime": "2019-09-06T09:56:38.679Z",
            "startDateTime": "2020-09-06T09:56:38.679Z"
          }
        }
      ]
    }
  ]
}

```

Patch party privacy agreement

PATCH /partyPrivacyAgreement/{id}

Description

This operation allows partial updates of a party privacy agreement entity. Support of json/merge (<https://tools.ietf.org/html/rfc7386>) is mandatory, support of json/patch (<http://tools.ietf.org/html/rfc5789>) is optional.

Note: If the update operation yields to the creation of sub-resources or relationships, the same rules concerning mandatory sub-resource attributes and default value settings in the POST operation applies to the PATCH operation. Hence these tables are not repeated here.

Patchable and Non Patchable Attributes

The tables below provide the list of patchable and non patchable attributes, including constraint rules on their usage.

Patchable Attributes	Rule
agreementType	
description	

Patchable Attributes	Rule
documentNumber	
initialDate	
name	
statementOfIntent	
status	
version	
partyPrivacyProfile	
partyPrivacyProfileCharacteristic	
agreementAuthorization	
agreementItem	
agreementPeriod	
agreementSpecification	
associatedAgreement	
characteristic	
completionDate	
engagedParty	

Non Patchable Attributes	Rule
id	
href	

Usage Samples

Here's an example of a request for patching a PartyPrivacyAgreement resource.

Request
PATCH /tmf-api/privacyManagement/v4/partyPrivacyAgreement/6810 Content-Type: application/merge-patch+json <pre>{ "name": "new name" }</pre>
Response
200 <pre>{ "id": "6810", "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/6810", "agreementType": "commercial", "description": "This agreements is", "documentNumber": 999, "initialDate": "2019-08-06T09:56:38.679Z", "name": "new name", "statementOfIntent": "Agreement on customer mass market privacy profile",</pre>

```

"status": "validated",
"version": "1",
"agreementAuthorization": [
  {
    "date": "2019-08-06T09:56:38.679Z",
    "signatureRepresentation": "Digital",
    "state": "approved"
  }
],
"agreementItem": [
  {
    "productOffering": [
      {
        "id": "9559",
        "href": "https://host:port/productOffering/bundledProductOffering/7120",
        "name": "Magic Offer"
      }
    ],
    "termOrCondition": [
      {
        "id": "8905",
        "description": "This agreement term or condition \ufffd",
        "validFor": {
          "endDateTime": "2019-09-06T09:56:38.679Z",
          "startDateTime": "2020-09-06T09:56:38.679Z"
        }
      }
    ]
  }
],
"agreementPeriod": {
  "endDateTime": "2019-09-06T09:56:38.679Z",
  "startDateTime": "2020-09-06T09:56:38.679Z"
},
"agreementSpecification": {
  "id": "8139",
  "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreementSpecification/8139",
  "description": "This agreement specification defines the rules of privacy to be followed by each party",
  "name": "General Agreement Specification"
},
"associatedAgreement": [
  {
    "id": "987654",
    "href": "http://serverlocation:port/privacyManagement/partyPrivacyAgreement/987654",
    "name": "General Privacy Agreement"
  }
],
"completionDate": {
  "endDateTime": "2019-09-06T09:56:38.679Z",
  "startDateTime": "2019-09-06T09:56:38.679Z"
},
"engagedPartyRole": [
  {
    "id": "1",
    "href": "http://serverLocation:port/partyManagement/partyRole/1",
    "name": "John Doe",
    "role": "customer"
  }
]

```

```

    }
  ],
  "partyPrivacyProfile": [
    {
      "id": "103",
      "href": "https://mycsp.com:8080/tmf-api/partyPrivacyProfile/103",
      "name": "individual Consents"
    }
  ],
  "partyPrivacyProfileCharacteristic": [
    {
      "id": "43",
      "name": "EmailAddress",
      "privacyUsagePurpose": "INFORMATION",
      "valueType": "string",
      "value": "Yes",
      "relatedParty": [
        {
          "id": "8632",
          "href": "https://mycsp.com:8080/tmf-api/partyManagement/v4/individual/8632",
          "name": "John Doe",
          "role": "Vendor",
          "@referredType": "Individual"
        }
      ]
    }
  ]
}

```

Delete party privacy agreement

DELETE /partyPrivacyAgreement/{id}

Description

This operation deletes a party privacy agreement entity.

Usage Samples

Here's an example of a request for deleting a PartyPrivacyAgreement resource.

Request
DELETE /tmf-api/privacyManagement/v4/partyPrivacyAgreement/42
Response
204

Operations on Party Privacy Agreement Status Example Type

API NOTIFICATIONS

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

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

Register listener

POST /hub

Description

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

Behavior

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

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

Usage Samples

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

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

Unregister listener

DELETE /hub/{id}

Description

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

Behavior

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

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

Usage Samples

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

Request
DELETE /api/hub/42 Accept: application/json
Response
204

Publish Event to listener

POST /client/listener

Description

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

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

Behavior

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

Usage Samples

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

Request
POST /client/listener Accept: application/json { "event": { EVENT BODY }, "eventType": "EVENT_TYPE" }
Response
201

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

Acknowledgements

Version History

Release Number	Date	Release led by:	Description
Release 1.0	15-Apr-2016	Pierre Gauthier TM Forum pgauthier@tmforum.org Fabien Venries (Orange) Julie Bertrand (Orange)	First Release of Draft Version of the Document.
Release 4.0	28-May-2020	Jacob Avraham Amdocs jacoba@amdocs.com	Version 4.0 of the API REST

Release History

Release Number	Date	Release led by:	Description
Pre-production	28-May-2020	Jacob Avraham Amdocs jacoba@amdocs.com	Version 4.0 of the API REST

Contributors to Document

Jacob Avraham, Amdocs	Pierre Gauthier, TM Forum
-----------------------	---------------------------