

TM Forum Specification

Test Case Management API User Guide

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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

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N/A

Introduction

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

SAMPLE USE CASES

The reader will find examples of use cases in TMF913 “Test API Component Suite” document.

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 `TestCase`, `TestSuite` and `NonFunctionalTestModel` inheriting properties from the abstract `ManagedArtifact` 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 `ManagedArtifact` instances some may be instances of `TestCase` where other could be instances of `TestSuite`. 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 `@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.

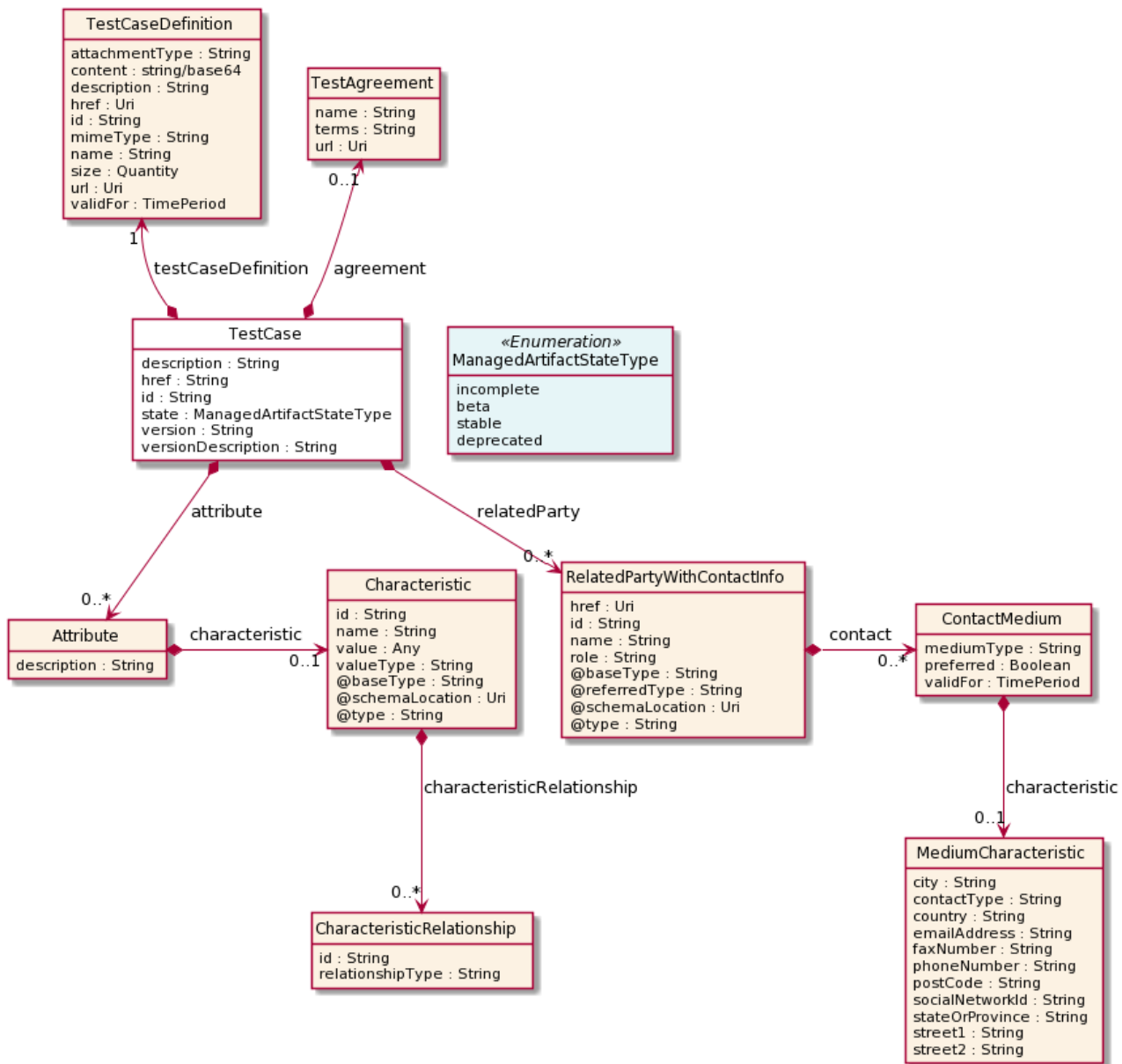
RESOURCE MODEL

Managed Entity and Task Resource Models

Test Case resource

A managed test case resource.

Resource model



Field descriptionsTestCase fields

description	A string. The description for the artifact.
version	A string. The artifact version.
versionDescription	A string. The artifact version description.
href	A string. Hyperlink to access the test resource.
id	A string. ID created by the implementing service.
testCaseDefinition	A test case definition (TestCaseDefinition). Test case definition.
agreement	A test agreement (TestAgreement).
attribute	A list of attributes (Attribute [*]).
relatedParty	A list of related party with contact infos (RelatedPartyWithContactInfo [*]). Related party specialization that includes contact information.
state	A managed artifact state type (ManagedArtifactStateType). Possible values for the state of a managed artifact: 'incomplete', 'beta', 'stable', 'deprecated'.

Attribute sub-resource

characteristic	A characteristic (Characteristic). Describes a given characteristic of an object or entity through a name/value pair.
description	A string. The attribute description.

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.

ContactMedium sub-resource

Indicates the contact medium that could be used to contact the party.

characteristic	A medium characteristic (MediumCharacteristic). Any additional characteristic(s) of this contact medium.
mediumType	A string. Type of the contact medium, such as: email address, telephone number, postal address.
preferred	A boolean. If true, indicates that is the preferred contact medium.
validFor	A time period. The time period that the contact medium is valid for.

MediumCharacteristic sub-resource

Describes the contact medium characteristics that could be used to contact a party (an individual or an organization).

city	A string. The city.
contactType	A string. The type of contact, for example: phone number such as mobile, fixed home, fixed office. postal address such as shipping installation....
country	A string. The country.
emailAddress	A string. Full email address in standard format.
faxNumber	A string. The fax number of the contact.
phoneNumber	A string. The primary phone number of the contact.
postCode	A string. Postcode.
socialNetworkId	A string. Identifier as a member of a social network.

stateOrProvince	A string. State or province.
street1	A string. Describes the street.
street2	A string. Complementary street description.

Quantity sub-resource

An amount in a given unit.

amount	A float. Numeric value in a given unit.
units	A string. Unit.

RelatedPartyWithContactInfo sub-resource

Related party specialization that includes contact information.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
role	A string. Role played by the related party.
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.
contact	A list of contact mediums (ContactMedium [*]). Indicates the contact medium that could be used to contact the party.

TestAgreement sub-resource

name	A string. The agreement name.
terms	A string. The terms of the agreement.
url	An uri (Uri). The agreement URL.

TestCaseDefinition sub-resource

Test case definition.

attachmentType	A string. Attachment type such as video, picture.
content	A base 6 4 (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	An uri (Uri). URI for this Attachment.
id	A string. Unique identifier for this particular attachment.
mimeType	A string. Attachment mime type such as extension file for video, picture and document.
name	A string. The name of the attachment.
url	An uri (Uri). Uniform Resource Locator, is a web page address (a subset of URI).
size	A quantity (Quantity). The size of the attachment.
validFor	A time period. The period of time for which the attachment is valid.

Json representation sample

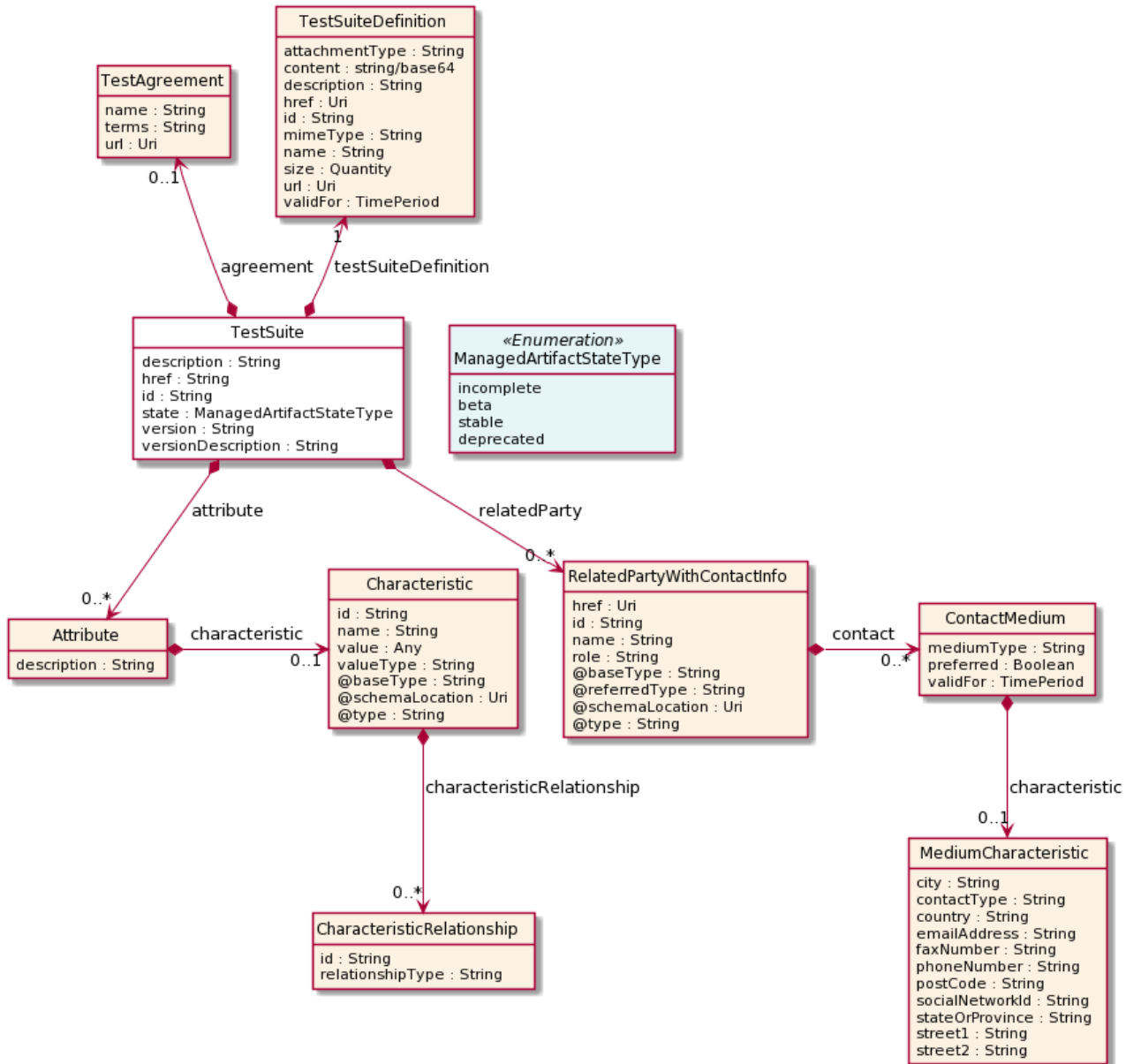
We provide below the json representation of an example of a 'TestCase' resource object

```
{
  "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
  "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
  "description": "Sample test case",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "testCaseDefinition": {
    "attachmentType": "vtpar",
    "content": "<base64-encoded test case>",
    "mimeType": "base64"
  }
}
```

Test Suite resource

A managed test suite resource.

Resource model



Field descriptions

TestSuite fields

- description A string. The description for the artifact.
- version A string. The artifact version.

versionDescription	A string. The artifact version description.
href	A string. Hyperlink to access the test resource.
id	A string. ID created by the implementing service.
testSuiteDefinition	A test suite definition (TestSuiteDefinition). Test suite definition.
agreement	A test agreement (TestAgreement).
attribute	A list of attributes (Attribute [*]).
relatedParty	A list of related party with contact infos (RelatedPartyWithContactInfo [*]). Related party specialization that includes contact information.
state	A managed artifact state type (ManagedArtifactStateType). Possible values for the state of a managed artifact: 'incomplete', 'beta', 'stable', 'deprecated'.

Attribute sub-resource

characteristic	A characteristic (Characteristic). Describes a given characteristic of an object or entity through a name/value pair.
description	A string. The attribute description.

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.

ContactMedium sub-resource

Indicates the contact medium that could be used to contact the party.

characteristic	A medium characteristic (MediumCharacteristic). Any additional characteristic(s) of this contact medium.
mediumType	A string. Type of the contact medium, such as: email address, telephone number, postal address.
preferred	A boolean. If true, indicates that is the preferred contact medium.
validFor	A time period. The time period that the contact medium is valid for.

MediumCharacteristic sub-resource

Describes the contact medium characteristics that could be used to contact a party (an individual or an organization).

city	A string. The city.
contactType	A string. The type of contact, for example: phone number such as mobile, fixed home, fixed office. postal address such as shipping installation....
country	A string. The country.
emailAddress	A string. Full email address in standard format.
faxNumber	A string. The fax number of the contact.
phoneNumber	A string. The primary phone number of the contact.
postCode	A string. Postcode.
socialNetworkId	A string. Identifier as a member of a social network.
stateOrProvince	A string. State or province.
street1	A string. Describes the street.
street2	A string. Complementary street description.

Quantity sub-resource

An amount in a given unit.

amount	A float. Numeric value in a given unit.
units	A string. Unit.

RelatedPartyWithContactInfo sub-resource

Related party specialization that includes contact information.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
role	A string. Role played by the related party.
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.
contact	A list of contact mediums (ContactMedium [*]). Indicates the contact medium that could be used to contact the party.

TestAgreement sub-resource

name	A string. The agreement name.
terms	A string. The terms of the agreement.
url	An uri (Uri). The agreement URL.

TestSuiteDefinition sub-resource

Test suite definition.

attachmentType	A string. Attachment type such as video, picture.
content	A base 64 (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	An uri (Uri). URI for this Attachment.

id	A string. Unique identifier for this particular attachment.
contentType	A string. Attachment mime type such as extension file for video, picture and document.
name	A string. The name of the attachment.
url	An uri (Uri). Uniform Resource Locator, is a web page address (a subset of URI).
size	A quantity (Quantity). The size of the attachment.
validFor	A time period. The period of time for which the attachment is valid.

Json representation sample

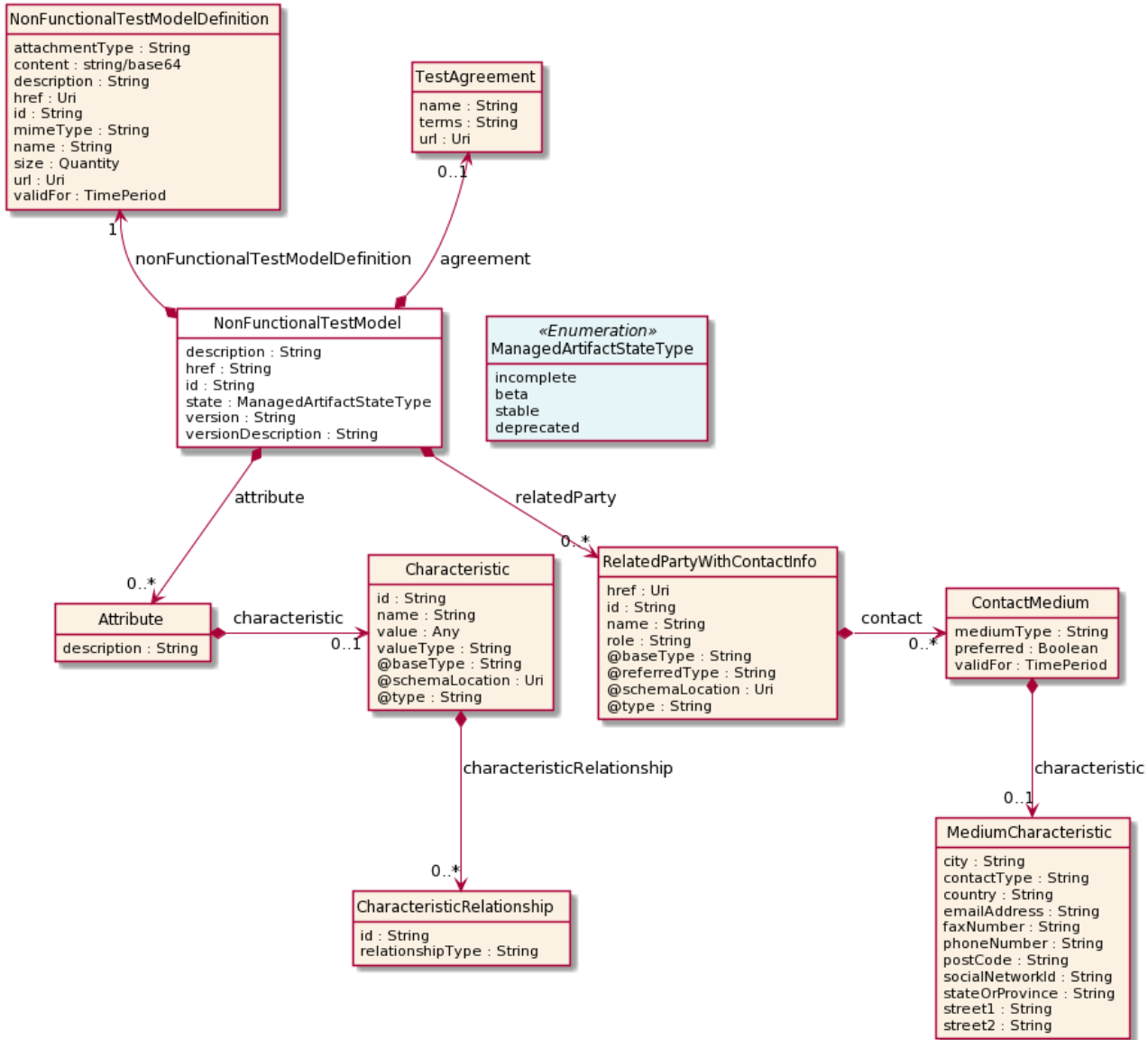
We provide below the json representation of an example of a 'TestSuite' resource object

```
{
  "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
  "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/aac9969d-219d-4ff1-b256-1765dcf9b342",
  "description": "Sample test suite",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "testSuiteDefinition": {
    "attachmentType": "testsuite",
    "content": "<base64-encoded test suite>",
    "contentType": "base64"
  }
}
```

Non Functional Test Model resource

A managed non-functional test model resource.

Resource model



Field descriptions

NonFunctionalTestModel fields

- description A string. The description for the artifact.
- version A string. The artifact version.
- versionDescription A string. The artifact version description.

href	A string. Hyperlink to access the test resource.
id	A string. ID created by the implementing service.
nonFunctionalTestModelDefinition	A non functional test model definition (NonFunctionalTestModelDefinition). Non-functional test model definition.
agreement	A test agreement (TestAgreement).
attribute	A list of attributes (Attribute [*]).
relatedParty	A list of related party with contact infos (RelatedPartyWithContactInfo [*]). Related party specialization that includes contact information.
state	A managed artifact state type (ManagedArtifactStateType). Possible values for the state of a managed artifact: 'incomplete', 'beta', 'stable', 'deprecated'.

Attribute sub-resource

characteristic	A characteristic (Characteristic). Describes a given characteristic of an object or entity through a name/value pair.
description	A string. The attribute description.

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.

ContactMedium sub-resource

Indicates the contact medium that could be used to contact the party.

characteristic	A medium characteristic (MediumCharacteristic). Any additional characteristic(s) of this contact medium.
mediumType	A string. Type of the contact medium, such as: email address, telephone number, postal address.
preferred	A boolean. If true, indicates that is the preferred contact medium.
validFor	A time period. The time period that the contact medium is valid for.

MediumCharacteristic sub-resource

Describes the contact medium characteristics that could be used to contact a party (an individual or an organization).

city	A string. The city.
contactType	A string. The type of contact, for example: phone number such as mobile, fixed home, fixed office. postal address such as shipping installation....
country	A string. The country.
emailAddress	A string. Full email address in standard format.
faxNumber	A string. The fax number of the contact.
phoneNumber	A string. The primary phone number of the contact.
postCode	A string. Postcode.
socialNetworkId	A string. Identifier as a member of a social network.
stateOrProvince	A string. State or province.
street1	A string. Describes the street.
street2	A string. Complementary street description.

NonFunctionalTestModelDefinition sub-resource

Non-functional test model definition.

attachmentType	A string. Attachment type such as video, picture.
content	A base 6 4 (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	An uri (Uri). URI for this Attachment.
id	A string. Unique identifier for this particular attachment.
mimeType	A string. Attachment mime type such as extension file for video, picture and document.
name	A string. The name of the attachment.
url	An uri (Uri). Uniform Resource Locator, is a web page address (a subset of URI).
size	A quantity (Quantity). The size of the attachment.
validFor	A time period. The period of time for which the attachment is valid.

Quantity sub-resource

An amount in a given unit.

amount	A float. Numeric value in a given unit.
units	A string. Unit.

RelatedPartyWithContactInfo sub-resource

Related party specialization that includes contact information.

@referredType	A string. The actual type of the target instance when needed for disambiguation.
role	A string. Role played by the related party.
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.

contact A list of contact mediums (ContactMedium [*]). Indicates the contact medium that could be used to contact the party.

TestAgreement sub-resource

name A string. The agreement name.

terms A string. The terms of the agreement.

url An uri (Uri). The agreement URL.

Json representation sample

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

```
{
  "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
  "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342",
  "description": "Sample non-functional test model",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "nonFunctionalTestModelDefinition": {
    "attachmentType": "nftestmodel",
    "content": "<base64-encoded non-functional test model>",
    "mimeType": "base64"
  }
}
```


Notification Resource Models

15 notifications are defined for this API

Notifications related to TestCase:

- TestCaseCreateEvent
- TestCaseChangeEvent
- TestCaseDeleteEvent
- TestCaseAttributeValueChangeEvent
- TestCaseStateChangeEvent

Notifications related to TestSuite:

- TestSuiteCreateEvent
- TestSuiteChangeEvent
- TestSuiteDeleteEvent
- TestSuiteAttributeValueChangeEvent
- TestSuiteStateChangeEvent

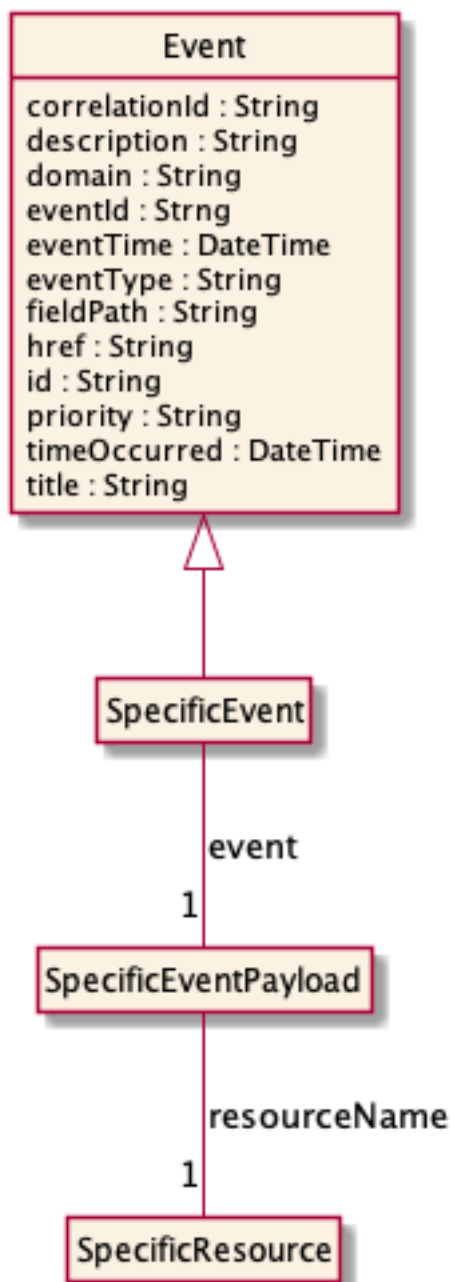
Notifications related to NonFunctionalTestModel:

- NonFunctionalTestModelCreateEvent
- NonFunctionalTestModelChangeEvent
- NonFunctionalTestModelDeleteEvent
- NonFunctionalTestModelAttributeValueChangeEvent
- NonFunctionalTestModelStateChangeEvent

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).



Test Case Create Event

Notification TestCaseCreateEvent case for resource TestCase

Json representation sample

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

```

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

```

```
"testCase" :
  {-- SEE TestCase RESOURCE SAMPLE --}
}
```

Test Case Change Event

Notification TestCaseChangeEvent case for resource TestCase

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestCaseChangeEvent",
  "event": {
    "testCase" :
      {-- SEE TestCase RESOURCE SAMPLE --}
  }
}
```

Test Case Delete Event

Notification TestCaseDeleteEvent case for resource TestCase

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestCaseDeleteEvent",
  "event": {
    "testCase" :
      {-- SEE TestCase RESOURCE SAMPLE --}
  }
}
```

Test Case Attribute Value Change Event

Notification TestCaseAttributeValueChangeEvent case for resource TestCase

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestCaseAttributeValueChangeEvent",
  "event": {
    "testCase" :
      {-- SEE TestCase RESOURCE SAMPLE --}
  }
}
```

Test Case State Change Event

Notification `TestCaseStateChangeEvent` case for resource `TestCase`

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestCaseStateChangeEvent",
  "event": {
    "testCase" :
      {-- SEE TestCase RESOURCE SAMPLE --}
  }
}
```

Test Suite Create Event

Notification `TestSuiteCreateEvent` case for resource `TestSuite`

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestSuiteCreateEvent",
  "event": {
    "testSuite" :
      {-- SEE TestSuite RESOURCE SAMPLE --}
  }
}
```

Test Suite Change Event

Notification `TestSuiteChangeEvent` case for resource `TestSuite`

Json representation sample

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

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "TestSuiteChangeEvent",
  "event": {
    "testSuite": {
      "-- SEE TestSuite RESOURCE SAMPLE --"
    }
  }
}
```

Test Suite Delete Event

Notification TestSuiteDeleteEvent case for resource TestSuite

Json representation sample

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

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "TestSuiteDeleteEvent",
  "event": {
    "testSuite": {
      "-- SEE TestSuite RESOURCE SAMPLE --"
    }
  }
}
```

Test Suite Attribute Value Change Event

Notification TestSuiteAttributeValueChangeEvent case for resource TestSuite

Json representation sample

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

```
{
  "eventId": "00001",
  "eventTime": "2015-11-16T16:42:25-04:00",
  "eventType": "TestSuiteAttributeValueChangeEvent",
  "event": {
    "testSuite": {
      "-- SEE TestSuite RESOURCE SAMPLE --"
    }
  }
}
```

Test Suite State Change Event

Notification TestSuiteStateChangeEvent case for resource TestSuite

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"TestSuiteStateChangeEvent",
  "event": {
    "testSuite" :
      {-- SEE TestSuite RESOURCE SAMPLE --}
  }
}
```

Non Functional Test Model Create Event

Notification NonFunctionalTestModelCreateEvent case for resource NonFunctionalTestModel

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"NonFunctionalTestModelCreateEvent",
  "event": {
    "nonFunctionalTestModel" :
      {-- SEE NonFunctionalTestModel RESOURCE SAMPLE --}
  }
}
```

Non Functional Test Model Change Event

Notification NonFunctionalTestModelChangeEvent case for resource NonFunctionalTestModel

Json representation sample

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

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

```
"eventType":"NonFunctionalTestModelChangeEvent",
"event": {
  "nonFunctionalTestModel" :
    {-- SEE NonFunctionalTestModel RESOURCE SAMPLE --}
}
}
```

Non Functional Test Model Delete Event

Notification NonFunctionalTestModelDeleteEvent case for resource NonFunctionalTestModel

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"NonFunctionalTestModelDeleteEvent",
  "event": {
    "nonFunctionalTestModel" :
      {-- SEE NonFunctionalTestModel RESOURCE SAMPLE --}
  }
}
```

Non Functional Test Model Attribute Value Change Event

Notification NonFunctionalTestModelAttributeValueChangeEvent case for resource NonFunctionalTestModel

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"NonFunctionalTestModelAttributeValueChangeEvent",
  "event": {
    "nonFunctionalTestModel" :
      {-- SEE NonFunctionalTestModel RESOURCE SAMPLE --}
  }
}
```

Non Functional Test Model State Change Event

Notification NonFunctionalTestModelStateChangeEvent case for resource NonFunctionalTestModel

Json representation sample

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

```
{
  "eventId":"00001",
  "eventTime":"2015-11-16T16:42:25-04:00",
  "eventType":"NonFunctionalTestModelStateChangeEvent",
  "event": {
    "nonFunctionalTestModel" :
      {-- SEE NonFunctionalTestModel 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

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

Notifications are also described in a subsequent section.

Operations on Test Case

List test cases

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

Description

This operation list test case 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 a list of test case(s).

Request
GET /tmf-api/testCase/v4/testCase Accept: application/json
Response
200 <pre>[{ "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample test case 1", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", "characteristic": { "emailAddress": "testUser@abc.com" } }] }] }, { "state": "stable", "testCaseDefinition": { "content": "<base64-encoded test case> - please see Example 1 in Appendix 1", "mimeType": "base64", "url": "http://myservice.com/artifact/1234" } }]</pre>

Retrieve test case

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

Description

This operation retrieves a test case 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 specific test case.

Request
<pre>GET /tmf-api/testCase/v4/testCase/3180 Accept: application/json</pre>
Response
<pre>200 { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample test case 1", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", "characteristic": { "emailAddress": "testUser@abc.com" } }] }], "state": "stable", "testCaseDefinition": { "content": "<base64-encoded test case> - please see Example 1 in Appendix 1", "mimeType": "base64", } }</pre>

```

    "url": "http://myservice.com/artifact/1234"
  }
}
    
```

Create test case

POST /testCase

Description

This operation creates a test case entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a TestCase, 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
description	
version	
termsOfService	
contact	
license	
testCaseDefinition	

Non Mandatory Attributes	Rule
versionDescription	
agreement	
attribute	
relatedParty	
state	

Usage Samples

Here's an example of a request for creating a test case.

```

Request

POST /tmf-api/testCase/v4/testCase
Content-Type: application/json

{
  "description": "Sample test case 1",
  "version": "1.2.3",
  "relatedParty": [
    
```

```

{
  "name": "testUser",
  "@referredType": "Individual",
  "role": "Owner",
  "contact": [
    {
      "mediumType": "email",
      "characteristic": {
        "emailAddress": "testUser@abc.com"
      }
    }
  ]
},
"state": "stable",
"testCaseDefinition": {
  "attachmentType": "vtpar",
  "content": "<base64-encoded test case> - please see Example 1 in Appendix 1",
  "mimeType": "base64"
}
}

```

Response

201

```

{
  "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
  "href": "https://myscp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
  "description": "Sample test case 1",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "testCaseDefinition": {
    "content": "<base64-encoded test case> - please see Example 1 in Appendix 1",
    "mimeType": "base64",
    "url": "http://myservice.com/artifact/1234"
  }
}

```

```
}

```

Here's an example of a request for creating a test case by referring definition from artifact.

Request

POST /tmf-api/testCase/v4/testCase
Content-Type: application/json

```
{
  "description": "Sample test case 1",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "testCaseDefinition": {
    "url": "http://myservice.com/artifact/1234",
    "mimeType": "string"
  }
}
```

Response

201

```
{
  "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
  "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
  "description": "Sample test case 1",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [

```

```

    {
      "mediumType": "email",
      "characteristic": {
        "emailAddress": "testUser@abc.com"
      }
    }
  ],
  "state": "stable",
  "testCaseDefinition": {
    "content": "<base64-encoded test case> - please see Example 1 in Appendix 1",
    "mimeType": "base64",
    "url": "http://myservice.com/artifact/1234"
  }
}

```

Patch test case

PATCH /testCase/{id}

Description

This operation allows partial updates of a test case 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
description	
versionDescription	
testCaseDefinition	
agreement	
attribute	
relatedParty	
state	

Non Patchable Attributes	Rule
id	
href	

Non Patchable Attributes	Rule
version	

Usage Samples

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

Request
PATCH /tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342 Content-Type: application/merge-patch+json <pre>{ "name": "new name" }</pre>
Response
200 <pre>{ "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample test case", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", "characteristic": { "emailAddress": "testUser@abc.com" } }] }], "state": "stable", "testCaseDefinition": { "attachmentType": "vtpar", "content": "<base64-encoded test case>", "mimeType": "base64" }, "name": "new name" }</pre>

Delete test case

DELETE /testCase/{id}

Description

This operation deletes a test case entity.

Usage Samples

Here's an example of a request for deleting a test case.

Request
DELETE /tmf-api/testCase/v4/testCase/3180
Response
204

Operations on Test Suite

List test suites

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

Description

This operation list test suite 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 a list of test suite(s).

Request
GET /tmf-api/testCase/v4/testSuite Accept: application/json

Response

200

```
[
  {
    "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42",
    "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42",
    "description": "Sample test suite 1",
    "version": "1.2.3",
    "relatedParty": [
      {
        "name": "testUser",
        "role": "Owner",
        "@referredType": "Individual",
        "contact": [
          {
            "mediumType": "email",
            "characteristic": {
              "emailAddress": "testUser@abc.com"
            }
          }
        ]
      }
    ]
  },
  "state": "stable",
  "testSuiteDefinition": {
    "content": "<base64-encoded test suite> - please see Example 3 in Appendix 1",
    "mimeType": "base64",
    "url": "http://myservice.com/artifact/5678"
  }
}
]
```

Retrieve test suite**GET /testSuite/{id}?fields=...&{filtering}****Description**

This operation retrieves a test suite 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 specific test suite.

Request
GET /tmf-api/testCase/v4/testSuite/3180 Accept: application/json
Response
200 <pre>{ "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42", "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42", "description": "Sample test suite 1", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", "characteristic": { "emailAddress": "testUser@abc.com" } }] }], "state": "stable", "testSuiteDefinition": { "content": "<base64-encoded test suite> - please see Example 3 in Appendix 1", "mimeType": "base64", "url": "http://myservice.com/artifact/5678" } }</pre>

Create test suite

POST /testSuite

Description

This operation creates a test suite entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a TestSuite, 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
description	
version	
termsOfService	
contact	
license	
testSuiteDefinition	

Non Mandatory Attributes	Rule
versionDescription	
agreement	
attribute	
relatedParty	
state	

Usage Samples

Here's an example of a request for creating a test suite.

```

Request

POST /tmf-api/testCase/v4/testSuite
Content-Type: application/json

{
  "description": "Sample test suite 1",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ]
}
    
```

```

"state": "stable",
"testSuiteDefinition": {
  "attachmentType": "vtpar",
  "content": "<base64-encoded test suite> - please see Example 2 in Appendix 1",
  "mimeType": "base64"
}
}

```

Response

201

```

{
  "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42",
  "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42",
  "description": "Sample test suite 1",
  "version": "1.2.3",
  "relatedParty": [
    {
      "name": "testUser",
      "role": "Owner",
      "@referredType": "Individual",
      "contact": [
        {
          "mediumType": "email",
          "characteristic": {
            "emailAddress": "testUser@abc.com"
          }
        }
      ]
    }
  ],
  "state": "stable",
  "testSuiteDefinition": {
    "content": "<base64-encoded test suite> - please see Example 3 in Appendix 1",
    "mimeType": "base64",
    "url": "http://myservice.com/artifact/5678"
  }
}

```

Patch test suite

PATCH /testSuite/{id}

Description

This operation allows partial updates of a test suite 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
description	
versionDescription	
testSuiteDefinition	
agreement	
attribute	
relatedParty	
state	

Non Patchable Attributes	Rule
id	
href	
version	

Usage Samples

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

Request
PATCH /tmf-api/testCase/v4/testSuite/aac9969d-219d-4ff1-b256-1765dcf9b342 Content-Type: application/merge-patch+json { "name": "new name" }
Response
200 { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample test suite", "version": "1.2.3", "relatedParty": [

```
{
  "name": "testUser",
  "role": "Owner",
  "@referredType": "Individual",
  "contact": [
    {
      "mediumType": "email",
      "characteristic": {
        "emailAddress": "testUser@abc.com"
      }
    }
  ]
},
"state": "stable",
"testSuiteDefinition": {
  "attachmentType": "testsuite",
  "content": "<base64-encoded test suite>",
  "mimeType": "base64"
},
"name": "new name"
}
```

Delete test suite

DELETE /testSuite/{id}

Description

This operation deletes a test suite entity.

Usage Samples

Here's an example of a request for deleting a test suite.

Request
DELETE /tmf-api/testCase/v4/testSuite/3180
Response
204

Operations on Non Functional Test Model

List non functional test models

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

Description

This operation list non functional test model 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 NonFunctionalTestModel resources.

Request
GET /tmf-api/testCase/v4/nonFunctionalTestModel Accept: application/json
Response
200 [{ "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample non-functional test model", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", "characteristic": { "emailAddress": "testUser@abc.com" } }] }] }]


```

"state": "stable",
"nonFunctionalTestModelDefinition": {
  "attachmentType": "nftestmodel",
  "content": "<base64-encoded non-functional test model>",
  "mimeType": "base64"
}
}
]

```

Retrieve non functional test model

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

Description

This operation retrieves a non functional test model 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 NonFunctionalTestModel resource.

Request
GET /tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342 Accept: application/json
Response
200 <pre> { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample non-functional test model", "version": "1.2.3", "relatedParty": [{ "name": "testUser", "role": "Owner", "@referredType": "Individual", "contact": [{ "mediumType": "email", </pre>

```

        "characteristic": {
            "emailAddress": "testUser@abc.com"
        }
    ]
},
"state": "stable",
"nonFunctionalTestModelDefinition": {
    "attachmentType": "nftestmodel",
    "content": "<base64-encoded non-functional test model>",
    "mimeType": "base64"
}
}
    
```

Create non functional test model

POST /nonFunctionalTestModel

Description

This operation creates a non functional test model entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a NonFunctionalTestModel, 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
description	
version	
termsOfService	
contact	
license	
nonFunctionalTestModelDefinition	

Non Mandatory Attributes	Rule
versionDescription	
agreement	
attribute	
relatedParty	
state	

Usage Samples

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

Request
POST /tmf-api/testCase/v4/nonFunctionalTestModel Content-Type: application/json <pre>{ "description": "Sample non-functional test model", "version": "1.2.3", "nonFunctionalTestModelDefinition": { "attachmentType": "nftestmodel", "content": "<base64-encoded non-functional test model>", "mimeType": "base64" } }</pre>
Response
201 <pre>{ "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample non-functional test model", "version": "1.2.3", "nonFunctionalTestModelDefinition": { "attachmentType": "nftestmodel", "content": "<base64-encoded non-functional test model>", "mimeType": "base64" } }</pre>

Patch non functional test model

PATCH /nonFunctionalTestModel/{id}

Description

This operation allows partial updates of a non functional test model 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
description	
versionDescription	
nonFunctionalTestModelDefinition	
agreement	
attribute	
relatedParty	
state	

Non Patchable Attributes	Rule
id	
href	
version	

Usage Samples

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

Request
PATCH /tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342 Content-Type: application/merge-patch+json <pre>{ "name": "new name" }</pre>
Response
200 <pre>{ "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/aac9969d-219d-4ff1-b256-1765dcf9b342", "description": "Sample non-functional test model", "version": "1.2.3", "relatedParty": [</pre>

```
{
  "name": "testUser",
  "role": "Owner",
  "@referredType": "Individual",
  "contact": [
    {
      "mediumType": "email",
      "characteristic": {
        "emailAddress": "testUser@abc.com"
      }
    }
  ]
},
"state": "stable",
"nonFunctionalTestModelDefinition": {
  "attachmentType": "nftestmodel",
  "content": "<base64-encoded non-functional test model>",
  "mimeType": "base64"
},
"name": "new name"
}
```

Delete non functional test model

DELETE /nonFunctionalTestModel/{id}

Description

This operation deletes a non functional test model entity.

Usage Samples

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

Request
DELETE /tmf-api/testCase/v4/nonFunctionalTestModel/42
Response
204

API NOTIFICATIONS

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

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

Register listener

POST /hub

Description

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

Behavior

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

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

Usage Samples

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

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

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.


```

{{
  "testCaseName": "testcase-1",
  "testScenarioName": "tmf-vtp"
}}
    
```

Example 3. ONAP VTP test suite representation example 1 (responses)

Encoded value
W3sKICAgICJ0ZXN0Q2FzZU5hbWU0iAidGVzdGNhc2UtMSIsCiAgICAidGVzdFNjZW5hcmlvTmFtZSI6ICJ0bWYtdnRwlgogICAglmlkljogImFhYzk5NjlkLTlxOWQtNGZmMS1iMjU2LTE3NjVkyY2Y5YjM0MilsCiAgICAiaHJlZiI6ICJodHRwczovL215Y3NwOjgwODAvdG1mLWFwaS90ZXN0Q2FzZS92NC90ZXN0Q2FzZS9hYWw5OTY5ZC0yMTlkLTRmZjEtYjI1Ni0xNzY1ZGNmOWIzNDliCn1dCg==
Original /decoded JSON object
<pre> {{ "testCaseName": "testcase-1", "testScenarioName": "tmf-vtp" "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342" }} </pre>

Example 4. ONAP VTP test suite representation example 2 (requests)

Encoded value
W3sKICAgICJ0ZXN0Q2FzZU5hbWU0iAidGVzdGNhc2UtMSIsCiAgICAidGVzdFNjZW5hcmlvTmFtZSI6ICJ0bWYtdnRwlgogIH0sCiAgewogICAglmRlc3RDYXNITmFtZSI6ICJ0ZXN0Y2FzZS0yYiIwKICAgICJ0ZXN0U2NlbnFyaW90YW1lIjogImRtZi12dHailAogIH1dCg==
Original /decoded JSON object
<pre> {{ "testCaseName": "testcase-1", "testScenarioName": "tmf-vtp" }, { "testCaseName": "testcase-2", "testScenarioName": "tmf-vtp" }} </pre>

Acknowledgements

Document History

Version History

Version Number	Date Modified	Modified by:	Description of changes
4.0.0	22-Jun-2020	Alan Pope	Final edits for initial release

Release History

Release Status	Date	Release led by:	Description
Pre-production	19-Jun-2020	Pierre Gauthier TM Forum pgauthier@tmforum.org Edward Pershwitz ITEA Technologies edward.pershwitz@iteatechnologies.com	First Release of the Document.
Production	23-Sep-2020	Adrienne Walcott	Updated to reflect TM Forum Approved Status

Contributors to Document

Kanagaraj Manickam	Huawei Technologies Co., Ltd
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