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Test Result Management API User Guide

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N/A

Introduction

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

SAMPLE USE CASES

Reader will find example of use cases using Usage API in “Open Digital Business Scenarios and Use Cases” 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 `TestCaseResult` and `TestSuiteResult` inheriting properties from the abstract `ResourceEntity` 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 `ResourceEntity` instances some may be instances of `TestCaseResult` where other could be instances of `TestSuiteResult`. 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 `TestExecutionRef` 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 `TestCaseExecutionRef` or `TestSuiteExecutionRef`, 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.

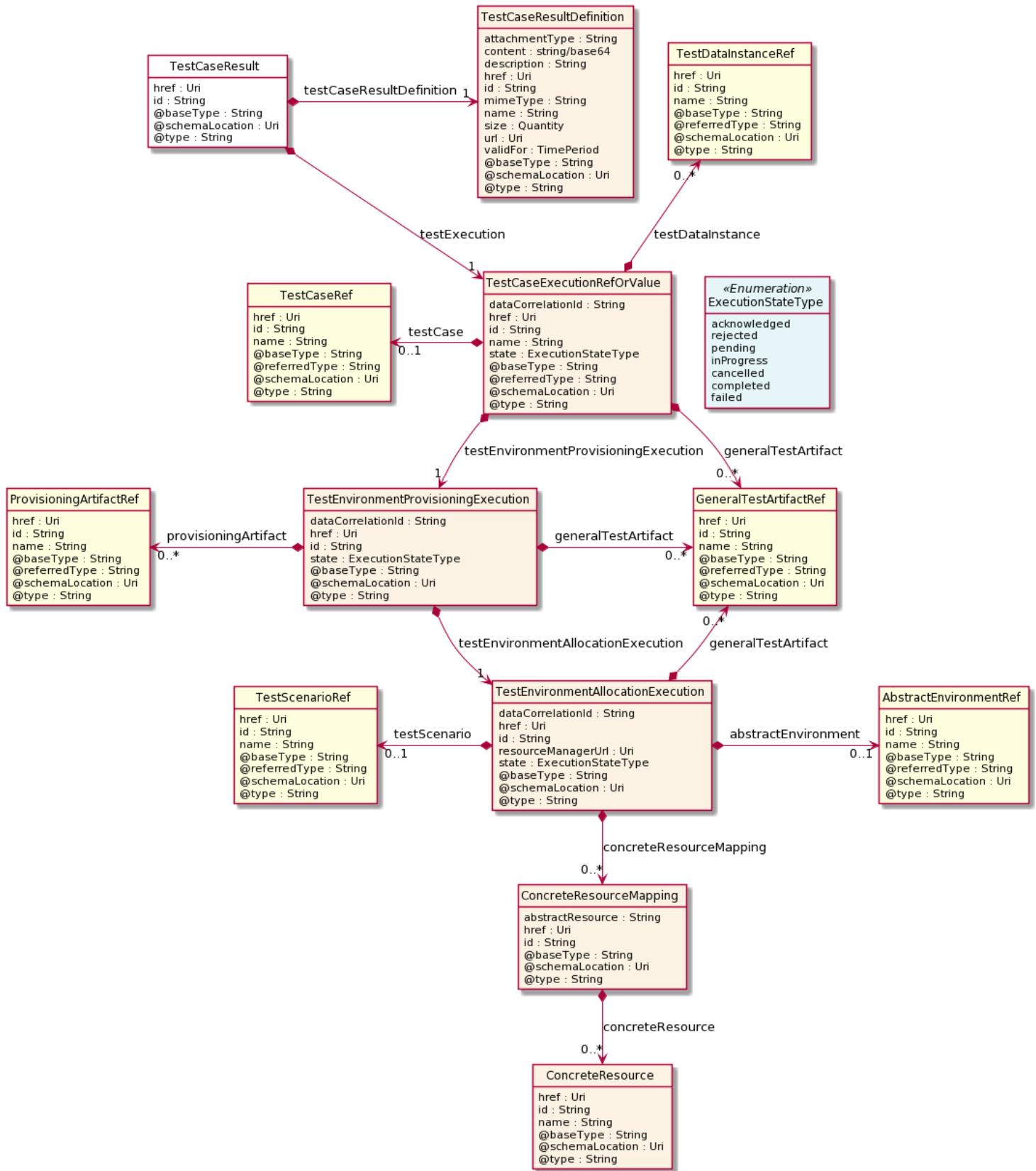
RESOURCE MODEL

Managed Entity and Task Resource Models

Test Case Result resource

A managed test case result resource.

Resource model



Field descriptions

TestCaseResult fields

href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
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.
testCaseResultDefinition	A test case result definition (TestCaseResultDefinition). Test case result definition.
testExecution	A test case execution ref or value (TestCaseExecutionRefOrValue).

ConcreteResource sub-resource

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.
name	A string. Concrete resource name.

ConcreteResourceMapping sub-resource

Individual mapping from an abstract resource to a list of concrete resources.

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.
abstractResource	A string.
concreteResource	A list of concrete resources (ConcreteResource [*]).

Quantity sub-resource

An amount in a given unit.

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

TestCaseExecutionRefOrValue sub-resource

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
testCase	A test case reference (TestCaseRef). A reference to a managed test case artifact.
testDataInstance	A list of test data instance references (TestDataInstanceRef [*]). A reference to a managed test data instance resource.
testEnvironmentProvisioningExecution	A test environment provisioning execution (TestEnvironmentProvisioningExecution). REST resource for test environment provisioning lifecycle.

generalTestArtifact A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.

state An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestCaseResultDefinition sub-resource

Test case result 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). Hyperlink reference.

id A string. unique identifier.

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).

@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.

size A quantity (Quantity). The size of the attachment.

validFor A time period. The period of time for which the attachment is valid.

TestEnvironmentAllocationExecution sub-resource

REST resource for test environment allocation lifecycle.

dataCorrelationId A string. Data correlation ID passed in by the API consumer.

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.
abstractEnvironment	An abstract environment reference (AbstractEnvironmentRef). A reference to a managed test abstract environment resource.
concreteResourceMapping	A list of concrete resource mappings (ConcreteResourceMapping [*]). Individual mapping from an abstract resource to a list of concrete resources.
resourceManagerUrl	An uri (Uri).
testScenario	A test scenario reference (TestScenarioRef). A reference to a managed test scenario resource.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestEnvironmentProvisioningExecution sub-resource

REST resource for test environment provisioning lifecycle.

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
provisioningArtifact	A list of provisioning artifact references (ProvisioningArtifactRef [*]). A reference to a managed provisioning artifact resource.
testEnvironmentAllocationExecution	A test environment allocation execution (TestEnvironmentAllocationExecution). REST resource for test environment allocation lifecycle.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.

state	An execution state type (ExecutionStateType). Possible values for the state of the execution.
-------	---

AbstractEnvironmentRef relationship

A reference to a managed test abstract environment 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.

GeneralTestArtifactRef relationship

A reference to a managed general test artifact 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.

ProvisioningArtifactRef relationship

A reference to a managed provisioning artifact 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.

TestCaseRef relationship

A reference to a managed test case artifact.

@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.

TestDataInstanceRef relationship

A reference to a managed test data instance 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.

TestScenarioRef relationship

A reference to a managed test scenario 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 'TestCaseResult' resource object

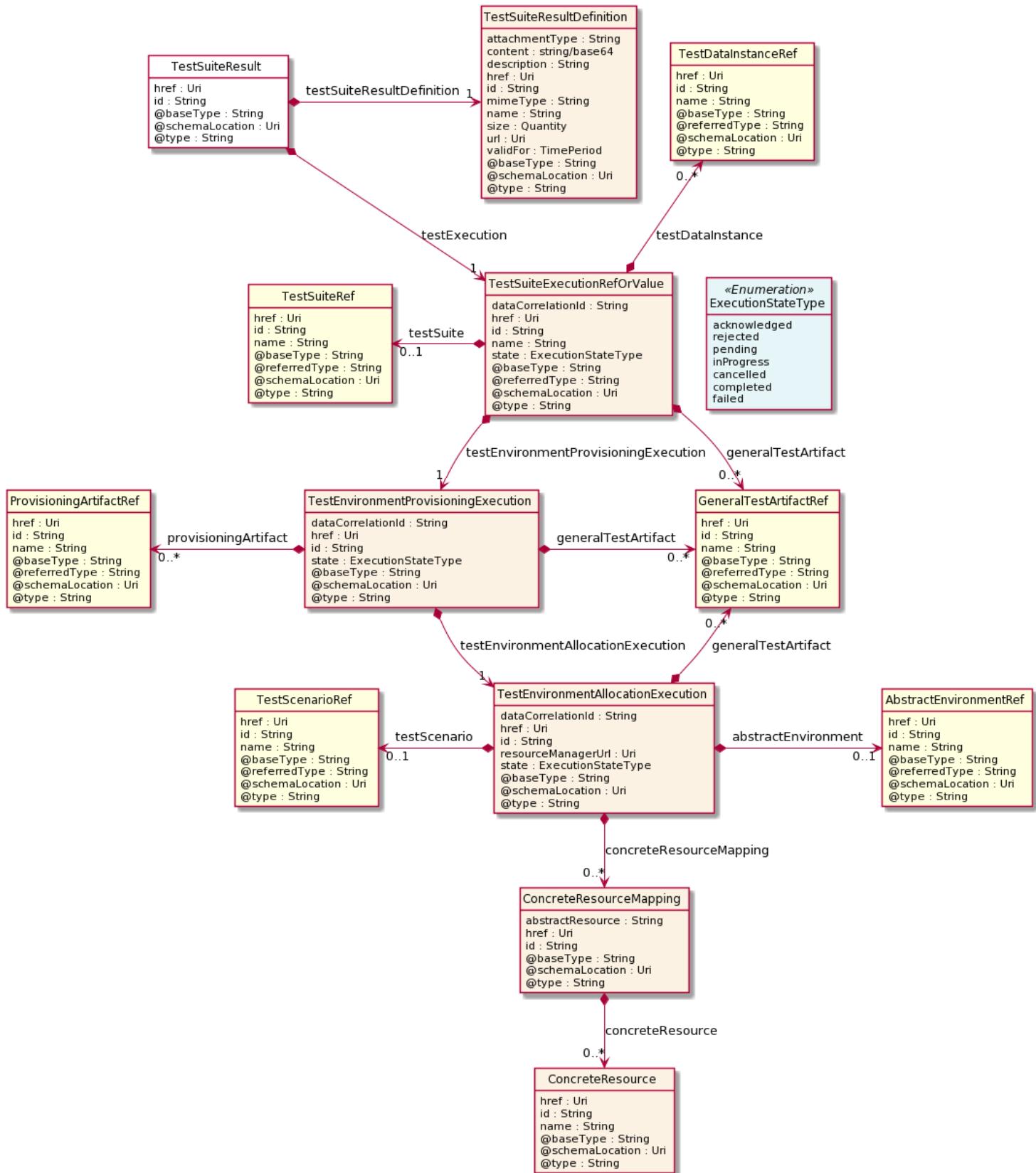
```
{
  "id": "0b60c741-a395-408c-8e41-51fa20d0aa50",
  "href": "https://mycsp:8080/tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50",
  "testCaseResultDefinition": {
    "attachmentType": "json",
    "content": "<base64-encoded test case result>",
    "mimeType": "base64"
  },
  "testExecution": {
    "id": "1a522dd3-83c9-411b-9fd6-c375a7856621",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621",
    "dataCorrelationId": "77d3aa51-d90b-4c04-aa28-950fe2874bc7",
    "testCase": {
      "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
      "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
      "@referredType": "TestCase"
    },
    "generalTestArtifact": [
      {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
      }
    ],
    "testDataInstance": [
      {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
      }
    ],
    "TestEnvironmentProvisioningExecution": {
      "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
      "@referredType": "TestEnvironmentProvisioningExecution"
    }
  }
}
```

```
"href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
  "testEnvironmentAllocationExecution": {
    "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
    "resourceManagerUrl": "https://myserver.com/resourceManager",
    "testScenario": {
      "id": "35776d4f-1851-435c-8573-802438f41e7a",
      "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
      "@referredType": "TestScenario"
    },
    "concreteResourceMapping": [
      {
        "abstractResource": "phone",
        "concreteResources": [
          {
            "name": "iPhone_1289"
          }
        ]
      }
    ],
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentAllocationExecution"
  },
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "TestCaseExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestCaseResult"
}
```

Test Suite Result resource

A managed test case result resource.

Resource model



Field descriptions

TestSuiteResult fields

href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
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.
testExecution	A test suite execution ref or value (TestSuiteExecutionRefOrValue).
testSuiteResultDefinition	A test suite result definition (TestSuiteResultDefinition). Test suite result definition.

ConcreteResource sub-resource

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.
name	A string. Concrete resource name.

ConcreteResourceMapping sub-resource

Individual mapping from an abstract resource to a list of concrete resources.

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.
abstractResource	A string.
concreteResource	A list of concrete resources (ConcreteResource [*]).

Quantity sub-resource

An amount in a given unit.

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

TestEnvironmentAllocationExecution sub-resource

REST resource for test environment allocation lifecycle.

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
abstractEnvironment	An abstract environment reference (AbstractEnvironmentRef). A reference to a managed test abstract environment resource.
concreteResourceMapping	A list of concrete resource mappings (ConcreteResourceMapping [*]). Individual mapping from an abstract resource to a list of concrete resources.
resourceManagerUrl	An uri (Uri).
testScenario	A test scenario reference (TestScenarioRef). A reference to a managed test scenario resource.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestEnvironmentProvisioningExecution sub-resource

REST resource for test environment provisioning lifecycle.

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
provisioningArtifact	A list of provisioning artifact references (ProvisioningArtifactRef [*]). A reference to a managed provisioning artifact resource.
testEnvironmentAllocationExecution	A test environment allocation execution (TestEnvironmentAllocationExecution). REST resource for test environment allocation lifecycle.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestSuiteExecutionRefOrValue sub-resource

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
@referredType	A string. The actual type of the target instance when needed for disambiguation.

name	A string. Name of the related entity.
testSuite	A test suite reference (TestSuiteRef). A reference to a managed test suite resource.
testDataInstance	A list of test data instance references (TestDataInstanceRef [*]). A reference to a managed test data instance resource.
testEnvironmentProvisioningExecution	A test environment provisioning execution (TestEnvironmentProvisioningExecution). REST resource for test environment provisioning lifecycle.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestSuiteResultDefinition sub-resource

Test suite result 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). Hyperlink reference.
id	A string. unique identifier.
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).
@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.
size	A quantity (Quantity). The size of the attachment.

validFor A time period. The period of time for which the attachment is valid.

AbstractEnvironmentRef relationship

A reference to a managed test abstract environment 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.

GeneralTestArtifactRef relationship

A reference to a managed general test artifact 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.

ProvisioningArtifactRef relationship

A reference to a managed provisioning artifact 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.

TestDataInstanceRef relationship

A reference to a managed test data instance 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.

TestScenarioRef relationship

A reference to a managed test scenario 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.

TestSuiteRef relationship

A reference to a managed test suite 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 'TestSuiteResult' resource object

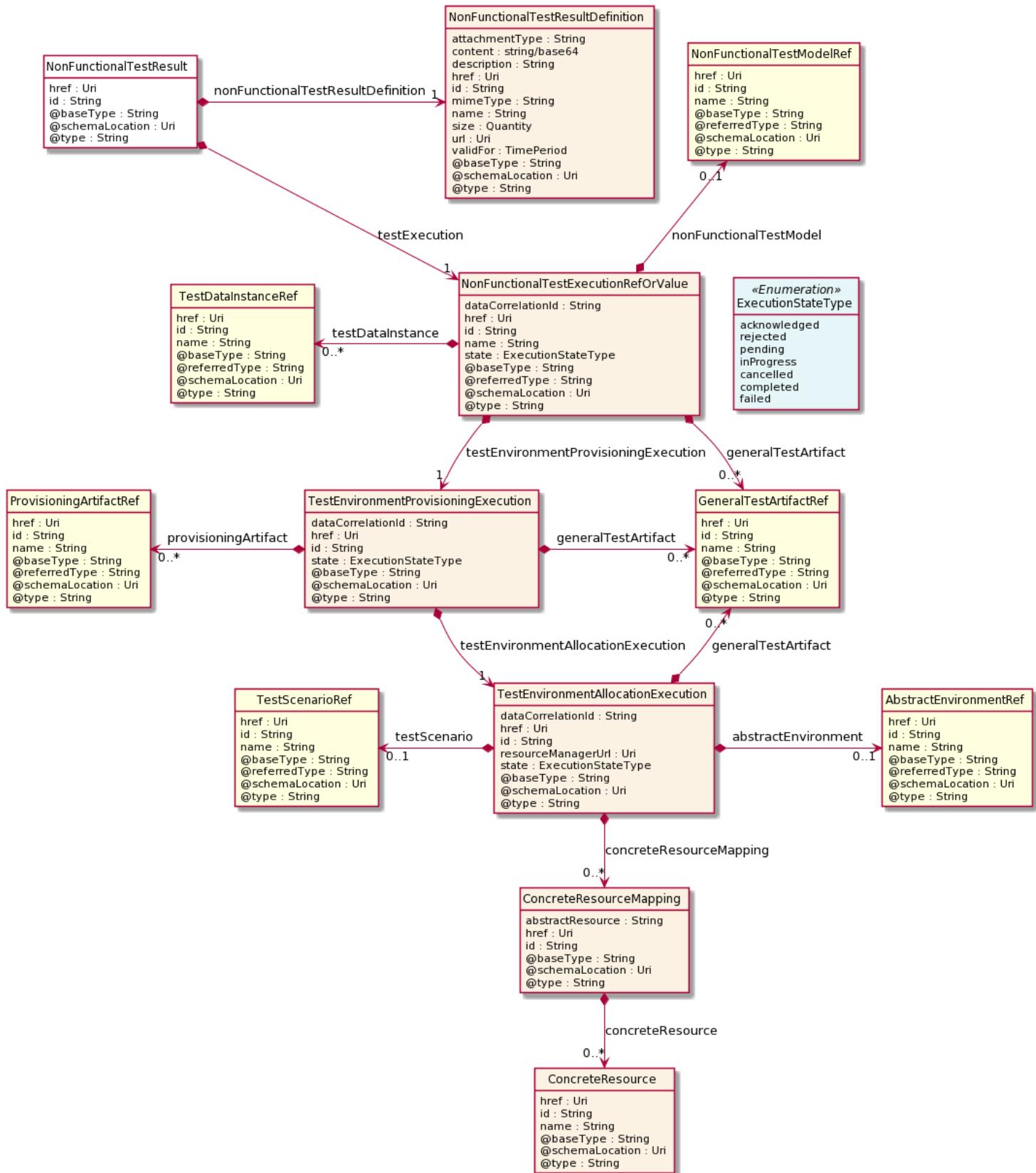
```
{
  "id": "b5c4d079-f4c1-439a-a082-1f25c53c79b3",
  "href": "https://mycsp:8080/tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3",
  "testSuiteResultDefinition": {
    "attachmentType": "json",
    "content": "<base64-encoded test suite result>",
    "mimeType": "base64"
  },
  "testExecution": {
    "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-1e80c8b13124",
    "dataCorrelationId": "77d3aa51-d90b-4c04-aa28-950fe2874bc7",
    "testSuite": {
      "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42",
      "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42",
      "@referredType": "TestSuite"
    },
    "generalTestArtifact": [
      {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
      }
    ],
    "testDataInstance": [
      {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
      }
    ],
    "TestEnvironmentProvisioningExecution": {
      "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
      "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
      "@referredType": "TestEnvironmentProvisioningExecution"
    }
  }
}
```

```
"dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
"testEnvironmentAllocationExecution": {
    "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01ccf12cd",
    "resourceManagerUrl": "https://myserver.com/resourceManager",
    "testScenario": {
        "id": "35776d4f-1851-435c-8573-802438f41e7a",
        "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
        "@referredType": "TestScenario"
    },
    "concreteResourceMapping": [
        {
            "abstractResource": "phone",
            "concreteResources": [
                {
                    "name": "iPhone_1289"
                }
            ]
        }
    ],
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentAllocationExecution"
},
"state": "completed",
"@baseType": "Execution",
"@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "TestSuiteExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestSuiteResult"
}
```

Non Functional Test Result resource

A managed non-functional test result resource.

Resource model



Field descriptions

NonFunctionalTestResult fields

href	An uri (Uri). Hyperlink reference.
id	A string. unique identifier.
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.
nonFunctionalTestResultDefinition	A non functional test result definition (NonFunctionalTestResultDefinition). Non-functional test result definition.
testExecution	A non functional test execution ref or value (NonFunctionalTestExecutionRefOrValue).

ConcreteResource sub-resource

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.
name	A string. Concrete resource name.

ConcreteResourceMapping sub-resource

Individual mapping from an abstract resource to a list of concrete resources.

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.
abstractResource	A string.
concreteResource	A list of concrete resources (ConcreteResource [*]).

NonFunctionalTestExecutionRefOrValue sub-resource

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
@referredType	A string. The actual type of the target instance when needed for disambiguation.
name	A string. Name of the related entity.
nonFunctionalTestModel	A non functional test model reference (NonFunctionalTestModelRef). A reference to a managed non-functional test model resource.
testDataInstance	A list of test data instance references (TestDataInstanceRef [*]). A reference to a managed test data instance resource.
testEnvironmentProvisioningExecution	A test environment provisioning execution (TestEnvironmentProvisioningExecution). REST resource for test environment provisioning lifecycle.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

NonFunctionalTestResultDefinition sub-resource

Non-functional test result 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). Hyperlink reference.
id	A string. unique identifier.
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).
@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.
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.

TestEnvironmentAllocationExecution sub-resource

REST resource for test environment allocation lifecycle.

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
abstractEnvironment	An abstract environment reference (AbstractEnvironmentRef). A reference to a managed test abstract environment resource.
concreteResourceMapping	A list of concrete resource mappings (ConcreteResourceMapping [*]). Individual mapping from an abstract resource to a list of concrete resources.
resourceManagerUrl	An uri (Uri).
testScenario	A test scenario reference (TestScenarioRef). A reference to a managed test scenario resource.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.
state	An execution state type (ExecutionStateType). Possible values for the state of the execution.

TestEnvironmentProvisioningExecution sub-resource

REST resource for test environment provisioning lifecycle.

dataCorrelationId	A string. Data correlation ID passed in by the API consumer.
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.
provisioningArtifact	A list of provisioning artifact references (ProvisioningArtifactRef [*]). A reference to a managed provisioning artifact resource.
testEnvironmentAllocationExecution	A test environment allocation execution (TestEnvironmentAllocationExecution). REST resource for test environment allocation lifecycle.
generalTestArtifact	A list of general test artifact references (GeneralTestArtifactRef [*]). A reference to a managed general test artifact resource.

state	An execution state type (ExecutionStateType). Possible values for the state of the execution.
-------	---

AbstractEnvironmentRef relationship

A reference to a managed test abstract environment 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.

GeneralTestArtifactRef relationship

A reference to a managed general test artifact 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.

NonFunctionalTestModelRef relationship

A reference to a managed non-functional test model 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.

ProvisioningArtifactRef relationship

A reference to a managed provisioning artifact 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.

TestDataInstanceRef relationship

A reference to a managed test data instance 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.

TestScenarioRef relationship

A reference to a managed test scenario 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 'NonFunctionalTestResult' resource object

```
{
  "id": "f5c8b58e-9b3f-475d-a5cc-096688f1d909",
  "href": "https://mycsp:8080/tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909",
  "testCaseResultDefinition": {
    "attachmentType": "json",
    "content": "<base64-encoded non-functional test result>",
    "mimeType": "base64"
  },
  "testExecution": {
    "id": "195dae44-a433-49bf-a15b-9ab198dad0e2",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2",
    "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
    "nonFunctionalTestModel": {
      "id": "16db32a3-e008-401b-8168-4ebac788f9d8",
      "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8",
      "@referredType": "NonFunctionalTestModel"
    },
    "generalTestArtifact": [
      {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
      }
    ],
    "testDataInstance": [
      {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
      }
    ]
}
```

```

"TestEnvironmentProvisioningExecution": {
    "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
    "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
    "testEnvironmentAllocationExecution": {
        "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
        "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
        "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
        "resourceManagerUrl": "https://myserver.com/resourceManager",
        "testScenario": {
            "id": "35776d4f-1851-435c-8573-802438f41e7a",
            "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
            "@referredType": "TestScenario"
        },
        "concreteResourceMapping": [
            {
                "abstractResource": "phone",
                "concreteResources": [
                    {
                        "name": "iPhone_1289"
                    }
                ]
            }
        ],
        "state": "completed",
        "@baseType": "Execution",
        "@type": "TestEnvironmentAllocationExecution"
    },
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "NonFunctionalTestExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "NonFunctionalTestResult"
}
}

```

Notification Resource Models

9 notifications are defined for this API

Notifications related to TestCaseResult:

- TestCaseResultCreateEvent

- TestCaseResultChangeEvent
- TestCaseResultDeleteEvent

Notifications related to TestSuiteResult:

- TestSuiteResultCreateEvent
- TestSuiteResultChangeEvent
- TestSuiteResultDeleteEvent

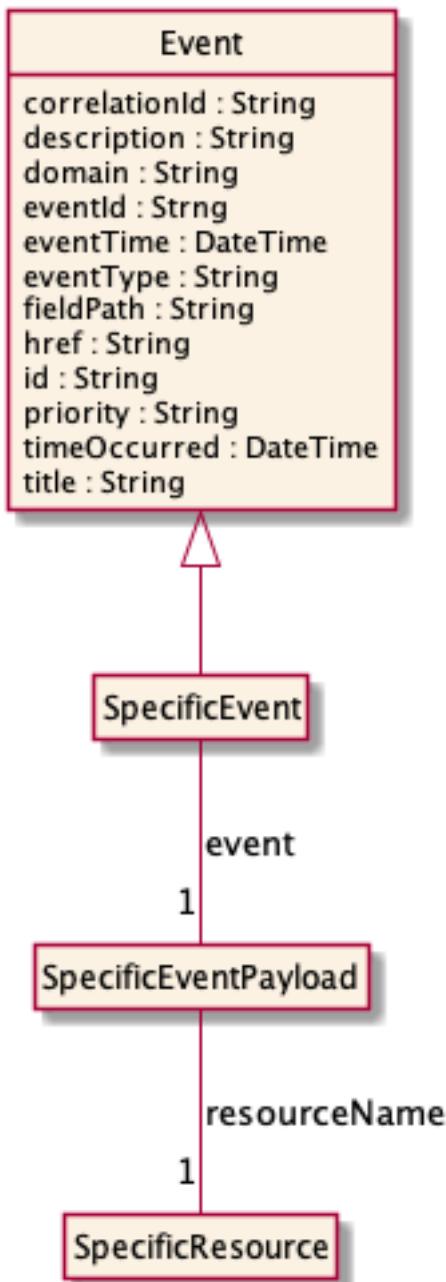
Notifications related to NonFunctionalTestResult:

- NonFunctionalTestResultCreateEvent
- NonFunctionalTestResultChangeEvent
- NonFunctionalTestResultDeleteEvent

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 Result Create Event

Notification TestCaseResultCreateEvent case for resource TestCaseResult

Json representation sample

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

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

```
"testCaseResult" :  
    {-- SEE TestCaseResult RESOURCE SAMPLE --}  
}  
}
```

Test Case Result Change Event

Notification TestCaseResultChangeEvent case for resource TestCaseResult

Json representation sample

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

```
{  
    "eventId":"00001",  
    "eventTime":"2015-11-16T16:42:25-04:00",  
    "eventType":"TestCaseResultChangeEvent",  
    "event":{  
        "testCaseResult" :  
            {-- SEE TestCaseResult RESOURCE SAMPLE --}  
    }  
}
```

Test Case Result Delete Event

Notification TestCaseResultDeleteEvent case for resource TestCaseResult

Json representation sample

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

```
{  
    "eventId":"00001",  
    "eventTime":"2015-11-16T16:42:25-04:00",  
    "eventType":"TestCaseResultDeleteEvent",  
    "event":{  
        "testCaseResult" :  
            {-- SEE TestCaseResult RESOURCE SAMPLE --}  
    }  
}
```

Test Suite Result Create Event

Notification TestSuiteResultCreateEvent case for resource TestSuiteResult

Json representation sample

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

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"TestSuiteResultCreateEvent",  
  "event": {  
    "testSuiteResult" :  
      {-- SEE TestSuiteResult RESOURCE SAMPLE --}  
  }  
}
```

Test Suite Result Change Event

Notification TestSuiteResultChangeEvent case for resource TestSuiteResult

Json representation sample

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

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"TestSuiteResultChangeEvent",  
  "event": {  
    "testSuiteResult" :  
      {-- SEE TestSuiteResult RESOURCE SAMPLE --}  
  }  
}
```

Test Suite Result Delete Event

Notification TestSuiteResultDeleteEvent case for resource TestSuiteResult

Json representation sample

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

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"TestSuiteResultDeleteEvent",  
  "event": {  
    "testSuiteResult" :  
      {-- SEE TestSuiteResult RESOURCE SAMPLE --}  
  }  
}
```

```
    }
```

Non Functional Test Result Create Event

Notification NonFunctionalTestResultCreateEvent case for resource NonFunctionalTestResult

Json representation sample

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

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"NonFunctionalTestResultCreateEvent",  
  "event": {  
    "nonFunctionalTestResult" :  
      {-- SEE NonFunctionalTestResult RESOURCE SAMPLE --}  
  }  
}
```

Non Functional Test Result Change Event

Notification NonFunctionalTestResultChangeEvent case for resource NonFunctionalTestResult

Json representation sample

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

```
{  
  "eventId":"00001",  
  "eventTime":"2015-11-16T16:42:25-04:00",  
  "eventType":"NonFunctionalTestResultChangeEvent",  
  "event": {  
    "nonFunctionalTestResult" :  
      {-- SEE NonFunctionalTestResult RESOURCE SAMPLE --}  
  }  
}
```

Non Functional Test Result Delete Event

Notification NonFunctionalTestResultDeleteEvent case for resource NonFunctionalTestResult

Json representation sample

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

```
{  
    "eventId": "00001",  
    "eventTime": "2015-11-16T16:42:25-04:00",  
    "eventType": "NonFunctionalTestResultDeleteEvent",  
    "event": {  
        "nonFunctionalTestResult":  
            {"-- SEE NonFunctionalTestResult 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 Result

List test case results

```
GET /testCaseResult?fields=...&{filtering}
```

Description

This operation lists test case result 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 ONAP VTP example of a request for retrieving a list of test case results. This example does not use test environments.

Request
<pre>GET /tmf-api/testResult/v4/testCaseResult Accept: application/json</pre>
Response
<pre>200 [{ "id": "0b60c741-a395-408c-8e41-51fa20d0aa50", "href": "https://mycsp:8080/tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50", "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test case result> - please see Example 1 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "1a522dd3-83c9-411b-9fd6-c375a7856621", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621", "dataCorrelationId": "c38a6acf-ec2d-43b7-a3c6-2d39de1d300c", "testCase": { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "@referredType": "TestCase" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7", "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7", "@referredType": "TestDataInstance" }], "state": "completed", } }]</pre>

```

    "@baseType": "TestExecution",
    "@type": "TestCaseExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestCaseResult"
}
]

```

Retrieve test case result

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

Description

This operation retrieves a test case result 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 ONAP VTP example of a request for retrieving a specific test case result. This example does not use test environments.

Request
<pre>GET /tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50 Accept: application/json</pre>
Response
<pre>200 { "id": "0b60c741-a395-408c-8e41-51fa20d0aa50", "href": "https://mycsp:8080/tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50", "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test case result> - please see Example 1 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "1a522dd3-83c9-411b-9fd6-c375a7856621", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621", "dataCorrelationId": "c38a6acf-ec2d-43b7-a3c6-2d39de1d300c", } }</pre>

```

"testCase": {
    "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
    "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
    "@referredType": "TestCase"
},
"generalTestArtifact": [
    {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-
dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
    }
],
"testDataInstance": [
    {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
    }
],
"state": "completed",
"@baseType": "TestExecution",
"@type": "TestCaseExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestCaseResult"
}
}

```

Create test case result

POST /testCaseResult

Description

This operation creates a test case result entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a TestCaseResult, 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
testCaseResultDefinition	
testExecution	

Non Mandatory Attributes	Rule
@baseType	
@schemaLocation	
@type	

Usage Samples

Here's an ONAP VTP example of a request for creating a test case result. This example does not use test environments.

Request
<pre>POST /tmf-api/testResult/v4/testCaseResult Content-Type: application/json { "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test case result> - please see Example 1 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "1a522dd3-83c9-411b-9fd6-c375a7856621", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621", "dataCorrelationId": "c38a6acf-ec2d-43b7-a3c6-2d39de1d300c", "testCase": { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "@referredType": "TestCase" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7", "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7", "@referredType": "TestDataInstance" }], "state": "completed", "@baseType": "TestExecution", "@type": "TestCaseExecution" }, "state": "stable",</pre>

```
    "@baseType": "TestResult",
    "@type": "TestCaseResult"
}
```

Response

201

```
{
  "id": "0b60c741-a395-408c-8e41-51fa20d0aa50",
  "href": "https://mycsp:8080/tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50",
  "testCaseResultDefinition": {
    "attachmentType": "json",
    "content": "<base64-encoded test case result> - please see Example 1 in Appendix 1",
    "mimeType": "base64"
  },
  "testExecution": {
    "id": "1a522dd3-83c9-411b-9fd6-c375a7856621",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621",
    "dataCorrelationId": "c38a6acf-ec2d-43b7-a3c6-2d39de1d300c",
    "testCase": {
      "id": "aac9969d-219d-4ff1-b256-1765dcf9b342",
      "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342",
      "@referredType": "TestCase"
    },
    "generalTestArtifact": [
      {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
      }
    ],
    "testDataInstance": [
      {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
      }
    ],
    "state": "completed",
    "@baseType": "TestExecution",
    "@type": "TestCaseExecution"
  },
  "state": "stable",
  "@baseType": "TestResult",
  "@type": "TestCaseResult"
}
```

Patch test case result

PATCH /testCaseResult/{id}

Description

This operation allows partial updates of a test case result 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
testCaseResultDefinition	

Non Patchable Attributes	Rule
href	
id	
href	
id	
@baseType	
@schemaLocation	
@type	
testExecution	

Usage Samples

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

Request
<pre>PATCH /tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50 Content-Type: application/merge-patch+json { "name": "new name" }</pre>

Response
<p>200</p> <pre>{ "id": "0b60c741-a395-408c-8e41-51fa20d0aa50", "href": "https://mycsp:8080/tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50", "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test case result>", "mimeType": "base64" }, "testExecution": { "id": "1a522dd3-83c9-411b-9fd6-c375a7856621", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testCaseExecution/1a522dd3-83c9-411b-9fd6-c375a7856621", "dataCorrelationId": "77d3aa51-d90b-4c04-aa28-950fe2874bc7", "testCase": { "id": "aac9969d-219d-4ff1-b256-1765dcf9b342", "href": "https://mycsp:8080/tmf-api/testCase/v4/testCase/aac9969d-219d-4ff1-b256-1765dcf9b342", "@referredType": "TestCase" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7", "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7", "@referredType": "TestDataInstance" }], "TestEnvironmentProvisioningExecution": { "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d", "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea", "testEnvironmentAllocationExecution": { "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a", "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd", "resourceManagerUrl": "https://myserver.com/resourceManager", "testScenario": { "id": "35776d4f-1851-435c-8573-802438f41e7a", "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a", "@referredType": "TestScenario" } } } } }</pre>

```

},
"concreteResourceMapping": [
{
  "abstractResource": "phone",
  "concreteResources": [
    {
      "name": "iPhone_1289"
    }
  ]
},
{
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentAllocationExecution"
},
{
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentProvisioningExecution"
},
{
  "state": "completed",
  "@baseType": "TestExecution",
  "@type": "TestCaseExecution"
},
{
  "state": "stable",
  "@baseType": "TestResult",
  "@type": "TestCaseResult",
  "name": "new name"
}
}

```

Delete test case result

DELETE /testCaseResult/{id}

Description

This operation deletes a test case result entity.

Usage Samples

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

Request
DELETE /tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50
Response

204

Operations on Test Suite Result

List test suite results

```
GET /testSuiteResult?fields=...&{filtering}
```

Description

This operation lists test suite result 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 ONAP VTP example of a request for retrieving a list of test suite results. This example does not use test environments.

Request
<pre>GET /tmf-api/testResult/v4/testSuiteResult Accept: application/json</pre>
Response
<pre>200 [{ "id": "b5c4d079-f4c1-439a-a082-1f25c53c79b3", "href": "https://mycsp:8080/tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3", "testSuiteResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test suite result> - please see Example 2 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-1e80c8b13124", "dataCorrelationId": "aac9969d-219d-4ff1-b256-1765dcf9b342", "testSuite": { "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42", "href": "https://mycsp:8080/tmf-api/testSuite/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42" } } }]</pre>

```

    "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42",
    "@referredType": "TestSuite"
},
"generalTestArtifact": [
    {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-
dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
    }
],
"testDataInstance": [
    {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-
6b1ed970dfc7",
        "@referredType": "TestDataInstance"
    }
],
"state": "completed",
"@baseType": "TestExecution",
"@type": "TestSuiteExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestSuiteResult"
}
]

```

Retrieve test suite result

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

Description

This operation retrieves a test suite result 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 ONAP VTP example of a request for retrieving a specific test suite result. This example does not use test environments.

Request
<pre>GET /tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3 Accept: application/json</pre>

Response	
200	<pre>{ "id": "b5c4d079-f4c1-439a-a082-1f25c53c79b3", "href": "https://mycsp:8080/tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3", "testSuiteResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test suite result> - please see Example 2 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-1e80c8b13124", "dataCorrelationId": "aac9969d-219d-4ff1-b256-1765dcf9b342", "testSuite": { "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42", "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42", "@referredType": "TestSuite" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7", "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7", "@referredType": "TestDataInstance" }], "state": "completed", "@baseType": "TestExecution", "@type": "TestSuiteExecution" }, {"state": "stable", "@baseType": "TestResult", "@type": "TestSuiteResult" }]}</pre>

Create test suite result

POST /testSuiteResult

Description

This operation creates a test suite result entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a TestSuiteResult, 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
testExecution	
testSuiteResultDefinition	

Non Mandatory Attributes	Rule
@baseType	
@schemaLocation	
@type	

Usage Samples

Here's an ONAP VTP example of a request for creating a test suite result. This example does not use test environments.

Request
<pre>POST /tmf-api/testResult/v4/testSuiteResult Content-Type: application/json { "testSuiteResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test suite result> - please see Example 2 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-1e80c8b13124", "dataCorrelationId": "aac9969d-219d-4ff1-b256-1765dcf9b342", "testSuite": { "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42", "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42", "@referredType": "TestSuite" } } }</pre>

```

    },
    "generalTestArtifact": [
        {
            "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
            "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-
dd86a40b8974",
            "@referredType": "GeneralTestArtifact"
        }
    ],
    "testDataInstance": [
        {
            "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
            "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
            "@referredType": "TestDataInstance"
        }
    ],
    "state": "completed",
    "@baseType": "TestExecution",
    "@type": "TestSuiteExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestSuiteResult"
}

```

Response

201

```
{
    "id": "b5c4d079-f4c1-439a-a082-1f25c53c79b3",
    "href": "https://mycsp:8080/tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3",
    "testSuiteResultDefinition": {
        "attachmentType": "json",
        "content": "<base64-encoded test suite result> - please see Example 2 in Appendix 1",
        "mimeType": "base64"
    },
    "testExecution": {
        "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124",
        "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-
1e80c8b13124",
        "dataCorrelationId": "aac9969d-219d-4ff1-b256-1765dcf9b342",
        "testSuite": {
            "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42",
            "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42",
            "@referredType": "TestSuite"
        },
        "generalTestArtifact": [
            {
                "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
                "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-
dd86a40b8974",
                "@referredType": "GeneralTestArtifact"
            }
        ]
    }
}
```

```

    "@referredType": "GeneralTestArtifact"
  }
],
"testDataInstance": [
  {
    "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
    "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
    "@referredType": "TestDataInstance"
  }
],
"state": "completed",
"@baseType": "TestExecution",
"@type": "TestSuiteExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "TestSuiteResult"
}

```

Patch test suite result

PATCH /testSuiteResult/{id}

Description

This operation allows partial updates of a test suite result 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
testSuiteResultDefinition	

Non Patchable Attributes	Rule
href	
id	
href	
id	
@baseType	
@schemaLocation	

Non Patchable Attributes	Rule
@type	
testExecution	

Usage Samples

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

Request
<pre>PATCH /tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3 Content-Type: application/merge-patch+json { "name": "new name" }</pre>
Response
<pre>200 { "id": "b5c4d079-f4c1-439a-a082-1f25c53c79b3", "href": "https://mycsp:8080/tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3", "testSuiteResultDefinition": { "attachmentType": "json", "content": "<base64-encoded test suite result>", "mimeType": "base64" }, "testExecution": { "id": "48c76edf-31fc-4f2b-a409-1e80c8b13124", "href": "https://mycsp:8080/tmf-api/testExecution/v4/testSuiteExecution/48c76edf-31fc-4f2b-a409-1e80c8b13124", "dataCorrelationId": "77d3aa51-d90b-4c04-aa28-950fe2874bc7", "testSuite": { "id": "4cb18d40-a35f-4261-a9e9-20ab58498c42", "href": "https://mycsp:8080/tmf-api/testCase/v4/testSuite/4cb18d40-a35f-4261-a9e9-20ab58498c42", "@referredType": "TestSuite" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ </pre>

```
"id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
"href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
"@referredType": "TestDataInstance"
},
],
"TestEnvironmentProvisioningExecution": {
  "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
  "testEnvironmentAllocationExecution": {
    "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
    "resourceManagerUrl": "https://myserver.com/resourceManager",
    "testScenario": {
      "id": "35776d4f-1851-435c-8573-802438f41e7a",
      "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
      "@referredType": "TestScenario"
    },
    "concreteResourceMapping": [
      {
        "abstractResource": "phone",
        "concreteResources": [
          {
            "name": "iPhone_1289"
          }
        ]
      }
    ],
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentAllocationExecution"
  },
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentProvisioningExecution"
},
{
  "state": "completed",
  "@baseType": "TestExecution",
  "@type": "TestSuiteExecution"
},
{
  "state": "stable",
  "@baseType": "TestResult",
  "@type": "TestSuiteResult",
  "name": "new name"
}
```

Delete test suite result

DELETE /testSuiteResult/{id}

Description

This operation deletes a test suite result entity.

Usage Samples

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

Request
DELETE /tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3
Response
204

Operations on Non Functional Test Result

List non functional test results

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

Description

This operation lists non functional test result 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 non-functional test results. This example uses a test environment.

Request

GET /tmf-api/testResult/v4/nonFunctionalTestResult
Accept: application/json

Response

200

```
[  
  {  
    "id": "f5c8b58e-9b3f-475d-a5cc-096688f1d909",  
    "href": "https://mycsp:8080/tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909",  
    "testCaseResultDefinition": {  
      "attachmentType": "json",  
      "content": "<base64-encoded non-functional test result> - please see Example 3 in Appendix 1",  
      "mimeType": "base64"  
    },  
    "testExecution": {  
      "id": "195dae44-a433-49bf-a15b-9ab198dad0e2",  
      "href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2",  
      "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",  
      "nonFunctionalTestModel": {  
        "id": "16db32a3-e008-401b-8168-4ebac788f9d8",  
        "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8",  
        "@referredType": "NonFunctionalTestModel"  
      },  
      "generalTestArtifact": [  
        {  
          "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",  
          "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",  
          "@referredType": "GeneralTestArtifact"  
        }  
      ],  
      "testDataInstance": [  
        {  
          "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",  
          "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",  
          "@referredType": "TestDataInstance"  
        }  
      ],  
      "TestEnvironmentProvisioningExecution": {  
        "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",  
        "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",  
        "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",  
        "testEnvironmentAllocationExecution": {  
          "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",  
          "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a"  
        }  
      }  
    }  
]
```

```

4f48-b64e-93f8db9b614a",
  "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01ccf12cd",
  "resourceManagerUrl": "https://myserver.com/resourceManager",
  "testScenario": {
    "id": "35776d4f-1851-435c-8573-802438f41e7a",
    "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
    "@referredType": "TestScenario"
  },
  "concreteResourceMapping": [
    {
      "abstractResource": "phone",
      "concreteResources": [
        {
          "name": "iPhone_1289"
        }
      ]
    },
    {
      "state": "completed",
      "@baseType": "Execution",
      "@type": "TestEnvironmentAllocationExecution"
    },
    {
      "state": "completed",
      "@baseType": "Execution",
      "@type": "TestEnvironmentProvisioningExecution"
    },
    {
      "state": "completed",
      "@baseType": "TestExecution",
      "@type": "NonFunctionalTestExecution"
    },
    {
      "state": "stable",
      "@baseType": "TestResult",
      "@type": "NonFunctionalTestResult"
    }
  ]
]

```

Retrieve non functional test result

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

Description

This operation retrieves a non functional test result 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 non-functional test result. This example uses a test environment.

Request
GET /tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909 Accept: application/json
Response
200 { "id": "f5c8b58e-9b3f-475d-a5cc-096688f1d909", "href": "https://mycsp:8080/tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909", "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded non-functional test result> - please see Example 3 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "195dae44-a433-49bf-a15b-9ab198dad0e2", "href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2", "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea", "nonFunctionalTestModel": { "id": "16db32a3-e008-401b-8168-4ebac788f9d8", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8", "@referredType": "NonFunctionalTestModel" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], "testDataInstance": [{ "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7", "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7", "@referredType": "TestDataInstance" }] }

```

],
"TestEnvironmentProvisioningExecution": {
  "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
  "testEnvironmentAllocationExecution": {
    "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
    "resourceManagerUrl": "https://myserver.com/resourceManager",
    "testScenario": {
      "id": "35776d4f-1851-435c-8573-802438f41e7a",
      "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
      "@referredType": "TestScenario"
    },
    "concreteResourceMapping": [
      {
        "abstractResource": "phone",
        "concreteResources": [
          {
            "name": "iPhone_1289"
          }
        ]
      }
    ],
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentAllocationExecution"
  },
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "NonFunctionalTestExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "NonFunctionalTestResult"
}

```

Create non functional test result

POST /nonFunctionalTestResult

Description

This operation creates a non functional test result entity.

Mandatory and Non Mandatory Attributes

The following tables provide the list of mandatory and non mandatory attributes when creating a NonFunctionalTestResult, 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
nonFunctionalTestResultDefinition	
testExecution	

Non Mandatory Attributes	Rule
@baseType	
@schemaLocation	
@type	

Usage Samples

Here's an example of a request for creating a non-functional test result. This example uses a test environment.

Request
<pre> POST /tmf-api/testResult/v4/nonFunctionalTestResult Content-Type: application/json { "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded non-functional test result> - please see Example 3 in Appendix 1", "mimeType": "base64" }, "testExecution": { "id": "195dae44-a433-49bf-a15b-9ab198dad0e2", "href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2", "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea", "nonFunctionalTestModel": { "id": "16db32a3-e008-401b-8168-4ebac788f9d8", "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8", "@referredType": "NonFunctionalTestModel" }, "generalTestArtifact": [{ "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974", "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974", "@referredType": "GeneralTestArtifact" }], } } </pre>

```
"testDataInstance": [
  {
    "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
    "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
    "@referredType": "TestDataInstance"
  }
],
"TestEnvironmentProvisioningExecution": {
  "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
  "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
  "testEnvironmentAllocationExecution": {
    "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
    "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
    "resourceManagerUrl": "https://myserver.com/resourceManager",
    "testScenario": {
      "id": "35776d4f-1851-435c-8573-802438f41e7a",
      "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
      "@referredType": "TestScenario"
    },
    "concreteResourceMapping": [
      {
        "abstractResource": "phone",
        "concreteResources": [
          {
            "name": "iPhone_1289"
          }
        ]
      }
    ],
    "state": "completed",
    "@baseType": "Execution",
    "@type": "TestEnvironmentAllocationExecution"
  },
  "state": "completed",
  "@baseType": "Execution",
  "@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "NonFunctionalTestExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "NonFunctionalTestResult"
}
```

Response

201

```
{
  "id": "f5c8b58e-9b3f-475d-a5cc-096688f1d909",
  "href": "https://mycsp:8080/tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909",
  "testCaseResultDefinition": {
    "attachmentType": "json",
    "content": "<base64-encoded non-functional test result> - please see Example 3 in Appendix 1",
    "mimeType": "base64"
  },
  "testExecution": {
    "id": "195dae44-a433-49bf-a15b-9ab198dad0e2",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2",
    "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
    "nonFunctionalTestModel": {
      "id": "16db32a3-e008-401b-8168-4ebac788f9d8",
      "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8",
      "@referredType": "NonFunctionalTestModel"
    },
    "generalTestArtifact": [
      {
        "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
        "@referredType": "GeneralTestArtifact"
      }
    ],
    "testDataInstance": [
      {
        "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
        "@referredType": "TestDataInstance"
      }
    ],
    "TestEnvironmentProvisioningExecution": {
      "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
      "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
      "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
      "testEnvironmentAllocationExecution": {
        "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
        "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
        "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
        "resourceManagerUrl": "https://myserver.com/resourceManager",
        "testScenario": {
          "id": "35776d4f-1851-435c-8573-802438f41e7a",
          "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573"
        }
      }
    }
  }
}
```

```

802438f41e7a",
    "@referredType": "TestScenario"
},
"concreteResourceMapping": [
    {
        "abstractResource": "phone",
        "concreteResources": [
            {
                "name": "iPhone_1289"
            }
        ]
    }
],
"state": "completed",
"@baseType": "Execution",
"@type": "TestEnvironmentAllocationExecution"
},
"state": "completed",
"@baseType": "Execution",
"@type": "TestEnvironmentProvisioningExecution"
},
"state": "completed",
"@baseType": "TestExecution",
"@type": "NonFunctionalTestExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "NonFunctionalTestResult"
}

```

Patch non functional test result

PATCH /nonFunctionalTestResult/{id}

Description

This operation allows partial updates of a non functional test result 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
nonFunctionalTestResultDefinition	

Non Patchable Attributes	Rule
href	
id	
href	
id	
@baseType	
@schemaLocation	
@type	
testExecution	

Usage Samples

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

Request
<pre>PATCH /tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909 Content-Type: application/merge-patch+json { "name": "new name" }</pre>
Response
<pre>200 { "id": "f5c8b58e-9b3f-475d-a5cc-096688f1d909", "href": "https://mycsp:8080/tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909", "testCaseResultDefinition": { "attachmentType": "json", "content": "<base64-encoded non-functional test result>", "mimeType": "base64" }, "testExecution": { "id": "195dae44-a433-49bf-a15b-9ab198dad0e2", "status": "PENDING" } }</pre>

```
"href": "https://mycsp:8080/tmf-api/testExecution/v4/nonFunctionalTestExecution/195dae44-a433-49bf-a15b-9ab198dad0e2",
  "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
  "nonFunctionalTestModel": {
    "id": "16db32a3-e008-401b-8168-4ebac788f9d8",
    "href": "https://mycsp:8080/tmf-api/testCase/v4/nonFunctionalTestModel/16db32a3-e008-401b-8168-4ebac788f9d8",
    "@referredType": "NonFunctionalTestModel"
  },
  "generalTestArtifact": [
    {
      "id": "178ca8bb-81bc-47ef-911e-dd86a40b8974",
      "href": "https://mycsp:8080/tmf-api/generalTestArtifact/v4/generalTestArtifact/178ca8bb-81bc-47ef-911e-dd86a40b8974",
      "@referredType": "GeneralTestArtifact"
    }
  ],
  "testDataInstance": [
    {
      "id": "2db74193-e5fb-462a-98e0-6b1ed970dfc7",
      "href": "https://mycsp:8080/tmf-api/testData/v4/testDataInstance/2db74193-e5fb-462a-98e0-6b1ed970dfc7",
      "@referredType": "TestDataInstance"
    }
  ],
  "TestEnvironmentProvisioningExecution": {
    "id": "622815ac-5811-4cb6-b608-5b28d5d73a8d",
    "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentProvisioningExecution/622815ac-5811-4cb6-b608-5b28d5d73a8d",
    "dataCorrelationId": "29d7832e-9970-4af8-8d80-19444e1973ea",
    "testEnvironmentAllocationExecution": {
      "id": "418b253c-0cf3-4f48-b64e-93f8db9b614a",
      "href": "https://mycsp:8080/tmf-api/testExecution/v4/testEnvironmentAllocationExecution/418b253c-0cf3-4f48-b64e-93f8db9b614a",
      "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01cce12cd",
      "resourceManagerUrl": "https://myserver.com/resourceManager",
      "testScenario": {
        "id": "35776d4f-1851-435c-8573-802438f41e7a",
        "href": "https://mycsp:8080/tmf-api/testScenario/v4/testScenario/35776d4f-1851-435c-8573-802438f41e7a",
        "@referredType": "TestScenario"
      },
      "concreteResourceMapping": [
        {
          "abstractResource": "phone",
          "concreteResources": [
            {
              "name": "iPhone_1289"
            }
          ]
        }
      ],
      "state": "completed",
      "@baseType": "Execution",
      "@type": "TestEnvironmentAllocationExecution"
    }
  }
]
```

```
        },
        "state": "completed",
        "@baseType": "Execution",
        "@type": "TestEnvironmentProvisioningExecution"
    },
    "state": "completed",
    "@baseType": "TestExecution",
    "@type": "NonFunctionalTestExecution"
},
"state": "stable",
"@baseType": "TestResult",
"@type": "NonFunctionalTestResult",
"name": "new name"
}
```

Delete non functional test result

DELETE /nonFunctionalTestResult/{id}

Description

This operation deletes a non functional test result entity.

Usage Samples

Here's an example of a request for deleting a non-functional test result.

Request
DELETE /tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909
Response
204

API NOTIFICATIONS

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

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

Register listener

POST /hub

Description

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

Behavior

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

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

Usage Samples

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

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

Appendix 1

Examples of base64-encoded Attachment content

Example 1. ONAP VTP test case result representation example

Encoded value
ewogICAg4oCcc3VjY2Vzc+KAnTogZmFsc2UsCiAgICAgJxlcnJvcuKAnTogWwogICAgICAgIHsKICAgICAgICAgICAgIm1zZyl6ICJDU0FSIG1hbmlmZXN0IG1pc3NpbmcIAogICAgICAgICAiY29kZSlgOiAxMDAwMQogICAgICAgIH0sCiAgICAgICAgewogICAgICAgICAgICAibXNnljogIkNTQVlqQ1BVIGizIHdyb25nliwKICAgICAgICAgNvZGUilDogMTAxMDEKICAgICB9CiAgICBdCn0K
Original /decoded JSON object
{ "success": false, "error": [{ "msg": "CSAR manifest missing", "code": 10001 }, { "msg": "CSAR CPU is wrong", "code": 10101 }] }

Example 2. Test suite result representation example

Encoded value
ewogICAgInBhc3NlZCI6IDEsCiAgICAiZmFpbGVkljogMSwKICAgICJyZXBvcnQiOibbCiAgICAgICAgewogICAgICAgICAgICAgIDGVzdENhc2VOYW1lljogInRlc3RjYXNLTEiLAogICAgICAgICAgICAgIDGVzdENhc2VJZCI6ICJhYWMM5OTY5ZC0yMTIkLTrmZjEtYjI1Ni0xNzY1ZGNmOWIzNDliLAogICAgICAgICAgICAgICAgHRlc3RDYXNIUmVzdWx0SWQiOiaIMGI2MGM3NDEtYTM5NS00MDhjLThINDEtNTFmYTlwZDBhYTuwlwKICAgICAgICAgICAgInN1Y2Nlc3MiOibmYWxzZQogICAgICAgIH0sCiAgICAgICAgewogICAgICAgICAgIDGVzdENhc2VOYW1lljogInRlc3RjYXNLTEiLAogICAgICAgICAgICAgICAgIDGVzdENhc2VJZCI6CJIMjgyMWQyMC0zMzE3LTQ1MjQtOTk0OC0wYjNiMTk5YjUxYWliLAogICAgICAgICAgICAgICAgIDGVzdENhc2VSZXN1bHRJZCI6ICl5YjhmdExNy00NDY0LTRhZjlOWJlYi1hZjYzYjc5ZWY5MjciLAogICAgICAgICAgICAgICAc3VjY2VzcyI6IHRydWUKICAgICB9CiAgICBdCn0KCg==
Original /decoded JSON object

```
{  
    "passed": 1,  
    "failed": 1,  
    "report": [  
        {  
            "testCaseName": " testcase-1",  
            "testCaseId": "aac9969d-219d-4ff1-b256-1765dcf9b342",  
            "testCaseResultId": "0b60c741-a395-408c-8e41-51fa20d0aa50",  
            "success": false  
        },  
        {  
            "testCaseName": " testcase-2",  
            "testCaseId": "e2821d20-3317-4524-9948-0b3b199b51ab",  
            "testCaseResultId": "9b8f8117-4464-4af2-9beb-af63b79ef927",  
            "success": true  
        }  
    ]  
}
```

Example 3. Non-functional test result representation example

```
"hours": 0,
"minutes": "5",
"seconds": "0",
}
"reports": [
{
  "executed": 60000,
  "passed": 60000,
  "failed": 0,
  "completionRate": 1.0,
  "cpuUtilization": 0.6,
  "memoryUsage": 0.45
},
{
  "executed": 59993,
  "passed": 59991,
  "failed": 2,
  "completionRate": 0.99997,
  "cpuUtilization": 0.8,
  "memoryUsage": 0.51
},
{
  "executed": 60006,
  "passed": 59981,
  "failed": 25,
  "completionRate": 0.99958,
  "cpuUtilization": 0.85,
  "memoryUsage": 0.63
},
{
  "executed": 60001,
  "passed": 59447,
  "failed": 554,
  "completionRate": 0.99077,
  "cpuUtilization": 0.91,
  "memoryUsage": 0.82
},
{
  "executed": 60000,
  "passed": 34647,
  "failed": 25353,
  "completionRate": 0.57745,
  "cpuUtilization": 100.0,
  "memoryUsage": 0.93
}
],
"total": {
  "executed": 300000,
  "passed": 274066,
  "failed": 25934,
  "completionRate": 0.91355
},
"testCriteriaMet": false
}
```

Acknowledgements

Version History

Version Number	Date	Release led by:	Description
4.0.0	29-Jul-2020	Pierre Gauthier TM Forum pgauthier@tmforum.org Edward Pershwitz ITEA Technologies edward.pershwitz@iteatechnologie.com	First Release of the Document.

Release History

Version Number	Date	Release led by:	Description
Pre-production	29-Jul-2020	Pierre Gauthier Edward Pershwitz	First Release of the Document.
Production	23-Sep-2020	Adrienne Walcott	Updated to reflect TM Forum Approved Status

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