**TM Forum Specification**

**Test Result Management API User Guide**

**TMF707**

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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.

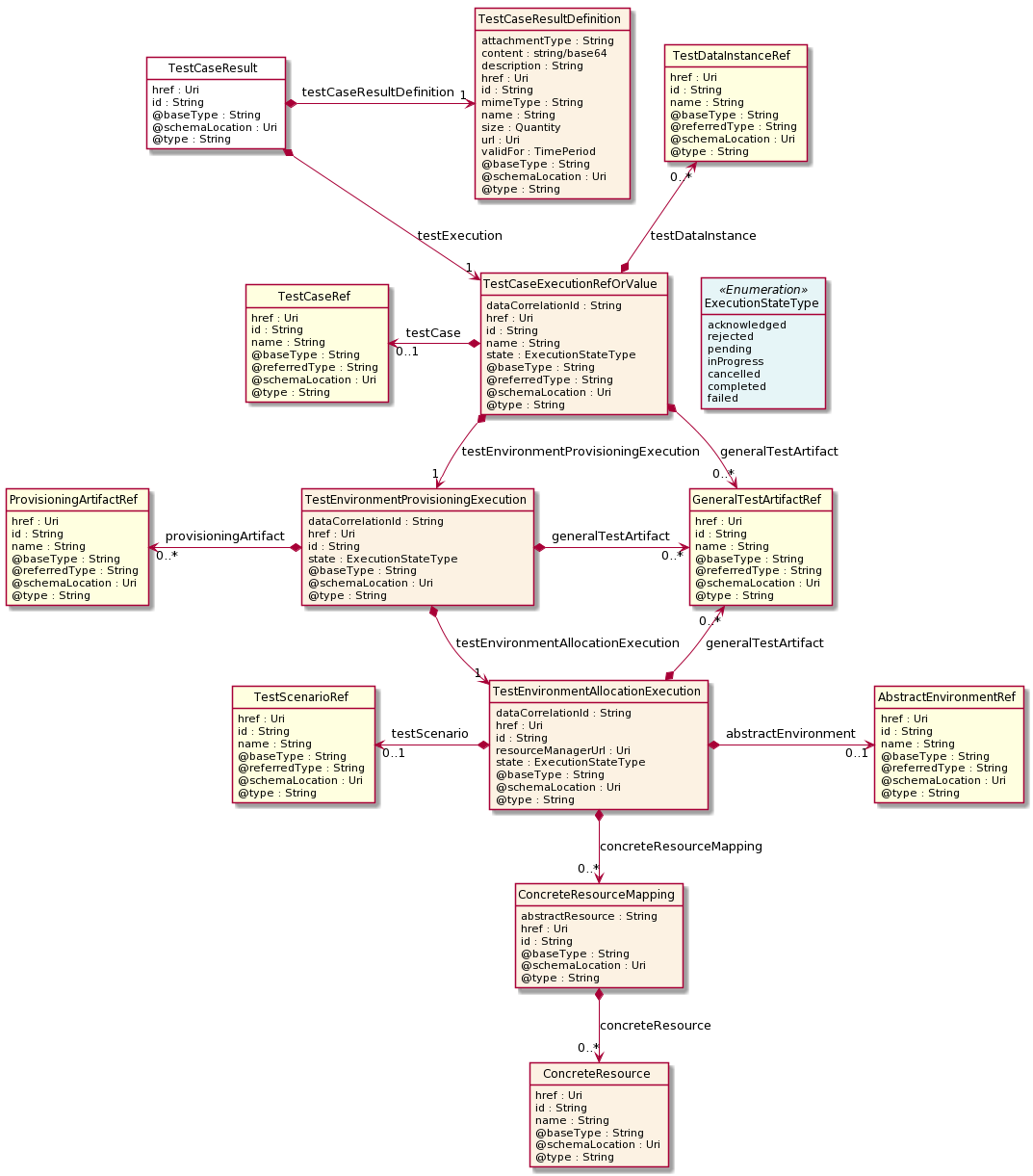
# RESOURCE MODEL

## 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**

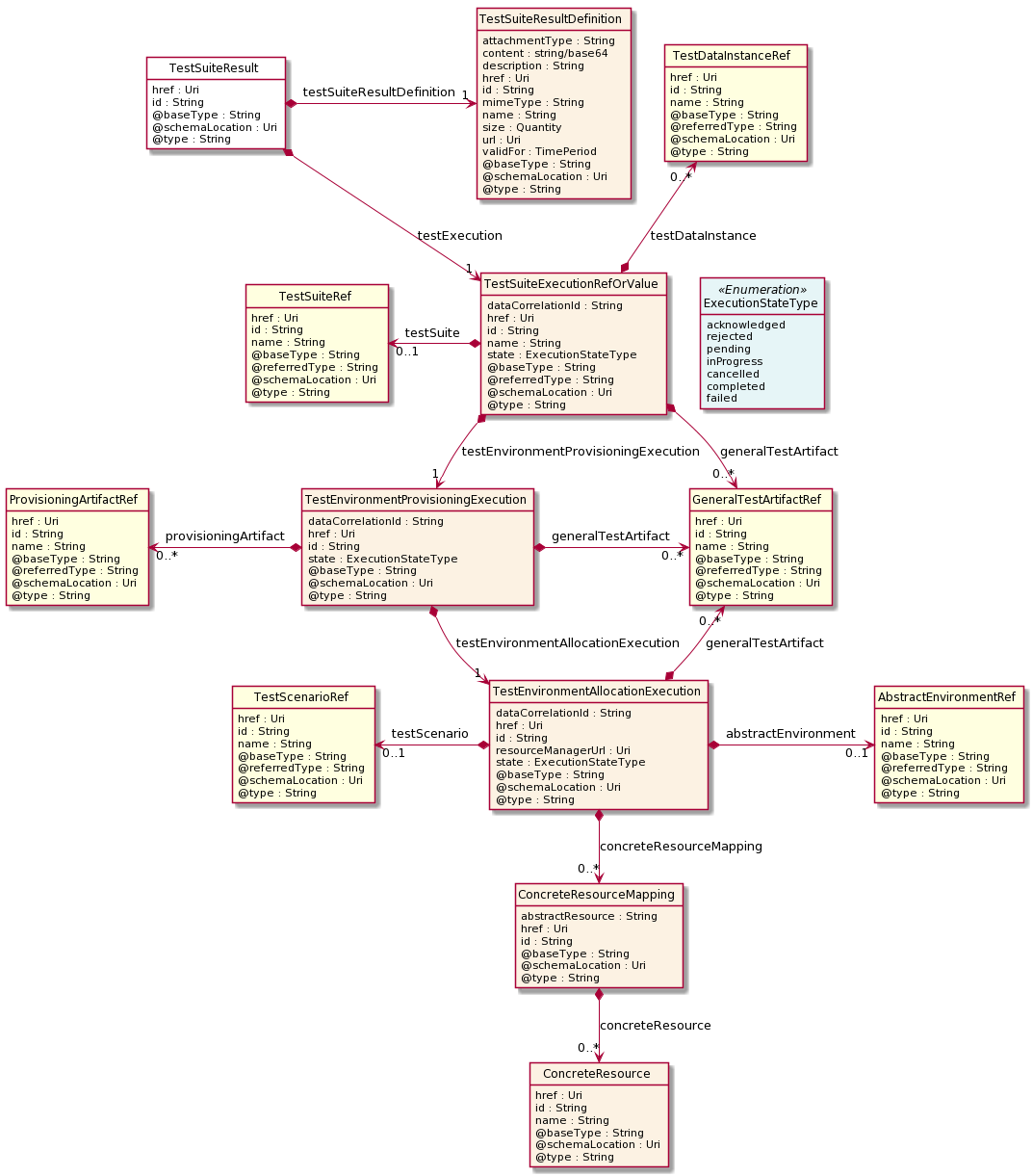
We provide below the json representation of an example of a 'TestCaseResult' resource object

|  |
| --- |
| {  "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",  "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-6b01ccef12cd",  "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**

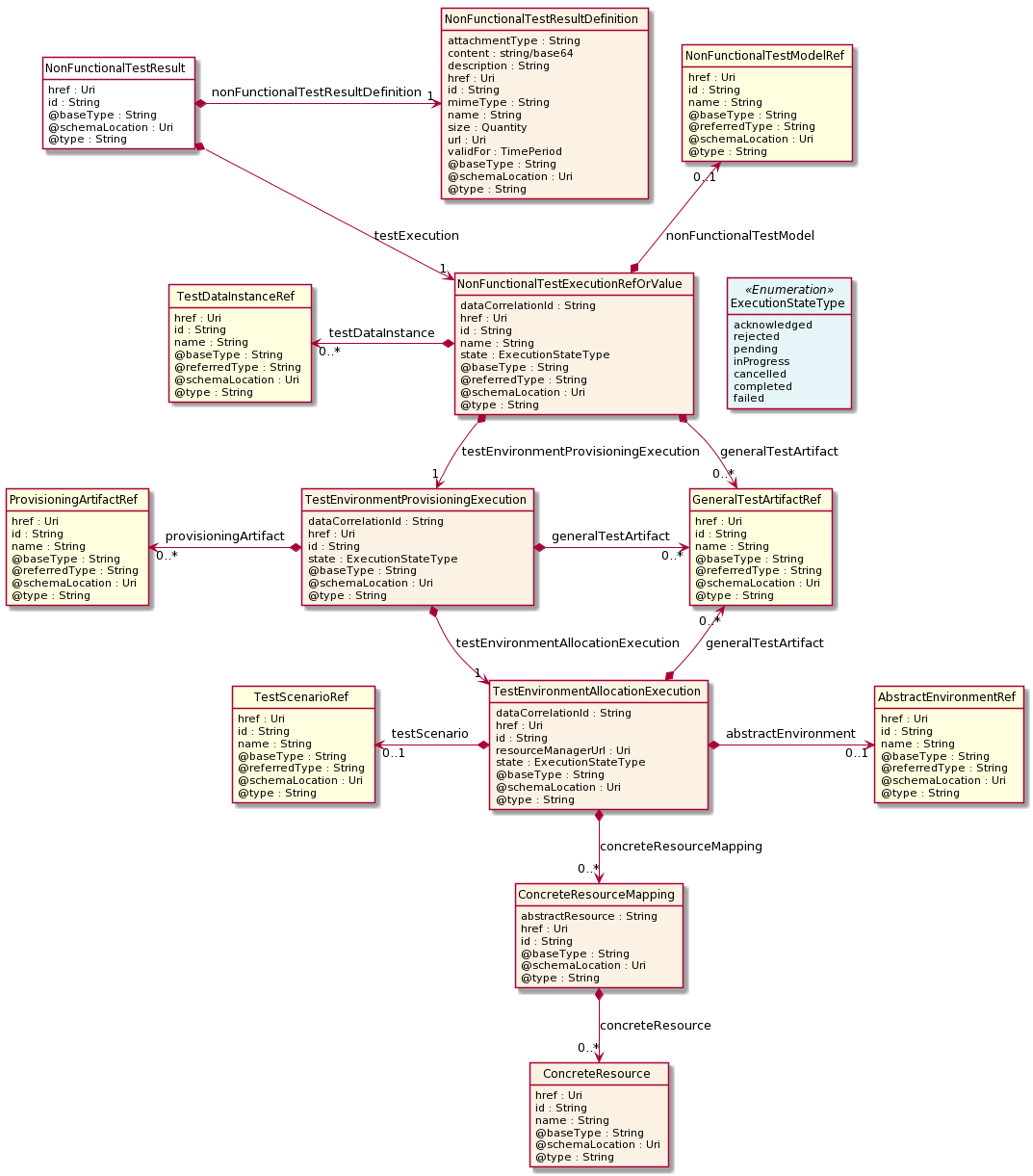
We provide below the json representation of an example of a 'TestSuiteResult' resource object

|  |
| --- |
| {  "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",  "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-6b01ccef12cd",  "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 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. |

*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-6b01ccef12cd",  "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

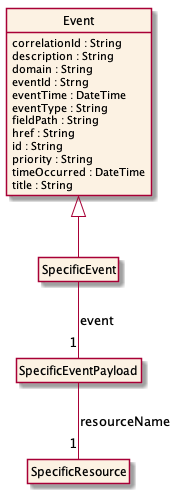
Notifications related to TestSuiteResult:  
 - TestSuiteResultCreateEvent  
 - TestSuiteResultChangeEvent  
 - TestSuiteResultDeleteEvent

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 list 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** |
| GET /tmf-api/testResult/v4/testCaseResult Accept: application/json |
| **Response** |
| 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",  "@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** |
| GET /tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50 Accept: application/json |
| **Response** |
| 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",  "@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** |
| 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",  "@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** |
| PATCH /tmf-api/testResult/v4/testCaseResult/0b60c741-a395-408c-8e41-51fa20d0aa50 Content-Type: application/merge-patch+json  {  "name": "new name" } |
| **Response** |
| 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>",  "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-6b01ccef12cd",  "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",  "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 list 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** |
| GET /tmf-api/testResult/v4/testSuiteResult Accept: application/json |
| **Response** |
| 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/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** |
| GET /tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3 Accept: application/json |
| **Response** |
| 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/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" } |

### 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** |
| 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"  },  "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"  }  ],  "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 |  |
| @type |  |
| testExecution |  |

**Usage Samples**

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

|  |
| --- |
| **Request** |
| PATCH /tmf-api/testResult/v4/testSuiteResult/b5c4d079-f4c1-439a-a082-1f25c53c79b3 Content-Type: application/merge-patch+json  {  "name": "new name" } |
| **Response** |
| 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": [  {  "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-6b01ccef12cd",  "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 list 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",  "dataCorrelationId": "156cf43a-fd6a-488e-a8dd-6b01ccef12cd",  "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-6b01ccef12cd",  "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** |
| 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"  }  ],  "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-6b01ccef12cd",  "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-6b01ccef12cd",  "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** |
| PATCH /tmf-api/testResult/v4/nonFunctionalTestResult/f5c8b58e-9b3f-475d-a5cc-096688f1d909 Content-Type: application/merge-patch+json  {  "name": "new name" } |
| **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>",  "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-6b01ccef12cd",  "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+KAnTogZmFsc2UsCiAgICDigJxlcnJvcuKAnTogWwogICAgICAgIHsKICAgICAgICAgICAgIm1zZyI6ICJDU0FSIG1hbmlmZXN0IG1pc3NpbmciLAogICAgICAgICAgICAiY29kZSIgOiAxMDAwMQogICAgICAgIH0sCiAgICAgICAgewogICAgICAgICAgICAibXNnIjogIkNTQVIgQ1BVIGlzIHdyb25nIiwKICAgICAgICAgICAgImNvZGUiIDogMTAxMDEKICAgICAgICB9CiAgICBdCn0K |
| **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** |
|  |
| **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

|  |
| --- |
| **Encoded value** |
|  |
| **Original /decoded JSON object** |
| {  “actualDuration”: {  “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

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|  |  |  |  |
| --- | --- | --- | --- |
| **Version Number** | **Date** | **Release led by:** | **Description** |
| 4.0.0 | 29-Jul-2020 | Pierre Gauthier TM Forum [pgauthier@tmforum.org](mailto:pgauthier@tmforum.org)  Edward Pershwitz ITEA Technologies  [edward.pershwitz@iteatechnologies.com](mailto:edward.pershwitz@iteatechnologies.com) | First Release of the Document. |

## Release History

|  |  |  |  |
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| **Version Number** | **Date** | **Release led by:** | **Description** |
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## Contributors to Document

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