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7.15 Resource TestReport - Content

FHIR Infrastructure (http://www.hl7.org/Special/committees/fiwc/index.cfm) Work Group	Maturity Level (resource.html#maturity): 0	Compartments (compartmentdefinition.html): Not linked to any defined compartments
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TestReport is a resource that includes summary information on the results of executing a TestScript.

7.15.1 Scope and Usage

The TestScript ([testscript.html](#)) resource is used to define tests that can be executed on one or more FHIR servers. The TestReport resource defines how systems should encode the summarized results of executing a TestScript.

The TestReport structure mirrors the TestScript concepts of having sections for setup, tests, and teardown. If present, these ordered lists should mirror the actions (either operations or assertions) of the referenced TestScript with a result code: pass, skip, fail, warning, or error.

7.15.2 Background and Context

7.15.2.1 Background

Implementers should be familiar with the testing concepts and descriptions found in Testing FHIR ([testing.html](#)) before working with this resource.

Structure	UML	XML	JSON	Turtle	R2 Diff	All
Structure						
Name (formats.html#table)	Flags (formats.html#table)	Card. (formats.html#table)	Type (formats.html#table)	Description & Constraints (formats.html#table) ? (formats.html#table)		
TestReport (testreport-definitions.html#TestReport)			DomainResource (domainresource.html)	Describes a set of tests		
identifier (testreport-definitions.html#TestReport.identifier)	Σ	0..1	Identifier (datatypes.html#Identifier)	External identifier		
name (testreport-definitions.html#TestReport.name)	Σ	0..1	string (datatypes.html#string)	Informal name of the execute TestScript		
status (testreport-definitions.html#TestReport.status)	?! Σ	1..1	code (datatypes.html#code)	complete pending error TestReportStatus (valueset-report-status-codes.html) (Required (terminologies.html#required)		
score (testreport-definitions.html#TestReport.score)	Σ	0..1	decimal (datatypes.html#decimal)	The final score (percentage of tests passed) resulting from the execution of the TestScript		
tester (testreport-definitions.html#TestReport.tester)	Σ	0..1	string (datatypes.html#string)	Name of the tester producing this report (Organization or individual)		
testScript (testreport-definitions.html#TestReport.testScript)	Σ	1..1	Reference (references.html) (TestScript (testscript.html))	Reference to the version-specific TestScript that was executed to produce this TestReport.		
issued (testreport-definitions.html#TestReport.issued)	Σ	0..1	instant (datatypes.html#instant)	Instant the TestScript was executed and this TestReport was generated.		
participant (testreport-definitions.html#TestReport.participant)		0..*	BackboneElement (backboneelement.html)	A participant in the test execution, either the executing engine, a client, or a server.		
type (testreport-definitions.html#TestReport.participant.type)		1..1	code (datatypes.html#code)	test-engine client server TestReportParticipantType (valueset-report-participant-type.html) (Required (terminologies.html#required)		
uri (testreport-definitions.html#TestReport.participant.uri)		1..1	uri (datatypes.html#uri)	The uri of the participant. An absolute URL is preferred.		
display (testreport-definitions.html#TestReport.participant.display)		0..1	string (datatypes.html#string)	The display name of the participant.		

setup (testreport-definitions.html#TestReport.setup)	0..1	BackboneElement (backboneelement.html)	The results of the series of required setup operations before the tests were executed
action (testreport-definitions.html#TestReport.setup.action)	I 1..*	BackboneElement (backboneelement.html)	A setup operation or assert that was executed <i>Setup action SHALL contain either an operation or assert but not both.</i>
operation (testreport-definitions.html#TestReport.setup.action.operation)	0..1	BackboneElement (backboneelement.html)	The operation to perform
result (testreport-definitions.html#TestReport.setup.action.operation.result)	1..1	code (datatypes.html#code)	pass skip fail warning error TestReportResultCodes (valueset-report-result-codes.html) (Required (terminologies.html#required
message (testreport-definitions.html#TestReport.setup.action.operation.message)	0..1	string (datatypes.html#string)	A message associated with the result.
detail (testreport-definitions.html#TestReport.setup.action.operation.detail)	0..1	uri (datatypes.html#uri)	A link to further details on the result.
assert (testreport-definitions.html#TestReport.setup.action.assert)	0..1	BackboneElement (backboneelement.html)	The assertion to perform
result (testreport-definitions.html#TestReport.setup.action.assert.result)	1..1	code (datatypes.html#code)	pass skip fail warning error TestReportResultCodes (valueset-report-result-codes.html) (Required (terminologies.html#required
message (testreport-definitions.html#TestReport.setup.action.assert.message)	0..1	string (datatypes.html#string)	A message associated with the result.
detail (testreport-definitions.html#TestReport.setup.action.assert.detail)	0..1	string (datatypes.html#string)	A link to further details on the result.
test (testreport-definitions.html#TestReport.test)	0..*	BackboneElement (backboneelement.html)	A test executed from the test script
name (testreport-definitions.html#TestReport.test.name)	0..1	string (datatypes.html#string)	Tracking/logging name of this test
description (testreport-definitions.html#TestReport.test.description)	0..1	string (datatypes.html#string)	Tracking/reporting short description of the test
action (testreport-definitions.html#TestReport.test.action)	I 1..*	BackboneElement (backboneelement.html)	A test operation or assert that was performed <i>Test action SHALL contain either an operation or assert but not both.</i>
operation (testreport-definitions.html#TestReport.test.action.operation)	0..1	see operation	The operation performed
assert (testreport-definitions.html#TestReport.test.action.assert)	0..1	see assert	The assertion performed
teardown (testreport-definitions.html#TestReport.teardown)	0..1	BackboneElement (backboneelement.html)	The results of running the series of required clean up steps
action (testreport-definitions.html#TestReport.teardown.action)	1..*	BackboneElement (backboneelement.html)	One or more teardown operations performed
operation (testreport-definitions.html#TestReport.teardown.action.operation)	1..1	see operation	The teardown operation performed
? Documentation for this format (formats.html#table)			

Alternate definitions: Master Definition (XML (testreport.profile.xml.html), JSON (testreport.profile.json.html)), XML (xml.html) Schema (testreport.xsd)/Schematron (testreport.sch) (for) + JSON (json.html) Schema (TestReport.schema.json), ShEx (testreport.shex.html) (for Turtle (rdf.html))

7.15.3.1 Terminology Bindings

Path	Definition	Type	Reference
TestReport.status	The execution status of the TestReport.	Required (terminologies.html#required)	TestReportStatus (valueset-report-status-codes.html)
TestReport.participant.type	The type of participant.	Required (terminologies.html#required)	TestReportParticipantType (valueset-report-participant-type.html)
TestReport.setup.action.operation.result TestReport.setup.action.assert.result	The results of executing an action.	Required (terminologies.html#required)	TestReportResultCodes (valueset-report-result-codes.html)

7.15.3.2 Constraints

- inv-1:** On TestReport.setup.action: Setup action SHALL contain either an operation or assert but not both. (expression <http://hl7.org/fluentpath>) on TestReport.setup.action: `operation.exists() xor assert.exists()`
- inv-2:** On TestReport.test.action: Test action SHALL contain either an operation or assert but not both. (expression <http://hl7.org/fluentpath>) on TestReport.test.action: `operation.exists() xor assert.exists()`

7.15.4 Notes

Please refer to the Testing FHIR - How Tos (testing.html#howTos) for examples on working with this resource.

7.15.5 Search Parameters

Search parameters for this resource. The common parameters (search.html#all) also apply. See Searching (search.html) for more information about searching in REST, messaging, and services.

Name	Type	Description	Paths
identifier	token (search.html#token)	External identifier	TestReport.identifier
issued	date (search.html#date)	Instant the TestScript was executed and this TestReport was generated.	TestReport.issued
name	string (search.html#string)	Informal name of the executed TestScript	TestReport.name
participant	uri (search.html#uri)	The uri of the participant. An absolute URL is preferred.	TestReport.participant.uri
tester	string (search.html#string)	Name of the tester producing this report (Organization or individual)	TestReport.tester
testscript	reference (search.html#reference)	Reference to the version-specific TestScript that was executed to produce this TestReport.	TestReport.testScript