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# **The RobotResults2RQM tool**

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## ROBOTRESULTS2RQM TOOL'S DOCUMENTATION

### 1.1 Introduction:

RobotResults2RQM tool provides the ability to interact with RQM resources (test plan, test case, build, ...).

**RobotResults2RQM tool uses RqmAPI to:**

- get resource: by given ID or all available entities of resource type.
- update resource: by given ID.
- create new resource: with resource templates under `RQM_templates` folder

### 1.2 Sample RobotFramework Testcase:

For test case management, we need some traceable information such as version, testcase ID, component, ... to manage and track testcase(s) on RQM.

So, this information can be provided in **Metadata** (for the whole testsuite/execution info: version, build, ...) and **[Tags]** information (for specific testcase info: component, testcase ID, requirement ID, ...).

Sample Robot testcase with the necessary information for importing to RQM:

```
*** Settings ***
Metadata    project      ROBFW          # Test Environment
Metadata    version_sw   SW_VERSION_0.1  # Build Record
Metadata    component    Import_Tools   # Component - is used for test case
Metadata    machine      %{COMPUTERNAME} # Hostname
Metadata    team-area    Internet Team RQM # team-area (case-sensitive)

*** Test Cases ***
Testcase 01
    [Documentation]    This test is traceable with provided tcid
    [Tags]             TCID-1001  FID-112  FID-111  robotfile-https://github.com/test-
    ↪fullautomation
    Log               This is Testcase 01

Testcase 02
    [Documentation]    This new testcase will be created if -createmissing argument
    ... is provided when importing
    [Tags]             FID-113  robotfile-https://github.com/test-fullautomation
    Log               This is Testcase 02
```

### 1.3 Tool features:

By default, tool will base on provided arguments (see [Usage](#usage)) and *tcid* information in Robot test case(s) to:

- Login the RQM server and verify the provided **project**, **testplan**.
- Create build record and test environment (if already provided in Robot test case and not existing on RQM) for execution.
- Create new Test Case Execution Record - TCER (if it is not existing) bases on test case ID and **testplan** ID.
- Create new Test Case Execution Result which contents the detail and result state of test case.
- Link all test case(s) to provided **testplan**.

Besides, **RobotResults2RQM** tool also supports to:

- Create new test case(s) which is not existing on RQM (do not have *tcid* information) while importing result(s) to RQM with optional argument **-createmissing**.
- Update information (such as testcase name, Requirement ID, ...) of existing testcase on RQM with optional argument **-updatetestcase**.

### 1.4 Robot Testcase information on RQM:

For more detail how the RobotFramework testcase information is displayed on RQM, please refer be mapping table:

RQM data		RobotFramework	
Resource	Attribute/Field	Testsuite/Testcase	Output.xml
Build Record	Title	<b>Metadata</b> version_sw <i>\${Build}</i>	//suite/metadata/item[@name="version_sw"]
Test Environment	Title	<b>Metadata</b> project <i>\${Environment}</i>	//suite/metadata/item[@name="project"]
Test Case	ID	[Tags] tcid-xxx	//suite/test/tags/tag[@text="tcid-xxx*"]
	Name	test name	//suite/test/@name
	Team Area	<b>Metadata</b> team-area <i>\${Team_Area}</i>	//suite/metadata/item[@name="team-area"]
	Description	test doc - [Documentation]	//suite/test/doc/@text
	Owner	provided user in cli	
	Component/Categories	<b>Metadata</b> component <i>\${Component}</i>	//suite/metadata/item[@name="component"]
	Requirement ID	[Tags] fid-yyy	//suite/test/tags/tag[@text="fid-yyy*"]
	Robot File	[Tags] robotfile-zzz	//suite/test/tags/tag[@text="robotfile-xxx*"]
Test Case Execution Record (TCER)	Owner	provided user in cli	
	Team Area	<b>Metadata</b> team-area <i>\${Team_Area}</i>	//suite/metadata/item[@name="team-area"]
	Test Plan	Interaction URL to provided testplan in cli	
	Test Case	Interaction URL to provided testcase ID: - Testcase ID which provided in [Tags]: tcid-xxx - Generated testcase ID if argument -createmissing is used in cli	//suite/test/tags/tag[@text="tcid-xxx*"]
	Test Environment	<b>Metadata</b> project <i>\${Environment}</i>	//suite/metadata/item[@name="project"]
Test Result	Owner	provided user in cli	
	Tested By	provided user in cli - userid must be used (value as username Metadata: tester does not work now)	
	Team Area	<b>Metadata</b> team-area <i>\${Team_Area}</i>	//suite/metadata/item[@name="team-area"]
	Actual Result	Test case result (PASSED, FAILED, UNKNOWN)	//suite/test/status/@status
	Host Name	<b>Metadata</b> machine <i>%{COMPUTER-NAME}</i>	//suite/metadata/item[@name="machine"]
	Test Plan	Interaction URL to provided testplan in cli	
	Test Case	Interaction URL to provided testcase ID: - Testcase ID which provided in [Tags]: tcid-xxx - Generated testcase ID if -createmissing is used	//suite/test/tags/tag[@text="tcid-xxx*"]
	Test Case Execution Record	Interaction URL to TCER ID	
	Build	<b>Metadata</b> version_sw <i>\${Build}</i>	//suite/metadata/item[@name="version_sw"]
	Start Time	Test case start time	//suite/test/status/@starttime
	End Time	Test case end time	//suite/test/status/@endtime
	Total Run Time	Calculated from start and end time	
1.4. Robot Testcase Information on RQM		Testcase Message log	//suite/test/status/@text





## ROBOTRESULTS2RQM PACKAGE

### 2.1 Module contents

**class** RobotResults2RQM.CRQM.CRQMClient(*user, password, project, host*)

Bases: object

CRQMClient class uses RQM REST APIs to get, create and update resources (testplan, testcase, test result, ...) on RQM - Rational Quality Manager

**Resource type mapping:**

- buildrecord: Build Record
- configuration: Test Environment
- testplan: Test Plan
- testsuite: Test Suite
- suiteexecutionrecord: Test Suite Execution Record (TSER)
- testsuitelog: Test Suite Log
- testcase: Test Case
- executionworkitem: Test Execution Record (TCER)
- executionresult: Execution Result

```
NAMESPACES = {'ns1': 'http://schema.ibm.com/vega/2008/', 'ns10':  
'http://open-services.net/ns/core#', 'ns11': 'http://open-services.net/ns/qm#',  
'ns12': 'http://jazz.net/xmlns/prod/jazz/rqm/process/1.0/', 'ns13':  
'http://www.w3.org/2002/07/owl#', 'ns14':  
'http://jazz.net/xmlns/alm/qm/qmadapter/v0.1', 'ns15':  
'http://jazz.net/xmlns/alm/qm/qmadapter/task/v0.1', 'ns16':  
'http://jazz.net/xmlns/alm/qm/v0.1/executionresult/v0.1', 'ns17':  
'http://jazz.net/xmlns/alm/qm/v0.1/catalog/v0.1', 'ns18':  
'http://jazz.net/xmlns/alm/qm/v0.1/tsl/v0.1/', 'ns2':  
'http://jazz.net/xmlns/alm/qm/v0.1/', 'ns20':  
'http://jazz.net/xmlns/alm/qm/styleinfo/v0.1/', 'ns21':  
'http://www.w3.org/1999/XSL/Transform', 'ns3': 'http://purl.org/dc/elements/1.1/',  
'ns4': 'http://jazz.net/xmlns/prod/jazz/process/0.6/', 'ns5':  
'http://jazz.net/xmlns/alm/v0.1/', 'ns6': 'http://purl.org/dc/terms/', 'ns7':  
'http://www.w3.org/1999/02/22-rdf-syntax-ns#', 'ns8':  
'http://jazz.net/xmlns/alm/qm/v0.1/testscript/v0.1/', 'ns9':  
'http://jazz.net/xmlns/alm/qm/v0.1/executionworkitem/v0.1'}
```

```
RESULT_STATES = ['paused', 'inprogress', 'notrun', 'passed', 'incomplete',  
'inconclusive', 'part_blocked', 'failed', 'error', 'blocked', 'perm_failed',  
'deferred']
```

**addTeamAreaNode**(*root*, *sTeam*)

Append *team-area* node which contains URL to given team-area into xml template

**Note:** *team-area* information is case-casesensitive

**Args:** *root* : xml root object.

*sTeam* : team name to be added.

**Returns:** *root* : xml root object with addition *team-area* node.

**config**(*plan\_id*, *build\_name*=None, *config\_name*=None, *createmissing*=False, *updatetestcase*=False, *suite\_id*=None)

**Configure RQMClient with testplan ID, build, configuration, createmissing, ...**

- Verify the existence of provided testplan ID.
- Verify the existences of provided build and configuration names before creating new ones.

**Args:** *plan\_id* : testplan ID of RQM project for importing result(s).

**build\_name (optional)** [the *Build Record* for linking result(s).] Set it to *None* if not be used, the empty name “ ” may lead to error.

**config\_name (optional)** [the *Test Environment* for linking result(s).] Set it to *None* if not be used, the empty name “ ” may lead to error.

**createmissing (optional)** [in case this argument is set to *True*, ] the testcase without *tcid* information will be created on RQM.

**updatetestcase (optional)** [in case this argument is set to *True*, ] the information of testcase on RQM will be updated bases on robot testfile.

*suite\_id* (optional) : testsuite ID of RQM project for importing result(s).

**Returns:** None.

**createBuildRecord**(*sBuildSWVersion*, *forceCreate*=False)

Create new build record.

**Note:** Tool will check if build record is already existing or not (both on RQM and current execution).

**Args:** *sBuildSWVersion* : build version - *Build Record* name.

*forceCreate* (optional) : if *True*, force to create new build record without existing verification.

**Returns:**

**returnObj:** a response dictionary which contains **status**, **ID**, **status\_code** and error message.

{ 'success' [False, 'id': None, 'message': ' ', ] 'status\_code': ' ' }.

**createBuildRecordTemplate**(*buildName*)

Return build record template from provided build name

**Args:** *buildName* : *Build Record* name.

**Returns:** xml template as string.

**createConfiguration**(*sConfigurationName*, *forceCreate=False*)

Create new configuration - test environment.

**Note:** Tool will check if configuration is already existing or not (both on RQM and current execution).

**Args:** *sConfigurationName* : configuration - *Test Environment* name.

*forceCreate* (optional) : if True, force to create new Test Environment without existing verification.

**Returns:**

**returnObj:** a response dictionary which contains status, ID, status\_code and error message. {  
     'success' : False, 'id' : None, 'message': '', 'status\_code': '' }

**createConfigurationTemplate**(*confName*)

Return configuration - Test Environment template from provided configuration name

**Args:** *buildName* : configuration - *Test Environment* name.

**Returns:** xml template as string.

**createExecutionResultTemplate**(*testCaseID*, *testCaseName*, *testplanID*, *TCERID*, *resultState*,  
*startTime=""*, *endTime=""*, *duration=""*, *testPC=""*, *testBy=""*, *lastlog=""*,  
*buildrecordID=""*, *sTeam=""*, *sOwnerID=""*)

Return testcase execution result template from provided information

**Args:** *testCaseID* : testcase ID.

*testCaseName* : testcase name.

*testplanID* : testplan ID for linking.

*TCERID* : testcase execution record (TCER) ID for linking.

*resultState* : testcase result status.

*startTime* : testcase start time.

*endTime* (optional) : testcase end time.

*duration* (optional) : testcase duration.

*testPC* (optional) : test PC which executed testcase.

*testBy* (optional) : user ID who executed testcase.

*lastlog* (optional) : traceback information (for Failed testcase).

*buildrecordID* (optional) : *Build Record* ID for linking.

*sTeam* (optional) : team name for linking.

*sOwnerID* (optional) : user ID of testcase owner.

**Returns:** xml template as string.

**createResource**(*resourceType*, *content*)

Create new resource with provided data from template by POST method.

**Args:** *resourceType* : resource type.

*content*: xml template as string.

**Returns:**

**returnObj:** a response dictionary which contains status, ID, status\_code and error message. {  
     'success' : False, 'id' : None, 'message': '', 'status\_code': '' }

**createTCERTemplate**(*testcaseID, testcaseName, testplanID, confID="", sTeam="", sOwnerID=""*)

Return testcase execution record template from provided information

**Args:** testcaseID : testcase ID.

testcaseName : testcase name.

testplanID : testplan ID for linking.

confID (optional) : configuration - *Test Environment* for linking.

sTeam (optional) : team name for linking.

sOwnerID (optional) : user ID of testcase owner.

**Returns:** xml template as string.

**createTSERTemplate**(*testsuiteID, testsuiteName, testplanID, confID="", sOwnerID=""*)

Return testsuite execution record (TSER) template from provided configuration name

**Args:** testsuiteID : testsuite ID.

testsuiteName : testsuite name.

testplanID : testplan ID for linking.

confID (optional) : configuration - *Test Environment* ID for linking.

sOwnerID (optional) : user ID of testsuite owner.

**Returns:** xml template as string.

**createTestcaseTemplate**(*testcaseName, sDescription="", sComponent="", sFID="", sTeam="",  
sRobotFile="", sTestType="", sASIL="", sOwnerID="", sTCtemplate=None*)

Return testcase template from provided information.

**Args:** testcaseName : testcase name.

sDescription (optional) : testcase description.

sComponent (optional) : component which testcase is belong to.

sFID (optional) : function ID(requirement ID) for linking.

sTeam (optional) : team name for linking.

sRobotFile (optional) : link to robot file on source control.

sTestType (optional) : test type information.

sASIL (optional) : ASIL information.

sOwnerID (optional) : user ID of testcase owner.

sTCtemplate (optional) : existing testcase template as xml string. If not provided, template file under *RQM\_templates* is used as default.

**Returns:** xml template as string.

**createTestsuiteResultTemplate**(*testsuiteID, testsuiteName, TSERID, ITCER, ITCResults, startTime="",  
endTime="", duration="", sOwnerID=""*)

Return testsuite execution result template from provided configuration name

**Args:** testsuiteID : testsuite ID.

testsuiteName : testsuite name.

TSERID : testsuite execution record (TSER) ID for linking.

ITCER : list of testcase execution records (TCER) for linking.

ITCResults : list of testcase results for linking.

startTime (optional) : testsuite start time.

endTime (optional) : testsuite end time.

duration (optional) : testsuite duration.

sOwnerID (optional) : user ID of testsuite owner.

**Returns:** xml template as string.

### **disconnect()**

Disconnect from RQM

### **getAllBuildRecords()**

Get all available build records of project on RQM and store them into *dBuildVersion* property.

### **getAllByResource(resourceType)**

Return all entries of provided resource by GET method.

**Note:** This method will try to fetch all entries in all pages of resource.

**Args:** resourceType : the RQM resource type.

**Returns:** dReturn : a dictionary which contains response status, message and data.

### **getAllConfigurations()**

Get all available configurations of project on RQM and store them into *dConfiguration* property.

### **getAllTeamAreas()**

Get all available team-areas of project on RQM and store them into *dTeamAreas* property.

**Example:** { 'teamA' : '{host}/qm/process/project-areas/{project-id}/team-areas/{teamA-id}', 'teamB' : '{host}/qm/process/project-areas/{project-id}/team-areas/{teamB-id}' }

### **getResourceByID(resourceType, id)**

Return data of provided resource and ID by GET method

**Args:** resourceType : the RQM resource type.

id : ID of resource.

**Returns:** res : response data of GET request.

### **integrationURL(resourceType, id=None, forceinternalID=False)**

Return interaction URL of provided resource and ID.

**Note:** ID can be internalID (contains only digits) or externalID.

**Args:** resourceType : the RQM resource type (e.g: "testplan", "testcase", ...)

**id (optional)** [ID of given resource.] If given: the specified url to resource ID is returned. If *None*: the url to resource type (to get all entity) is returned.

**forceinternalID (optional)** : force to return the url of resource as internal ID.

**Returns:** integrationURL : interaction URL of provided resource and ID.

### **linkListTestcase2Testplan(testplanID, lTestcases=None)**

Link list of test cases to provided testplan ID.

**Args:** testplanID : testplan ID to link given testcase(s).

**ITestcases** [list of testcase(s) to be linked with given testplan.] If None (as default), *lTestcaseIDs* property will be used as list of testcase.

**Returns:**

**res** [response object which contains status and error message.] { 'success' : False, 'message': '' }

**linkListTestcase2Testsuite**(*testsuiteID*, *lTestcases=None*)

Link list of test cases to provided testsuite ID

**Args:** testsuiteID : testsuite ID to link given testcase(s).

**ITestcases** [list of testcase(s) to be linked with given testsuite.] If None (as default), *lTestcaseIDs* property will be used as list of testcase.

**Returns:**

**res** [response object which contains status and error message.] { 'success' : False, 'message': '' }

**login()**

Log in RQM by provided user & password.

**Note:** When the authentication is successful, the JSESSIONID from cookies will be stored as header for later POST method.

**Returns:** True if successful, False otherwise.

**updateResourceByID**(*resourceType*, *id*, *content*)

Update data of provided resource and ID by PUT method.

**Args:** resourceType : resource type.

id : resource id.

content : xml template as string.

**Returns:** res : response object from PUT request.

**userURL**(*userID*)

Return interaction URL of provided userID

**Args:** userID : the user ID

**Returns:** userURL : the interaction URL of provided userID

**verifyProjectName()**

Verify the project name by searching it in *project-areas* XML response.

**Note:**

**The found project ID will be stored and:**

- required for *team-areas* request (project name cannot be used)
- used for all later request urls instead of project name

**Returns:**

- True if the authentication is successful.
- False if the authentication is failed.

**webIDfromGeneratedID**(*resourceType*, *generateID*)

Return web ID (ns2:webId) from generate ID by get resource data from RQM.

**Note:**

- This method is only used for generated *testcase*, *executionworkitem* and *executionresult*.
- *buildrecord* and *configuration* does not have *ns2:webId* in response data.

**Args:** resourceType : the RQM resource type.

generateID : the Slug ID which is returned in *Content-Location* from POST response.

**Returns:** webID : web ID (number).

**webIDfromResponse**(response, tagID='rqm:resultId')

Get internal ID (number) from response of POST method.

**Note:** Only *executionresult* has response text. Other resources has only response header.

**Args:** response : the response from POST method.

tagID : tag name which contains ID information.

**Returns:** resultId : internal ID (as number).

RobotResults2RQM.CRQM.**get\_xml\_tree**(file\_name, bdt\_validation=True)

Parse xml object from file.

**Args:** file\_name : path to file or file-like object. bdt\_validation : if True, validate against a DTD referenced by the document.

**Returns:** oTree : xml etree object

**class** RobotResults2RQM.robot2rqm.**Logger**

Bases: object

Logger class for logging message.

**color\_error** = '\x1b[31m\x1b[1m'

**color\_normal** = '\x1b[37m\x1b[22m'

**color\_reset** = '\x1b[0m\x1b[39m\x1b[49m'

**color\_warn** = '\x1b[33m\x1b[1m'

**classmethod config**(output\_console=True, output\_logfile=None, indent=0, dryrun=False)

Configure Logger class.

**Args:** output\_console : write message to console output.

output\_logfile : path to log file output.

indent : offset indent.

dryrun : if set, a prefix as 'dryrun' is added for all messages.

**Returns:** None.

**dryrun** = False

**classmethod log**(msg="", color=None, indent=0)

Write log message to console/file output.

**Args:** msg : message to write to output.

color : color style for the message.

indent : offset indent.

**Returns:** None.

**classmethod** `log_error(msg, fatal_error=False)`

Write error message to console/file output.

**Args:** `msg` : message to write to output.

`fatal_error` : if set, tool will terminate after logging error message.

**Returns:** None.

**classmethod** `log_warning(msg)`

Write warning message to console/file output.

**Args:** `msg` : message to write to output.

**Returns:** None.

`output_console = True`

`output_logfile = None`

`prefix_all = ''`

`prefix_error = 'ERROR: '`

`prefix_fatalerror = 'FATAL ERROR: '`

`prefix_warn = 'WARN: '`

`RobotResults2RQM.robot2rqm.RobotResults2RQM(args=None)`

Import robot results from output.xml to RQM - IBM Rational Quality Manager.

### Flow to import Robot results to RQM:

1. Process provided arguments from command line
2. Login Rational Quality Management (RQM)
3. Parse Robot results
4. Import results into RQM
5. Link all executed testcases to provided testplan/testsuite ID

### Args:

**args** [Argument parser object:]

- `outputfile` : path to the output file or directory with output files to be imported.
- `host` : RQM host url.
- `project` : RQM project name.
- `user` : user for RQM login.
- `password` : user password for RQM login.
- `testplan` : RQM testplan ID.
- `recursive` : if True, then the path is searched recursively for log files to be imported.
- `createmissing` : if True, then all testcases without fcid are created when importing.
- `updatetestcase` : if True, then testcases information on RQM will be updated bases on robot testfile.
- `dryrun` : if True, then just check the RQM authentication and show what would be done.

**Returns:** None.



`RobotResults2RQM.robot2rqm.convert_to_datetime(time)`

Convert time string to datetime.

**Args:** time : string of time.

**Returns:** dt : datetime object

`RobotResults2RQM.robot2rqm.get_from_tags(lTags, reInfo)`

Extract testcase information from tags.

**Example:** TCID-xxxx, FID-xxxx, ...

**Args:** lTags : list of tag information.

reInfo : regex to get the expected info (ID) from tag info.

**Returns:** lInfo : list of expected information (ID)

`RobotResults2RQM.robot2rqm.process_metadata(metadata, default_metadata={'author': '', 'category': '', 'component': 'unknown', 'configfile': '', 'description': '', 'machine': '', 'project': 'ROBFW', 'tags': '', 'team-area': '', 'tester': '', 'testtool': '', 'version_hw': '', 'version_sw': '', 'version_test': ''})`

Extract metadata from suite result bases on DEFAULT\_METADATA

**Args:** metadata : Robot metadata object.

default\_metadata: initial Metadata information for updating.

**Returns:** dMetadata : dictionary of Metadata information.

`RobotResults2RQM.robot2rqm.process_suite(RQMClient, suite)`

process robot suite for importing to RQM.

**Args:** RQMClient : RQMClient object.

suite : Robot suite object.

**Returns:** None.

`RobotResults2RQM.robot2rqm.process_suite_metadata(suite, default_metadata={'author': '', 'category': '', 'component': 'unknown', 'configfile': '', 'description': '', 'machine': '', 'project': 'ROBFW', 'tags': '', 'team-area': '', 'tester': '', 'testtool': '', 'version_hw': '', 'version_sw': '', 'version_test': ''})`

Try to find metadata information from all suite levels.

**Note:** Metadata at top suite level has a highest priority.

**Args:** suite : Robot suite object.

default\_metadata: initial Metadata information for updating.

**Returns:** dMetadata : dictionary of Metadata information.

`RobotResults2RQM.robot2rqm.process_test(RQMClient, test)`

process robot test for importing to RQM.

**Args:** RQMClient : RQMClient object.

test : Robot test object.

**Returns:** None.



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