

RobotResults2RQM

v. 1.1.1

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01.08.2022

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Chapter 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 vailable entities of resource type.
- update resource: by given ID.
- create new resource: with resource templates under [RQM_templates](#) folder

Chapter 2

Description

2.1 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
```

2.2 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`.

2.3 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	Metadata version_sw <i>Build</i>	//suite/metadata/item[@name="version_sw"]
Test Environment	Title	Metadata project <i>Environment</i>	//suite/metadata/item[@name="project"]
Test Case	ID	[Tags] tcid-xxx	//suite/test/tags/tag[@text="tcid-xxx"]
	Name	tesname	//suite/test/@name
	Team Area	Metadata team-area <i>Team_Area</i>	//suite/metadata/item[@name="team-area"]
	Description	test doc - [Documentation]	//suite/test/doc/@text
	Owner	provided <i>user</i> in cli	
	Component/ Categories	Metadata 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-zzz"]
Test Case Execution Record (TCER)	Owner	provided <i>user</i> in cli	
	Team Area	Metadata team-area <i>Team_Area</i>	//suite/metadata/item[@name="team-area"]
	Test Plan	Interaction URL to provided <i>test-plan</i> in cli	
	Test Case	Interaction URL to testcase ID	//suite/test/tags/tag[@text="tcid-xxx"]
	Test Environment	Metadata project <i>Environment</i>	//suite/metadata/item[@name="project"]
Test Result	Owner	provided <i>user</i> in cli	
	Tested By	provided <i>user</i> in cli - userid must be used	
	Team Area	Metadata 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	Metadata machine %{COMPUTERNAME}	//suite/metadata/item[@name="machine"]
	Test Plan	Interaction URL to provided <i>test-plan</i> in cli	
	Test Case	Interaction URL to testcase ID	//suite/test/tags/tag[@text="tcid-xxx"]
	Test Case Execution Record	Interaction URL to TCER ID	
	Build	Metadata 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	
	Result Details	Test case message log	//suite/test/status/@text

Table 2.1: RQM data & RobotFramework testcase/output.xml

Chapter 3

CRQM.py

3.1 Function: get_xml_tree

Parse xml object from file.

Arguments:

- `file_name`
/ Condition: required */ Type:* str */*
Path to file or file-like object.
- `bddtd_validation`
/ Condition: optional */ Type:* bool */*
If True, validate against a DTD referenced by the document.

Returns:

- `oTree`
/ Type: lxml.etree._ElementTree object */*
The xml etree object.

3.2 Class: CRQMClient

```
RobotResults2RQM.CRQM
```

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

Resoure 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

3.2.1 Method: login

Log in RQM by provided user & password.

Arguments:

(no arguments)

Returns:

- bSuccess
/ Type: bool /
Indicates if the computation of the method login was successful or not.

3.2.2 Method: verifyProjectName

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

Arguments:

(no arguments)

Returns:

- bSuccess
/ Type: bool /
Indicates if the computation of the method verifyProjectName was successful or not.

3.2.3 Method: disconnect

Disconnect from RQM.

Arguments:

(no arguments)

Returns:

(no returns)

3.2.4 Method: config

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.

Arguments: *plan_id

/ Condition: required / Type: str /

Testplan ID of RQM project for importing result(s).

- build_name
/ Condition: optional / Type: str / Default: None /
The Build Record for linking result(s). Set it to None if not be used, the empty name " will lead to error.
- config_name
/ Condition: optional / Type: str / Default: None /
The Test Environment for linking result(s). Set it to None if not be used, the empty name " may lead to error.
- createmissing

/ Condition: optional / Type: bool / Default: False /

If True, the testcase without tcid information will be created on RQM.

- `update_testcase`

/ Condition: optional / Type: bool / Default: False /

If True, the information of testcase on RQM will be updated bases on robot testfile.

- `suite_id` (optional)

/ Condition: optional / Type: str / Default: None /

Testsuite ID of RQM project for importing result(s).

Returns:

(no returns)

3.2.5 Method: `userURL`

Return interaction URL of provided userID

Arguments:

- `userID`

/ Condition: required / Type: str /

The user ID.

Returns:

- `userURL`

/ Type: str /

The interaction URL of provided userID.

3.2.6 Method: `integrationURL`

Return interaction URL of provided resource and ID. The provided ID can be `internalID` (contains only digits) or `externalID`.

Arguments:

- `resourceType`

/ Condition: required / Type: str /

The RQM resource type (e.g. "testplan", "testcase", ...).

- `id`

/ Condition: optional / Type: str / Default: None /

The 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`

/ Condition: optional / Type: bool / Default: False /

If True, force to return the url of resource as internal ID.

Returns:

- `integrationURL`

/ Type: str /

The interaction URL of provided resource and ID.

3.2.7 Method: webIDfromResponse

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

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

Arguments:

- response
/ Condition: required / Type: str /
The xml response from POST method for parsing ID information.
- tagID
/ Condition: optional / Type: str / Default: 'rqm:resultId' /
Tag name which contains ID information.

Returns:

- resultId
/ Type: str /
The internal ID (as number).

3.2.8 Method: webIDfromGeneratedID

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.

Arguments:

- resourrrceType
/ Condition: required / Type: str /
The RQM resource type.
- generateID
/ Condition: required / Type: str /
The Slug ID which is returned in Content-Location from POST response.

Returns:

- webID
/ Type: str /
The web ID (as number).

3.2.9 Method: getResourceByID

Return data of provided resource and ID by GET method

Arguments:

- resourceType
/ Condition: required / Type: str /
The RQM resource type.
- id
/ Condition: required / Type: str /
ID of resource.

Returns:

- res
/ Type: Response object /
Response data of GET request.

3.2.10 Method: getAllByResource

Return all entries (in all pages) of provided resource by GET method.

Arguments:

- resourceType
/ Condition: required / Type: str /
The RQM resource type.

Returns:

- dReturn
/ Type: dict /
A dictionary which contains response status, message and data.

3.2.11 Method: getAllBuildRecords

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

Arguments:

(no arguments)

Returns:

(no returns)

3.2.12 Method: getAllConfigurations

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

Arguments:

(no arguments)

Returns:

(no returns)

3.2.13 Method: 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}'
}

Arguments:

(no arguments)

Returns:

(no returns)

3.2.14 Method: addTeamAreaNode

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

Note: team-area information is case-casesensitive

Arguments:

- root
/ Condition: required / Type: Element object /
The xml root object.

- sTeam
/ Condition: required / Type: str /
Team name to be added.

Returns:

- root
/ Type: str /
The xml root object with addition team-area node.

3.2.15 Method: createTestcaseTemplate

Return testcase template from provided information.

Arguments:

- testCaseName
/ Condition: required / Type: str /
Testcase name.
- sDescription
/ Condition: optional / Type: str / Default: " /
Testcase description.
- sComponent
/ Condition: optional / Type: str / Default: " /
Component which testcase is belong to.
- sFID

/ Condition: optional / Type: str / Default: " /
Function ID (requirement ID) for linking.

- sTeam

/ Condition: optional / Type: str / Default: " /
Team name for linking.

- sRobotFile

/ Condition: optional / Type: str / Default: " /
Link to robot file on source control.

- sTestType

/ Condition: optional / Type: str / Default: " /
Test type information.

- sASIL

/ Condition: optional / Type: str / Default: " /
ASIL information.

- sOwnerID

/ Condition: optional / Type: str / Default: " /
User ID of testcase owner.

- sTCtemplate

/ Condition: optional / Type: str / Default: None /
Existing testcase template as xml string.
If not provided, template file under RQM.templates is used as default.

Returns:

/ Type: str /
The xml template as string.

3.2.16 Method: createTCERTemplate

Return testcase execution record template from provided information.

Arguments:

- testcaseID

/ Condition: required / Type: str /
Testcase ID for linking.

- testcaseName

/ Condition: required / Type: str /
Testcase name.

- testplanID

/ Condition: required / Type: str /
Testplan ID for linking.

- confID

/ Condition: optional / Type: str / Default: " /
Configuration - Test Environment for linking.

- sTeam

/ Condition: optional / Type: str / Default: " /
Team name for linking.

- sOwnerID

/ Condition: optional / Type: str / Default: " /
User ID of testcase owner.

Returns:

/ Type: str /
The xml template as string.

3.2.17 Method: createExecutionResultTemplate

Return testcase execution result template from provided information.

Arguments:

- testCaseID

/ Condition: required / Type: str /
Testcase ID for linking.

- testCaseName

/ Condition: required / Type: str /
Testcase name.

- testplanID

/ Condition: required / Type: str /
Testplan ID for linking.

- TCERID

/ Condition: required / Type: str /
Testcase execution record (TCER) ID for linking.

- resultState

/ Condition: required / Type: str /
Testcase result status.

- startTime

/ Condition: required / Type: str /
Testcase start time.

- endTime

/ Condition: optional / Type: str / Default: " /
Testcase end time.

- duration

/ Condition: optional / Type: str / Default: " /
Testcase duration.

- testPC

/ Condition: optional / Type: str / Default: " /
Test PC which executed testcase.

- testBy

/ Condition: optional / Type: str / Default: " /
User ID who executed testcase.

- lastlog

/ Condition: optional / Type: str / Default: " /
Traceback information (for Failed testcase).

- buildrecordID

/ Condition: optional / Type: str / Default: " /
Build Record ID for linking.

- sTeam

/ Condition: optional / Type: str / Default: " /
Team name for linking.

- sOwnerID

/ Condition: optional / Type: str / Default: " /
User ID of testcase owner.

Returns:

/ Type: str /
The xml template as string.

3.2.18 Method: createBuildRecordTemplate

Return build record template from provided build name.

Arguments:

- buildName

/ Condition: required / Type: str /
Build Record name.

Returns:

/ Type: str /
The xml template as string.

3.2.19 Method: createConfigurationTemplate

Return configuration - Test Environment template from provided configuration name.

Arguments:

- buildName

/ Condition: required / Type: str /
Configuration - Test Environment name.

Returns:

/ Type: str /
The xml template as string.

3.2.20 Method: createTSERTemplate

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

Arguments:

- testsuiteID
 - / *Condition*: required / *Type*: str /
 - Testsuite ID.
- testsuiteName
 - / *Condition*: required / *Type*: str /
 - Testsuite name.
- testplanID
 - / *Condition*: required / *Type*: str /
 - Testplan ID for linking.
- confID
 - / *Condition*: optional / *Type*: str / *Default*: " /
 - Configuration - Test Environment ID for linking.
- sOwnerID
 - / *Condition*: optional / *Type*: str / *Default*: " /
 - User ID of testsuite owner.

Returns:

/ *Type*: str /
The xml template as string.

3.2.21 Method: createTestsuiteResultTemplate

Return testsuite execution result template from provided configuration name.

Arguments:

- testsuiteID
 - / *Condition*: required / *Type*: str /
 - Testsuite ID.
- testsuiteName
 - / *Condition*: required / *Type*: str /
 - Testsuite name.
- TSERID
 - / *Condition*: required / *Type*: str /
 - Testsuite execution record (TSER) ID for linking.
- lTCER
 - / *Condition*: required / *Type*: str /
 - List of testcase execution records (TCER) for linking.
- lTCResults

/ Condition: required / Type: str /
List of testcase results for linking.

- startTime

/ Condition: optional / Type: str / Default: " /
Testsuite start time.

- endTime

/ Condition: optional / Type: str / Default: " /
Testsuite end time.

- duration

/ Condition: optional / Type: str / Default: " /
Testsuite duration.

- sOwnerID

/ Condition: optional / Type: str / Default: " /
User ID of testsuite owner.

Returns:

/ Type: str /
The xml template as string.

3.2.22 Method: createResource

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

Arguments:

- resourceType

/ Condition: required / Type: str /
Resource type.

- content

/ Condition: required / Type: str /
The xml template as string.

Returns:

- returnObj

/ Type: dict /
A dictionary reponse which contains status, ID, status_code and error message.
E.g:
{ 'success' : False, 'id': None, 'message': "", 'status_code': ""
}

3.2.23 Method: createBuildRecord

Create new build record.

Arguments:

- sBuildSWVersion
 - / *Condition*: required / *Type*: str /
 - Build version - Build Record name.
- forceCreate
 - / *Condition*: optional / *Type*: bool / *Default*: False /
 - If True, force to create new build record without existing verification.

Returns:

- returnObj
 - / *Type*: dict /
 - A dictionary reponse which contains status, ID, status_code and error message.
 - E.g:
 - { 'success' : False, 'id': None, 'message': ", 'status_code': "
 - }

3.2.24 Method: createConfiguration

Create new configuration - test environment.

Arguments:

- sConfigurationName
 - / *Condition*: required / *Type*: str /
 - Configuration - Test Environment name.
- forceCreate
 - / *Condition*: optional / *Type*: str / *Default*: False /
 - If True, force to create new Test Environment without existing verification.

Returns:

- returnObj
 - / *Type*: dict /
 - A dictionary reponse which contains status, ID, status_code and error message.
 - E.g:
 - { 'success' : False, 'id': None, 'message': ", 'status_code': "
 - }

3.2.25 Method: updateResourceByID

Update data of provided resource and ID by PUT method.

Arguments:

- resourceType
 - / *Condition*: required / *Type*: str /
 - Resource type.

- id

/ Condition: required */ Type:* str */*
Resource id.

- content

/ Condition: required */ Type:* str */*
The xml template as string.

Returns:

- res

/ Type: Response object */*
Response object from PUT request.

3.2.26 Method: linkListTestcase2Testplan

Link list of test cases to provided testplan ID.

Arguments:

- testplanID

/ Condition: required */ Type:* str */*
Testplan ID to link given testcase(s).

- lTestcases

/ Condition: optional */ Type:* list */ Default:* None */*
List of testcase(s) to be linked with given testplan.
If not provide, lTestcaseIDs property will be used as list of testcase.

Returns:

- returnObj

/ Type: dict */*
Response dictionary which contains status and error message.
E.g:
{ 'success': False, 'message': "
}

3.2.27 Method: linkListTestcase2Testsuite

Link list of test cases to provided testsuite ID

Arguments:

- testsuiteID

/ Condition: required */ Type:* str */*
Testsuite ID to link given testcase(s).

- lTestcases

/ Condition: optional */ Type:* list */ Default:* None */*
List of testcase(s) to be linked with given testplan.
If not provide, lTestcaseIDs property will be used as list of testcase.

Returns:

- returnObj

/ *Type*: dict /

Response dictionary which contains status and error message.

E.g:

```
{ 'success' : False, 'message': "
```

```
}
```

Chapter 4

`__init__.py`

RobotResults2RQM package provides an interface to import robot result(s) from output.xml result file to IBM Rational Quality Manager (RQM).

Chapter 5

robot2rqm.py

5.1 Function: get_from_tags

Extract testcase information from tags.

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

Arguments:

- lTags
/ Condition: required / Type: list /
List of tag information.
- reInfo
/ Condition: required / Type: str /
Regex to get the expectedated info (ID) from tag info.

Returns:

- lInfo
/ Type: list /
List of expected information (ID)

5.2 Function: convert_to_datetime

Convert time string to datetime.

Arguments:

- time
/ Condition: required / Type: str /
String of time.

Returns:

- dt
/ Type: datetime object /
Datetime object.

5.3 Function: process_suite_metadata

Try to find metadata information from all suite levels.

Metadata at top suite level has a highest priority.

Arguments:

- suite
/ *Condition*: required / *Type*: TestSuite object /
Robot suite object.
- default_metadata
/ *Condition*: optional / *Type*: dict / *Default*: DEFAULT_METADATA /
Initial Metadata information for updating.

Returns:

- dMetadata
/ *Type*: dict /
Dictionary of Metadata information.

5.4 Function: process_metadata

Extract metadata from suite result bases on DEFAULT_METADATA.

Arguments:

- metadata
/ *Condition*: required / *Type*: dict /
Robot metadata object.
- default_metadata
/ *Condition*: optional / *Type*: dict / *Default*: DEFAULT_METADATA /
Initial Metadata information for updating.

Returns:

- dMetadata
/ *Type*: dict /
Dictionary of Metadata information.

5.5 Function: process_suite

Process robot suite for importing to RQM.

Arguments:

- RQMClient
/ *Condition*: required / *Type*: RQMClient object/
RQMClient object.
- suite
/ *Condition*: required / *Type*: TestSuite object/
Robot suite object.

Returns:

(no returns)

5.6 Function: process_test

Process robot test for importing to RQM.

Arguments:

- RQMClient
 - / *Condition*: required / *Type*: RQMClient object/
RQMClient object.
- test
 - / *Condition*: required / *Type*: TestCase object/
Robot test object.

Returns:

(no returns)

5.7 Function: RobotResults2RQM

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

Arguments:

- args
 - / *Condition*: required / *Type*: ArgumentParser object /

Argument parser object which contains:

- 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:

(no returns)

5.8 Class: Logger

```
RobotResults2RQM.robot2rqm
```

Logger class for logging message.

5.8.1 Method: config

Configure Logger class.

Arguments:

- `output_console`
/ Condition: optional / Type: bool / Default: True /
 Write message to console output.
- `output_logfile`
/ Condition: optional / Type: str / Default: None /
 Path to log file output.
- `indent`
/ Condition: optional / Type: int / Default: 0 /
 Offset indent.
- `dryrun`
/ Condition: optional / Type: bool / Default: True /
 If set, a prefix as 'dryrun' is added for all messages.

Returns:

(no returns)

5.8.2 Method: log

Write log message to console/file output.

Arguments:

- `msg`
/ Condition: optional / Type: str / Default: " /
 Message which is written to output.
- `color`
/ Condition: optional / Type: str / Default: None /
 Color style for the message.
- `indent`
/ Condition: optional / Type: int / Default: 0 /
 Offset indent.

Returns:

(no returns)

5.8.3 Method: `log_warning`

Write warning message to console/file output.

Arguments:

- `msg`
/ Condition: required / Type: str /
Warning message which is written to output.

Returns:

(no returns)

5.8.4 Method: `log_error`

Write error message to console/file output.

- `msg`
/ Condition: required / Type: str /
Error message which is written to output.
- `fatal_error`
/ Condition: optional / Type: bool / Default: False /
If set, tool will terminate after logging error message.

Returns:

(no returns)

Chapter 6

Appendix

About this package:

Table 6.1: Package setup

Setup parameter	Value
Name	RobotResults2RQM
Version	1.1.1
Date	01.08.2022
Description	Imports robot result(s) to IBM Rational Quality Manager (RQM)
Package URL	robotframework-testresult2rqmtool
Author	Tran Duy Ngoan
Email	Ngoan.TranDuy@vn.bosch.com
Language	Programming Language :: Python :: 3
License	License :: OSI Approved :: Apache Software License
OS	Operating System :: OS Independent
Python required	>=3.0
Development status	Development Status :: 4 - Beta
Intended audience	Intended Audience :: Developers
Topic	Topic :: Software Development

Chapter 7

History

0.1.0	07/2022
<i>Initial version</i>	
0.2.0	01.08.2022
<i>Rework repository's document bases on GenPackageDoc</i>	

RobotResults2RQM.pdf*Created at 18.08.2022 - 19:22:31**by GenPackageDoc v. 0.27.0*
