

# **RobotLog2RQM**

**v. 1.2.0**

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# Chapter 1

## Introduction

[RobotLog2RQM](#) tool provides the ability to interact with RQM resources (test plan, test case, build, ...).

**[RobotLog2RQM](#) 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 Robot Framework 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 Framework 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    machine      ${COMPUTERNAME} # Hostname
Metadata    component     Import_Tools   # Component - is used for test case
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
```

Listing 2.1: Sample Robot Framework testcase

#### Hint



In case you are using RobotFramework AIO with `RobotFramework.Testsuites` library for executing Robot testcase(s). You do not need to define above highlighted `Metadata` in your Robot test case. These `Metadata` information will be defined implicitly within the `Suite Setup` bases on your environment and configuration in \*.json file.

### 2.2 Tool features:

By default, tool will base on provided arguments (see `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, **RobotLog2RQM** 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 Robot Framework testcase information is displayed on RQM, please refer be mapping table:

RQM data		Robot Framework	
Resource	Attribute/ Field	Testsuite/Testcase	Output.xml
Build Record	Title	<code>Metadata version_sw Build</code>	<code>//suite/metadata/item[@name="version_sw"]</code>
Test Environment	Title	<code>Metadata project Environment</code>	<code>//suite/metadata/item[@name="project"]</code>
Test Case	ID	<code>[Tags] tcid-xxx</code>	<code>//suite/test/tags/tag[@text="tcid-xxx"]</code>
	Name	tesname	<code>//suite/test/@name</code>
	Team Area	<code>Metadata team-area Team_Area</code>	<code>//suite/metadata/item[@name="team-area"]</code>
	Description	test doc - <code>[Documentation]</code>	<code>//suite/test/doc/@text</code>
	Owner	provided <code>user</code> in cli	
	Component/ Categories	<code>Metadata component Component</code>	<code>//suite/metadata/item[@name="component"]</code>
	Requirement ID	<code>[Tags] fid-yyy</code>	<code>//suite/test/tags/tag[@text="fid-yyy"]</code>
	Robot File	<code>[Tags] robotfile-zzz</code>	<code>//suite/test/tags/tag[@text="robotfile-zzz"]</code>
Test Case Execution Record (TCER)	Owner	provided <code>user</code> in cli	
	Team Area	<code>Metadata team-area Team_Area</code>	<code>//suite/metadata/item[@name="team-area"]</code>
	Test Plan	Interaction URL to provided <code>testplan</code> in cli	
	Test Case	Interaction URL to provided testcase ID: provided tcid in <code>[Tags]: tcid-xxx</code> or generated tcid when using <code>-createmissing</code>	<code>//suite/test/tags/tag[@text="tcid-xxx"]</code>
	Test Environment	<code>Metadata project Environment</code>	<code>//suite/metadata/item[@name="project"]</code>
Test Result	Owner	provided <code>user</code> in cli	
	Tested By	provided <code>user</code> in cli - userid must be used	
	Team Area	<code>Metadata team-area Team_Area</code>	<code>//suite/metadata/item[@name="team-area"]</code>
	Actual Result	Test case result ( <b>PASSED</b> , <b>FAILED</b> , <b>UNKNOWN</b> )	<code>//suite/test/status/@status</code>
	Host Name	<code>Metadata machine ↔ ↔ %{COMPUTERNAME}</code>	<code>//suite/metadata/item[@name="machine"]</code>
	Test Plan	Interaction URL to provided <code>testplan</code> in cli	
	Test Case	Interaction URL to provided testcase ID: provided tcid in <code>[Tags]: tcid-xxx</code> or generated tcid when using <code>-createmissing</code>	<code>//suite/test/tags/tag[@text="tcid-xxx"]</code>
	Test Case Execution Record	Interaction URL to TCER ID	
	Build	<code>Metadata version_sw Build</code>	<code>//suite/metadata/item[@name="version_sw"]</code>
	Start Time	Test case start time	<code>//suite/test/status/@starttime</code>
	End Time	Test case end time	<code>//suite/test/status/@endtime</code>
	Total Run Time	Calculated from start and end time	
	Result Details	Test case message log	<code>//suite/test/status/@text</code>

Table 2.1: RQM data &amp; Robot Framework 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.
- `bdttd.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

*Imported by:*

```
from RobotLog2RQM.CRQM import CRQMClient
```

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).
- buildname  
/ 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:**

- resourrrceType  
/ *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:**

- `resourrrceType`  
/ *Condition*: required / *Type*: str /  
The RQM resource type.

**Returns:**

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

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

- `sTCxml`  
/ *Type*: str /  
The xml testcase 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:**

- sTCERxml  
/ *Type*: str /  
The xml testcase execution record 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:**

- sTCResultxml  
/ *Type*: str /  
The xml testcase result 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:**

- sBuildxml  
/ *Type*: str /  
The xml build 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:**

- sEnvironmentxml  
/ *Type*: str /  
The xml test environment 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:**

- sTSxml  
/ *Type*: str /  
The xml testsuite 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:**

- `sTSResultxml`  
/ *Type*: str /  
The xml testsuite result 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.  
Example:

```
{
  '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.  
Example:

```
{
  '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.  
Example:

```
{
  '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.  
Example:

```
{
  '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.  
Example:

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

## Chapter 4

# robotlog2rqm.py

### 4.1 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 expected info (ID) from tag info.

**Returns:**

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

### 4.2 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.

### 4.3 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.

### 4.4 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.

### 4.5 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)

## 4.6 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)

## 4.7 Function: RobotLog2RQM

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:
  - `resultxmlfile` : path to the xml result file or directory of result 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 verify all input arguments (includes RQM authentication) and show what would be done.

### Returns:

(no returns)

## 4.8 Class: Logger

Imported by:



```
from RobotLog2RQM.robotlog2rqm import Logger
```

Logger class for logging message.

### 4.8.1 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.
- `dryrun`  
/ *Condition*: optional / *Type*: bool / *Default*: True /  
If set, a prefix as 'dryrun' is added for all messages.

#### Returns:

(no returns)

### 4.8.2 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)

### 4.8.3 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)

#### 4.8.4 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 5

# Appendix

About this package:

Table 5.1: Package setup

Setup parameter	Value
Name	RobotLog2RQM
Version	1.2.0
Date	09.01.2023
Description	Imports robot result(s) to IBM Rational Quality Manager (RQM)
Package URL	<a href="#">robotframework-robotlog2rqm</a>
Author	Tran Duy Ngoan
Email	<a href="mailto:Ngoan.TranDuy@vn.bosch.com">Ngoan.TranDuy@vn.bosch.com</a>
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 6

# History

<b>0.1.0</b>	07/2022
<i>Initial version</i>	
<b>1.1.1</b>	01.08.2022
<i>Rework repository's document bases on GenPackageDoc</i>	
<b>1.1.2</b>	25.08.2022
<ul style="list-style-type: none"><li>- Correct indent of sourcode's docstring.</li><li>- Update new style for history.</li></ul>	
<b>1.1.3</b>	13.10.2022
<ul style="list-style-type: none"><li>- Fix findings and enhance README and document files</li><li>- Change argument name 'outputfile' to 'resultxmlfile'</li></ul>	
<b>1.1.4</b>	10.11.2022
<i>Rename package to RobotLog2RQM</i>	
<b>1.2.0</b>	09.01.2023
<i>Rework optional arguments and improve logging messages</i>	

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