${\bf Robot Results 2 RQM}$

v. 1.1.3

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CONTENTS

Contents

1	Inti	Introduction				
2	Des	scription		2		
	2.1	Sample Robot Fr	ramework Testcase:	2		
	2.2	Tool features: .		2		
	2.3	Robot Testcase i	information on RQM:	3		
3	$\mathbf{C}\mathbf{R}$	$\mathbf{QM.py}$		5		
	3.1	Function: get_xn	nl_tree	5		
	3.2	Class: CRQMCli	ient	5		
		3.2.1 Method:	login	6		
		3.2.2 Method:	verifyProjectName	6		
		3.2.3 Method:	disconnect	6		
		3.2.4 Method:	config	6		
		3.2.5 Method:	$userURL \ \dots $	7		
		3.2.6 Method:	$integration URL \dots $	7		
		3.2.7 Method:	webIDfromResponse	8		
		3.2.8 Method:	webIDfromGeneratedID	8		
		3.2.9 Method:	getResourceByID	8		
		3.2.10 Method:	getAllByResource	9		
		3.2.11 Method:	getAllBuildRecords	9		
		3.2.12 Method:	getAllConfigurations	9		
		3.2.13 Method:	getAllTeamAreas	9		
		3.2.14 Method:	addTeamAreaNode	10		
		3.2.15 Method:	createTestcaseTemplate	10		
		3.2.16 Method:	createTCERTemplate	11		
		3.2.17 Method:	createExecutionResultTemplate	12		
		3.2.18 Method:	createBuildRecordTemplate	13		
		3.2.19 Method:	createConfigurationTemplate	13		
		3.2.20 Method:	createTSERTemplate	14		
		3.2.21 Method:	createTestsuiteResultTemplate	14		
		3.2.22 Method:	createResource	15		
		3.2.23 Method:	createBuildRecord	16		
		3.2.24 Method:	createConfiguration	16		
		3.2.25 Method:	updateResourceByID	17		
		3.2.26 Method:	linkListTestcase2Testplan	17		
		3.2.27 Method:	linkListTestcase2Testsuite	18		

CONTENTS

4	robot2rqm.py	19
	4.1 Function: get_from_tags	19
	4.2 Function: convert_to_datetime	19
	4.3 Function: process_suite_metadata	20
	4.4 Function: process_metadata	20
	4.5 Function: process_suite	20
	4.6 Function: process_test	21
	4.7 Function: RobotResults2RQM	21
	4.8 Class: Logger	21
	4.8.1 Method: config	22
	4.8.2 Method: log	22
	4.8.3 Method: log_warning	22
	4.8.4 Method: log_error	23
5	Appendix	24
6	History	25

Introduction

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

RobotResults2RQM tool uses RqmAPI to:

- $\bullet\,$ 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

Description

2.1 Sample Robot Framework Testcase:

For test case management, we need some tracable 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
                    SW_VERSION_0.1  # Build Record
Metadata
         version_sw
Metadata machine %{COMPUTERNAME} # Hostname
Metadata component
Metadata team-area
                     Import_Tools  # Component - is used for test case
                   *** Test Cases ***
Testcase 01
   [Documentation] This test is traceable with provided toid
   [Tags] TCID-1001 FID-112 FID-111

→ robotfile-https://github.com/test-fullautomation
          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
          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 total 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 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 toid 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	I data	Robot Framework	
Resource	Attribute/ Field	Testsuite/Testcase	Output.xml
Build Record	Title	Metadata version_sw Build	//suite/metadata/item[@name="version_sw"]
Test Envi- ronment	Title	Metadata project Environment	//suite/metadata/item[@name="project"]
	ID	[Tags] tcid-xxx	//suite/test/tags/tag[@text="tcid-xxx"]
	Name	tesname	//suite/test/@name
	Team Area	Metadata team-area Team_Area	//suite/metadata/item[@name="team-area"]
Test Case	Description	test doc - [Documentation]	//suite/test/doc/@text
Test Case	Owner	provided user in cli	
	Component/ Categories	Metadata component Component	//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"]
	Owner	provided user in cli	
	Team Area	Metadata team-area Team_Area	//suite/metadata/item[@name="team-area"]
Test Case Execution	Test Plan	Interaction URL to provided testplan in cli	
Record (TCER)	Test Case	Interaction URL to provided testcase ID: provided tcid in [Tags]: tcid-xxx or generated tcid when using -createmissing	//suite/test/tags/tag[@text="tcid-xxx"]
	Test Environ- ment	Metadata project Environment	//suite/metadata/item[@name="project"]
	Owner	provided user in cli	
	Tested By	provided user in cli - userid must be used	
	Team Area	Metadata team-area Team_Area	//suite/metadata/item[@name="team-area"]
	Actual Result	Test case result (PASSED, FAILED, UNKNOWN)	//suite/test/status/@status
Test Result	Host Name	Metadata machine ↔	//suite/metadata/item[@name="machine"]
	Test Plan	Interaction URL to provided testplan in cli	
	Test Case	Interaction URL to provided testcase ID: provided tcid in [Tags]: tcid-xxx or generated tcid when using -createmissing	//suite/test/tags/tag[@text="tcid-xxx"]
	Test Case Execution Record	Interaction URL to TCER ID	
	Build	Metadata version_sw Build	//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 & Robot Framework testcase/output.xml

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.
```

bdtd_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 RobotResults2RQM.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

ullet 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)

• execution result: 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 teid information will be created on RQM.

```
• updatetestcase
```

```
/ 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 reource 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 reource and ID.

3.2.7 Method: webIDfromResponse

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

Note: Only execution result 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.
- build record and configuration does not have ns2:webId in response data.

Arguments:

```
resourceType
/ 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.
```

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

${\bf 3.2.10}\quad {\bf Method:\ getAllByRe source}$

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.
        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 dConfiguation 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.
```

• 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.
  / Condition: optional / Type: str / Default: " /
  Team name for linking.
• sOwnerID
  / Condition: optional / Type: str / Default: " /
  User ID of testcase owner.
```

```
    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.
```

```
• 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.
```

```
• 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.
1TCER
/ Condition: required / Type: str /
List of testcase execution records (TCER) for linking.
1TCResults
/ 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.
```

• 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.
```

```
    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.
```

```
    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).
1Testcases
/ 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.
```

```
    returnObj
    / Type: dict /
    Response dictionary which contains status and error message.
    Example:
```

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

${\bf 3.2.27} \quad {\bf Method: linkListTest case 2 Test suite}$

Link list of test cases to provided testsuite ID

Arguments:

```
testsuiteID
/ Condition: required / Type: str /
Testsuite ID to link given testcase(s).
1Testcases
/ 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.
```

```
    returnObj
    / Type: dict /
    Response dictionary which contains status and error message.
    Example:
```

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

robot2rqm.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 expectated info (ID) f

Regex to get the expectated 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.
```

```
• 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

Initial Metadata information for updating.

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 /
```

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/
```

Returns:

```
(no returns)
```

Robot suite object.

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: 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:
```

- 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 test cases 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)

4.8 Class: Logger

Imported by:

from RobotResults2RQM.robot2rqm 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.
```

```
• 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)

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.
```

 $(no\ returns)$

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)

Appendix

About this package:

Table 5.1: Package setup

Setup parameter	Value	
Name	RobotResults2RQM	
Version	1.1.3	
Date	13.10.2022	
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	

History

0.1.0	07/2022		
Initial ver	Initial version		
1.1.1	01.08.2022		
Rework re	k repository's document bases on GenPackageDoc		
1.1.2	25.08.2022		
- Correct indent of sourcode's docstring Update new style for history.			
1.1.3	13.10.2022		
- Fix findings and enhance README and document files - Change argument name 'outputfile' to 'resultxmlfile'			

 ${\bf RobotResults 2 RQM.pdf}$

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