$Robot Framework_Test suites Management\\$

v. 0.7.1

Mai Dinh Nam Son

26.05.2023

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Introduction

The **RobotFramework_TestsuitesManagement** enables users to define dynamic configuration values within separate configuration files in JSON format.

These configuration values are available during test execution - but under certain conditions that can be defined by the user (e.g. to realize a variant handling). This means: Not all parameter values are available during test execution - only the ones that belong to the current test scenario.

To realize this, the RobotFramework_TestsuitesManagement provides the following features:

- 1. Split all possible configuration values into several JSON configuration files, with every configuration file contains a specific set of values for configuration parameter
- 2. Use nested imports of JSON configuration files
- 3. Follow up definitions in configuration files overwrite previous definitions (of the same parameter)
- 4. Select between several criteria to let the Robot Framework use a certain JSON configuration file

How to install

The **RobotFramework_TestsuitesManagement** can be installed in two different ways: via PyPi (recommended for users) and via GitHub (recommended for developers).

Installation details can be found in **README**

Description

2.1 Meaning of "Test Suites Management"

In the scope of the Robot Framework a test suite is either a single robot file containing one or more test cases, or a set of several robot files.

Usually all test cases of a test suite run under the same conditions - but these conditions may be different. For example the same test case is used to test several different variants of a system under test. Every variant requires individual values for certain configuration parameters.

Tests are carried out at several test benches. All test benches have different hardware configurations. Also the different test benches may require individual values for configuration parameters used in the tests.

Therefore the same tests have to run under different conditions!

The Robot Framework provides several places to define parameters: robot files, resource files, parameter files. But these parameters are fixed. Therefore we need a more dynamic way of accessing parameters. And we postulate the following: When switching between tests of several variants and test executions on several test benches, no changes shall be required within the test code.

The outcome is that another position has to be introduced to store values for variant and test bench specific parameters. And a possibility has to be provided to dynamically make either the one or the other set of values vailable during the execution of tests - depending on outer circumstances like "which variant?" and "which test bench?". Those dynamic configuration values are stored within separate configuration files in JSON format and the Robot-Framework_TestsuitesManagement makes the values available globally during the test execution.

Two different kinds of JSON configuration files are involved:

- $1.\ parameter\ configuration\ files$
 - These configuration files contain all parameter definitions (can be more than one configuration file in a project)
- 2. variant configuration file

This is a single configuration file containing the mapping between the several parameter configuration files and a name (usually the name of a variant). This name can be used in command line to select a certain parameter configuration file containing the values for this variant.

Background: It's easier simply to use a name for referencing a certain variant instead of having the need always to mention the path and name of a configuration file.

To realize a concrete test suites management for your project, you need to

- identify the parameters that are variant specific, depending on the number of variants in your project,
- identify the parameters that are test bench specific, depending on the number of test benches in your project,
- identify the parameters that are both: variant specific and test bench specific,
- identify the parameters that have the same value in all variants and test benches.

After this

- for every set of parameters (variant specific and bench specific) you have to introduce a certain parameter configuration file,
- in the variant configuration file you have to define for every variant a variant name together with the path to the corresponding parameter configuration file.

Basically all configuration files of the **RobotFramework_TestsuitesManagement** are implemented in JSON format. This format is extended by some useful features like code comments and imports (nested configuration files). This is explained in more detail in the following chapters. These features cause deviations from standard JSON format. To give applications like editors or syntax checkers a chance to handle these deviations (without invalid findings), all JSON configurations files of the **RobotFramework_TestsuitesManagement** have the extension .jsonp , instead of .json .

The content of the configuration files is described in the next section.

2.2 Content of configuration files

1. variant configuration file

This file configures the access to all variant dependent robot_config*.jsonp files.

The example above contains definitions for three variants with names:

variant_1, variant_2 and variant_3. Additionally a variant named default is defined. This default configuration becomes active in case of no certain variant name is provided when the test suite is being executed.

Another aspect is important: the **three dots**. The path to the robot_config*.jsonp files depends on the test file location. A different number of ../ is required dependent on the directory depth of the test case location.

Therefore we use here three dots to tell the **RobotFramework_TestsuitesManagement** to search from the test file location up till the robot_config*.jsonp files are found:

```
./config/robot_config.jsonp
../config/robot_config.jsonp
../../config/robot_config.jsonp
../../config/robot_config.jsonp
```

and so on.

Hint: The paths to the robot_config*.jsonp files are relative to the position of the test suite - and not relative to the position of the mapping file in which they are defined! You are free to move your test suites one or more level up or down in the file system, but using the three dots notation enables you to let the position of the config folder unchanged.

It is of course still possible to use the standard notation for relative paths:

```
"path": "./config/"
```

2. parameter configuration files

In these configuration files all parameters are defined, that shall be available globally during test execution.

Some parameters are required. Optionally the user can add own ones. The following example shows the smallest version of a parameter configuration file containing only the most important parameters. This version is a default version and part of the **RobotFramework_TestsuitesManagement** installation.

```
"WelcomeString" : "Hello... Robot Framework is running now!",
"Maximum_version" : "1.0.0",
"Minimum_version" : "0.6.0",
"Project" : "RobotFramework Testsuites",
"TargetName" : "Device_01"
}
```

Project, WelcomeString and TargetName are simple strings that can be used anyhow. Maximum_version and Minimum_version are part of a version control mechanism: In case of the version of the currently installed Robot Framework is outside the range between Minimum_version and Maximum_version, the test execution stops with an error message.

The version control mechanism is optional. In case you do not need to have your tests under version control, you can set the versions to the value <code>null</code>.

```
"Maximum_version" : null,
"Minimum_version" : null,
```

As an alternative it is also possible to remove Minimum_version and Maximum_version completely.

In case you define only one single version number, only this version number is considered. The following combination makes sure, that the installed Robot Framework at least is of version 0.6.0, but there is no upper version limit:

```
"Maximum_version" : null,
"Minimum_version" : "0.6.0",
```

Hint: The parameters are keys of an internal configuration dictionary. They have to be accessed in the following way:

```
Log Maximum_version : ${CONFIG}[Maximum_version]
Log Project : ${CONFIG}[Project]
```

The following example is an extended version of a configuration file containing also some user defined parameters.

User defined parameters have to be placed inside params:global . The intermediate level global is introduced to enable further parameter scopes than global in future.

All user defined parameters have the scope params:global per default. Therefore they can be accessed directly:

```
Log param1 : ${param1}
```

And another feature can be seen in the example above:

In the context of the **RobotFramework_TestsuitesManagement** the JSON format is an extended one. Deviating from JSON standard it is possible to comment out lines with starting them with a double slash ///. This allows to add explanations about the meaning of the defined parameters already within the JSON file.

2.3 Access to configuration files

With an installed **RobotFramework_TestsuitesManagement** every test execution requires a configuration - that is the accessibility of a configuration file in JSON format. The **RobotFramework_TestsuitesManagement** provides four different possibilities - also called *level* - to realize such an access. These possibilities are sorted and the **RobotFramework_TestsuitesManagement** tries to access the configuration file in a certain order: Level 1 has the highest priority and level 4 has the lowest priority.

Level 1

Path and name of a parameter configuration file is provided in command line of the Robot Framework.

Level 2 (recommended)

The name of the variant is provided in command line of the Robot Framework.

This level requires that a variant configuration file is passed to the suite setup of the RobotFramework_TestsuitesManagement.

Level 2 includes the automated selection of a default variant (in case of no variant name is provided in command line). Also this default variant has to be defined within the variant configuration file.

Level 3

The **RobotFramework_TestsuitesManagement** searches for parameter configuration files within a folder configuration current test suite folder. In case of such a folder exists and parameter configuration files are inside, they will be used.

Level 4 (unwanted, fallback solution only)

The RobotFramework_TestsuitesManagement uses the default configuration file that is part of the installation.

Summary

- With highest priority a parameter configuration file provided in command line, is considered even in case of also other configuration files (level 2 level 4) are available.
- If a parameter configuration file is not provided in command line, but a variant name, then the configuration belonging to this variant, is loaded even in case of also other configuration files (level 3 level 4) are available.
- If nothing is specified in command line, then the **RobotFramework_TestsuitesManagement** tries to find parameter configuration files within a config folder and take them if available even in case of also the level 4 configuration file is available.
- In case of the user does not provide any information about parameter configuration files to use, the **Robot-Framework_TestsuitesManagement** loads the default configuration from installation folder (fallback solution; level 4).

In this context two aspects are important to know for users:

- 1. Which parameter configuration file is selected for the test execution?

 To answer this question the log file contains the path and the name of the selected parameter configuration file.
- 2. For which reason is this parameter configuration file selected?

 To answer this question the log file also contains the level number. The level number indicates the reason.

With these log file entries the test execution is clearly understandable, traceable and scales for huge test suites.

Why is level 2 the recommended one?

Level 2 is the most flexible and extensible solution. Because the robot files contain a link to a variants configuration file, the possible sets of parameter values can already be taken out of the code.

The values selected by level 1, you only see in the log files, but not in the code, because the selection happens in command line only.

Level 3 has a rather strong binding between robot files and configuration files. If you start the test implementation based on level 3 and after this want to have a variant handling, then you have to switch from level 3 to level 2 - and this causes effort in implementation.

Wherease if you start with level 2 immediately and need to consider another set of configuration values for the same tests, then you only have to add another parameter configuration file and another entry in the variants configuration file, without changing any test implementation.

We strongly recommend not to mix up several different configuration levels in one project!

2.4 Activation of "Test Suites Management"

To activate the test suites management you have to import the **RobotFramework_TestsuitesManagement** library in the following way:

```
Library RobotFramework_TestsuitesManagement WITH NAME tm
```

We recommend to use the WITH NAME option to shorten the robot code a little bit.

The next step is to call the testsuite_setup of the RobotFramework_TestsuitesManagement within the Suite_Setup of your test:

```
Suite Setup tm.testsuite_setup
```

As long as you

- do not provide a parameter configuration file in command line when executing the test suite (level 1),
- do not provide a variants configuration file as parameter of the testsuite_setup (level 2),
- do not have a config folder containing parameter configuration files in your test suites folder (level 3),

the RobotFramework_TestsuitesManagement falls back to the default configuration (level 4).

In case you want to realize a variant handling you have to provide the path and the name of a variants configuration file to the testsuite_setup:

```
Suite Setup tm.testsuite_setup ./config/exercise_variants.jsonp
```

To ease the analysis of a test execution, the log file contains informations about the selected level and the path and the name of the used configuration file, for example:

```
Running with configuration level: 2
CfgFile Path: ./config/exercise_config.jsonp
```

Please consider: The testsuite_setup requires a variants configuration file (in the example above: exercise_variants.jsonp) - whereas the log file contains the resulting parameter configuration file (in the example above: exercise_config.jsonp), that is selected depending on the name of the variant provided in command line of the Robot Framework.

2.5 Variants selection

In a previous section the level concept for configuration files has been explained. This section contains corresponding code examples.

1. Selection of a certain parameter configuration file in command line

```
--variable config_file:"(path to parameter configuration file)"
```

2. Selection of a certain variant per name in command line

```
--variable variant:"(variant name)"
```

3. Parameter configuration taken from config folder

This config folder has to be placed in the same folder than the test suites.

Parameter configuration files within this folder are considered under two different conditions:

- The configuration file has the name robot_config.jsonp . That is a fix name predefined by the Robot-Framework_TestsuitesManagement.
- The configuration file has the same name than a robot file inside the test suites folder, e.g.:
 - Name of test suite file: example.robot
 - Path and name of corresponding parameter configuration file: ./config/example.jsonp

With this rule it is possible to give every test suite in a certain folder an own individual configuration.

2.6 Local configuration

It might be required to execute tests on several different test benches with every test bench has it's own individual hardware that might require configuration parameter values that are test bench specific. This can be related to common configuration parameters and also to parameters that are variant specific. In the second case a configuration parameter is both variant specific and test bench specific.

The *local configuration* feature of the **RobotFramework_TestsuitesManagement** provides the possibility to define test bench specific configuration parameter values.

The meaning of *local* in this context is: placed on a certain test bench - and valid for this bench only.

Also this local configuration is based on configuration files in JSON format. These files are the last ones that are considered when the configuration is loaded. The outcome is that it is possible to define default values for test bench specific parameters in other configuration files - to be also test bench independent. And it is possible to use the local configuration to overwrite these default values with values that are specific for a certain test bench.

Important:

- Local configuration files are fragments only and not a full configuration! Even so they need to follow the JSON syntax rules. This means, at least they have to start with an opening curly bracket and they have to end with a closing curly bracket.
- Local configuration files must not contain the mandatory top level parameters like the WelcomeString and others.

Using the local configuration feature is an option and the **RobotFramework_TestsuitesManagement** provides two ways to realize it:

1. per command line

Path and name of the local parameter configuration file is provided in command line of the Robot Framework with the following syntax:

```
--variable local_config:"(path to local configuration file)"
```

2. per environment variable

An environment variable named ROBOT_LOCAL_CONFIG exists and contains path and name of a local parameter configuration file.

The user has to create this environment variable!

This mechanism allows a user - without any command line extensions - automatically to refer on every test bench to an individual local configuration, simply by giving on every test bench this environment variable an individual value.

The command line has a higher priority than the environment variable. If both is available the local configuration is taken from command line.

Recommendation: To avoid an accidental overwriting of local configuration files in version control systems we recommend to give those files names that are test bench specific.

2.7 Priority of configuration parameters

In previous sections the level concept has been explained. This concept introduces four levels of priority that define, which of the possible sources of configuration parameters are processed. But there are other rules involved that influence the priority:

- The local configuration has higher priority than other parameter configurations
- The command line has higher priority than definitions within configuration files

Already in command line we have several possibilities to make settings:

- Set a parameter configuration file (with **RobotFramework_TestsuitesManagement** command line variable config_file, level 1)
- Set a variant name (with **RobotFramework_TestsuitesManagement** command line variable variant, level 2)
- Set a local configuration (with **RobotFramework_TestsuitesManagement** command line variable local_config)
- Set any other variables (directly with Robot Framework command line variable | --variable |

And it is possible that in all four use cases the same parameters are used. Or in other words: It is possible to use the --variable mechanism to define a parameter that is also defined within a parameter configuration or within a local configuration - or in both together.

Finally this is the order of processing (with highest priority first):

- 1. Single command line variable (--variable)
- 2. Local configuration (local_config)
- 3. Variant specific configuration (config_file or variant)

Meaning:

- 1. Variant specific configuration is overwritten by local configuration
- 2. Local configuration is overwritten by single command line variable

What happens in case of a command line contains both a config_file and a variant?

config_file is level 1 and variant is level 2. Level 1 has higher priority than level 2. Therefore config_file is the valid one. This does **not** mean that config_file overwrites variant! In case of a certain level is identified (here: level 1), all other levels are ignored. The outcome is that - in this example - the variant has no meaning. Between different levels there is an either or relationship. And that is the reason for that it makes no sense to define both in command line, a config_file and a variant. The RobotFramework_TestsuitesManagement throws an error in this case.

But when additionally —-variable is used to define a new value for a parameter that is already defined in one of the involved configuration files, then the configuration file value is overwritten by the command line value.

And even this is not all. The Robot Framework provides further possibilities to define parameters in command line, e.g. by --variablefile . --variable and --variablefile are Robot Framework mechanisms to define parameters, whereas config_file and local_config are corresponding RobotFramework_TestsuitesManagement mechanisms.

The rules behind all are: --variable overrules --variablefile . Robot Framework mechanisms overrule RobotFramework_TestsuitesManagement mechanisms.

To avoid the things becoming too much complicated, we urgently recommend not to mixup both mechanisms to define different values for the same parameters (but to overwrite only a single variable with --variable might be OK).

2.8 Nested configuration files

In case of a project requires more and more parameters, it makes sense to split the growing configuration file into smaller ones.

This means, at first we have to split all configuration parameters in

- 1. parameters that are specific for a certain variant,
- 2. common parameters that have the same value for all variants

Placing those common parameters in every single variant specific parameter configuration file would create a lot of redundancy. This would also complicate the maintenance.

The solution is to use the variant specific configuration files only for variant specific parameters and to put all common parameters in a separate configuration file. This common parameter file has to be imported in every variant specific parameter file.

The outcome is that still with the selection of a certain variant specific parameter file both types of parameters are available: the variant specific ones and the common ones.

This can be done in the following way:

For example we have the following variant specific configuration files:

```
config/config_variant1.jsonp
config/config_variant2.jsonp
```

Additionally we have a configuration file with common parameters:

```
config/config_common.jsonp
```

The import of config_common.jsonp into config_variant1.jsonp and into config_variant2.jsonp is possible in the following way:

The key [import] indicates the import of another configuration file. The value of the key is the path and name of this file.

Imports can be nested. An imported configuration file is allowed to contain imports also.

The content of the importing file and the content of all imported files are merged. In case of duplicate parameter names follow up definitions overwrite previous definitions of the same parameter!

Important:

- All imported configuration files are fragments only and not a full configuration! Even so they need to follow the JSON syntax rules. This means, at least they have to start with an opening curly bracket and they have to end with a closing curly bracket.
- Imported configuration files must not contain the mandatory top level parameters like the welcomeString and others.

2.9 Overwritten parameters

Summarized the **RobotFramework_TestsuitesManagement** provides three different types of parameter configuration files to define parameters:

- 1. A full standard parameter configuration file containing at least the mandatory parameters and as option also user defined parameters
- 2. A parameter configuration file fragment that is imported in other configuration files by the [import] key
- 3. A local parameter configuration file that is also a fragment only, and accessed either by command line or environment variable

All types of configuration file can be used

- 1. to define new parameters
- 2. to overwrite already existing parameters

This possibility only belongs to user defined parameters with scope params:global!

Example:

1. Define a new parameter:

2. Overwrite an already existing parameter:

To overwrite a parameter is - after the initial definition - possible at any follow up position

- in the same configuration file or
- in other configuration files like the imported ones or
- in a local configuration file

With the following syntax:

```
${params}['global']['teststring'] : "new value"
```

The resulting value of a parameter at the end depends on the priority (computation order) described in previous sections of this description.

2.10 Tutorials

What is described up to here can be experienced in the tutorial 900_building_testsuites .

It is also recommended to take a look at the tutorial <code>loo_variables_and_datatypes</code> . This tutorial goes more into detail about data types and explaines how to handle also other data types like strings in configuration files of the <code>RobotFramework_TestsuitesManagement</code>.

CConfig.py

3.1 Function: bundle_version

This function prints out the package version which is:

- RobotFramework_TestsuitesManagement version when this module is installed stand-alone (via pip or directly from sourcecode)
- RobotFramework AIO version when this module is bundled with RobotFramework AIO package

Arguments:

• No input parameter is required

Returns:

• No return variable

3.2 Class: CConfig

Imported by:

```
from RobotFramework_TestsuitesManagement.Config.CConfig import CConfig
```

Defines the properties of configuration and holds the identified config files.

The loading configuration method is divided into 4 levels, level 1 has the highest priority, Level 4 has the lowest priority.

Level1: Handed over by command line argument

Level2: Read from content of json config file

```
{
    "default": {
        "name": "robot_config.jsonp",
        "path": ".../config/"
},
    "variant_0": {
        "name": "robot_config.jsonp",
        "path": ".../config/"
},
    "variant_1": {
        "name": "robot_config_variant_1.jsonp",
        "path": ".../config/"
},
    ...
    ...
}
```

According to the ConfigName, RobotFramework_TestsuitesManagement will choose the corresponding config file. ".../config/" indicats the relative path to json config file, RobotFramework_TestsuitesManagement will recursively find the config folder.

Level3: Read in testsuite folder: /config/robot_config.jsonp

Level4: Read from RobotFramework AIO installation folder:

/RobotFramework/defaultconfig/robot_config.jsonp

3.2.1 Method: loadCfg

This loadCfg method uses to load configuration's parameters from json files.

Arguments:

• No input parameter is required

Returns:

• No return variable

3.2.2 Method: verifyVersion

This verify Version validates the current package version with maximum and minimum version (if provided in the configuration file).

The package version is:

- RobotFramework_TestsuitesManagement version when this module is installed stand-alone (via pip or directly from sourcecode)
- RobotFramework AIO version when this module is bundled with RobotFramework AIO package

In case the current version is not between min and max version, then the execution of testsuite is terminated with "unknown" state

Arguments:

• No input parameter is required

Returns:

• No return variable

3.2.3 Method: bValidateMinVersion

This bValidateMinVersion validates the current version with required minimum version.

Arguments:

```
tCurrentVersion
/ Condition: required / Type: tuple /
Current package version.
tMinVersion
/ Condition: required / Type: tuple /
The minimum version of package.
```

Returns:

• True or False

3.2.4 Method: bValidateMaxVersion

This bValidateMaxVersion validates the current version with required minimum version.

Arguments:

```
tCurrentVersion
/ Condition: required / Type: tuple /
Current package version.
tMinVersion
/ Condition: required / Type: tuple /
The minimum version of package.
```

Returns:

• True or False

3.2.5 Method: bValidateSubVersion

This bValidateSubVersion validates the format of provided sub version and parse it into sub tuple for version comparision.

Arguments:

```
    sVersion
    / Condition: required / Type: string /
    The version of package.
```

Returns:

```
• lSubVersion / Type: tuple /
```

3.2.6 Method: tupleVersion

This tuple Version returns a tuple which contains the (major, minor, patch) version.

In case minor/patch version is missing, it is set to 0. E.g. "1" is transformed to "1.0.0" and "1.1" is transformed to "1.1.0"

This tuple Version also support version which contains Alpha (a), Beta (b) or Release candidate (rc): E.g: "1.2rc3", "1.2.1b1", ...

Arguments:

```
    sVersion
    / Condition: required / Type: string /
    The version of package.
```

Returns:

```
    lVersion
    / Type: tuple /
    A tuple which contains the (major, minor, patch) version.
```

3.2.7 Method: versioncontrol_error

Wrapper version control error log:

Log error message of version control due to reason and set to unknown state.

Arguments:

```
    reason
        / Condition: required / Type: string /
        reason can only be conflict_min, conflict_max and wrong_minmax.
    version1
        / Condition: required / Type: string /
    version2
        / Condition: required / Type: string /
```

Returns:

• No return variable

COnFailureHandle.py

4.1 Class: COnFailureHandle

Imported by:

from RobotFramework_TestsuitesManagement.Keywords.COnFailureHandle import $\ \hookrightarrow \$ COnFailureHandle

4.1.1 Method: is_noney

CSetup.py

5.1 Class: CSetupKeywords

Imported by:

from RobotFramework_TestsuitesManagement.Keywords.CSetup import CSetupKeywords

This CSetupKeywords class uses to define the setup keywords which are using in suite setup and teardown of robot test script.

Testsuite Setup keyword loads the RobotFramework AIO configuration, checks the version of RobotFramework AIO, and logs out the basic information of the robot run.

Testsuite Teardown keyword currently do nothing, it's defined here for future requirements.

Testcase Setup keyword currently do nothing, it's defined here for future requirements.

Testcase Teardown keyword currently do nothing, it's defined here for future requirements.

5.1.1 Keyword: testsuite_setup

This testsuite_setup defines the Testsuite Setup which is used to loads the RobotFramework AIO configuration, checks the version of RobotFramework AIO, and logs out the basic information of the robot run.

Arguments:

• sTestsuiteCfgFile

```
/ Condition: required / Type: string /
```

sTestsuiteCfgFile='' and variable config_file is not set RobotFramework AIO will check for configuration level 3, and level 4.

sTestsuiteCfgFile is set with a <json_config_file_path> and variable config_file is not set RobotFramework AIO will load configuration level 2.

Returns:

• No return variable

5.1.2 Keyword: testsuite_teardown

This testsuite_teardown defines the Testsuite Teardown keyword, currently this keyword does nothing, it's defined here for future requirements.

5.1.3 Keyword: testcase_setup

This testcase_setup defines the Testcase Setup keyword, currently this keyword does nothing, it's defined here for future requirements.

5.1.4 Keyword: testcase_teardown

This testcase_teardown defines the Testcase Teardown keyword, currently this keyword does nothing, it's defined here for future requirements.

Class: CGeneralKeywords 5.2

Imported by:

from RobotFramework_TestsuitesManagement.Keywords.CSetup import CGeneralKeywords

This CGeneralKeywords class defines the keywords which will be using in RobotFramework AIO test script. Get Config keyword gets the current config object of robot run.

Load Json keyword loads json file then return json object.

In case new robot keyword is required, it will be defined and implemented in this class.

Keyword: get_config 5.2.1

This get_config defines the Get Config keyword gets the current config object of RobotFramework AIO.

Arguments:

• No parameter is required

Returns:

```
• oConfig.oConfigParams
  / Type: json /
```

5.2.2 Keyword: load_json

Loads a json file and returns a json object.

Arguments:

```
• jsonfile
  / Condition: required / Type: string /
  The path of Json configuration file.
• level
```

```
/ Condition: required / Type: int /
Level = 1 -> loads the content of jsonfile.
```

level != 1 -> loads the json file which is set with variant (likes loading config level2)

Returns:

```
• oJsonData
  / Type: json /
```

CStruct.py

6.1 Class: CStruct

Imported by:

from RobotFramework_TestsuitesManagement.Utils.CStruct import CStruct

This CStruct class creates the given attributes dynamically at runtime.

Event.py

7.1 Class: Event

 $Imported\ by:$

from RobotFramework_TestsuitesManagement.Utils.Events.Event import Event

7.1.1 Method: trigger

ScopeEvent.py

8.1 Class: ScopeEvent

Imported by:

from RobotFramework_TestsuitesManagement.Utils.Events.ScopeEvent import ScopeEvent

8.1.1 Method: trigger

8.2 Class: ScopeStart

 $Imported\ by:$

from RobotFramework_TestsuitesManagement.Utils.Events.ScopeEvent import ScopeStart

8.3 Class: ScopeEnd

Imported by:

from RobotFramework_TestsuitesManagement.Utils.Events.ScopeEvent import ScopeEnd

$_$ init $_$.py

9.1 Function: on

9.2 Function: dispatch

9.3 Function: register_event

LibListener.py

10.1 Class: LibListener

Imported by:

from RobotFramework_TestsuitesManagement.Utils.LibListener import LibListener

This LibListener class defines the hook methods.

- _start_suite hooks to every starting testsuite of robot run.
- _end_suite hooks to every ending testsuite of robot run.
- _start_test hooks to every starting test case of robot run.
- \bullet _end_test hooks to every ending test case of robot run.

$_$ init $_$.py

11.1 Class: RobotFramework_TestsuitesManagement

Imported by:

11.1.1 Method: run_keyword

11.1.2 Method: get_keyword_tags

11.1.3 Method: get_keyword_documentation

11.1.4 Method: failure_occurred

11.2 Class: CTestsuitesCfg

Imported by:

from RobotFramework_TestsuitesManagement.__init__ import CTestsuitesCfg

Appendix

About this package:

Table 12.1: Package setup

Setup parameter	Value
Name	RobotFramework_TestsuitesManagement
Version	0.7.1
Date	26.05.2023
Description	Functionality to manage RobotFramework testsuites
Package URL	robotframework-testsuitesmanagement
Author	Mai Dinh Nam Son
Email	son.maidinhnam@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	06/2022					
Initial ver	Initial version					
0.2.2	07/2022					
Created de	Created documentation and updated message logs					
0.3.0	07/2022					
Added loca	Added local configuration feature; documentation rework					
0.4.0	03/2023					
1	Maintenance of log output; maintenance of JSON schema validation of configuration file					
0.7.1	05/2023					
- stand-ale	package context which allows RobotFrame- suitesManagement work in many contexts: one f RobotFramework AIO package					

 ${\bf Robot Framework_Test suites Management.pdf}$

Created at 31.05.2023 - 09:34:48 by GenPackageDoc v. 0.40.0