
proactive-python-client

Activeeon

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PROACTIVE-PYTHON-CLIENT

1.1 proactive package

1.1.1 Subpackages

proactive.model package

Submodules

proactive.model.ProactiveFlowActionType module

```
class proactive.model.ProactiveFlowActionType.ProactiveFlowActionType
    Bases: object
    Represents a proactive flow block
    blockType (string)
    branch()
    flow_action_types = {'CONTINUE': 'continue', 'IF': 'if', 'LOOP': 'loop', 'REPLICATE':
    loop()
    replicate()
```

proactive.model.ProactiveFlowBlock module

```
class proactive.model.ProactiveFlowBlock.ProactiveFlowBlock
    Bases: object
    Represents a proactive flow block
    blockType (string)
    end()
    flow_block_types = {'END': 'end', 'NONE': 'none', 'START': 'start'}
    none()
    start()
```

proactive.model.ProactiveFlowScript module

```
class proactive.model.ProactiveFlowScript.ProactiveFlowScript (script_language)
    Bases: proactive.model.ProactiveScript.ProactiveScript
    Represents a proactive flow script
    script_language (ProactiveScriptLanguage) implementation (string)
    getActionTarget ()
    getActionTargetContinuation ()
    getActionTargetElse ()
    getActionType ()
    isBranchFlowScript ()
    isLoopFlowScript ()
    isReplicateFlowScript ()
    setActionTarget (target)
    setActionTargetContinuation (target)
    setActionTargetElse (target)
    setActionType (action_type)
```

proactive.model.ProactiveForkEnv module

```
class proactive.model.ProactiveForkEnv.ProactiveForkEnv (script_language)
    Bases: proactive.model.ProactiveScript.ProactiveScript
    Represents a generic proactive fork env script
    script_language (ProactiveScriptLanguage) implementation (string) java_home (string)
    getJavaHome ()
    setJavaHome (java_home)
```

proactive.model.ProactiveJob module

```
class proactive.model.ProactiveJob.ProactiveJob
    Bases: object
    Represents a generic proactive job
    job_name (string) job_tasks (list) input_folder (string) output_folder (string)
    addGenericInformation (key, value)
    addTask (task)
    addVariable (key, value)
    clearGenericInformation ()
    clearTasks ()
    clearVariables ()
```

```
getGenericInformation ()
getInputFolder ()
getJobName ()
getOutputFolder ()
getTasks ()
getVariables ()
hasVariables ()
removeGenericInformation (key)
removeTask (task)
removeVariable (key)
setInputFolder (input_folder)
setJobName (job_name)
setOutputFolder (output_folder)
```

proactive.model.ProactiveScript module

```
class proactive.model.ProactiveScript.ProactivePostScript (script_language)
    Bases: proactive.model.ProactiveScript.ProactiveScript
    Represent a post-script for a proactive task

class proactive.model.ProactiveScript.ProactivePreScript (script_language)
    Bases: proactive.model.ProactiveScript.ProactiveScript
    Represent a pre-script for a proactive task

class proactive.model.ProactiveScript.ProactiveScript (script_language)
    Bases: object
    Represents a generic proactive script
    script_language (ProactiveScriptLanguage) implementation (string)

    getImplementation ()
    getScriptLanguage ()
    setImplementation (implementation)
    setImplementationFromFile (script_file)
    setScriptLanguage (script_language)
```

proactive.model.ProactiveScriptLanguage module

```
class proactive.model.ProactiveScriptLanguage.ProactiveScriptLanguage
    Bases: object
    Represents the programming languages supported by Proactive
    supported_languages (dict)
    docker_compose ()
    get_supported_languages ()
    groovy ()
    is_language_supported (language)
    javascript ()
    jython ()
    linux_bash ()
    perl ()
    powershell ()
    python ()
    r ()
    ruby ()
    scalaw ()
    supported_languages = {'DockerCompose': 'docker-compose', 'Groovy': 'groovy', 'JavaS
    windows_cmd ()
```

proactive.model.ProactiveSelectionScript module

```
class proactive.model.ProactiveSelectionScript.ProactiveSelectionScript (script_language)
    Bases: proactive.model.ProactiveScript.ProactiveScript
    Represents a proactive selection script
    script_language (ProactiveScriptLanguage) implementation (string) is_dynamic (boolean)
    isDynamic ()
    setIsDynamic (is_dynamic)
```

proactive.model.ProactiveTask module

```
class proactive.model.ProactiveTask.ProactivePythonTask
    Bases: proactive.model.ProactiveTask.ProactiveTask
    Represents a proactive python task
    setTaskExecutionFromFile (task_file, parameters=[], displayTaskResultOnScheduler=True)
    setTaskExecutionFromLambdaFunction (lambda_function)
```

```

class proactive.model.ProactiveTask.ProactiveTask (script_language=None)
    Bases: object

    Represents a generic proactive task

    script_language (ProactiveScriptLanguage) fork_environment (ProactiveForkEnv) task_name (string)
    task_implementation (string) generic_information (map) input_files (list) output_files (list) dependencies
    (list[ProactiveTask]) pre_script (ProactivePreScript) post_script (ProactivePostScript) flow_script (Proactive-
    FlowScript) flow_block (ProactiveFlowBlock)

    addDependency (task)
    addGenericInformation (key, value)
    addInputFile (input_file)
    addOutputFile (output_file)
    addVariable (key, value)
    clearDependencies ()
    clearGenericInformation ()
    clearInputFiles ()
    clearOutputFiles ()
    clearVariables ()
    getDependencies ()
    getDescription ()
    getFlowBlock ()
    getFlowScript ()
    getForkEnvironment ()
    getGenericInformation ()
    getInputFiles ()
    getOutputFiles ()
    getPostScript ()
    getPreScript ()
    getScriptLanguage ()
    getSelectionScript ()
    getTaskImplementation ()
    getTaskName ()
    getVariables ()
    hasFlowBlock ()
    hasFlowScript ()
    hasForkEnvironment ()
    hasPostScript ()
    hasPreScript ()

```

```
hasSelectionScript ()
hasVariables ()
removeDependency (task)
removeGenericInformation (key)
removeInputFile (input_file)
removeOutputFile (output_file)
removeVariable (key)
setDescription (description)
setFlowBlock (flow_block)
setFlowScript (flow_script)
setForkEnvironment (fork_environment)
setPostScript (post_script)
setPreScript (pre_script)
setScriptLanguage (script_language)
setSelectionScript (selection_script)
setTaskImplementation (task_implementation)
setTaskImplementationFromFile (task_file)
setTaskName (task_name)
```

Module contents

1.1.2 Submodules

1.1.3 proactive.ProactiveBuilder module

```
class proactive.ProactiveBuilder.ProactiveBuilder (proactive_factory=None)
    Bases: object
```

Represent a generic builder

- proactive_factory (ProactiveFactory)

```
getProactiveFactory ()
    Get the used Proactive factory
```

Returns A ProactiveFactory object

```
setProactiveFactory (proactive_factory)
    Set the Proactive factory
```

Parameters **proactive_factory** – A valid ProactiveFactory object

```
class proactive.ProactiveBuilder.ProactiveJobBuilder (proactive_factory,      proac-
                                                         tive_job_model=None,
                                                         debug=False,
                                                         log4py_props_file=None)
    Bases: proactive.ProactiveBuilder.ProactiveBuilder
```

Represent a proactive job builder

- `proactive_factory` (`ProactiveFactory`)
- `proactive_job` (`ProactiveJob`)
- `job` (`org.ow2.proactive.scheduler.common.job.TaskFlowJob`)

create ()

Create the Proactive java job

Returns `self`

getProactiveFactory ()

Get the used Proactive factory

Returns A `ProactiveFactory` object

getProactiveJob ()

Get the Proactive java job

Returns The Proactive java job object

getProactiveJobModel ()

Get the Proactive job model

Returns The Proactive Python job model

setProactiveFactory (*proactive_factory*)

Set the Proactive factory

Parameters `proactive_factory` – A valid `ProactiveFactory` object

setProactiveJobModel (*proactive_job*)

Set the Proactive Python job model

Parameters `proactive_job` – A valid job model

```
class proactive.ProactiveBuilder.ProactiveTaskBuilder (proactive_factory, proac-  
                                                    tive_task_model=None,  
                                                    debug=False,  
                                                    log4py_props_file=None)
```

Bases: `proactive.ProactiveBuilder.ProactiveBuilder`

Represent a proactive task builder

- `proactive_task` (`ProactiveTask`)
- `script` (`jvm.org.ow2.proactive.scripding.SimpleScript`)
- `task_script` (`jvm.org.ow2.proactive.scripding.TaskScript`)
- `script_task` (`jvm.org.ow2.proactive.scheduler.common.task.ScriptTask`)

create ()

Create a Proactive java task

Returns The Proactive java task object

getProactiveTaskModel ()

Get the Proactive task model

Returns The Proactive Python task model

setProactiveTaskModel (*proactive_task_model*)

Set the Proactive Python task model

Parameters `proactive_job` – A valid task model

1.1.4 proactive.ProactiveFactory module

class proactive.ProactiveFactory.**ProactiveFactory** (*runtime_gateway=None*)

Bases: object

https://www.activeeon.com/public_content/documentation/javadoc/latest/index.html

create_connection_info (*url, username, password, credentials_file, insecure*)

Create a ProActive connection info https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/authentication/ConnectionInfo.html

Parameters

- **url** – The ProActive server URL
- **username** – A valid username
- **password** – A valid password
- **credentials_file** – A credentials file path
- **insecure** – If set True, the connection is set to the insecure mode

Returns A ConnectionInfo object

create_flow_script (*script*)

Create a ProActive flow script https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/flow/FlowScript.html

Parameters **script** – A valid flow action

Returns A FlowScript object

create_fork_environment ()

Create a ProActive fork environment https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/ForkEnvironment.html

Returns A ForkEnvironment object

create_job ()

Create a ProActive job https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/job/TaskFlowJob.html

Returns A TaskFlowJob object

create_job2xml_transformer ()

Create a ProActive job to XML transformer https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/job/factories/Job2XMLTransformer.html

Returns A Job2XMLTransformer object

create_job_variable ()

Create a ProActive job variable https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/job/JobVariable.html

Returns A JobVariable object

create_script_task ()

Create a ProActive script task https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/ScriptTask.html

Returns A ScriptTask object

create_selection_script (*script_code, script_language, is_dynamic*)

Create a ProActive selection script https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scripting/SelectionScript.html

Parameters

- **script_code** – The selection script implementation
- **script_language** – The selection script language
- **is_dynamic** – If set True, the selection script will be set as dynamic

Returns A SelectionScript object

create_simple_script (*script_code, script_language*)

Create a ProActive simple script https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scripting/SimpleScript.html

Parameters

- **script_code** – The script implementation
- **script_language** – The script language

Returns A SimpleScript object

create_smart_proxy ()

Create a ProActive smart proxy https://doc.activeeon.com/javadoc/latest/org/ow2/proactive_grid_cloud_portal/smartproxy/RestSmartProxyImpl.html

Returns A RestSmartProxyImpl object

create_task_script (*simple_script*)

Create a ProActive task script https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scripting/TaskScript.html

Parameters **simple_script** – A valid simple script

Returns A TaskScript object

create_task_variable ()

Create a task variable https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/TaskVariable.html

Returns A TaskVariable object

getRuntimeGateway ()

Get the java runtime gateway

Returns The java runtime gateway

get_flow_block ()

Get the ProActive flow block Class https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/flow/FlowBlock.html

Returns The FlowBlock Class

get_flow_script ()

Get the ProActive flow script Class https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/flow/FlowScript.html

Returns The FlowScript Class

get_input_access_mode ()

Get the ProActive input access mode Class https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/dataspaces/InputAccessMode.html

Returns The InputAccessMode Class

get_output_access_mode ()

Get the ProActive output access mode Class https://www.activeeon.com/public_content/documentation/javadoc/latest/org/ow2/proactive/scheduler/common/task/dataspaces/OutputAccessMode.html

Returns The OutputAccessMode Class

setRuntimeGateway (*runtime_gateway=None*)

Set the Proactive java runtime gateway

Parameters **runtime_gateway** – A valid java runtime gateway

1.1.5 proactive.ProactiveGateway module

```
class proactive.ProactiveGateway.ProActiveGateway (base_url,                                de-  
                                                    bug=False,                                javaopts=[],  
                                                    log4j_props_file=None,  
                                                    log4py_props_file=None)
```

Bases: object

Simple client for the ProActive scheduler REST API See also <https://try.activeeon.com/doc/rest/>

buildJob (*job_model, debug=False*)

Build the Proactive job to be submitted to the scheduler

Parameters

- **job_model** – A valid job model
- **debug** – If set True, the submitted job will be printed for a debugging purpose

Returns A Proactive job ready to be submitted

connect (*username=None, password=None, credentials_path=None, insecure=True*)

Connect to a Proactive server

Parameters

- **username** – A valid username
- **password** – A valid password
- **credentials_path** – A credentials file path
- **insecure** – If set True, the gateway will connect in insecure mode

createBranchFlowScript (*script_implementation, target_if, target_else, target_continuation,*
 script_language='javascript')

Create a branch flow script

Parameters

- **script_implementation** – The script implementation
- **target_if** – The if target task
- **target_else** – The else target task
- **target_continuation** – The continuation target task
- **script_language** – The script language

Returns A branch ProactiveFlowScript object

createDefaultForkEnvironment ()

Create a default fork environment

Returns A default ProactiveForkEnv object

createDefaultSelectionScript ()

Create a default selection script

Returns A default ProactiveSelectionScript object

createFlowScript (*script_language=None*)

Create a flow script

Parameters **script_language** – The script language

Returns A ProactiveFlowScript object

createForkEnvironment (*language=None*)

Create a Proactive fork environment

Parameters **language** – The script language

Returns A ProactiveForkEnv object

createJob ()

Create a Proactive Job

Returns A ProactiveJob object

createLoopFlowScript (*script_implementation, target, script_language='javascript'*)

Create a loop flow script

Parameters

- **script_implementation** – The script implementation
- **target** – The loop target
- **script_language** – The script language

Returns A loop ProactiveFlowScript object

createPostScript (*language=None*)

Create a Proactive post-script

Parameters **language** – The script language

Returns A ProactivePostScript object

createPreScript (*language=None*)

Create a Proactive pre-script

Parameters **language** – The script language

Returns A ProactivePreScript object

createPythonForkEnvironment ()

Create a Python fork environment

Returns A Python ProactiveForkEnv object

createPythonSelectionScript ()

Create a Python selection script

Returns A Python ProactiveSelectionScript object

createPythonTask ()

Create a workflow Python task

Returns A Python ProactiveTask object

createReplicateFlowScript (*script_implementation*, *script_language*='javascript')
Create a replicate flow script

Parameters

- **script_implementation** – The script implementation
- **script_language** – The script language

Returns A replicate ProactiveFlowScript object

createSelectionScript (*language*=None)
Create a Proactive selection script

Parameters **language** – The script language

Returns A ProactiveSelectionScript object

createTask (*language*=None)
Create a workflow task

Parameters **language** – The script language

Returns A ProactiveTask object

disconnect ()
Disconnect the gateway from the ProActive server

exportJob2XML (*job_model*, *debug*=False)
Export the job to an XML file

Parameters

- **job_model** – A valid job model
- **debug** – If set True, the created job will be printed for a debugging purpose

Returns The created job as an XML script

getAllJobs (*max_number_of_jobs*=1000)
Get all jobs from the ProActive scheduler

Parameters **max_number_of_jobs** – The maximal number of retrieved jobs

Returns A list of jobs

getJobInfo (*job_id*)
Get the job info

Parameters **job_id** – A valid job ID

Returns The job info

getJobResult (*job_id*, *timeout*=60000)
Get the job result

Parameters

- **job_id** – A valid job ID
- **timeout** – A timeout in milliseconds

Returns The job results

getJobState (*job_id*)
Get the job state

Parameters `job_id` – A valid job ID

Returns The job state

getProactiveClient ()

Get the Proactive gateway

Returns A smart proxy object

getProactiveFlowBlockType ()

Get the Proactive flow block

Returns The ProactiveFlowBlock object

getProactiveScriptLanguage ()

Get Proactive script languages

Returns The ProactiveScriptLanguage object

getTaskResult (*job_id, task_name, timeout=60000*)

Get the task result

Parameters

- `job_id` – A valid job ID
- `task_name` – A valid task name
- `timeout` – A timeout in milliseconds

Returns The task results

isConnected ()

Verify if the gateway is connected to the ProActive server

Returns True or False

isJobFinished (*job_id*)

Verify if a job is finished

Parameters `job_id` – A valid job ID

Returns True or False

printJobOutput (*job_id, timeout=60000*)

Get the job output

Parameters

- `job_id` – A valid job ID
- `timeout` – A timeout in milliseconds

Returns The job outputs

printTaskOutput (*job_id, task_name, timeout=60000*)

Get the task outputs

Parameters

- `job_id` – A valid job ID
- `task_name` – A valid task name
- `timeout` – A timeout in milliseconds

Returns The task outputs

reconnect ()

Reconnect the gateway to the ProActive server

saveJob2XML (*job_model*, *xml_file_path*, *debug=False*)

Save a job to an external XML file

Parameters

- **job_model** – A valid job model
- **xml_file_path** – A valid XML file path
- **debug** – If set True, the created job will be printed for a debugging purpose

submitJob (*job_model*, *debug=False*)

Submit a job to the Proactive Scheduler

Parameters

- **job_model** – A valid job model
- **debug** – If set True, the submitted job will be printed for a debugging purpose

Returns The submitted job ID

submitJobWithInputsAndOutputsPaths (*job_model*, *input_folder_path=''*, *output_folder_path=''*, *debug=False*)

Submit a job to the Proactive Scheduler with input and output paths

Parameters

- **job_model** – A valid job model
- **input_folder_path** – Path to the directory containing input files
- **output_folder_path** – Path to the local directory which will contain output files
- **debug** – If set True, the submitted job will be printed for a debugging purpose

Returns The submitted job ID

submitWorkflowFromCatalog (*bucket_name*, *workflow_name*, *workflow_variables={}*)

Submit a job from the catalog to the scheduler

Parameters

- **bucket_name** – The bucket in which the workflow is saved
- **workflow_name** – The workflow name
- **workflow_variables** – The workflow input variables

Returns The submitted job id

submitWorkflowFromFile (*workflow_xml_file_path*, *workflow_variables={}*)

Submit a job from an xml file to the scheduler

Parameters

- **workflow_xml_file_path** – The workflow xml file path
- **workflow_variables** – The workflow input variables

Returns The submitted job id

submitWorkflowFromURL (*workflow_url_spec*, *workflow_variables={}*)

Submit a job from an url to the scheduler

Parameters

- **workflow_url_spec** – The workflow url
- **workflow_variables** – The workflow input variables

Returns The submitted job id

terminate()

Terminate the connection

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