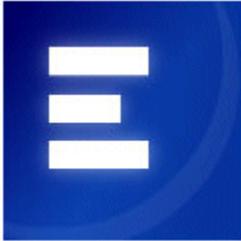


MicroNova EXAM Plugin

Plugin Information

View MicroNova EXAM [on the plugin site](#) for more information.

This plugin integrates the RESTapi of the Testautomation tool EXAM for automated test execution. MicroNova EXAM Plugin is available for download at <https://www.exam-ta.de>



EXAM is a graphical test development tool. EXAM defines a comprehensive methodology based on UML to represent, implement and evaluate test cases. It enables you to graphically model test processes in sequence diagrams without programming knowledge. EXAM thus provides a uniform language for the representation of test events. EXAM is suitable for use in Hardware-in-the-Loop simulation (HiL), test bench automation and industrial automation as well as in embedded development and Software-in-the-Loop simulation (SiL).

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Requirements

- EXAM
 - EXAM 4.4/4.6/4.7
 - RESTapi Plugin for EXAM
- Jenkins-Plugins
 - shiningpanda
 - workflow-step-api

Configuration

Global Tool Configuration

For this plugin to be used, an Ant installation must be specified in the global Jenkins configuration

EXAM

EXAM installations

EXAM

Name

EXAM_4.4

Path to data area

Install automatically

Extract *.zip/*.tar.gz

Label

Download URL for binary archive

file:///C:/jenkins/userContent/Tooling/EXAM/EXAM_setup-4.4.8-x86_64.zip

Subdirectory of extracted archive

Delete Installer

Add Installer

Delete EXAM

Add EXAM

List of EXAM installations on this system

System Configuration

general	
Rest api Port	Port for the communication with the EXAM RESTapi
License Server Host	host name of the license server
License Server Port	port name of the license server

EXAM Model Connection	
Name	Identifier of this connection, which can be selected at the build step
Model Name	Name of the model known at the EXAM application server
EXAM version	The major and minor version number of EXAM
Target Endpoint	url of the EXAM application server

EXAM Report Connection	
Name	Identifier of this connection, which can be selected at the build step
DB Type	Supported types are Oracle and PostgreSQL
Service /SID	Only needed, when Oracle is chosen as DB Type.

EXAM

Rest api Port: 8085

License Server Host: [text field]

License Server Port: [text field]

EXAM Model Connections

EXAM Model Name: EXAM000001

Model Name: EXAM000001

EXAM version: 4.4

Target Endpoint: http://exam01:10100/examClient/indexService

add EXAM model connection

EXAM Report Connections

EXAM Report Name: urdbtest

DB Type: PostgreSQL

Host: db-ws-0002

Port: 5432

Service/SID: [text field]

Schema: urdbtest

DB User: urdbtest

DB User Password: [password field]

remove EXAM report connection

Job Configuration

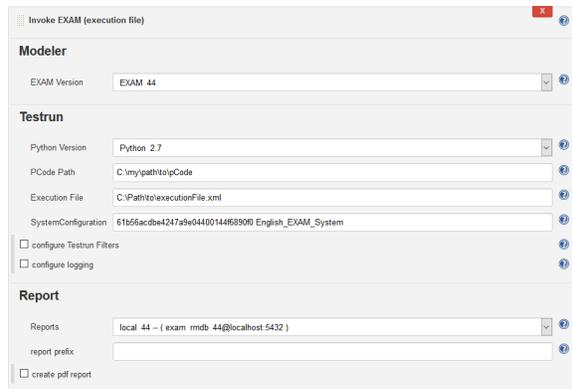
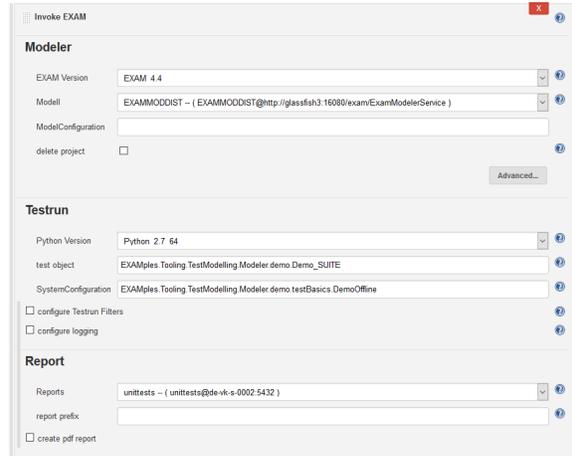
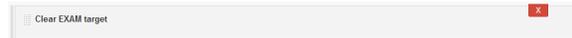
The EXAM plugin provides 3 build steps.

1. Clear EXAM target (use this to clear all junit formatted reports bevor invoking an EXAM test)
2. Invoke EXAM model (invoke an EXAM test with a connection to a EXAM model)

Modeler	
EXAM Version	Choose a configured EXAM installation.
Model	Choose a configured Model Connection.
Model Configuration	The UUID of the ModelConfiguration, if the used EXAM Version is 4.6 or newer with active versioning
delete project	If selected, the synchronized python code of the choosen model will be deleted at the beginning.

Testrun	
Python Version	Choose a configured Python installation.
test object	Use the UUID, ID or full scoped name of a TestSuite or TestCampaign from the EXAM model.
System Configuration	Use the UUID, ID or full scoped name of the system configuration from the EXAM model.
configure Testrun Filters	Define filter constraints for the given attribute names.
configure logging	A log file is generated automatically during each test run. You can influence the amount of output that gets logged over the LogLevel.

Report	
Reports	Choose a configured Report Connection. If you choose "NO REPORT", no report will be written to a database. Conversion of EXAM Reports to junit report format will be done in any case.
report prefix	Sets a prefix on the report name.
create pdf report	If selected, the report will be exported to a pdf document.



3. Invoke EXAM execution file (invoke an EXAM test with an exported execution file)

Modeler	
EXAM Version	Choose a configured EXAM installation.

Testrun	
Python Version	Choose a configured Python installation.
PCo de Path	Path to pCode directory containing the generated code required by the execution file.
Execution File	Path to the EXAM execution file exported from TestRunner.
System Configuration	Sets the default system configuration. For EXAM, use the UUID and the name of the system configuration from the EXAM model, e.g. "61b56acdbe4247a9e04400144f6890f0 English_EXAM_System"
configure Testrun Filters	Define filter constraints for the given Attribute names.
configure logging	A log file is generated automatically during each test run. You can influence the amount of output that gets logged over the LogLevel.

Report	
Reports	Choose a configured Report Connection. If you choose "NO REPORT", no report will be written to a database. Conversion of EXAM Reports to junit report format will be done in any case.
report prefix	Sets a prefix on the report name.
create pdf report	If selected, the report will be exported to a pdf document.

JUnit Report format

The EXAM reports are converted to standard junit format. To show the result at Jenkins add a junit report step with the following expression:

```
junit 'target/test-reports/**/*.*.xml'
```

Changelog

Release 1.0.0