ETAS MODEL-SIMULATOR V3.0

Release Notes

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1. Product Definition

1.1. Functions at a glance

ETAS Cloud Services is a highly secured cloud-based platform, operated by ETAS, that comes with valuable services within a Software-as-a-Service Model. One of these services is a MODEL-SIMULATOR service, which enables massive parallelization of simulations.

Further use cases and functional overview is explained in brief in the User guide. Please refer section 2 of Model-Simulator User guide.

1.2. User Documentation

The MODEL-SIMULATOR user's documentation in PDF format can be accessed via Help in the GUI and is available in the Documentation folder in CLI zip package as well. They can be found in the ETAS Download center.

Go To ETAS Download Center

    Choose Product/Topic: Model-simulator

    Choose Type: Manual/Technical Documentation

    Click on User guides for Model-Simulator V3.0

1.3. General Description

1.3.1. System Prerequisites

Recommended screen resolution:

- 1920 x 1080 (Full HD)

Minimum Screen Resolution

- 1366 × 768 (Wide XGA, 100% zoom)

1.3.2. Software Prerequisites

    Required firewall settings for general use:

- HTTPS traffic enabled (port TCP 443)

    Required ECU-TEST Version:

- ECU-TEST 2023.2.3

    Required VLAB version:

- VLAB 2.8.3

    Required MOBI version:

- MOBI 5.0.1

Required COSYM version:
- COSYM 3.2 HF2 or COSYM 3.4

Web Browsers:
- Mozilla Firefox
- Google Chrome

1.3.3. Delivery

We deliver user credentials and a browser link to our services. All user documentation is accessible via the GUI and CLI zip. Further the CLI package is available for download through the ETAS Download Center.

Go To ETAS Download Center

Choose Product/Topic: Model-simulator

Choose Type: Software

Click on ETAS Model-Simulator CLI v2.0.0

1.3.4. Used 3rd Party Software

TraceTronic ECU-TEST license and VLAB license must be provided by user to be integrated into our services. Please contact our support for further instructions.

1.3.5. Open-Source Software

A detailed list of the used Open-Source Software can be found in the OSS attribution list, which can be accessed within the service. For the Model-Simulator UI, the attribution details can be found in the 'About section'. For the Model-Simulator CLI, the attribution details are packed along with the CLI zip and can be found under the 'Documentations' folder.

1.3.6. Installation

The Model-Simulator UI does not need any installation on a hardware device. It is accessed via a Web Browser. Please refer to section 3 of the Admin Guide for the initial setup and usage of the Model-Simulator UI. For the Model-Simulator CLI, please refer section 3 of the CLI user guide to know more on setting up the CLI.

1.3.7. Licensing

Three different types of services can be licensed:

F-00K-112-642	Basic Access to the services
F-00K-112-643	Simulation hour contingents
F-00K-112-644	Additional storage

2. Changes in Model-Simulator V3.0

This chapter describes changes with respect to the previous version of Model-Simulator V3.0

2.1. What's New

2.1.1. Introducing support of Multiple tools with different versions

Model-Simulator now supports the usage of different tool chain and their supported versions. The user can now choose to run a specific combination of tools and choose a specific set of supported versions.

2.1.1.1. Changes at the UI

During creation of project there is now an option to choose a tool chain

Select toolchain and tool versions

Toolchain

| Select a toolchain | ⌄ |

| Select a toolchain |
| ECUTEST, COSYM |
| ECUTEST, MOBI |
| ECUTEST, VLAB_BUNDLE, MOBI |

After selecting the tool chain, the user has the flexibility to now choose his required set of versions from the supported version list.

Select toolchain and tool versions

Toolchain

| ECUTEST, COSYM | ⌄ |

Test Case Execution with Cosym simulator

Showing 2 of 2 records

	ECUTEST	COSYM
	Filter column	Filter column
○	2023.2.3	3.2_HF2
○	2023.2.3	3.4

2.1.1.2. Changes at the CLI

The input properties yaml file has now been adapted to include user input of the tools and the versions.

```yaml
toolSpec:
  tools:
    - name: VLAB_Bundle
      version: "1.0"
    - name: ECUTEST
      version: "2023.2.3"
```

The user just mentions the tools that he would like to be included for his test execution and their corresponding supported versions as shown in the figure.

Any unsupported text or version will be reported back to the user with a suitable error message.

Please refer section 4.1.6.6 of the CLI user guide for more details.

2.1.1.3. Projects created on Model-Simulator V2.2 Or projects created through CLI V1.3.3

Older projects created and available in the user environment are marked as archived.
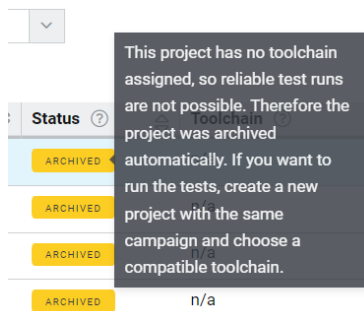
There will be an archived status and thereby the old projects will be unusable.

Consequently, no test executions can be run and will be indicated as below.

The rest of the workflow remains the same. The user has the responsibility of using valid artifacts (campaign, model) with the project created for a specific tool chain. Model-Simulator does not restrict or validate the version of the uploaded artifact against the chosen tool chain versions by the user for compatibility.

2.1.2. Service upgrades

With Model-Simulator V3.0, all the reported critical and high vulnerabilities are fixed for all services including the clients. All the service components are upgraded to the latest versions. This makes V3.0 more robust and resilient along with making it more stable and freer from risks.

2.1.3. Compatible CLI version

Model-Simulator V3.0 is released with the CLI client V2.0.0

2.2. Compatibility to Earlier Releases

- The Model-Simulator V3.0 is compatible with Model-Simulator V2.2.

- The old CLI v1.3.3 is compatible with the newly deployed V3.0 Model-Simulator. This means the user using the old CLI in his automated pipelines can continue to run his tests uninterrupted even after the deployment of V3.0.

- However, if the user after creating projects through his automated pipeline, runs the test executions and tries to visualize / monitor this in the UI (which is now V3.0), this project will be visible as depicted in section 2.1.1.3. The user can continue to monitor the status of the runs as before.

- The new CLI V2.0.0 necessitates the user to adapt his scripts for generating the input properties yaml file.
    - The key "workflow" is now removed.
    - A new key "tool" is now added. This can contain multiple "name" and "version" of the required workflow to be executed.

        Please refer to Section 2.4 (Supported tool chains and versions) and Section 4.1.6.6 (Input properties yaml file changes) of user guide and the templates provided along with the CLI zip for more information.

2.3. Known Issues

This section describes the set of known problems of the released version of Model-Simulator V2.2

Issue ID	Issue description	Impact	Workaround
EMS-12029 EMS-9093	Exception during unzip of workspace	Sporadically the executor after downloading the workspace, trying to unzip it terminates with an exception.	Retrigger the failed runs
EMS-8949	Sporadic errors when deleting multiple campaigns in UI	When a huge list of campaigns is deleted from the UI, sporadically some of the campaigns are not deleted.	Retry the delete operation on those campaigns which were not deleted previously
EMS-8216	Simulation Frozen	In very rare cases, the runs move into frozen state. The runs are marked as error and the reason for the frozen state will not be clear	Retrigger the frozen runs
EMS-10956	504 gateway timeout issue observed during test executions	Due to intermittent network instability, there might be some issues during download of results, upload of	Retrigger the desired operation

|		artifacts. However, the occurrence probability is low	
Internal bug	Download button is disabled in UI	In very rare cases, the results of the executed test run will not be available for download in the UI	The download of results is still possible through the CLI and in cases when it must be downloaded from UI, retrigger of the run is required
Internal bug	Hard logout after 24 hrs not working	Active user session is not logged out after 24 hrs. of rigorous usage.	Manual log out of the UI session is needed
Internal bug	Error with ATS version shows description directly from backend	Wrong use of COSYM model version shows error in unformatted fashion	The user can still determine that the issue is in the used cosym model from the error message

2.4. Known Limitations

The Model-Simulator V3.0 has a limitation with respect to managing runs executing more than the specified licenses. Currently, ECU-TEST and VLAB are the 3rd party tools that require license for their execution. If the number of licenses for these tools differ, then requesting a greater number of runs than the configured license for a 3rd party tool will conclude in unexpected results. The user must take care to manage his test executions in compliance with the available licenses.

3. Contact Information

3.1. Technical Support

For support and resolution of any issues you face when using the Model Simulator, you can contact ETAS MODEL-SIMULATOR Service Desk: ETAS MODEL-SIMULATOR Sevice Project

For details of your local sales office as well as your local technical support team and product hotlines, look at the website: www.etas.com/hotlines
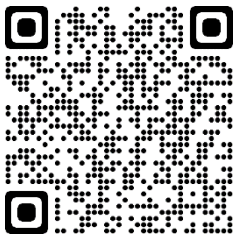
3.2. ETAS Headquarters

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