

ETAS MODEL-SIMULATOR V2.1

Release Notes

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Table of Contents

- Copyright 2
- 1. Product Definition 4
 - 1.1. Functions at a glance 4
 - 1.2. User Documentation 4
 - 1.3. General Description 4
 - 1.3.1. System Prerequisites 4
 - 1.3.2. Software Prerequisites 4
 - 1.3.3. Delivery 5
 - 1.3.4. Used 3rd Party Software 5
 - 1.3.5. Open-Source Software 5
 - 1.3.6. Installation 5
 - 1.3.7. Licensing 5
- 2. Changes in Model-Simulator V2.1 5
 - 2.1. What's New 5
 - 2.1.1. General additions to the Model-Simulator 5
 - 2.1.2. Newly introduced in Model-Simulator CLI 6
 - 2.2. Compatibility to Earlier Releases 7
 - Fixed Problems 7
 - 2.3. Known Issues 8
- 3. Contact Information 9
 - 3.1. Technical Support 9
 - 3.2. ETAS Headquarters 9

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.

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 COSYM Version for model preparation:

- Version V3.3

Required EATB Version for user side report config file creation:

- EATB 5.0

Required ECU-TEST Version:

- ECU-TEST 2023.2.3

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](#) as well.

1.3.4. Used 3rd Party Software

TraceTronic ECU-TEST 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 V2.1

This chapter describes changes with respect to the previous version of Model-Simulator V2.1

2.1. What's New

2.1.1. General additions to the Model-Simulator

- Any failure during upload of artifacts due to invalid characters in the file names will now list all the affected files

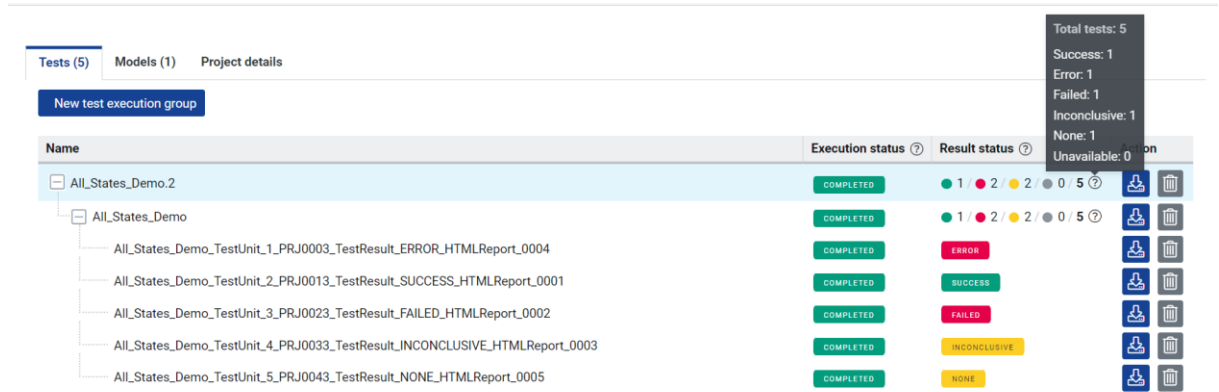
Whenever a test execution campaign with files having invalid names is uploaded, a descriptive error message will now point to the specific file that is having the invalid characters

- All possible result states at Test group/job level reflecting all possible states supported by ECUTEST

The result states are now enhanced by adding additional states and now the total set of result states look as follows

Result status: "SUCCESS", "FAILED", "ERROR", "NONE", "INCONCLUSIVE", "UNAVAILABLE"

At the UI: The different result states are displayed against each run and the consolidated result states are displayed at the group level.



At the CLI: The status command executed on a group level returns the following result states

```
Consent provided for safety advice through external config

{"Result_status":{"total":5,"inconclusive":1,"unavailable":0,"success":1,"failed":1,"none":1,"error":1},"Execution_result":{"COMPLETED","Name":"All_States_Demo.2"}}
```

2.1.2. Newly introduced in Model-Simulator CLI

- The Download command is now adapted to wait till the results are packed and made available. As a default behavior, the download command now waits for the results to be packed and made available. Post that, the results are also downloaded. Alternatively, the user can also configure a specified timeout for the download of results in the externalConfig.yml as shown below

```
runtime:
  generic:
    maxRequests:
    requestFrequency:
  download:
    maxRequests:
    requestFrequency:
```

If the configured time is exceeded, the command aborts with a suitable error message.

Please refer to section 4.1.8 of the CLI user guide for more information on the download command behavior.

- Partial download of results is now possible. When download is triggered on a test group containing a mixture of successful and failed runs, now the downloading of partial results for the test group is possible. Please refer to section 4.1.8.5 of the CLI user guide for more information on the partial download behavior.

- Improved Error handling

Error messages are refactored to provide meaningful information to the user to convey why the operation failed and what can be made to set it right. Further, an error code is logged on both the console as well as the logs which helps user to configure a specific action to mitigate the error.

Please refer to section 4.1.1 of the CLI user guide for more information on the error handling mechanism.

- Configurable log file path

The location of the log file can now be configured by providing the path in the externalConfig.yml as shown below.

```
output:
  logLevel:
  logPath:
  file:
    folderPath:
    format:
```

If no path is provided, then the logs will be created in the ecs home directory by default.

Please refer to section 4.2.5 of the CLI user guide for more information on how to configure the log path.

2.2. Compatibility to Earlier Releases

- The Model-Simulator V2.1 is largely compatible with Model-Simulator V2.0.
 - With respect to the UI, the V2.1 is completely compatible to V2.0
 - With respect to the CLI, there are certain adaptations required in the configuration and input yaml. Please refer to the user guide and the templates provided along with the CLI zip for more information.

Fixed Problems

This section describes the set of fixed problems of the released version of Model-Simulator V2.1

Problem Number	Title
EMS-7507	Test execution campaign "Many Files" unavailable
EMS-7820	I/O Error on API requests
EMS-7997	Download not working when one test failed
EMS-7211	Error during unpack of campaign
EMS-7209	Invalid Characters in Folder/File name
EMS-7727	Download command execution failed due to exception
EMS-7996	Errors missing in CLI response
EMS-7998	Status insufficient to determine when test execution is completed
EMS-8001	Empty project leads to "ERROR"

EMS-7281	Simulation Frozen issues due to performance issues in zip/unzip process
EMS-7995	
EMS-8082	
EMS-8216	
EMS-8109	
Internal Bug	Name of downloaded report is not same as the Test Run in UI
Internal Bug	Download buttons missing at Job/Group level when a run moves to ERROR
Internal Bug	When opening the Jira ServiceDesk URL from within MODEL-SIMULATOR UI a certificate warning comes up

2.3. Known Issues

This section describes the set of known problems of the released version of Model-Simulator V2.1

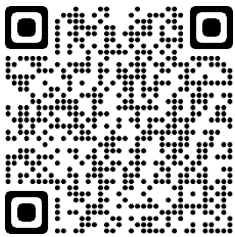
Issue ID	Issue description	Impact	Workaround
EMS-8949	Sporadic errors when deleting multiple campaigns in UI	When a huge list of campaigns is deleted from the UI, sporadically some of the campaigns are not deleted.	Retry the delete operation on those campaigns which were not deleted previously
EMS-8899	Retry mechanism not working after failed user login	The login failure is a sporadic event and in such a case the client will terminate the execution of the current command	Retrigger the failed command
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-8899	Retry not working after failed login	Whenever there is outage in network and authentication fails due to this, the CLI does not retry the login and a fresh run needs to be triggered	Retrigger the login failed run
Internal bug	Campaign with many artifacts ends in UNAVAILABLE state sporadically	When uploading campaigns with huge number of artifacts ~10000, the campaign sporadically gets into unavailable state	Retrigger the upload of campaign

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 Service 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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