



Download Execution Report using TC REST API

Hands-on Guide

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What is this document for?

This hands-on guide will allow you to explore the process to download the detailed test execution report using the TC REST API of Tricentis Tosca and enhance your functional knowledge of the product.

In this document, you are provided with detailed instructions to walk you through the steps to achieve the desired result(s) for the listed assignment(s). We encourage you to use this document to support your knowledge of Tosca, compare it with your alternate practical implementation method(s), and improve your overall know-how of the tool.

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Download Execution Report using TC REST API

+ Objective

By the end of these exercise(s), you will be able to demonstrate how to download detailed test execution report using TC REST API.

+ Why is this important?

Tricentis Tosca allows you to download a report of the execution list as well as other sections. The Execution report can be used to view and present the execution insights to the stakeholders. Using the TC REST API, you can auto-download the reports of Tricentis Tosca.

+ Prerequisite

To run TC REST API, Tosca server installation and configuration is necessary. Please make sure that the Tosca version and the Tosca Server version is the same. You can find and download the Tosca Server from the Tricentis Support Hub.

After the Tosca server installation, perform these mandatory steps:

1 | The Tosca REST API service is disabled by default. You must start it in the following way:

- ◆ Open the Windows **Services** app.
- ◆ Right-click on **Tricentis.Tosca.Rest ApiService** and select **Properties** from the context menu.
- ◆ From the **Startup type** drop-down menu, select **Automatic**.
- ◆ Click on **OK**.
- ◆ Start the **Tricentis.Tosca.Rest ApiService**.

2 | Open the **TCAPIRestServiceStandalone.exe.config** file in the **REST ApiService** directory (C:\Program Files (x86) \TRICENTIS\Tosca Server\Rest ApiService).

You must specify the path to the directory where all workspaces are stored. To do so, enter the workspace path as value of the property **WorkspaceBasePath**.

For example – “**C:\Tosca_Projects\Tosca_Workspaces**”

+ Steps to Perform

Here are the steps you need to perform to download the detailed test execution report using the TC REST API of Tosca. Please remember to follow the steps in sequence to achieve the desired results.

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- Section I: Open the Tosca Workspace and note the Execution List unique ID

- 1 | Open the Tosca workspace and ensure that you have an Execution List present with multiple execution entries in it, and the execution entries should be executed at least once
- 2 | Now navigate to the Execution List, which would be used for printing the report, and expand the Properties tab. Copy the **unique ID** and note it down in a notepad

Properties	
Name	Value
JSON Example	
NodePath	/Execution/ExecutionLists/Standard modu...
CreatedBy	Admin
CreatedAt	13-12-2022 15:27:45
ModifiedBy	Admin
ModifiedAt	16-12-2022 16:50:55
HasMissingReferenc...	False
UniqueId	3a081d18-0efa-797f-553d-a6529d5b2621
SynchronizationPo...	CustomizableDefaultIsOn
Description	
Revision	0
OwningGroupName	All Users (inherited)
ViewingGroupName	<NO VIEWING GROUP>
IsCheckedOutByMe	False
Include in Analytics	True
IsMandate	False
NumberOfEntries	12
NumberOfTestCas...	12
NumberOfTestCas...	0
NumberOfTestCas...	7
NumberOfTestCas...	5
NumberOfTestCas...	0
ManualItems	0
AutomatedItems	49

- Section II: Set the PrintOutputFormat

- 1 | Navigate to the Reporting section in Tosca and Expand the **ExecutionLists**
- 2 | Click on the **ExecutionEntries with ActualLog**
- 3 | Expand the Properties tab and set the **PrintOutputFormat** parameter set to **ASKUSER**

Properties	
Name	Value
ExecutionEntries with ActualLog	
NodePath	/Reporting/ExecutionLists/ExecutionEntr...
CreatedBy	Admin
CreatedAt	13-12-2022 15:27:45
ModifiedBy	Admin
ModifiedAt	20-12-2022 14:46:13
HasMissingReferences	False
UniqueId	3a081d18-0efa-9840-da3f-1323eea4ab1a
SynchronizationPolicy	CustomizableDefaultIsOn
Description	The ExecutionList entries are displayed in ...
Revision	0
OwningGroupName	All Users (inherited)
ViewingGroupName	<NO VIEWING GROUP>
IsCheckedOutByMe	False
ObjectType	ExecutionList
Constraint	
AnyDataSetDefinitionInvalid	False
IsPrintAllowed	True
PrintGroupName	
PrintOutputFormat	ASKUSER
Enabled	True

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4 | Save and close Tosca

Please make sure that while using TC REST API, your Tosca Commander is closed.

– Section III: Prepare the endpoint URL

1 | The endpoint for downloading the detailed test execution list report would look like the following:

http(s)://<server>:<port>/rest/ToscaCommander/<worskpacename>/object/<id>/task/PrintReport?reportName=<name of report>&outputFilepath=<target file location>

Server – The Hostname of Tosca Server e.g. – **http(s)://<server>**

Port – Port number configured during the Tosca server installation. **<port> = 90**

Workspacename – The workspace that the Tosca REST API uses to access the Tosca Project **<worskpacename> = Test**

id – The UniqueID of the ExecutionList that is used to print the report. This can be found under the Properties pane of the object in Tosca Commander
<id> = 3a081d18-0efa-797f-553d-a6529d5b2621

Name of report – The name of the report file that is generated

<name of report> = ExecutionEntries+with+ActualLog

Target file location – The windows directory where the report should be saved

<target file location> = C:\Tosca_Projects\ExecutionReport.pdf

– Section IV: Send the API request to print pdf report

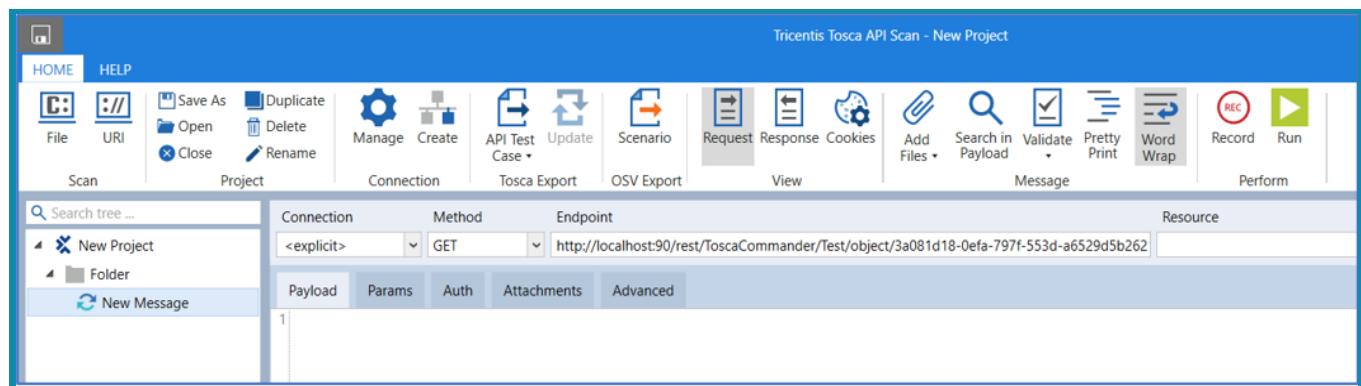
1 | Open API Scan Application from the Start menu

2 | The URL request might look like this:

http://localhost:90/rest/ToscaCommander/Test/object/3a081d18-0efa-797f-553d-a6529d5b2621/task/PrintReport?reportName=ExecutionEntries+with+ActualLog&outputFilepath=C:\Tosca_Projects\ExecutionReport.pdf

3 | Copy your request URL to the Endpoint field

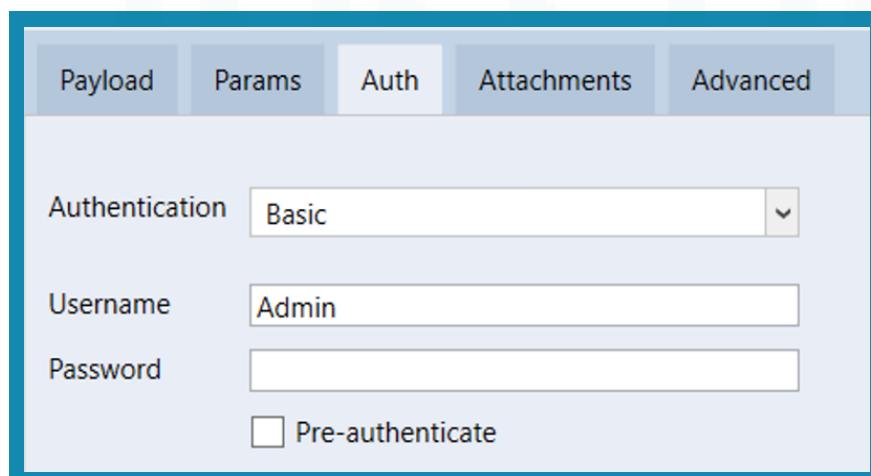
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4| To communicate with the workspace, Authentication is required

To configure the authentication of a selected message, follow the steps below:

- ◆ In the message section, click on the **Auth** tab
- ◆ Select the authentication "**Basic**" from the **Authentication** dropdown menu
- ◆ Enter your **username** and **password**



5| Click on **Run**

6| If you receive a response of **200 Ok**, it means your request is successful

7| Navigate to the folder **C:\Tosca_Projects** and verify that a pdf named - **ExecutionReport.pdf** is downloaded

Expected Result

ExecutionReport.pdf report is successfully downloaded in the target file directory which contains the execution details of the Execution List