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Analyzer Runs & Logs

Updated December 18, 2019 by [Jay.Manaloto](#) | Tags: *None*

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Performance

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Runs & Logs*This content applies to IBM TRIRIGA Application Platform 3.5.3 and higher. Some features appear in later versions only.***How do you generate a performance run in the Performance Analyzer?**

When you experience a performance issue in TRIRIGA, you can generate a performance run that isolates the area where the slowness occurs. The performance run captures all activity that occurs on the server until you stop the performance run.

Important:

- It is best to do performance runs during **non-office** or **low-activity** traffic times to ensure that you are not gathering information that does not pertain to your performance issue.
- The logging takes some **time** to complete, whether you trigger performance timings in the Performance Analyzer or the traditional Platform logging in the TRIRIGA Administrator Console.
- The **more** performance categories that you select, the **longer** the upload and analysis takes to complete.

New in 3.6.1:

- On the **Performance Analyzer** tab, the Performance Timings present the following two new categories:
 - **Extended Formula > Calculation > Add Object Labels:** This category adds the object label of the BO to the output of the field.
 - **SQL > Add Bind Variables:** This category adds two pieces of data to the details: (1) it binds the parameters into the SQL, and (2) it shows which User ID executed the SQL.
- Either of these performance categories will cause the performance logging to take **more time**.

Step 1. On the **Performance Analyzer** tab, select the check boxes for the Performance Timings categories that you want to enable and click **Start**.

Step 2. Repeat the steps in the area of TRIRIGA where you experience the slowness.

Step 3. When you reproduce the slowness, go back to the Performance Analyzer and click **Finish**. The analyzer loads the performance data and does a high-level analysis that shows the top events of each category in the performance run.

Performance Analyzer Tab > Start.

The screenshot shows the Performance Analyzer interface. At the top, there are tabs for 'Performance Analyzer', 'Result Summary', and 'Result Details'. The 'Performance Analyzer' tab is active. On the left, there is a 'Generate New Performance Run' section with a list of categories and their sub-categories, each with a checkbox. The 'Report' category is checked. At the bottom of this section, there is a 'Start logging on this server' label and a 'Start' button, which is highlighted with a red box. On the right, there is a 'Manage Current Performance Run' section with a 'Download run as log file' button. Below that is an 'Upload Existing Log File as Performance Run' section with a 'Choose File' button and an 'Upload' button. At the bottom right, there is a 'Current Active Users on Server' section showing '2 users' and a 'Refresh' button.

Performance Analyzer Tab > Finish.

Find a Tag

analysis application
availability_section best_practices
cad change_management
changes compare
compare_revisions
customizations customize
database db2 exchange
find_available_times gantt_chart
gantt_scheduler group
memory_footprint modifications
modify object_label
object_revision
operating_system oracle
performance platform
problem_determination reports
reserve reserve_performance
revision revisioning
single_sign-on snapshot space
sql_server sso support system
system_performance
tags: track_customizations
tririga troubleshoot tuning
upgrade ux version versioning
Cloud | List

Members

Performance Analyzer: Performance Analyzer

Performance Analyzer

Generate New Performance Run

- Performance Timings
 - Connector for Business Applications
- Extended Formula
 - Calculation
 - Normal
 - Add Object Labels
- Queue
- Report
- SQL
 - Normal
 - Add Bind Variables
 - BIRT
 - State Transition
- Workflow
 - Asynchronous
 - Synchronous
 - Step Trace
- CAD Integrator (Server)

Finish logging and load performance data **Finish**

Cancel current performance run and reset categories. **Cancel**

Manage Current Performance Run

Download is not available in this state.

Upload Existing Log File as Performance Run

Upload is not available in this state.

Current Active Users on Server

3 active users were logged in at the start of this performance run.

How do you upload an existing performance log file?

In addition to creating a new performance run/log, you can also upload an existing performance log file into the Performance Analyzer for analysis, including logs that originated from versions before IBM TRIRIGA Application Platform 3.5.3.

Step 1. On the **Performance Analyzer** tab, select **Choose File** and locate the log file. The file extension must be **.log** or **.txt**.

Step 2. Select **Upload**. As with a performance run, the Performance Analyzer automatically loads the performance data from the log file and does a high-level analysis.

Step 3. You can review the high-level analysis on the **Result Summary** tab or further investigate on the **Result Details** tab.

Performance Analyzer Tab > Upload.

Performance Analyzer: Performance Analyzer

Performance Analyzer Result Summary Result Details

Generate New Performance Run

- Performance Timings
 - Connector for Business Applications
- Extended Formula
 - Calculation
 - Normal
 - Add Object Labels
- Queue
- Report
- SQL
 - Normal
 - Add Bind Variables
 - BIRT
 - State Transition
- Workflow
 - Asynchronous
 - Synchronous
 - Step Trace
- CAD Integrator (Server)

Start logging on this server **Start**

Manage Current Performance Run

Download run as log file **Download**

Upload Existing Log File as Performance Run

Choose File No file chosen

Upload the chosen file **Upload**

Current Active Users on Server

2 users **Refresh**

Log File Size

When you generate a performance run or upload an existing log file for analysis, the default maximum file size of the log file is 50 MB. Your TRIRIGA administrator can increase the maximum file size for processing or uploading log files by using the following parameter in the **TRIRIGAWEB.properties** file: **PERFORMANCE_ANALYZER_MAX_FILE_SIZE_IN_MB=50**

Notes:

- The **larger** the file size, the **slower** the loading of the logs and the slower the rendering and analysis of the Performance Analyzer. The file size can be minimized by processing only specific user scenarios with the Performance

Analyzer, particularly when you select the SQL and Extended Formula categories. These categories generate more data than other categories.

How do you analyze the data from a performance run?

You can review the high-level analysis on the **Result Summary** tab or further investigate on the **Result Details** tab.

Results Summary

When you click **Finish** to complete a performance run or upload an existing log file, the **Result Summary** tab shows the Top 5 longest running entries by average time for each Performance Timings category that you selected. Categories include "Extended Formula - Calculation", "Report", "SQL", "Workflow - Async", and "Workflow - Sync".

If a category contains more than 5 entries, you can click **Show all** to see all of the entries for that category. Similarly, from the full list, you can click **Show top 5** to return to the Top 5 entries. From either view, you can click **Export Summary** to obtain a CSV file of the respective summary view. The export file is named **Performance_Summary_Export.csv**.

Results Summary Tab > Top 5.

Performance Analyzer: Performance Analyzer

Performance Analyzer | **Result Summary** | Result Details

To view details of the most recent performance run, click the Result Details tab. To start a new performance run, click the Performance Analyzer tab.

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Summary

Export Summary

Workflow - Sync Ordered by Average Time (ms)

Total Count: 4

Top 5 ←

Name	Count	Max (ms)	Average Time (ms)	Total Time (ms)
triPeople - Synchronous - triActivate Validation	1	1436	1436	1436
triUserMessageHelper - Synchronous - Calculate User Message based on Message ID and Language	1	550	550	550
triPeople - Synchronous - Validate Permanent Save	1	316	316	316
triPeople - Synchronous - Update Modified By on People	1	30	30	30

Workflow - Async

Total Count: 14

Top 5 (Show all) ←

Name	Count	Max (ms)	Average Time (ms)	Total Time (ms)
triPeople- triActivate - Submit for Approval and Dependant Record Update	1	1064	1064	1064
triApproval - triIssueHidden - Trigger	1	1053	1053	1053

Results Summary Tab > All.

Performance Analyzer: Performance Analyzer

Performance Analyzer | **Result Summary** | Result Details

To view details of the most recent performance run, click the Result Details tab. To start a new performance run, click the Performance Analyzer tab.

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Summary

Export Summary

Workflow - Async Ordered by Average Time (ms)

Total Count: 14

All (Show top 5) ←

Name	Count	Max (ms)	Average Time (ms)	Total Time (ms)
triPeople- triActivate - Submit for Approval and Dependant Record Update	1	1064	1064	1064
triApproval - triIssueHidden - Trigger Approval Process	1	1053	1053	1053
triPeople - Associate - triStatus - Create Notification Details	3	1961	731	2193
triApproval - Synchronous - Trigger Approval Rule Helper	1	630	630	630
triPeople - Synchronous - Update Intermediate Locators	1	621	621	621
triNotificationDetailHelper - Synchronous - Send	3	499	190	569
triApprovalRuleHelper - Synchronous - Resolve Rules for Associated triApproval and Template	1	62	62	62
triPeople - triActivate - Read Only Dependent	1	32	32	32
triApproval - Synchronous - Resolve	1	21	21	21

Performance Analyzer: Performance Analyzer

Performance Analyzer Result Summary Result Details

To view details of the most recent performance run, click the Result Details tab. To start a new performance run, click the Performance Analyzer tab.

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Summary

[Export Summary](#)

Workflow - Async Ordered by Average Time (ms)

Total Count: 14

All (Show top 5)

Name	Count	Max (ms)	Average Time (ms)	Total Time (ms)
triPeople- triActivate - Submit for Approval and Dependant Record Update	1	1064	1064	1064
triApproval - triIssueHidden - Trigger Approval Process	1	1053	1053	1053
triPeople - Associate - triStatus - Create Notification Details	3	1961	731	2193
triApproval - Synchronous - Trigger Approval Rule Helper	1	630	630	630
triPeople - Synchronous - Update Intermediate Locators	1	621	621	621
triNotificationDetailHelper - Synchronous - Send	3	499	190	569
triApprovalRuleHelper - Synchronous - Resolve Rules for Associated triApproval and Template	1	62	62	62
triPeople - triActivate - Read Only Dependent	1	32	32	32
triApproval - Synchronous - Resolve	1	21	21	21

Result Details

The **Result Details** tab presents all of the data from the performance run in a report-like format. You can filter by **Category**, sort by **Duration**, and search for specific entries by name. When you open an entry, you can review details such as the **Duration**, and **Start** and **End** times of the event.

Further information is displayed based on the category of the entry. For example, with Reports, you can see items such as the report name and the source. With SQL, you can see items such as the header information and SQL that was run.

Results Details Tab > Popup.

Performance Analyzer: Performance Analyzer

Performance Analyzer Result Summary Result Details

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Data

19 total found [Apply Filters](#) [Clear Filters](#) Show: 50

Category	Duration (ms)	Name
Workflow - Async	1961	triPeople - Associate - triStatus - Create Notification Details
Workflow - Async		triPeople- triActivate - Submit for Approval and Dependant Record Update

Performance Data Details

Category	Workflow - Async
Duration (ms)	1961
Key	triPeople - Associate - triStatus - Create Notification Details
Start	07:41:43:374
End	07:41:45:335
User Id	129255757
Record Id	129216244
Source	0
Details	5
Server	
Log Date	2017-09-11 07:41:45,338
ID	1028
Header	2017-09-11 07:41:45,338 DEBUG [com.tririga.platform.workflow.PERF]

Total Count vs. Total Found

The total counts on the **Result Summary** tab and the total found on the **Result Details** tab in a performance run might differ from each other. The totals can differ because the **Result Summary** tab represents a unique count and the **Result Details** tab counts every result.

For example, if the **Result Summary** tab shows 5 SQL results and those results are identical, the **Result Summary** tab counts the 5 identical entries as 1 entry, but the **Result Details** tab counts each of the 5 SQL rows individually.

As another example, see the following two figures. The first figure shows the **Result Summary** of a performance run with a total of 14 unique "Workflow - Async" results. The **Count** column shows that several of the workflows occurred more than once. The arrows point out these workflows.

For the same performance run, the second figure shows the **Result Details**. The total for the "Workflow - Async" results is 19, not 14. The **Result Details** tab displays every result, and does not group unique results. In the second figure, the arrows point to the same workflows that the first figure points out. The workflow is listed several times because it ran several times.

Results Summary Tab > Total Count (Unique).

Performance Analyzer: Performance Analyzer

Performance Analyzer Result Summary Result Details

To view details of the most recent performance run, click the Result Details tab. To start a new performance run, click the Performance Analyzer tab.

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Summary

Export Summary

Workflow - Async Ordered by Average Time (ms)

Total Count: 14

All (Show top 5)

Name	Count	Max (ms)	Average Time (ms)	Total Time (ms)
triPeople- triActivate - Submit for Approval and Dependant Record Update	1	1064	1064	1064
triApproval - triIssueHidden - Trigger Approval Process	1	1053	1053	1053
triPeople - Associate - triStatus - Create Notification Details	3	1961	731	2193
triApproval - Synchronous - Trigger Approval Rule Helper	1	630	630	630
triPeople - Synchronous - Update Intermediate Locators	1	621	621	621
triNotificationDetailHelper - Synchronous - Send	3	499	190	569
triApprovalRuleHelper - Synchronous - Resolve Rules for Associated triApproval and Template	1	62	62	62
triPeople - triActivate - Read Only Dependent	1	32	32	32
triApproval - Synchronous - Resolve	1	21	21	21

Results Details Tab > Total Found (Not Unique).

Performance Analyzer: Performance Analyzer

Performance Analyzer Result Summary Result Details

Performance Run Start: 2017-09-11 07:41:03
Performance Run End: 2017-09-11 07:42:00

Performance Data

19 total found Apply Filters Clear Filters Show: 50

Category	Duration (ms)	Name
Workflow - Async	1961	triPeople - Associate - triStatus - Create Notification Details
Workflow - Async	1064	triPeople- triActivate - Submit for Approval and Dependant Record Update
Workflow - Async	1053	triApproval - triIssueHidden - Trigger Approval Process
Workflow - Async	630	triApproval - Synchronous - Trigger Approval Rule Helper
Workflow - Async	621	triPeople - Synchronous - Update Intermediate Locators
Workflow - Async	499	triNotificationDetailHelper - Synchronous - Send
Workflow - Async	121	triPeople - Associate - triStatus - Create Notification Details
Workflow - Async	111	triPeople - Associate - triStatus - Create Notification Details
Workflow - Async	62	triApprovalRuleHelper - Synchronous - Resolve Rules for Associated triApproval and Template
Workflow - Async	37	triNotificationDetailHelper - Synchronous - Send
Workflow - Async	33	triNotificationDetailHelper - Synchronous - Send

Tip:

- You can determine whether a long-running **report/query** object is an as-shipped TRIRIGA object by viewing the **object label**. The details contain the current object label. If the object does **not** contain an IBM label, such as IBM-T:10.5.0 or Root, then it is **not** an as-shipped TRIRIGA object.
- In the Report Manager, you can open the revision list for the report/query object and perform a **compare** between the object revision that has the label that you see in the Performance Analyzer result details and the most recent as-

shipped revision of that report in the Revision list.

How do you download a performance run as a log file?

You can download a performance run as a log file. For example, you can download it to save it for later analysis or review it outside the Performance Analyzer.

Step 1. Make sure that the analysis is open in the Performance Analyzer, and that the **Result Summary** tab and **Result Details** tab contain the performance run that you want to save.

Step 2. In the **Performance Analyzer** tab, click **Download** and specify the download location.

Performance Analyzer Tab > Download.

The screenshot shows the Performance Analyzer web application interface. At the top, there is a browser window title 'Performance Analyzer: Performance Analyzer' and navigation icons for 'Add To Bookmarks', 'Print', and 'Help'. Below the title bar, there are three tabs: 'Performance Analyzer', 'Result Summary', and 'Result Details'. The 'Performance Analyzer' tab is active. The main content area is divided into two columns. The left column is titled 'Generate New Performance Run' and contains a list of checkboxes for various performance analysis options: 'Performance Timings', 'Connector for Business Applications', 'Extended Formula', 'Calculation', 'Normal', 'Add Object Labels', 'Queue', 'Report', 'SQL', 'Normal', 'Add Bind Variables', 'BIRT', 'State Transition', 'Workflow', 'Asynchronous', 'Synchronous', 'Step Trace', and 'CAD Integrator (Server)'. At the bottom of this column is a 'Start logging on this server' button. The right column is titled 'Manage Current Performance Run' and contains a 'Download run as log file' button with a 'Download' sub-button highlighted in a red box. Below this is an 'Upload Existing Log File as Performance Run' section with a 'Choose File' button, 'No file chosen' text, and an 'Upload' button. At the bottom of the right column is a 'Current Active Users on Server' section showing '2 users' and a 'Refresh' button. A 'Next >' link is located at the bottom right of the interface.

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