

Build Audit Report



The Build Audit Report shows all test and analysis artifacts and metadata associated with a build so that you can understand how well the build is tested. You can archive builds from the repost to prevent test and coverage from being removed during normal database procedures, as well as lock builds so that they can be used as baselines in widgets and explorer views. For additional information about the concepts covered in this report, please see [DTP Concepts](#).

Click on a build from the Build Administration page (see [Build Administration - Statistics](#)) to access the report. The Build Audit Report has the following sections:

- [Summary](#)
- [Tests](#)
- [Coverage](#)
- [Static Analysis](#)
- [Runs](#)
- [Downloading Reports](#)

Summary

The Summary table provides an overview of the test and analysis data associated with the build. You can also archive and lock the build by clicking the icons. See [Locking and Archiving Builds](#) for additional information.

Build Audit Report							
Build: SDM Platform-2017-08-20 Filter: SDM Platform							
Summary							
● Test, coverage or metric details are available. ○ Test, coverage or metric details are no longer available.							
First Run Date	Runs	Static Analysis	Metrics	Tests	Coverage	Archive/unarchive	Lock/unlock
2017-08-20 16:43:36	6	1	1	3 ●	1 ●		

Tests

The Tests table shows the number of tests passed, failed, and incomplete organized by test type, such as functional or unit tests, associated with the build. The number of passing tests are also represented as a percentage. Test data is automatically merged so that overlapping tests do not affect the totals reported.

Tests				
Tests	Passing Percent	Pass	Fail	Incomplete
Unit	100.00 %	1940	0	0
Functional	99.74 %	12448	33	0
Manual	0.00 %	0	0	0
Total	99.77 %	14388	33	0

Coverage

The Coverage table shows the code coverage associated with the build organized by coverage image (see [DTP Concepts](#) to learn about coverage images, builds, and other concepts).

Coverage			
Coverage Image	Percent	Lines Covered	Total Lines
1: All (AllTests)	Not available	Not available	Not available
2: Unit Test (SDM Platform_UT)	4.05 %	17943	443217
3: Functional Test (SDM Platform_FT)	21.40 %	94831	443239
4: Manual Test (ApplicationCoverage)	Not available	Not available	Not available
5: Other (SDM Platform,SDM Platform_UT)	Not available	Not available	Not available

DTP supports up to five coverage images per build. The run configuration associated with the coverage image displays in parentheses. The following coverage images are included by default:

- All: Image that includes coverage for all tests.
- Unit Tests: Image that includes coverage for unit tests, such as tests executed with C/C++test, dotTEST, or Jtest.
- Functional: Image that includes coverage for functional tests, such as tests executed with Parasoft SOAtest.
- Manual Tests: Image that includes coverage for unit tests, such as tests run using the Parasoft Coverage Agent.
- Other: Image that includes coverage for unit tests, such as tests run by third-party tools.

See [Associating Coverage Images with Filters](#) for additional information.

Static Analysis

The Static Analysis table shows the number of violations and suppressed violations reported in the build.

Static Analysis	
Violations	Suppressed Violations
1957	852

Runs

The specific run information associated with the build is displayed in an interactive Runs table.

Build Audit Report												
Build: SDM Platform-2018-03-21 Filter: SDM Platform												
Runs												
Download Archive												
To group by a specific column, drag and drop the desired column to this area.												
			Run Configuration Attributes				Run Information					
Run ID	Run Confi...	Setup P...	Project	Test Co...	Session...	Engine	Machine	User	Run Da...	Run Type	Reports	
106606	2002	2 [0, 1, 1]	SDM Platform	Unit Tests	Unit Tests	DTP Engine for Java	lin-dtp-vm2	devtest	2018-03-21 22:06:18	Dynamic Analysis	XML HTML PDF	
106607	2002	0	SDM Platform	Unit Tests	Unit Tests	DTP Engine for Java	lin-dtp-vm2	devtest	2018-03-21 22:06:18	Coverage	XML	
106605	1403	0	SDM Platform	DTP SOAtest - staging server	DTP SOAtest - staging server	SOAtest	lin-dtp-vm2	devtest	2018-03-21 22:05:04	Dynamic Analysis	XML HTML PDF	
106604	1402	0	SDM Platform	DTP SOAtest - Linux x64 - MySQL 5.6	DTP SOAtest - Linux x64 - MySQL 5.6	SOAtest	lin-dtp-vm2	devtest	2018-03-21 20:03:04	Dynamic Analysis	XML HTML PDF	
106602	684	6 [1, 3, 2]	SDM Platform	DTP Recommended Rules	DTP Recommended Rules	DTP Engine for Java	lin-dtp-vm2	devtest	2018-03-21 18:50:39	Static Analysis	XML HTML PDF	
106603	684	0	SDM Platform	DTP Recommended Rules	DTP Recommended Rules	DTP Engine for Java	lin-dtp-vm2	devtest	2018-03-21 18:50:39	Metrics	XML	

You can perform the following actions:

- Click on a table header to sort the data by that column.
- Drag a column header to the area specified in the table to create views based on groups of data.

To group by a specific column, drag and drop the desired column to this area.					
			+ Project		
Run Configuration Attributes					
Run ID	Run Confi...	Setup P...	Project	Test Co...	
106606	2002	2 [0, 1, 1]	SDM Platform	Unit Tests	

- Click on a link in the Reports column to download the report associated with a specific run. You can download the report in XML or PDF format, as well as view an HTML version in your browser.
- Click on the **Download Archive** drop-down menu and choose an archive type to download all the data associated with the build. See [Downloading Reports](#).

Understanding Setup Problems

The Setup Problems column lets you know if the report contains irregularities related to the analysis and test execution tool configuration. Setup problems are organized by severity into the following categories:

- Error: Severe setup problems.
- Warn: Moderate setup problems.
- Info: Light setup problems.

The Build Audit Report shows setup problems in the following format:

<total problems>[<number of errors>, <number of warnings>, <number of infos>]

You can hover over a link in the Setup Problems column for a quick overview.

Run Confi...	Setup P...	Project
2002	2 [0, 1, 1]	SDM Platform
Total: 2 [Errors: 0, Warnings: 1, Info: 1]		
2002	0	SDM Platform

Click on a link to open the Setup Problems report, which provides detailed information.

Setup Problems

Run ID: 106606 Run Date: 2018-03-21 22:06:18 Filter: SDM Platform Build: SDM Platform-2018-03-21

Severity	Count
Error	0
Warn	1
Info	1

Severity: Warn (1)

Type: Tests structure problem
Identical testases found

There were 22 executions of identical testcases

Severity: Info (1)

Type: DependencySetupProblem
Following dependencies does not exist:

```
/usr/local/autobuilder/jenkins_slave/workspace/shared-grs-executor1/com.parasoft.sdm.shared.webapp/target/classes
```

```
/usr/local/autobuilder/jenkins_slave/workspace/shared-grs-executor1/com.parasoft.sdm.shared.webapp/target/classes
```

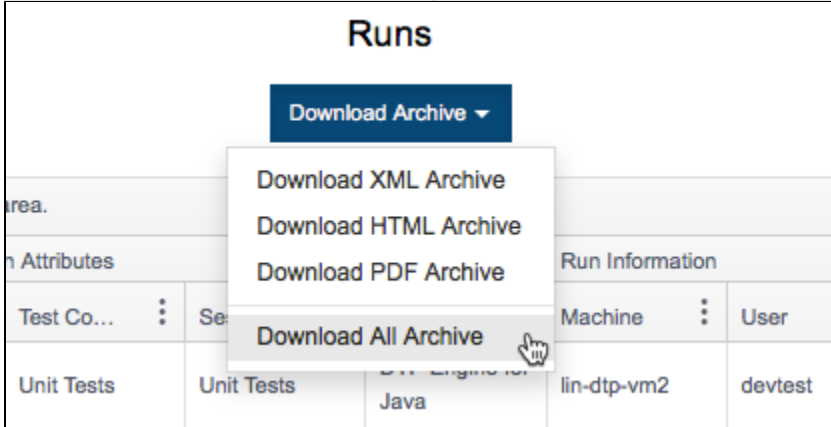
See the documentation for your code analysis and test execution tool for additional information.

Downloading Reports

Builds must be locked and archived before you can download a report associated with the build. See [Using Build Administration](#) for additional information. You can download a complete Build Audit Report archive, which includes reports for all run IDs, or download individual reports for each run ID. You can download reports in XML, HTML, or PDF format.

Downloading Complete Archives

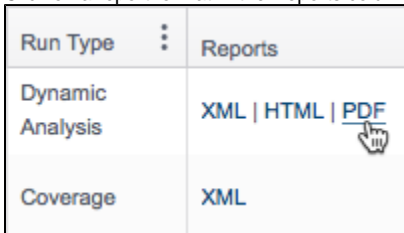
1. Choose a format from the Download Archive drop-down menu.



2. Specify your [report preferences](#) when prompted and click **Generate**. The data will be collected into a report and automatically downloaded when ready.

Downloading Individual Reports

1. Click on a report format in the Reports column.



2. Specify your [report preferences](#) when prompted and click **Generate**. The data will be collected into a report and automatically downloaded when ready.

Report Preferences

The information presented in the report is dependent on the type of run (static analysis, test execution, etc.) and the report settings configured for code analysis and test execution tool. As a result, some preferences may not be applicable to the report data. See the documentation for your tool for details.

Detailed report for developers	Enable this option to generate customized detailed reports for each team member. These reports contain tasks assigned to the specific team member.
Overview of findings by authors	Enable this option to include an overview of the number and type of tasks assigned to each developer.

Overview of checked files and executed tests	<p>Enable this option to include details about all checked files and executed tests.</p> <p>For static analysis, the report will include a list of all the files that were checked. For each file, the report lists the number of rule violations and the number of suppressed violations. If the file has a violation, it also lists the line number, rule name, and rule ID for that violation.</p> <p>For test execution, the report will include a list of all executed test cases and their outcomes (pass or fail). For each test suite, the report lists the total number of test cases and the number of passed test cases. If a task is reported for a test case, additional details (stack trace, outcome, etc.) are presented.</p> <p>For code review, the report will include a list of all pending issues with messages between author - reviewer - monitor (filtered by session tag by default).</p> <p>You can also enable the Requirements/defects details option, which specifies whether the report shows requirements, defects, tasks, and feature requests that are associated with a test.</p>
Findings details	<p>Enable this option to include details about static analysis findings.</p>
Suppression details	<p>Enable this option to include information about suppressed static analysis violations.</p>
Active rules	<p>Enable this option to include a list of the rules enabled during analysis.</p>
Highlight coverage below	<p>Specify a percentage threshold for highlighting test coverage.</p>
Setup problems	<p>Choose an option for viewing setup problems.</p>