Notices

Document Identification
Document No: D0015138
April 2022

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In This Guide

This document provides instructions on how to use the Test Services program. Test Services is installed automatically when you install OpenLab CDS. It includes a suite of verification tests that are available without a license. QualA for OpenLab CDS provides licenses that enable additional CDS verification tests.

1 Introduction

This chapter provides an overview of how Test Services works.

2 Using Test Services

This chapter provides information on how to log in, run verification tests, and view reports. It also describes how to schedule tests and set up email notifications.
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1 Introduction

Overview 6

This chapter provides an overview of how Test Services works.
Overview

Test Services provides a simple and fully automated mechanism for verification of software and system functionality. Test Services is comprised of the Test Services framework, with optional plug-ins that add verification tests. When run, Test Services provides a series of user-selectable tests that confirm the system is operating as intended. Test Services tests are listed in Table 1. Some tests are installed and enabled by default without a license. Some tests are installed, but require a QualA license in order to run them.

**NOTE** When you run Test Services on a given system component (AIC, client, server,) only tests that are available on that component are accessible. If a test is part of a plug-in that is not installed, it does not appear.

<table>
<thead>
<tr>
<th>Test</th>
<th>Tasks performed</th>
<th>Workstation Plus</th>
<th>Workstation XT</th>
<th>Server/ECM XT</th>
<th>Client</th>
<th>AIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Report</td>
<td>• Lists installed applications and patches&lt;br&gt; • Indicates changes since the last system report was executed.</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>OpenLab Storage System Test</td>
<td>• Verifies storage system's functionality for storing, securing, and maintaining files and folders</td>
<td>Available (license required and included)</td>
<td>Available (license required and included)</td>
<td>Available for OpenLab ECM and ECM Server/XT (license required)</td>
<td>Not recommended</td>
<td>Not recommended</td>
</tr>
<tr>
<td>OpenLab Security Test</td>
<td>• Confirms password policy enforcement&lt;br&gt; • Confirms roles-based access enforcement&lt;br&gt; • Verifies activity logs</td>
<td>Available (Internal/Domain authentication) or Disabled - no authentication (license required)</td>
<td>Available (license required)</td>
<td>Available (license required)</td>
<td>Not recommended</td>
<td>Not recommended</td>
</tr>
</tbody>
</table>

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It is also possible to create a test schedule for automatic execution of selected tests. If applicable, you can also select where to run the tests (for example, on a client or AIC.)

You can also set up notifications to send emails to selected users to notify them of test execution and results.

---

**Table 1** Available tests in Test Services (continued)

<table>
<thead>
<tr>
<th>Test</th>
<th>Tasks performed</th>
<th>Workstation Plus</th>
<th>Workstation XT</th>
<th>Client</th>
<th>AIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>OpenLab Software Installation Verification Test</td>
<td>• Verifies integrity of installed Agilent Software binaries by running the Software Verification Tool (SVT)</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Workflow Test (Requires OpenLab CDS Plug-in)</td>
<td>• Creates a project and virtual (Data Player) instrument, submits a sequence and verifies the software algorithms</td>
<td>Available (license required)</td>
<td>Not available</td>
<td>Not available</td>
<td>Available, (license required)</td>
</tr>
<tr>
<td>Connectivity Test (Requires OpenLab CDS Plug-in)</td>
<td>• Network connectivity to all system AICs • Connectivity to instruments that are configured on the AIC</td>
<td>Available</td>
<td>Available</td>
<td>Disabled</td>
<td>Available</td>
</tr>
</tbody>
</table>

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How to Use Test Services

Test Services is started by opening a URL Internet browser for Test Services installed on an OpenLab CDS AIC, Client, Server, Workstation, or Workstation Plus.

The following is an example of a URL for opening the Test Services user interface:

https://hostname.domain.com/testservices

On client systems, you must use https://localhost:9092/ to access test services locally. If you need to access test services remotely, use https://<<client-fqdn>>:9092/. If there is a firewall on the client system, make sure that port 9092 is open.

Licensing for QualA tests

All applicable licenses are included with OpenLab CDS Workstation Plus systems. For other CDS products, licenses must be purchased and installed in order to run licensed tests. For more information, see the Test Services Administration Guide.

Logging in to Test Services

After you open the Test Services URL in your browser, the Test Services Log in page appears.

NOTE

If you are using a file-based Workstation with authorization set to “None,” no login is required.

Type a valid user name and password that you use to log in to OpenLab CDS (and if applicable, a Domain), and then click Login.
For the first login after installation, the user should have OpenLab Shared Services administrator role, to allow the framework to finish registering itself with the OpenLab Server.

After the first login, the Test Services User role is sufficient to log in, execute the Software Installation Verification Test and System Report, and view previous results in history.

To execute the OpenLab Security Test and OpenLab Storage System Test, the System Administrator role with associated Manage Security privilege is required.

For information on editing a user account to add privileges, see the OpenLab CDS online help and the Test Services Administration Guide.

After you log in, the Test Services home page appears. Tests that do not require additional license are displayed at the top. QualA tests that require a license are displayed under QualA Tests.

By default, only recommended tests are displayed. To display all available tests, whether or not they are recommended on the machine from which you run Test Services, click Show all tests. See “Available tests in Test Services” on page 6.
NOTE

Where a license is required, it must be installed before running the test. The license is acquired at the first execution of the test, and the display shows License Acquired.

The license remains acquired after the Security or OpenLab Storage System test execution completes. (It is NOT released to the license pool after the Security or OpenLab Storage System test completes.)

If there are not enough licenses available for the test execution, the test will fail at the step "Checking for the license QlaSecurity."
Using Test Services
Test Services navigation

Test Services navigation

On the left side of the home page is a navigation pane where you can select the following task areas:

Home:
Displays list of user-selectable tests. After selecting desired tests, you start the tests from this window. You can also view last execution results and access reports of the last execution.

Execution Details
Displays the current test execution in progress with detailed progress steps and their status.

Execution History
Displays list of tests that were performed. You can select a date range or create a filter and open reports.

Test Schedules
Displays a list of current test schedules. You can create, edit, enable, disable, or delete test schedules.

Notifications
Displays notification settings. You can enable, disable, and configure notifications for test executions. By default, notifications are disabled.

Help and documentation
Links to Test Services User Guide and Administration Guide.

User log out. User is automatically logged out due to inactivity after the timeout defined in the OpenLab Shared Services Security Policy. Note: For file-based workstations with authentication set to "None," this button is not displayed.
Using Test Services
Running Test Services Tests

Running Test Services Tests

Test Services only enables the tests when the minimum prerequisites for the test are met. For example, the Software Installation Verification Test is disabled if the Software Verification Tool (installed with OpenLab CDS) is not present on the system.

If plug-ins are installed, those tests appear in Available Tests.

To start verification tests,

1. In the home page, select the boxes for the tests you want to perform (Figure 2). To select all tests, click the box next to Name.

NOTE
You can select tests and start their execution when the System Status is Ready. If Running or Aborting, you must wait until the execution finishes.

2. Click Start.
2 Using Test Services
Running Test Services Tests

When a test starts, the system status at the top of the home page changes to *Running*, along with additional information such as the number of tests queued for execution.

3 To view the status of the selected tests, select the **Execution Details** page.
4 To see the progress/status of a test (Pending/In Progress/Completed/Aborting) click the test.

5 To abort the tests, click **Stop**.

A description for each test is given in the following section.

**OpenLab Software Installation Verification Test**

Verifies the integrity of installed Agilent software binaries by running the Software Verification Tool (SVT). This test is available for all systems.
System Report

Generates a System Report showing all software installed, including any updates installed on the machine with the date installed, and version information. It also highlights changes from the previous time the System Report was generated. This test is available for all systems.

OpenLab Security Test (License Required)

The OpenLab Security Test performs the following.

If you are using Domain authentication provider, you must configure the Security Test before it will be available. For more information, see “Configuring the OpenLab Security Test” on page 17.

For this test, two users are created and imported to the system: admin and non-admin.

Then, using the created/imported users, the following security tests are executed in OpenLab Shared Services (OLSS):

• Verification of Login with valid user credentials in OpenLab Shared Services
• Verification of Login with invalid credentials in OpenLab Shared Services
• Verification that too many unsuccessful login attempts locks out a user
• Verification that administrators can unlock a locked user
• Verification of administrative role-based access for admin user in OpenLab Shared Services
• Verification of limited role-based access for non-admin user in OpenLab Shared Services
• Check password policies in OpenLab Shared Services (Internal Only)
• Check activity log entries for the actions performed during the tests in OpenLab Shared Services

For content management, the following security tests are executed:

• Create/import users in OpenLab Shared Services -
• Verifying password policies in OpenLab Shared Services (internal only)
Using Test Services
OpenLab Security Test (License Required)

- Log in verification in OpenLab Shared Services
- Role-based access in OpenLab Shared Services
- Clean-up: remove test users from OpenLab Shared Services. For Domain authentication, the test users are removed only if the user chooses.
- Check the activity log entries for the tests performed.

For OpenLab ECM, the following security tests are executed
- Create users in OpenLab ECM
- Log in verification against OpenLab ECM
- Role-based access verification against OpenLab ECM
- Import users in OLSS
- Log in verification against OLSS
- Role-based access verification against OLSS
- Clean-up: remove users from OLSS and disable user accounts in OpenLab ECM
- If the activity logs are enabled in OpenLab ECM, the activity logs are checked for all tests.

Configuring the OpenLab Security Test

If you are using Domain authentication provider, the OpenLab Security Test needs to be configured before it becomes available for execution. In this case, you will see a Configure button below the OpenLab Security Test in the home page. Click the button to open a Test Configuration form. In the form, enter user credentials for test users (admin and non-admin user) that the test will use for the test execution.

You can also select to remove the test users from the system at the end of the test. The entered data can also be saved for later use.

Configuration is performed once, and applied globally to all machines in a client/server environment.
Using Test Services
OpenLab Storage System Test (License Required)

NOTE
If a currently logged-in user is set as a test user, and you select to remove the test users at the end of the test, the test will fail. The system does not allow removal of test users currently logged into the system. (For example, removing yourself from the system creates an error.)

NOTE
In client/server environments, when the Test Services administrator sets this information on one machine, it will appear on all machines within 3 minutes.

OpenLab Storage System Test (License Required)

This test performs slightly different tests depending on what type of storage system you are using. See the following descriptions of what is tested for each type of storage.

NOTE
If you are using Domain authentication provider, you must configure the OpenLab Storage System test before it will be available. For more information, see “Configuring the OpenLab Storage System Test” on page 20.

OpenLab Storage System Test on OpenLab ECM
The OpenLab Storage System Test performs the following for OpenLab ECM:
• Verifies if a folder structure can be created
• Verifies if a file can be uploaded
• Verifies if a file can be downloaded and the integrity is maintained
• Verifies if a file can be moved to another folder
• Verifies if a file can be assigned user-defined attributes and are retained
• Verifies if files can be associated and associations can be viewed
• Verifies if a user cannot modify and check in a file already checked out by another user
• Verifies if version of file increases after successful check-in
• Verifies if a user cannot sign a file checked out by another user
• Verifies if a file cannot be signed by a user without sufficient permissions to sign files
Using Test Services
OpenLab Storage System Test (License Required)

- Verifies if a file can be signed by a user with sufficient permissions to sign files
- Verifies if the quick search with existent search key finds a file
- Verifies if the quick search with nonexistent search key returns no result
- Verifies if a folder can be cloned
- Verifies if a folder can be moved to another folder
- Verifies if a folder can be renamed
- Verifies if a folder can be deleted by a user with sufficient permissions to delete folders
- Verifies if a folder cannot be deleted by a user without sufficient permissions to delete folders
- Checks activity log entries for the actions performed during the tests

OpenLab Storage System Test on OpenLab Server/ECM XT

The OpenLab Storage System Test performs the following for OpenLab Server/ECM XT:

- Verifies if a folder structure can be created
- Verifies if a file can be uploaded
- Verifies if a file can be downloaded and the integrity is maintained
- Verifies if a file can be moved to another folder
- Verifies if a user cannot check out a file currently checked out by another user
- Verifies if version number of a file increased after successful check-in
- Verifies if a user can sign a file checked out by another user
- Verifies if a file cannot be signed by a user without sufficient permissions to sign files
- Verifies if a file can be signed by a user with sufficient permissions to sign files
- Verifies if the file search with existent search key finds a file
- Verifies if the file search with nonexistent search key returns no results
- Verifies if a folder with a content can be copied
- Verifies if a folder can be moved to another folder
- Verifies if a folder can be renamed
- Verifies if a folder can be deleted by a user with sufficient permissions to delete folders
Using Test Services
OpenLab Storage System Test (License Required)

- Verifies if a folder cannot be deleted by a user without sufficient permissions to delete folders
- Checks activity log entries for the actions performed during the tests for check-in/check-out and signing files in OpenLab ECM Server/XT

OpenLab Storage System Test on file-based workstation
The OpenLab Storage System Test performs the following for file-based workstations:
- Verifies if a folder structure can be created
- Verifies if a file can be uploaded
- Verifies if a file can be downloaded and the integrity is maintained
- Verifies if a file can be moved to another folder
- Verifies if a file can be copied
- Verifies if a file can be renamed
- Verifies if a folder structure can be deleted

Configuring the OpenLab Storage System Test
For content management, if you are using Domain authentication provider, the OpenLab Storage System test needs to be configured before it becomes available for execution. In this case, you will see a Configure button below the OpenLab Storage System test in the home page.

For content management with Domain authentication
1. Click Configure to open the Test Configuration form.
2. Enter user credentials for test users (Test Services admin and non-admin user) that the test will use for test execution.
Using Test Services

OpenLab CDS Workflow Test (License Required)

3. Select to remove the test users from the system at the end of the test.
   (Optional)
4. Click OK.

**NOTE**

In client/server environments, when the Test Services administrator sets this information on one machine, it will appear on all machines within 3 minutes.

For OpenLab ECM as a storage provider

1. Click **Configure** to open the Test Configuration form.
2. By default, **Verify quick search by uploading a file and searching for it** is selected. The test must wait for the file to be processed and indexed before the test can search for it. You can change the time to wait for the processing and indexing of the file before timing out. (Default is 300 seconds, maximum value is 9999 seconds)
3. Click **OK**.

OpenLab CDS Workflow Test (License Required)

During the OpenLab CDS Workflow Test, Test Services creates a project and virtual (data player) instrument and submits a sequence to verify the software algorithms.

Test Services uses sets of reference files, which are valid for the current version of OpenLab CDS. All necessary files, including report templates, sequences, acquisition and processing methods, are deployed together when Test Services is installed.

At the end of the workflow tests, a Test Services Algorithm Evaluation and OpenLab CDS Workflow Test Report are created. A summary of the Test Services Algorithm Evaluation report is also included in the Summary Report.

License required for OpenLab CDS Workflow Test

To execute the Workflow test, the QlaCDSWorkflow license must be available. Each machine where the Workflow test is executed requires one QlaCDSWorkflow license. The license is acquired at the first execution of the Workflow test and remains acquired after the Workflow test execution completes. (It is NOT released to the license pool after the Workflow test completes.)
If there are not enough licenses available for the test execution, the test will fail at the step “Checking for license QlaCDSWorkflow.” QualA licenses are installed from the Licenses option available in the OpenLab Control Panel Administration tab. If you find that the number of licenses you have is insufficient, contact Agilent support to obtain additional licenses. For details on how to install OpenLab licenses, see the OpenLab Control Panel online help.

**Required roles and privileges**

For information on the roles and privileges required to run this test, see the Required roles and privileges topic in the Test Services Administration Guide.

**Workflow tasks performed**

The OpenLab CDS Workflow Test performs the following:

- Confirms CDS workflow and algorithms: Acquisition > Data Analysis > Reporting.
- Executes a standard 18-line sequence using Data Player as an instrument and compares generated and expected values.
- Checks ability to submit and run a sequence and confirms that the generated report is consistent with expected results.
- Edits the running sequence to change sample custom parameter and make a change to a method.
- Edits the running sequence to change the acquisition method.
- Verifies audit trail tracking of changes made to sequences and methods while the sequence is being acquired.

**OpenLab CDS Connectivity Test**

On a client, this test checks connectivity to the AICs in the system. On an AIC, Workstation, and Workstation Plus, this test checks for connectivity to instruments that are configured on the AIC.

**Required roles and privileges**

For information on the roles and privileges required to run this test, see the Required roles and privileges topic in the Test Services Administration Guide.
Connectivity tasks performed

The OpenLab CDS Connectivity Test performs the following:

- Confirms network connectivity between components: Client > AIC.
- On a client, this test checks connectivity to the AICs in the system. On an AIC, Workstation, or Workstation Plus, this test checks for connectivity to instruments that are configured on the machine.
- Not applicable to server.

**NOTE**

In case some instruments are not connected, the following message is displayed “One or more instruments are not connected to this AIC,” including the list of instruments not connected to the AIC.

If this message appears, connect any disconnected instruments prior to the test execution. If at least one instrument is not connected, the test will fail.
Reviewing Test Services Reports

When a test execution is completed, the test results are available in the home page or from the Execution History page, along with previous test executions.

Access reports from the home page

To view the reports from the last set of tests, click the link next to Last result: displayed under Available Tests. For example,

**Last result: Passed (2018-10-05 11:39:58 +02:00)**

The link opens a list of all reports generated in the last test execution, including the Summary report.

For example, if you executed in one run the Security Report and System Report, this link should show the Security Test Report, System Report, and Summary Report.

To view the reports from execution of a particular test, click the Last Result link for that test.

The link opens a list of all reports generated by this particular test (From the preceding example, clicking the Security Test link shows only Security Test report, no Summary Report).

Access reports from the Execution History page

The Execution History page provides a table containing test results. Included are the date and time the test was executed, the user who executed the test, the result of the test (Passed, Failed, Aborted), and the location in content management or OpenLab ECM where the reports are stored.

For file-based workstation, the user who executed the test is not displayed.
To filter the results

Using the displayed fields, you can filter the displayed tests using one or more of the displayed fields.

1 Under Date Range, select From and To dates to display only tests that were executed during that date range. By default, all statuses from all users for the last month are displayed.

2 Under User, type the User name who executed the test. (Not available for file-based workstations.)

3 Under Result, click the down arrow and select the result to apply to the filter. Choices include Passed, Failed, All, and Aborted.

4 To apply your selected filter, click Filter.

5 To clear the current filter criteria and set to default, click Clear.
To view available reports for a test

1. In the list of executed tests, click a test to display the available reports (Figure 6).

   The available reports are listed, along with the test result (Passed, Failed, Aborted).

   a. The link at the top, under “Download all reports as a zip,” is a zip file containing all reports generated by tests in the selected test execution, including the Summary report. Click the link to download the zip file to your local machine, where you can unzip the reports and view them.

   b. To view a report, click the report name. The report is downloaded to your local machine where you can open and view it.
Test report contents

The following test reports are available from the Test Services framework.

Common to all reports
• Host name, User, Date, and Overall test result (passed/failed/unavailable)

System report
This report contains version information for everything currently installed on the host machine. Any changes from the last time this report was executed are highlighted. The report contains sections for
• System Details
• Summary of changes detected
• Software applications
• Updates

OpenLab Security Test report
This report contains results of the OpenLab Security Test:
• Product name and version (if available)
• Authentication configuration details - Internal, Domain, or ECM
• Test users and roles
• Results of tests

Software Installation Verification report
For each OpenLab software component, a separate SVT report is generated that contains:
• Software application details
• Summary of results for
  • File Report Summary
  • GAC File Report Summary
  • Files Registration Report Summary
  • Registry Report Summary
• All installed files
Using Test Services
Test report contents

- Full installation path
- Installed version

OpenLab Storage System Test report
The OpenLab Storage System Test report contains the following information:
- Time of test execution
- A user who executed the test
- Hostname
- Overall test result
- Test product and version (OpenLab ECM, or content management)
- Product configuration (authentication provider, activity logs ON/OFF etc.)
- Test users and roles assigned
- Test configuration details
- Test procedure and steps with statuses (Passed/Failed)
- Activity logs checks

Summary report
The summary report contains a summary of the results of all the tests executed at a given date and time.

OpenLab CDS Connectivity Test report
This report is only generated when you have the OpenLab CDS Plug-in installed. It is generated when the OpenLab CDS Connectivity Test is performed.

The CDS Connectivity test report contains results of the verification of the communication between different OpenLab components and instruments.

Algorithm Evaluation report (OpenLab CDS Workflow Test)
This report is only generated when you perform the OpenLab CDS Workflow Test. It contains evaluation of all algorithms verified by the test, including expected result, observed result, and status (pass or fail for example.)

Workflow Test Report
This report is only generated when you perform the OpenLab CDS Workflow Test. It contains verifications of CDS workflow and algorithms (acquisition > data analysis > reporting.)
Aborting Test Execution

You can abort the test execution process from either the home page or the Execution Details page.

To abort the Test Services test process from the home page

• Click the **Stop** button.

To abort a test from the Execution Details page

• Click **Stop**.

The abort may not happen immediately. When it does, the current step in the table will show that the test is Aborting.

**NOTE**

The Stop button aborts the whole test execution—not just one test.

To stop a test, only the Run Test Services permission is required. (To start a test you need the Run Test Services permission in addition to any other permissions required by the test.)

**What happens when you abort the test execution**

• The System Status changes to “Aborting” during the abort process.
• The test status of Pending and Running tests change to “Aborting.” (Completed tests statuses remain “Completed.”)
• The Summary report is created with status of “Aborted.”
• The result of the tests that were not finished due to the aborted test execution shows “Not Available.”
• The result of the tests that were finished display “Passed” or “Failed” and the reports generated by these tests can be downloaded and viewed.
Scheduling Test Services Tests

You can schedule tests to run automatically on machines where Test Services is installed.

- A schedule can include one or more tests. You can include all recommended tests or a set of user-selected tests. You can also specify required parameters for the scheduled tests.
- For client/server environments, a schedule can be applied to one or more target machines, including all machines, instrument controllers, clients, servers, or specific machines.
- Tests are run using the credentials of the user who created or modified the test schedule.
- Creating, editing, and deleting test schedules requires the user have the Test Services Admin role.
- Creation, modification, and deletion of test schedules are logged in the OpenLab Shared Services system log. Once a schedule is set up, the scheduled tests run whether or not you are logged into Test Services.

Create a test schedule

Test schedules are created or changed from the Set up Test Schedule page. This page appears when you click the calendar icon in the Test Services navigator.

If no test schedule exists, a blank test schedule appears where you can create a test schedule, using the following procedure.

If there are already one or more test schedules, a list of the test schedules appears.
To create a test schedule, click Add, and set up the new test schedule using the following procedure.
To set up a test schedule,

1. Type a schedule name.
2. Type a description for the schedule (optional.)
3. From the Test Selection drop-down, select what tests you want to run:
   - **Run all tests** executes all available tests.
   - **Run all recommended tests** executes all tests recommended for the machine where the tests are run.
   - **Run specific tests** opens a menu where you can select from all tests.
4. From the Machine Selection drop-down, select from the following:
   - **All machines**
2 Using Test Services
Create a test schedule

All Instrument Controllers
All Client Machines
Server Machine
Specific Machine(s) lets you select the machines where you want to execute the schedule.

5 To specify when and how often the scheduled task will be executed, click the calendar icon next to Schedule.

![Change Test Schedule](image)

Figure 9. Set or change test schedule

a Next to Start at click the calendar icon and select the date and time to start the schedule.

b Select Randomize start times to have the schedule start randomly within 30 minutes of the selected start time.

c To set an interval for repeating the tests, select Repeat task.

d Select Hourly, Daily, Weekly, or Monthly and set a repeat interval.

For Weekly, you can also select the days of the week for execution.

For Monthly, you can also select to repeat by day of the month or day of the week.
Enable or disable a test schedule

To enable or disable a test schedule,
1  On the Test Services navigator, click the calendar icon to open the Test Schedules page.
2  In the test schedule list, select the test schedules to enable or disable.
3  At the top, click Enable to enable or Disable to disable the selected test schedules.

Change a test schedule

To change a test schedule,
1  Click the calendar icon to open the Test Schedules page.
2  From the list of test schedules, locate the test schedule you want to change, and click the Edit button on the right.
3  Change the test schedule, as shown in “Create a test schedule” on page 30.
Delete a test schedule

To delete a test schedule,

1. Click the calendar icon to open the Test Schedules page.
2. From the list of test schedules, select the test schedules you want to delete, then at the top of the page, click Delete.
3. To confirm permanent deletion of the test schedule, click Yes.
You can set up Test Services to send a summary report email when verification tests are executed. You can configure notifications to:

- Send a daily summary email
- Send a weekly summary email
- Specify one or more recipients for email notifications

Email is sent using OpenLab Shared Services. Make sure email is set up first using the OpenLab Control Panel. If email is not configured in Shared Services, you will receive an error message and the email will not be sent. For information on how to set up email in the OpenLab Control Panel, see the OpenLab CDS online help.

**Setting up email notifications**

1. On the Test Services navigator, click the Notifications icon.
2. The **Notification Settings** window opens. By default, notifications are disabled.
3. To enable notifications, click **Enable**. This makes the fields for setting up the notifications active.

In order to set up email notifications, you must first configure the email server in the OpenLab CDS Control Panel.
Using Test Services
Setting up email notifications

4 In the Send Emails To box, type one or more email addresses, separated by a semicolon. The system will send notifications to the email addresses specified, using the options selected in the following sections.

5 In the Test Execution Report section, select one or both:
   • Send Daily Test Execution Report - sends a daily report of all tests executed the previous day, including their results (ending at midnight)
   • Send Weekly Test Execution Report - sends a weekly summary report of all tests executed the previous week (ending on Sunday)

6 In the Immediate Notifications section, select one or both:
   • Notify immediately on errors - sends an email whenever an error is reported
   • Notify immediately on warnings - sends an email whenever a warning is reported
Using Test Services

Disabling notifications

7 In the Notification Options section, select options for your notifications:
   • Exclude details for passed tests in the Execution Report - select to include only details from failed tests
   • Send no more than - select to limit the number of immediate notifications to a designated number of notifications within a specified number of minutes.

8 When you are finished, click Save.

Disabling notifications

To disable all email notifications,
1 On the Test Services navigator, click the Notifications icon.
   The Notification Settings window opens.
2 To disable notifications, click Disable. This makes the fields for setting up the notifications, as well as the Save button, inactive.

Enabling notifications

To turn on notifications once they are disabled,
1 On the Test Services navigator, click the Notifications icon.
   The Notification Settings window opens.
2 To enable notifications, click Enable. This makes the fields for setting up the notifications, as well as the Save button, active. You can now set up new notifications or edit existing notifications.

Notification reports

Notification reports are emailed to the designated addresses. The reports include a summary of tests performed during the notification period, and include links to reports.
You might need to log in to the specified machine to view reports.

An example of a daily test execution report sent via notifications is shown in the following figure.

<table>
<thead>
<tr>
<th>Summary by status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Failed</td>
</tr>
<tr>
<td>Not Available</td>
</tr>
<tr>
<td>Aborted</td>
</tr>
<tr>
<td>Passed with additional info</td>
</tr>
<tr>
<td>Passed</td>
</tr>
</tbody>
</table>

Failed (0)

<table>
<thead>
<tr>
<th>Machine</th>
<th>Executed at</th>
<th>Duration</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2020-02-14 13:01:20 -16:00</td>
<td>09:02:17</td>
<td>OpenLab CDS Workflow Test</td>
</tr>
<tr>
<td>SR-OSSS-CSS.aggient.com</td>
<td>2020-02-14 11:58:41 -16:00</td>
<td>00:00:41</td>
<td>OpenLab Storage System Test</td>
</tr>
<tr>
<td>SR-OSSS-CSS.aggient.com</td>
<td>2020-02-14 11:58:41 -16:00</td>
<td>00:00:44</td>
<td>OpenLab Security Test</td>
</tr>
</tbody>
</table>

Figure 11. Test Services daily report sent via notifications
In This Book

This document provides instructions on how to use Agilent Test Services.