Oligo Analysis Accelerator for OpenLab CDS

ReadMe

Revision 1.1 or higher

Requirements

Language Compatibility:

- Only Western European language characters are supported for use in the software.

Supported Operating systems:

- Windows Server 2022 64-bit Standard or Datacenter
- Windows Server 2019 64-bit Standard or Datacenter
- Windows 11 64 bit, Professional or Enterprise
- Windows 10 64 bit, Professional or Enterprise

OpenLab CDS with:

- OpenLab CDS client/server installation
- OpenLab CDS rev. 2.8 Update 08 or higher

Display resolution:

- 1920 x 1080
- Scale to 100 % max.

Supported browsers:

- Edge (current version)
- Chrome (current version)

Required license:

- License for Oligo Analysis Accelerator 1.1

Users and privileges:

- Installation user: Windows domain user with local administrative privileges

Revision 1.1 or higher

- OpenLab CDS user with the following privileges:
    - System Administration > **Manage system components**
    - System Administration > **Manage instrument controllers**
    - System Administration > **Manage security**

Installation

Install Oligo Analysis Accelerator on each OpenLab CDS client where it shall be used.

Silent installation is not supported

1. Log in to Windows as Windows domain user with local administrative privileges.
2. If Oligo Analysis Accelerator 1.0 is installed, uninstall it via **Windows Settings** > **Apps**.
3. Open the **Microsoft Control Panel**.
4. Under **Programs and Features**, verify that the installed **Agilent OpenLab CDS** version is 2.8.0.1515 or 2.8.0.1608.
5. To verify that **Agilent OpenLab CDS 2.8 Update 08** is present, open the File Explorer, and navigate to **%ProgramData%\Agilent\InstallLogs\ SoftwareUpdate**. Search for **OpenLab_CDS_2.8_Update_08**. If the update is present, multiple files with that string in their filename are listed.
6. Copy the Oligo Analysis Accelerator zip file to a local folder, and extract it.
7. Run the .msi file as an administrator.
8. Read and accept the terms in the license agreement.
9. Enter the hostname of the Shared Services server in your OpenLab CDS system, and provide the OpenLab CDS login credentials. Click **Test Connection** to confirm the credentials, then proceed with the installation.
10. After finishing the installation, run the **Agilent Software Verification Tool**. Select **Agilent OpenLab Oligo Analysis Accelerator** to verify that it passes the installation check.
11. In **Microsoft Control Panel** under **Programs and Features**: Verify that **Agilent OpenLab Oligo Analysis Accelerator** is installed.
12. If OpenLab Control Panel was open during installation, close and reopen it.
13. Add the License for Oligo Analysis Accelerator 1.1 to your system.

Synchronize updated settings

1. After installing Oligo Analysis Accelerator, new OpenLab CDS privileges and default roles are available. Verify that the roles exist, and assign them to the corresponding users in your system.

   New privileges:
   - Oligo edit parameters
   - Oligo reset result set
   - Oligo run analysis

   New roles:
   - Oligo Admin
   - Oligo Supervisor
   - Oligo User

   For details on these roles, see Table 1 Roles for Oligo Analysis Accelerator on page 5.

2. To synchronize updated user settings, go to **Administration** > **Secure Storage**, and click **Synchronize all**.

Table 1: Roles for Oligo Analysis Accelerator

Role name	Privileges	Purpose
Oligo Admin	• Manage project or project group • View project or project group • Oligo edit parameters	Can modify project parameters and result set parameters in the Oligo Analysis Accelerator web interface
Oligo Supervisor	• Manage project or project group • View project or project group • Edit content of project • Add manual audit trail entry • Oligo reset result set	Can reset the analysis progress on a result set
Oligo User	• Manage project or project group • View project or project group • Edit content of project • Add manual audit trail entry • Do manual chromatogram extraction • Do manual integration • Do manual spectrum extraction • Reprocess data • Oligo run analysis	Can run the Oligo Analysis Accelerator analysis

Run Oligo Analysis Accelerator

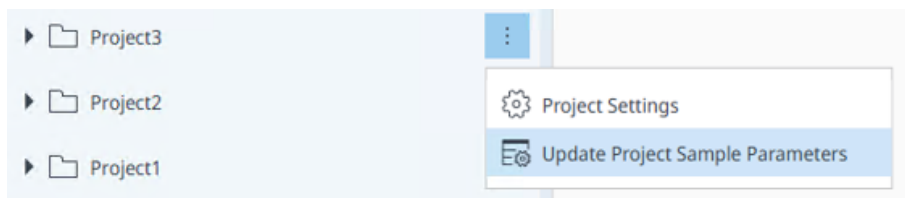Double-click the Oligo Analysis Accelerator icon on your desktop.

Alternatively, open https://localhost:52088/openlab/oaa/login in your browser.

For details on the workflow and on using Oligo Analysis Accelerator, please refer to the online help.

Configure an OpenLab Project

Prepare an OpenLab project, and follow the steps below to ensure that it includes all paramaters required for an Oligonucleotide Purity and Assay analysis.

1 In the Oligo Analysis Accelerator (OAA) web interface on the **Data Selection** tab, select the relevant project.

2 Click the three dots next to the project name, and select **Update Project Sample Parameters**.

The application creates the following sample custom parameters:

Name	Type
Lot number	Text
Moisture result #1 (%)	Numeric
Moisture result #2 (%)	Numeric
Density	Numeric
Sample prep. volume	Numeric
Preparation factor	Text Enter **Volumetric** or **Gravimetric**
Assay low limit	Numeric
Assay high limit	Numeric
Label claim	Numeric

If a parameter already exists with a wrong type, an error is shown. To fix sample custom parameters, edit the project in OpenLab Control Panel (see Sample Custom Parameters)

A chemist or technician will fill in the values for each sample when preparing the sequence in the Acquisition client.

Known limitations for rev. 1.1

Table 2: Limitations for Oligo Analysis Accelerator (OAA) for OpenLab CDS

Area	Description
OpenLab CDS privileges for installation	If the OpenLab CDS user that you use for installation has insufficient privileges, new OAA roles are missing. OAA must be uninstalled and reinstalled with correct credentials and sufficient privileges.
Browser buttons	Using the Back, Forward, or Refresh browser buttons will leave the current analysis. Unsaved work will be lost.
OAA project parameters	Once the project settings have been opened in the OAA web interface, OAA parameters are attached to the project in the background. The parameter values can be edited, but the parameters cannot be removed again from the project.
Data format	Only OpenLab CDS rev. 2.x data is supported. ChemStation and EZChrom data are not supported.
Updating user privileges requires client restart	If user roles and privileges for Oligo Analysis Accelerator are updated on a system where the Add-on is already in use, the changes have no immediate effect. The settings must be synchronized, and the client PC must be rebooted in addition.

Revision 1.0

Requirements

Operating System / Language Compatibility

- Supported Operating systems

The Oligo Analysis Accelerator add-on is supported with English operating systems only

Western European language characters supported only for use in the software

- Windows Server 2022 64-bit Standard or Datacenter
- Windows Server 2019 64-bit Standard or Datacenter
- Windows 11 64 bit, Professional or Enterprise
- Windows 10 64 bit, Professional or Enterprise

OpenLab CDS with:

- OpenLab CDS client/server installation
- OpenLab CDS revision 2.8, including update 02 or higher

Display resolution:

- 1920 x 1080
- Scale to 100 % max.

Supported browsers:

- Edge (current version)
- Chrome (current version)

Required license:

- License for Oligo Analysis Accelerator

Users and privileges:

- Installation user: Windows domain user with local administrative privileges

Revision 1.0

- OpenLab CDS user with the following privileges:
  - System Administration > Manage system components
  - System Administration > Manage instrument controllers
  - System Administration > Manage security

Installation

Install Oligo Analysis Accelerator on each OpenLab CDS client where it shall be used.

Silent installation is not supported

1. Log in to Windows as Windows domain user with local administrative privileges.
2. Open the **Microsoft Control Panel**.
3. Under **Programs and Features**, verify that the installed **Agilent OpenLab CDS** version is 2.8.0.1515.
4. To verify that **Agilent OpenLab CDS 2.8 Update 02** is present, open the File Explorer, and navigate to **%ProgramData%\Agilent\InstallLogs\ SoftwareUpdate**. Search for **OpenLab_CDS_2.8_Update_2**. If the update is present, multiple files with that string in their filename are listed.
5. Copy the Oligo Analysis Accelerator zip file to a local folder, and extract it.
6. Run the .msi file as an administrator.
7. Read and accept the terms in the license agreement.
8. Enter the hostname of the Shared Services server in your OpenLab CDS system, and provide the OpenLab CDS login credentials. Click **Test Connection** to confirm the credentials, then proceed with the installation.
9. After finishing the installation, run the **Agilent Software Verification Tool**. Select **Agilent OpenLab Oligo Analysis Accelerator** to verify that it passes the installation check.
10. In **Microsoft Control Panel** under **Programs and Features**: Verify that **Agilent OpenLab Oligo Analysis Accelerator** is installed.
11. If OpenLab Control Panel was open during installation, close and reopen it.

Configuration

1. After installing Oligo Analysis Accelerator, new OpenLab CDS privileges and default roles are available. Verify that the roles exist, and assign them to the corresponding users in your system.

   New privileges:

   - Oligo edit parameters
   - Oligo reset result set
   - Oligo run analysis

   New roles:

   - Oligo Admin
   - Oligo Supervisor
   - Oligo User

   For details on these roles, see Table 3 Roles for Oligo Analysis Accelerator on page 12.

2. To synchronize updated user settings, go to **Administration** > **Secure Storage**, and click **Synchronize all**.

3. Prepare a project, and add the following sample custom parameters. The parameter values can be set or changed afterwards.

| NOTE | Be careful to use the spelling and capitalization exactly as given. |

   - **Lot number** (type: Text)
   - **Moisture result #1 (%)** (type: Numeric)
   - **Moisture result #2 (%)** (type: Numeric)
   - **Density** (type: Numeric)
   - **Sample prep. volume** (type: Numeric)
   - **Preparation factor** (type: Text; enter either **Volumetric** or **Gravimetric**)
   - **Assay low limit** (type: Numeric)
   - **Assay high limit** (type: Numeric)
   - **Label claim** (type: Numeric)

Table 3: Roles for Oligo Analysis Accelerator

Role name	Privileges	Purpose
Oligo Admin	• Manage project or project group • View project or project group • Oligo edit parameters	Can modify project parameters and result set parameters in the Oligo Analysis Accelerator web interface
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Oligo User	• Manage project or project group • View project or project group • Edit content of project • Add manual audit trail entry • Do manual chromatogram extraction • Do manual integration • Do manual spectrum extraction • Reprocess data • Oligo run analysis	Can run the Oligo Analysis Accelerator analysis

Run Oligo Analysis Accelerator

Double-click the Oligo Analysis Accelerator icon on your desktop.

Alternatively, open https://localhost:52088/openlab/oaa/login in your browser.

For details on the workflow and on using Oligo Analysis Accelerator, please refer to the online help.

Known limitations

Table 4: Limitations for Oligo Analysis Accelerator (OAA) for OpenLab CDS

Area	Description
OpenLab CDS privileges for installation	If the OpenLab CDS user that you use for installation has insufficient privileges, new OAA roles are missing. OAA must be uninstalled and reinstalled with correct credentials and sufficient privileges.
Browser buttons	Using the Back, Forward, or Refresh browser buttons will leave the current analysis. Unsaved work will be lost.
OAA project parameters	Once the project settings have been opened in the OAA web interface, OAA parameters are attached to the project in the background. The parameter values can be edited, but the parameters cannot be removed again from the project.
Data format	Only OpenLab CDS rev. 2.x data is supported. ChemStation and EZChrom data are not supported.
Updating user privileges requires client restart	If user roles and privileges for Oligo Analysis Accelerator are updated on a system where the Add-on is already in use, the changes have no immediate effect. The settings must be synchronized, and the client PC must be rebooted in addition.

In This Book

This document describes the requirements, installation, and initial configuration for Oligo Analysis Accelerator for OpenLab CDS. It also contains information on known limitations.

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