



Byosphere[®] Web Client Manual

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Protein Metrics LLC, Boston, Massachusetts, USA

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Overview

Protein Metrics Byosphere® is a server repository where Protein Metrics projects and related files can be generated, viewed, and managed. Byosphere Web Client is a web-based portal to load, view and manage files, folders, and jobs. Byosphere Web Client is currently supported on Google Chrome.

Introduction

The Byosphere Web Client consists of nine pages or work areas: Home page, Deep Query Dashboards, Web Analysis, Browse, Upload, Search, Jobs, Notifications, and Resources. These areas are accessed by the icons found in the navigation panel on the left side of the page:

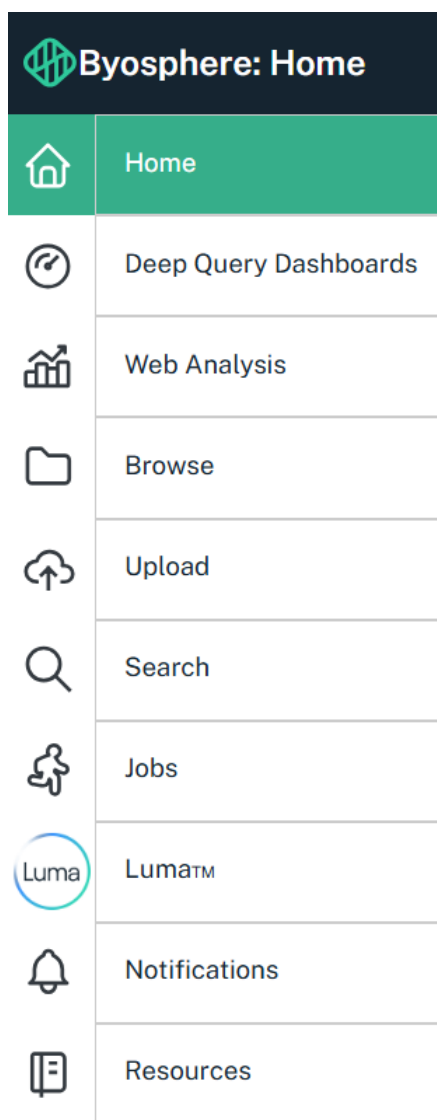













Figure 1: Byosphere navigation panel

Each Byosphere Web page represents a set of related functions:

- In the **Home**  page, users can view the eight most recent files that they have interacted with, as well as all associated actions for these files. The page names on the navigation panel appear in full from the homepage.
- In the **Deep Query Dashboards**  page, users can access the **Deep Query** application, which allows a user to collate data from multiple Byosphere Byos projects and/or Web Analyses into a Dashboard to provide aggregate information. The user can develop multiple outputs from data, including Dashboards, status indicators, listings, and statistical analyses. For more information, see the **Byosphere Deep Query Dashboards Manual**.
- In the **Web Analysis**  page, users can access **Web Analysis**, an application embedded within the Byosphere enterprise server that improves customer experience by enabling interactive and iterative computations and the creation of analyses directly within Byosphere. For more information, see the **Byosphere Intact Web Analysis Manual** and the **Byosphere Peptide Web Analysis Manual**.
- In the **Browse**  page, users can access and manage files and folders. Designated users can create folders, upload, or download files and edit, move, and delete files and or folders. Other designated users can view and download these files and folders. Under **File History**, older versions can be viewed and downloaded. Reports can be generated from project files.
- In the **Upload**  page, users can upload standard files as well as MS files by clicking the dropzone, which will launch the File Explorer, or dragging MS files and folders (.d and .raw) from the File Explorer and dropping them directly into the zone.
- In the **Search**  page, users search for files and folders, according to their assigned privileges, and filter by metadata. Users can access or edit records from the search results list directly.
- In the **Jobs**  page, users can view information about Analysis Server jobs that they or other users submitted, according to their assigned privileges. Users can view job status and open job log files. Note that Web Analysis tasks are not included in the Jobs page.
- In the **Luma™**  page, users can navigate to the main page of the Dotmatics Luma Platform.
- In the **Notifications**  page, users can view notifications of their completed jobs with links to the job results.
- In the **Virtual Client**  page (**Note:** only visible for users who have the Virtual Client configured), users can open a hosted instance of Byosphere Byos in the Web Client for very fast large project and sample downloads. Byosphere Virtual Client needs to be configured on the Byosphere server to enable this feature. For more information, see the [Virtual Client](#) section of this manual or the **Byosphere Virtual Client Configuration Manual**.
- In the **Resources**  page, the user has access to useful links that provide more information about tutorials, Protein Metrics resources, and the Knowledge Base.

In addition to Byosphere Web Client, Byosphere Byos Client allows designated users to submit **Analyses** to be processed on an Analysis Server. These users can load sample files into the Byos workflow from the Byosphere server, load local support files, set parameters, and generate Protein Metrics project documents that are saved to the Byosphere server. For more information on running analyses, see the **Byosphere 02 Byos Client Manual**.

Deep Query Dashboards

Byosphere Deep Query allows the user to collate data from multiple Byosphere Byos projects and Web Analyses into a Dashboard to provide detailed information. The user can develop multiple outputs from data, including Dashboards, status indicators, listings, and statistical analyses.

Dashboards are a collection of **Visualizations** supporting data viewing across multiple projects. They provide a dynamic view of data that can be used to monitor processes, assess changes over time, or to create descriptive models of data for business intelligence purposes. A **Visualization** is a chart, table, or other kind of visual component that renders data.

For more information, see the **Byosphere Deep Query Dashboards Manual** and the **Byosphere Deep Query Quick Start Manual**.

Web Analysis

Byosphere® **Web Analysis** is a new native web application that provides users with the ability to perform Intact and Peptide protein analyses directly within the Byosphere Web Client. Web Analysis provides an interface embedded within the Byosphere enterprise server that improves customer experience by enabling interactive and iterative computations, provides platform independence, and avoids upload and download issues that are inherent to the desktop client.

For more information, see the **Byosphere Web Analysis Manual**, **Byosphere Intact Web Analysis Quick Start Manual**, and the **Byosphere Peptide Web Analysis Quick Start Manual**.

User Group Privileges

Users can be assigned to User Groups by an Administrator. There are four kinds of privileges that User Groups can be assigned that are associated at the folder level and that enable access to folders, files, and their functions. These privileges are independent of each other and often must be assigned together, as detailed below.

- **Viewer** - User Groups given only Viewer privileges to a folder can view and download files in that folder and view reports for Protein Metrics project files. Viewers cannot edit, delete, or move files or folders.
- **File Editor** - User Groups given File Editor privileges to a folder can add, edit, move, download, and delete any files in that folder. They cannot manage the assigned folder or sub-folders. File Editors must also be given Viewer privileges to the same folder so they can view the files they manage.
- **Folder Editor** - User Groups given Folder Editor privileges to a folder can edit, move, and delete that folder, as well as add sub-folders under it. They cannot manage files in the folders unless they are also given File Editor privileges. Folder Editors must also be given Viewer privileges to the same folder so they can view the folders they manage.
- **Analyst** – User Groups given Analyst privileges to a folder can process, or analyze, sample files in the folder to create Protein Metrics projects through the Byosphere Byos Client. Analysts must also be given Viewer and File Editor privileges to the same folder so they can view and manage the source sample files and resulting project files.

Note that a special category of users called **Super Users** automatically have all the above privileges for all files and folders. Super User privileges are assigned to users by a Byosphere **Administrator**.

Users with specific privileges are assigned to User Groups created by an Administrator in the Byosphere Admin Web Client. User Groups are then assigned to folders in the Byosphere Web Client by Folder Editors. To assign the same User to separate folders with different privileges, that User must be in multiple User Groups with the different privileges. Then, the different User Groups are assigned to the separate folders by Folder Editors.

Privileges are not assigned to files directly. Users in a User Group assigned to a folder have uniform privileges to all files in the folder. To separate access privileges among files, place them in different folders with different User Group assignments.

User Group privileges are enabled or disabled by the Byosphere license. Users are assigned entitlements from this license by an administrator. Product entitlements are needed to use Analyst privileges, and role entitlements are needed for any privileges beyond Viewer privileges. Users who cannot exercise their assigned User Groups privileges should contact the Byosphere administrator to ensure that they have the correct role entitlement. Users must logout and login again to enable changes made by the administrator to their license entitlements.

The Users and privileges in a User Group are not inherited by the folders below a parent folder. Sub-folders are assigned User Groups independently. When a new sub-folder is created, the User Groups assigned to the parent folder are checked by default to simplify propagating users and privileges among sub-folders. However, when the User Groups of a folder are edited, the User Groups of sub-folders are not affected.

First Login

When a new User is created by an administrator, an email is sent to that User containing a link to access the Byosphere Web Client in the default web browser. When login accounts are managed by the Byosphere server, the link opens a welcome screen in the Byosphere Web Client:

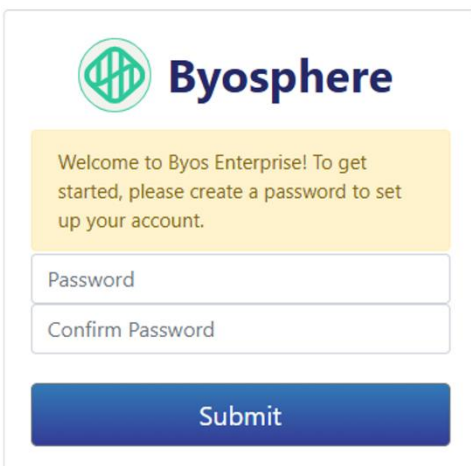
The image shows a web form for the first login. At the top is the Byosphere logo, which consists of a green circular icon with a stylized 'B' and the word 'Byosphere' in blue. Below the logo is a yellow rectangular box containing the text: 'Welcome to Byos Enterprise! To get started, please create a password to set up your account.' Underneath this box are two input fields: the first is labeled 'Password' and the second is labeled 'Confirm Password'. At the bottom of the form is a blue rectangular button with the word 'Submit' in white text.

Figure 2: The emailed link prompts the user to set a password

To set a password, enter the same string in both cells with a minimum of six characters and click **Submit**. The user is then prompted to login.

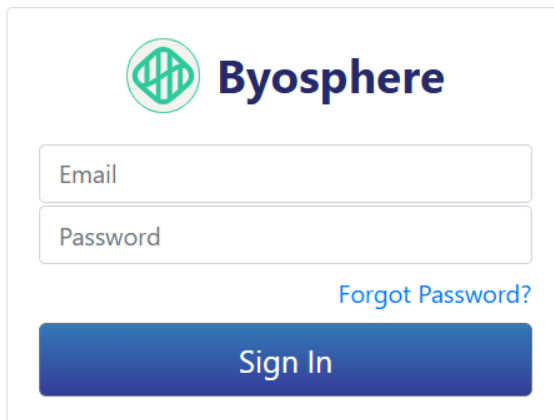
The image shows a login dialog box for Byosphere. At the top is the Byosphere logo, which consists of a green circular icon with a stylized 'B' and the word 'Byosphere' in a bold, dark blue font. Below the logo are two input fields: the first is labeled 'Email' and the second is labeled 'Password'. To the right of the 'Password' field is a blue link that says 'Forgot Password?'. At the bottom of the dialog is a large blue button with the text 'Sign In' in white.

Figure 3: Byosphere Web login dialog

If the User forgets the password, click **Forgot Password?** on the login dialog. A message is then sent to the User's email with a link to change the password.

Single Sign-On Login

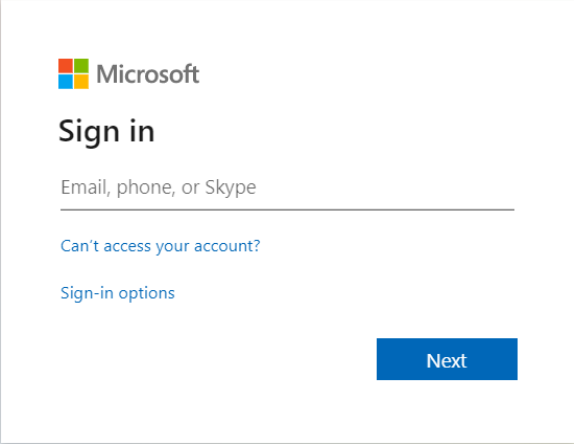
The Byosphere system may be configured for Single Sign-On (SSO) logins. When this is enabled, user credentials are not managed by Byosphere but by a third-party identity provider such as Active Directory. The account email used by the identity provider must match an existing Byosphere email account. Users would then login with these email accounts but instead with their passwords from their identity provider service, not with the passwords managed by Byosphere.

When SSO is enabled, entry of the Byosphere server URL brings up a link to begin the login:

The image shows a login dialog box for Byosphere in SSO mode. It features the Byosphere logo at the top. Below the logo is a single large blue button with the text 'Sign In' in white.

Figure 4: SSO-enabled login

Click **Sign In**. The login screens that follow depend on the identify provider. The examples below use Active Directory, which manages Microsoft Windows accounts:



Microsoft

Sign in

Email, phone, or Skype

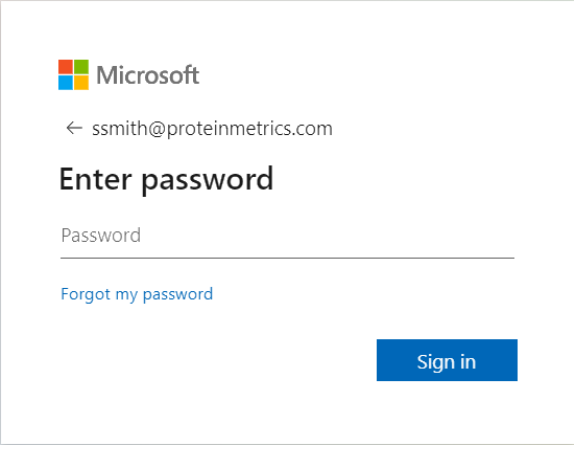
[Can't access your account?](#)

[Sign-in options](#)

Next

Figure 5: Enter the Byosphere email account

Enter the email address shared by Byosphere and the account managed by the identity provider. In this example, click **Next** to move to the Password screen:



Microsoft

← ssmith@proteinmetrics.com

Enter password

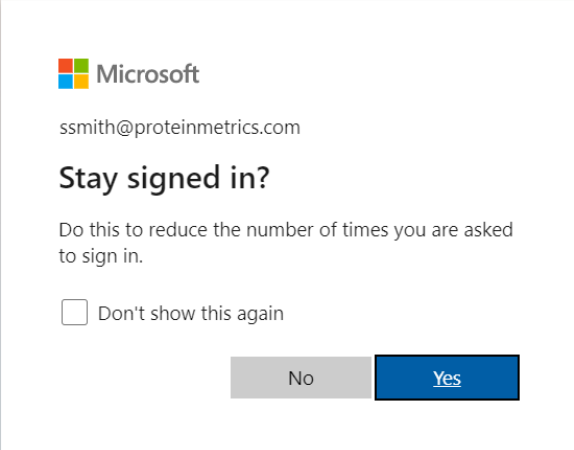
Password

[Forgot my password](#)

Sign in

Figure 6: Enter the identity provider (not Byosphere) account password

Enter the password for the account managed by the identity provider, not the password managed by the Byosphere account. In this example, click **Sign In**:



Microsoft

ssmith@proteinmetrics.com

Stay signed in?

Do this to reduce the number of times you are asked to sign in.

☐ Don't show this again

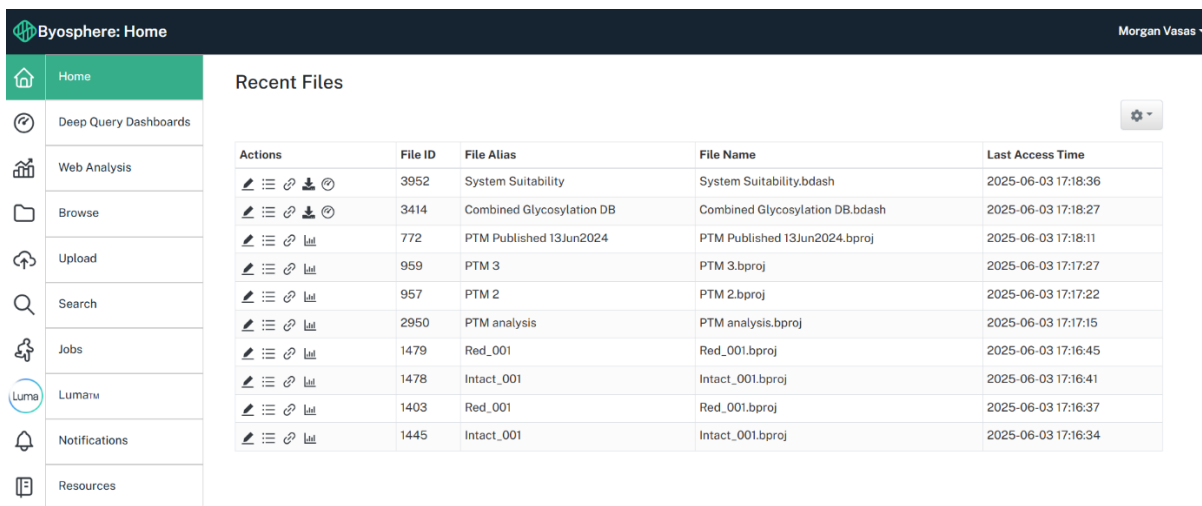
No Yes

Figure 7: For Microsoft Windows, choose whether to remain logged in

In this example, the user can choose to click **Yes** to remain signed in when closing and reopening Byosphere Web Client, or to click **No** to log out when closing the web browser.

Home Page

Upon logging in, users are immediately greeted with the **Home page**.





















































Actions	File ID	File Alias	File Name	Last Access Time
    	3952	System Suitability	System Suitability.bdash	2025-06-03 17:18:36
    	3414	Combined Glycosylation DB	Combined Glycosylation DB.bdash	2025-06-03 17:18:27
    	772	PTM Published 13Jun2024	PTM Published 13Jun2024.bproj	2025-06-03 17:18:11
    	959	PTM 3	PTM 3.bproj	2025-06-03 17:17:27
    	957	PTM 2	PTM 2.bproj	2025-06-03 17:17:22
    	2950	PTM analysis	PTM analysis.bproj	2025-06-03 17:17:15
    	1479	Red_001	Red_001.bproj	2025-06-03 17:16:45
    	1478	Intact_001	Intact_001.bproj	2025-06-03 17:16:41
    	1403	Red_001	Red_001.bproj	2025-06-03 17:16:37
    	1445	Intact_001	Intact_001.bproj	2025-06-03 17:16:34

Figure 8: Byosphere Web Client Home page

From the Home page, the user can view and perform actions on their eight most recently accessed files. Files are sorted in descending order based upon their modification date.

The left navigation panel within the Home page lists out all pages available within Byosphere.

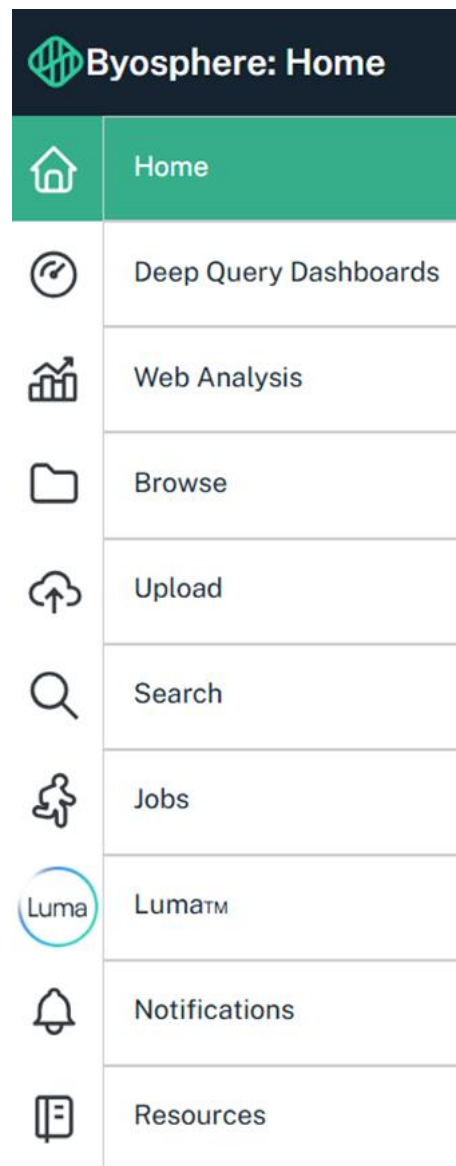


Figure 9: Byosphere pages

Upload Page

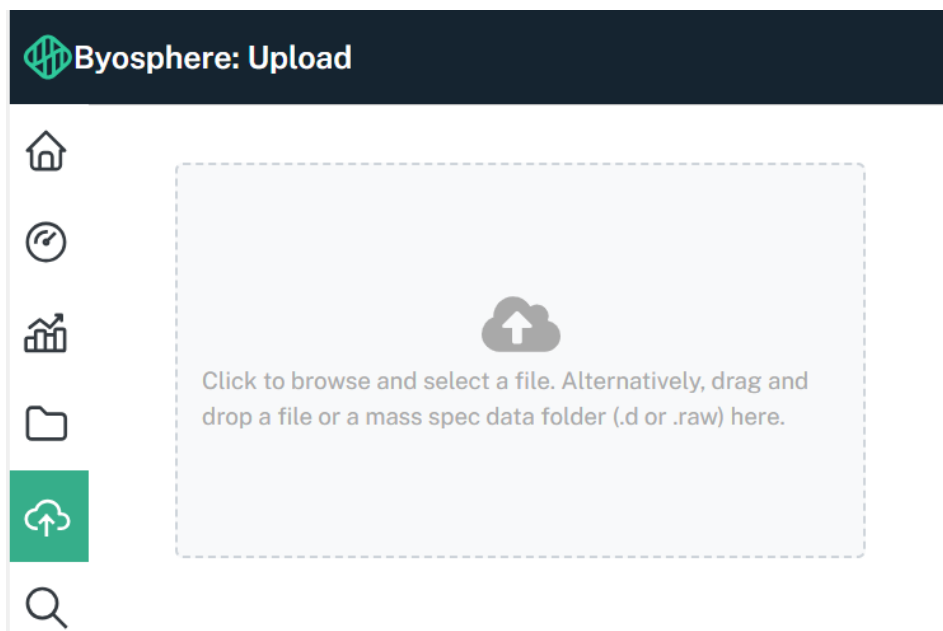


Figure 10: Upload Page

The **Upload** page features a dropzone which allows for the upload of standard files as well as MS files by clicking the dropzone, which will launch the File Explorer, or dragging MS files and folders (.d and .raw) from the File Explorer and dropping them directly into the zone.

Note: Self-contained MS data files behave differently than MS data folders. Individual files *and* folders can be dragged directly from the File Explorer into the dropzone, but only individual files can be opened from the File Explorer dialog; otherwise, the entire folder cannot be selected.

Web Analysis Page

From the **Web Analysis** page, users can create a new web analysis by clicking on a Web Analysis **Project Template**, as shown below. Templates are prepopulated with Modifications and custom Presets so that users can easily start their analysis.

System Analysis Templates

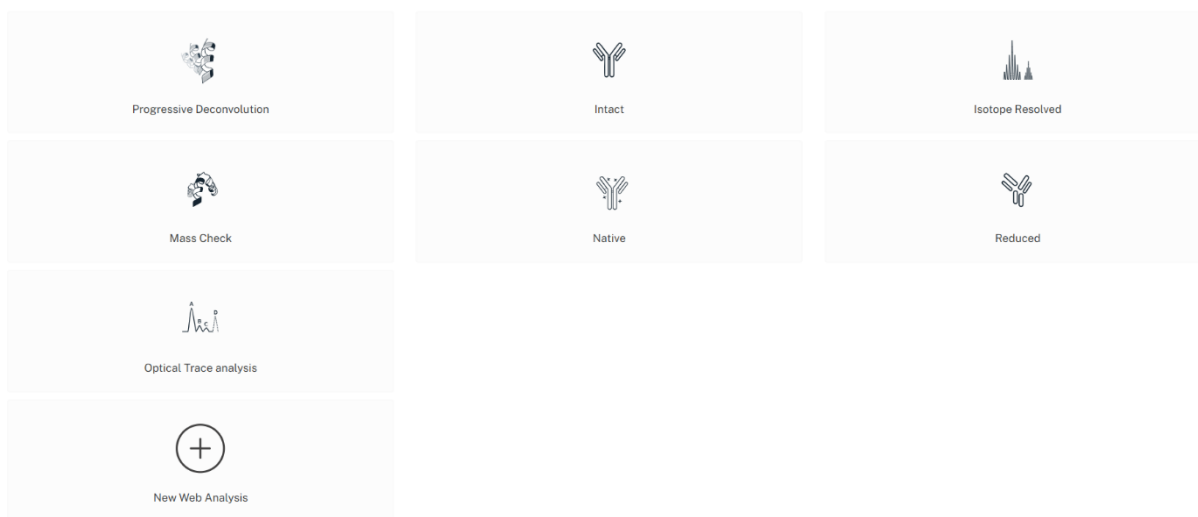


Figure 11: Web Analysis Project Templates

An empty analysis can also be created from the Byosphere Home page by clicking the box that reads “New Web Analysis”.

Deep Query Dashboards Page

From the **Deep Query Dashboards** page, users can create a Deep Query Dashboard from scratch by clicking **New Dashboard** or from a system template by clicking one of the **System Dashboards**.

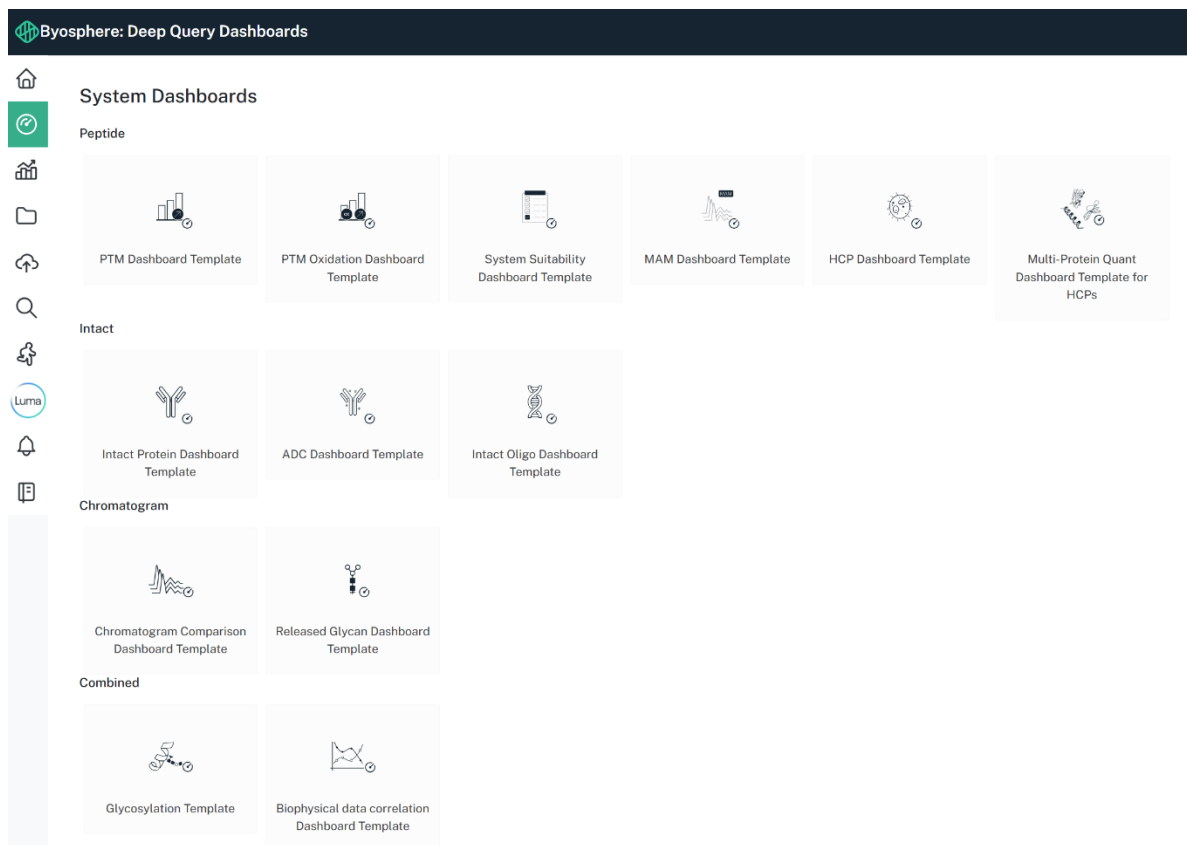


Figure 12: Deep Query System Dashboards

Users can also view their 10 most recently accessed Dashboards from the Deep Query page under **Recent Dashboards**.

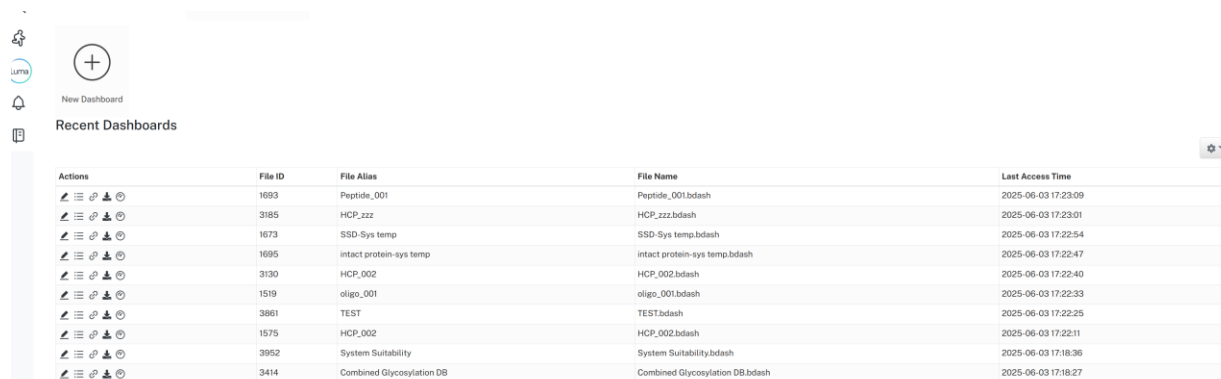



Figure 13: New Dashboard and Recent Dashboards

To return to the Home page from the other pages, click the  button in the navigation panel. Note that clicking the back button within the web browser itself (such as Chrome) will take the user out of Byosphere.

Browse Page

The **Browse** page shows the User a list of all folders and files they have been granted access to.




Figure 14: Browse page

In the left panel of the Browse page, all folders that the User has access to are displayed in a tree structure. That is, all the folders that folder editors have assigned User Groups that include that User. To expand a collapsed folder, click the right arrow button before the name. To collapse an expanded folder, click the down arrow before the name. In the main panel, all files within the selected folder are visible; there is no pre-filtering of files in folders. Details about the files are displayed in a table. The Files table (see Figure above) includes the following columns.

- **Actions** show icons associated with the actions that the user can perform on the files of this folder. These actions are described in the [Managing Files](#) section.
- **ID** is the unique identifier for that file. Duplicate names and file names are allowed in a folder. The IDs distinguish among such duplicates.
- **File Alias** defaults to the file name without an extension. Alias can be edited by the user.
- **File Name** is the name of the file that was uploaded. File name cannot be edited by the user.
- **Created By** is the User with File Editor privileges who uploaded the file to the server.
- **Created On** is the date and time the file was uploaded to the server.
- **Signature State** (Regulatory mode only) shows whether a Protein Metrics project has been signed or approved.

To navigate among folders, click the right arrow to expand a folder and the down arrow to collapse a folder. Click the folder name to select it; the file contents are displayed in the main panel. If a sub-folder is selected and a parent of this folder is collapsed, the parent folder becomes selected and files for the parent folder are displayed.

The buttons above the folders in the left pane (see Figure above) are folder actions available to Users who are Folder Editors. The buttons above the file table (and the  button in the **Actions** column) are file actions available to File Editors. These action buttons do not appear for Viewers who are not also Folder Editors and/or File Editors:

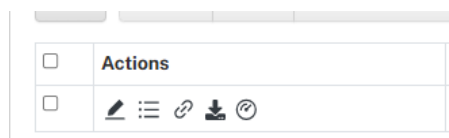









Figure 15: File actions

Users can access a Dashboard by clicking on the **View Dashboard**  icon. Clicking on **View Dashboard** will launch the selected Dashboard. For more information on Dashboards, see the [Deep Query Dashboards](#) section of this manual or **Deep Query Dashboard User Guide**.

Users can access a Web Analysis by clicking the **View Analysis**  icon. Clicking on **View Analysis** will open the selected Dashboard. For more information on Web Analysis, see the [Web Analysis](#) section of this manual or the **Web Analysis Manual**.

For more information about the  button, see the [Edit Folders](#) and [Edit Files](#) sections. For more information about the  button, see the [Folder History](#) and [File History](#) sections. For more information about the  button, see the [Folder Links](#) and [File Links](#) sections. For more information about the  button, see the [Download Files](#) section. For more information about the  button, see the [Web Reports](#) section.


Root-Level Folders

Before a User can view and manage files and folders, a Super User must add folders at the root level (with or without sub-folders) and assign User Groups to those folders that contain User Groups and their privileges. To avoid folder clutter, Folder Editors cannot create folders at the root level. The Super User defines the workspace with folder hierarchies and their User Group access in advance. Adding folders is described below.

Managing Folders

As previously stated, only Super Users and Users with Folder Editor privileges can add, edit, move or delete folders. **Note:** Folder additions and edits are not automatically updated in the Browse pages of other users already logged into the Byosphere server. To see new or edited folders, other users should collapse and expand the parent folder to the changed folders. To see new root-level folders, other users will need to logout and log back in again.

Add Folders

To add a folder, click the  button and above an existing folder tree. The **Add Folder** dialog opens:

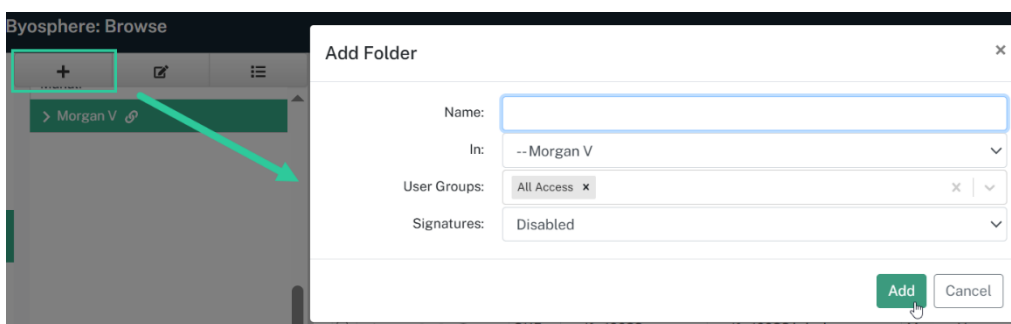


Figure 16: Add Folder dialog


Enter a unique value for **Name**. **Note:** Folder names have an 80-character limit. The dropdown to the right of the label **In** is the name of the parent folder that contains the new folder. The current folder is selected by default. A Super User will see every folder on the server in this dropdown, as well as **<root>**, which represents adding a folder at the root level. A User will see only those folders with User Groups that contain them along with Folder Editor privileges. Users who are not Super Users cannot add or move folders to the root level.

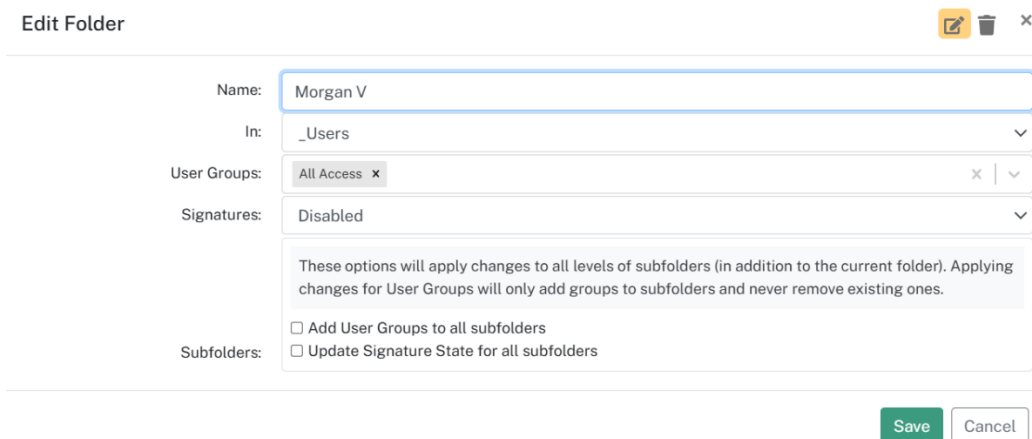
Clicking on the user groups dropdown shows a list of available User Group appears. Select a User Group name to add it to the folder. Alternatively, type the first letters of a User Group name to filter by that name and then select it. Multiple User Groups can be added. Click the **x** after a name in the User Groups cell to remove that User Group. Super Users see all available User Groups. Users see only those User Groups that include them. At least one User Group must be added.

Signatures can be enabled or disabled. See the [Signatures](#) section for details about signing projects. When a folder is enabled for signatures, an asterisk (*) appears after the folder name.

Click **Add** to create the folder. An add confirmation message is displayed, and the folder tree is updated for the new folder in the left pane.

Edit Folders

To edit the selected folder, click the  button above the folder tree. The **Edit Folder** dialog opens:



The **Edit Folder** dialog is a form with the following fields and options:

- Name:** A text input field containing "Morgan V".
- In:** A dropdown menu showing "_Users".
- User Groups:** A field showing "All Access" with a close button (x) and a dropdown arrow.
- Signatures:** A dropdown menu showing "Disabled".
- Subfolders:** A section with two checkboxes:
 - ☐ Add User Groups to all subfolders
 - ☐ Update Signature State for all subfolders

Below the fields is a note: "These options will apply changes to all levels of subfolders (in addition to the current folder). Applying changes for User Groups will only add groups to subfolders and never remove existing ones."



At the bottom right are **Save** and **Cancel** buttons.

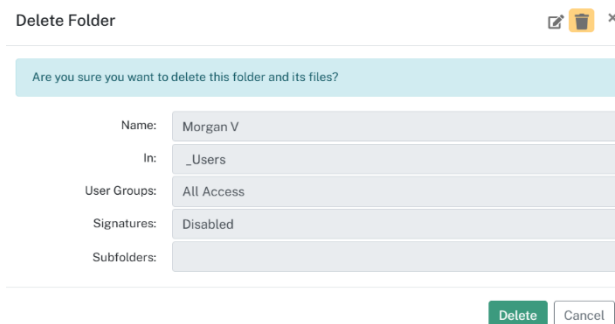
Figure 17: Edit Folder dialog

Edit the name, select a new parent folder, add or remove User Groups, and/or enable or disable Signatures. Click **Save**. An edit confirmation message is displayed, and the folder tree is updated in the left pane for moved or renamed folders.

The **Subfolders** option allows users to propagate changes to User Groups and Signatures to all subfolders. Note that user group changes are appended to previous user group selections and in order to remove user group(s) from a subfolder they must be removed manually from each subfolder.

Delete Folders

To delete a folder, click the  button to open the Edit Folder dialog as before. Click the  button at top right (see Figure above). The dialog changes to a deletion confirmation:



The **Delete Folder** dialog is a form with the following fields and options:


- A confirmation message: "Are you sure you want to delete this folder and its files?"
- Name:** A text input field containing "Morgan V".
- In:** A dropdown menu showing "_Users".
- User Groups:** A field showing "All Access".
- Signatures:** A dropdown menu showing "Disabled".
- Subfolders:** A field showing "All Access".

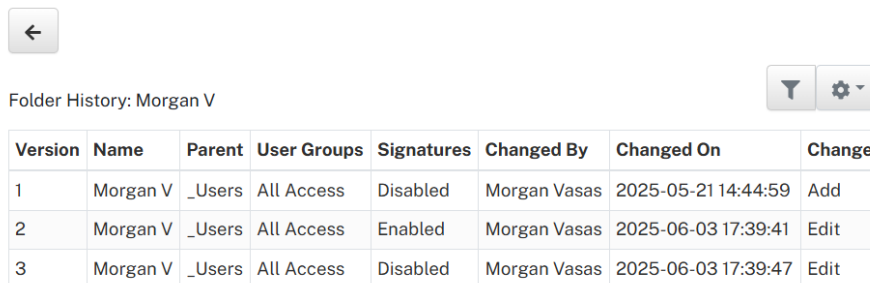
At the bottom right are **Delete** and **Cancel** buttons.

Figure 18: Delete Folder dialog opened from Edit Folder

Click **Delete** to remove the folder and its file contents. A delete confirmation message is displayed, and the folder tree is updated in the left pane. Note that the folder is not completely deleted; the server Administrator can restore the deleted folder in the Byosphere Admin Web Client. Likewise, the Administrator can permanently delete the user-deleted folder.

Folder History




Users can see the Folder History for any folder for which they are a Folder Editor (Super Users can see the Folder History for all folders). To view a Folder History, select the folder in the left pane and click the  button above the folder tree. The **Folder History** opens in the main panel:




Folder History: Morgan V

Version	Name	Parent	User Groups	Signatures	Changed By	Changed On	Change
1	Morgan V	_Users	All Access	Disabled	Morgan Vasas	2025-05-21 14:44:59	Add
2	Morgan V	_Users	All Access	Enabled	Morgan Vasas	2025-06-03 17:39:41	Edit
3	Morgan V	_Users	All Access	Disabled	Morgan Vasas	2025-06-03 17:39:47	Edit

Figure 19: Folder History

Version lists the count of each folder save. **Name**, **Parent**, **User Groups** and **Signatures** are described above. **Changed By** and **Changed On** display the User who made each change and the date and time of the change. **Change** lists the kind of folder change. Changes include Add, Edit, Delete, Restore, Create Content, Edit Content, or Upload. To return to the Files table, click the  button at top left. The  and  buttons at top right are described in the [Managing Tables](#) section.

Folder Links

The link icon  after the folder name allows the user to copy the folder address so that it can be shared with other users. After logging in, the Byosphere Web Client will open with the linked folder selected. **Note:** the second user must be in a User Group assigned to that folder to open it from a link. **Note:** folder links are only supported for secured https web addresses.

Managing Files

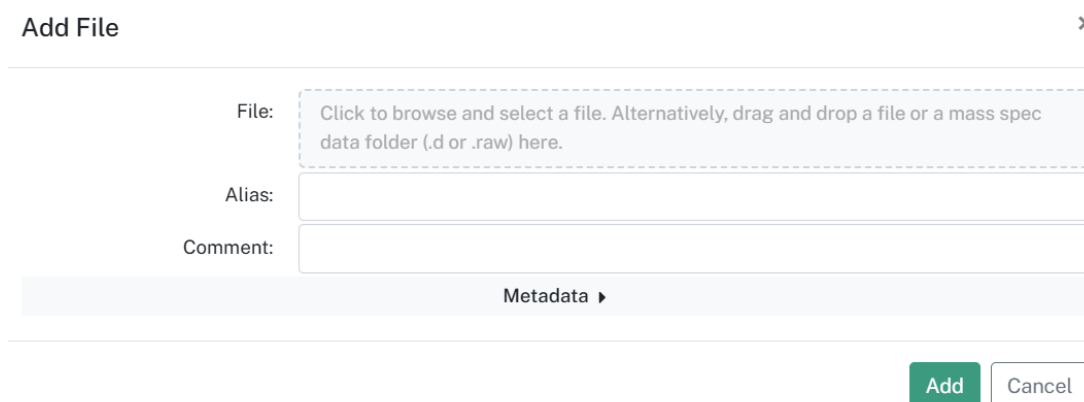
As previously stated, only Super Users and Users with File Editor privileges can add, edit, move, download, or delete files. **Note:** file additions and edits are not automatically updated in the Browse pages of other users already logged into the Byosphere server. To see new or edited files, other users should refresh the web browser.

Adding MS Files and Folders

The following MS file types are supported for uploading into Byosphere and converting into *.pacq format: *.raw, *.wiff, *.wiff2, *.lcd, *.mbi, *.mzxml, *.mfaux2, and *.byspec2.

The following folder types are supported for uploading into Byosphere and converting into *.pacq format, assuming all content in the folder is mass spec content: .d and .raw

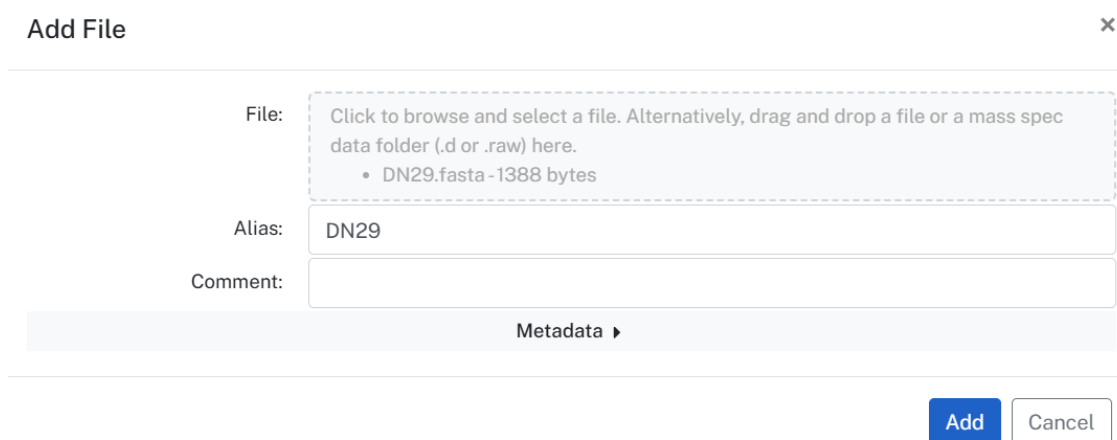
To add a file, click the **Add** button above the Files table. The **Add File** dialog opens:



The 'Add File' dialog box features a title bar with a close button (X). It contains three input fields: 'File:', 'Alias:', and 'Comment:'. The 'File:' field is a dashed border box containing the text 'Click to browse and select a file. Alternatively, drag and drop a file or a mass spec data folder (.d or .raw) here.' Below these fields is a 'Metadata' section with a right-pointing arrow. At the bottom right are 'Add' and 'Cancel' buttons.

Figure 20: Add File dialog

Clicking on the file dropzone will launch the file selection dialog. Any file can be uploaded, but beginning with **Byosphere 5.0**, MS files are properly compressed into *.pacq format, making them immediately available for Byosphere projects. For a single mass spec file, e.g., *.byspec2, the user can select the file in the file chooser dialog and click **Open**. The File box will populate with the name and size of the file selected, additionally noting that it will be uploaded as mass spec content. The **Alias** box will populate with the name of the file sans extensions.



This 'Add File' dialog box shows the state after a file has been selected. The 'File:' field now displays 'DN29.fasta - 1388 bytes'. The 'Alias:' field is populated with 'DN29'. The 'Comment:' field remains empty. The 'Metadata' section and 'Add/Cancel' buttons are also present.

Figure 21: Add file with local file name and alias

The file name is not editable. The Alias field is editable. For example, very long names can be shortened to a more reasonable length. **Note:** Alias values longer than 255 characters will be truncated.

For *.wiff or *.wiff2 content, the user should do a **multi-select** of all the output files in the file choose dialog and click **Open**. The files will then be displayed in the dropzone, additionally noting that it will be uploaded as mass spec content, and the file alias will be populated based on the *.wiff or *.wiff2 file name.

Add File

File:

Click to browse and select a file. Alternatively, drag and drop a file or a mass spec data folder (.d or .raw) here.

The following file(s) will be uploaded as a mass spec result:

- A21030516.wiff - 172032 bytes
- A21030516.wiff.scan - 43160768 bytes

Alias:

A21030516.wiff

Comment:

Metadata ▶

Add

Cancel

Figure 22: Add *.wiff file(s) with local file name and alias

Note: *.wiff uploads require multiple files. If not all necessary *.wiff files are included in a file upload, the User will be prompted with the following error message:

Add File ×

Invalid wiff input: missing a wiff.scan file. For a wiff upload, please select the wiff file as well as any related files, such as wiff.scan, idx2

File:

Click to browse and select a file. Alternatively, drag and drop a file or a mass spec data folder (.d or .raw) here.

Alias:

Comment:

Metadata ▶

Add

Cancel

Figure 23: Invalid .wiff input

Duplicate names are allowed for files in the same folder. Files are identified by their IDs, which are also displayed in the Files table (See Figure 11 and 12).

MS folders are uploaded (.d or .raw) by **dragging and dropping** the folder into the (note that clicking Open in the file chooser will simply open the folder, so the user must drag and drop those folders). Once dropped, the folder name will be displayed in the dropzone and the Alias will be updated based on the folder name. Non-MS folders cannot be uploaded in the Web Client, but they can be uploaded in Byosphere Byos.

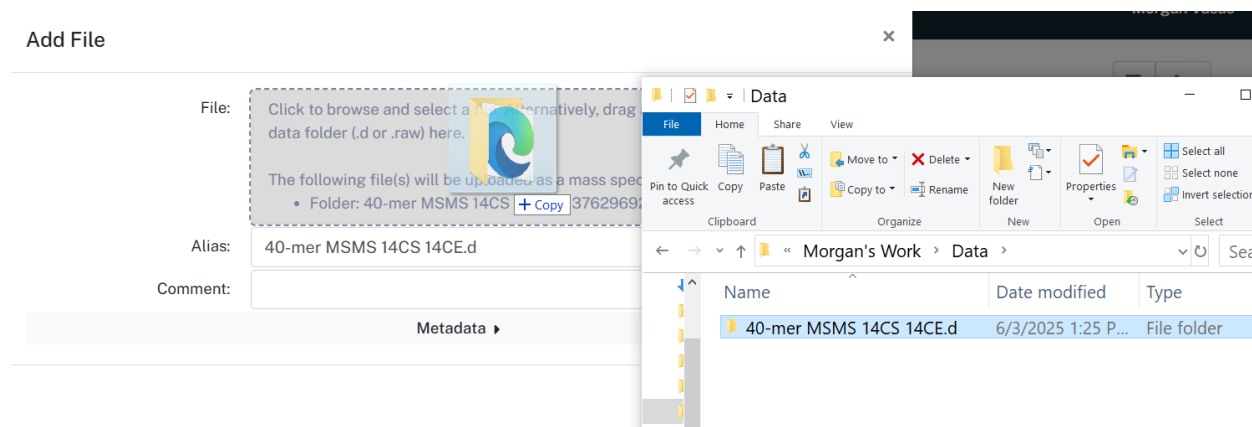


Figure 24: Folders must be dragged and dropped into the dropzone for upload

An entry in the **Comment** box is optional. Click **Add** to begin the file/folder upload. A status bar displays the progress of the upload above the Files table. If there are multiple files (e.g., a folder upload) a number next to the current upload will show how many files are still pending upload within the batch.

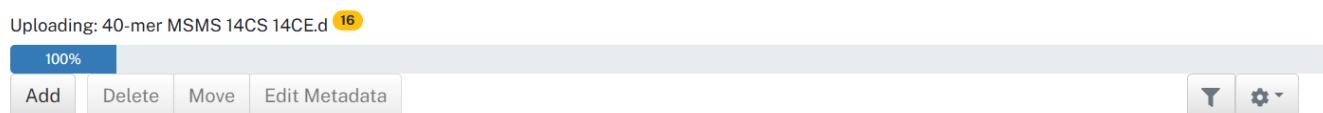


Figure 25: File upload status bar

Very large files can take several minutes to complete. A confirmation message is displayed when the upload is complete, and the Files table is updated with the new file.

Once files are uploaded, they are placed in queue to be converted into *.pacq format.

Jobs Page for Pacq type

The user can check on the progress of their MS file uploads on the **Jobs** page. For MS file/folder uploads, the **Type** will be listed as "Pacq", with the **Name** showing up as the file name that will be converted into *.pacq format. Before files are converted to *.pacq format, they are temporarily saved as .zip files, hence the .zip extension following the original name of the file. Canceling a Pacq job will result in the associated MS file being deleted.

1-50 of 4005 Default Sort

Action	ID	Name	Status	Type ↑
	9237	09315_E_SN_NIST_Guanidine_Tryp.raw.byspec2.zip	Running	Pacq

Figure 26: Submitted File Uploads on Jobs page

Protein Metrics Project and Sample Files

Certain files should be loaded to the Byosphere server using the Byosphere Byos Client instead of the Byosphere Web Client.


Byosphere Byos Client should be used to perform uploads for the following cases:

- **Protein Metrics project files with reports** – In order to make reports available on the Byosphere Web Client, Protein Metrics project files need to be uploaded via the Byosphere Byos Client. Byos uploads include the option to generate a report for the project. Since large uploads can tie up Byos for long periods, users can continue working in another instance of Byos.
- **Non-MS folders**

The Byosphere Web Client is recommended to perform uploads for the following cases:

- **Very large files not in the list above** – Very large file uploads on ordinary connections (such as home networks) can take hours. Any network interruption will cause the upload to fail. Web browsers tend to be more resilient to brief network interruptions.
- **Multiple files not in the list above** – The Byosphere Web Client creates a queue of file uploads. Several files can be added to the Add file queue from different folders, and then work can continue in another Byosphere Web Client tab or in Byosphere Byos Client. On the other hand, Byosphere Byos Client can only upload one file at a time, requiring a manual upload for each file, one after the other. Alternatively, target files can be moved into a single folder and uploaded in Byos as a folder.

Edit Files

To edit an existing file, click the  button to the left of the file record. The **Edit File** dialog opens:

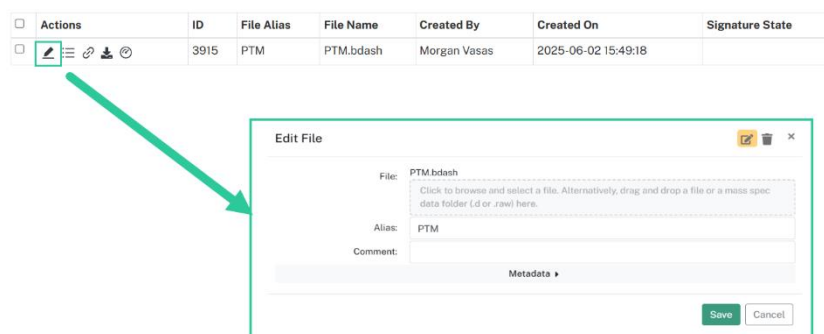


Figure 27: Edit File dialog

To replace the existing file with a file with the same name (file names must match), click the dropzone to launch the file selection dialog, select the desired file, and click **Open**.

Optionally, the user can edit the Alias of the selected file and/or add a comment or Metadata. Comments are helpful to distinguish new versions of files. Click **Save**. An edit confirmation message is displayed, and the Files table is updated with any changes to Name or File Name.

Metadata

Metadata is information associated with a particular file, such as the instrument used to obtain the data, digestions used, batch numbers, or other important process characteristics. Metadata fields are defined by the Byosphere Administrator. To include Metadata when adding a file in the File table, click **Add** and in the **Add File** dialog, click the right arrow after **Metadata**. The arrow changes to a down arrow, and exposes the available Metadata fields:

Metadata ▼	
Activity:	<input type="text"/>
Assay:	<input type="text"/>
Instrument:	<input type="text"/>
Molecule:	<input type="text"/>
Project:	<input type="text"/>
Request ID:	<input type="text"/>
Request On:	<input type="text"/>
Sample:	<input type="text"/>
Sample ID:	<input type="text"/>
Sample Origin:	<input type="text"/>
date field:	<input type="text"/>
Is Biophysical:	<input type="text"/>
Sample Code:	<input type="text"/>
Acquired On:	<input type="text"/>

Figure 28: Some of the available Metadata fields from the File uploader

Metadata can also be added to an existing file from the **Edit File** dialog.

To prevent any issues, the user should add the metadata columns of interest within the file folder view and inspect the existing metadata before editing metadata so that existing metadata does not get overwritten.

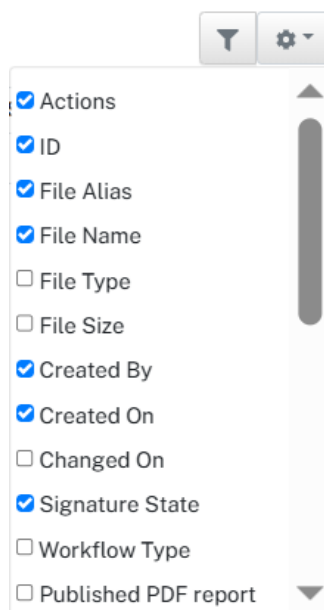


Figure 29: Metadata column options under Toggle columns

Delete Files

To delete one or more files, check the boxes before the file records to delete (to check all files, check the box in the header row) and click the **Delete** button above the Files table. The **Delete Files** confirmation appears:

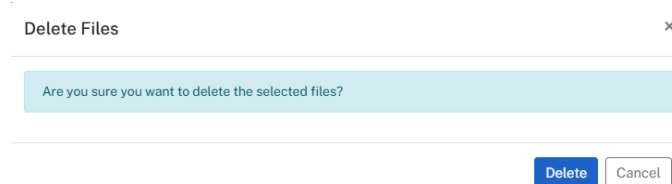


Figure 30: Delete Files confirmation

Click **Delete**. A delete confirmation message is displayed, and the files are removed from the Files table.

Note that the file is not completely deleted-- the server Administrator can restore the deleted file in the Byosphere Admin Web Client. Likewise, the administrator can permanently delete the User-deleted file.

Move Files

To move one or more files, check the boxes before the file records to move (to check all files, check to box in the header row) and click the **Move** button above the Files table. The **Move Files** dialog appears:

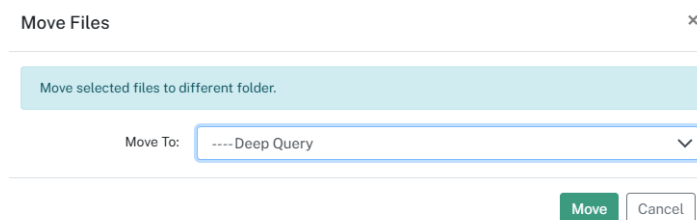



Figure 31: Move Files dialog

Click the drop-down arrow after **Move To**, select the new folder and click **Move**. A move confirmation message is displayed, and the file is removed from the current Files table.

Download Files

To download a file, click the  button to the left of the file name. The file is saved to the default download directory for the web browser. The download status will display in the status bar of the web browser. Note that the file name is displayed, not the Alias:

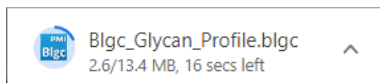


Figure 32: Download status in browser status

Display Common Files

Many common file types that are stored on the Byosphere server can be displayed directly in the Byosphere Web Client window from the Browser Files table and Search Results table.

These file types include text files (*.csv, *.log, *.txt), *.json, *.pdf, image, video and audio files. If the file type is supported for opening in the Web Client, the file name displays a blue web link:

Search: [Open](#) [Save](#) [Clear](#) [Switch to Advanced](#) [Export Results to CSV](#)

[Search](#) n-glycan

☐ Edit batch

No filters available.

1-3 of 3





Actions	Folder	ID	File Alias	File Name	File Size	Created By	Created On	Signature State
	GlycanDatabase	9483	N-glycan 50 common biantennary	N-glycan 50 common biantennary.txt	2017	Sweta Agrawal	2025-06-25 13:08:37	
	GlycanDatabase	37151	N-glycan 50 common biantennary	N-glycan 50 common biantennary.txt	2017	Adrianna Urbanska	2025-07-18 12:07:49	
	GlycanDatabase	40326	N-glycan 50 common biantennary	N-glycan 50 common biantennary.txt	2017	Devesh Joshi	2025-08-01 08:57:10	

Figure 33: Files that can be displayed in the Web Client show web links in blue

Click the blue file name and the contents are displayed in an embedded window in the Web Client:

 N-glycan 50 common biantennary.txt (2 KB)



 % Short list of common N-glycans including those on therapeutic IgG's
% No tri- or tetra-antennary N-glycans
HexNAc(1) % 203.079373
HexNAc(2) % 406.158746
HexNAc(1)Fuc(1) % 349.137282
HexNAc(2)Fuc(1) % 552.216655
HexNAc(2)Hex(1) % 568.21157
HexNAc(2)Hex(3) % 892.317218
HexNAc(2)Hex(3)Fuc(1) % 1038.375127
HexNAc(2)Hex(4) % 1054.370042
HexNAc(2)Hex(4)Fuc(1) % 1206.427951
HexNAc(2)Hex(5) % 1216.422866
HexNAc(2)Hex(5)Fuc(1) % 1362.480775
HexNAc(2)Hex(6) % 1378.47569
HexNAc(2)Hex(7) % 1548.528514
HexNAc(2)Hex(8) % 1702.581338
HexNAc(2)Hex(9) % 1864.634162
HexNAc(3)Hex(3) % 1895.396591
HexNAc(3)Hex(3)Fuc(1) % 1241.4545
HexNAc(3)Hex(4) % 1257.449415
HexNAc(3)Hex(4)Fuc(1) % 1403.567321
HexNAc(3)Hex(5) % 1419.582239
HexNAc(3)Hex(6) % 1581.555059

Figure 34: Server *.txt file displayed in the Web Client

Click the  icon at top right to download the file and click **x** to close the embedded display and return to the original screen.

Properly formatted *.csv, *.pi, and *.arw files can be plotted as spectra/traces. To do so, click the blue file name of the *.csv file to display it as a text file. Then, check **View as spectrum** or **View as Trace** at top right to plot the data:

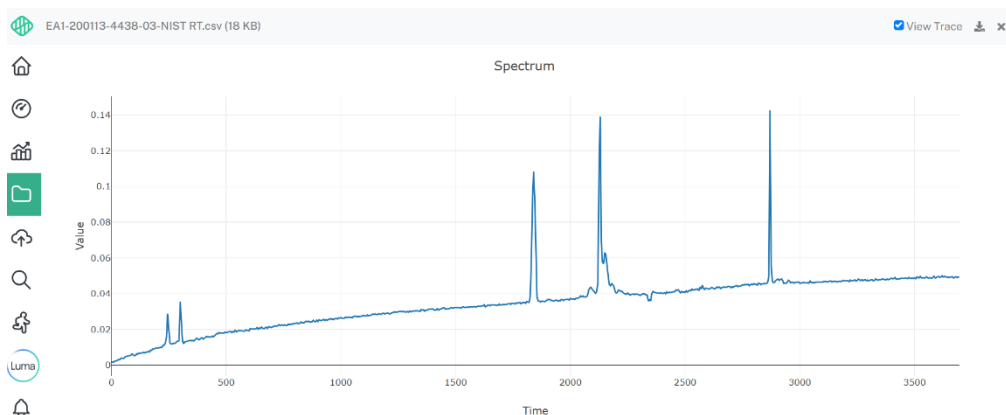




Figure 35: Server *.csv file displayed as a plot in the Web Client

Note: CORS must be enabled on the server storage to enable this feature. Refer to the platform-specific Byosphere Admin Manual for instructions to enable CORS.

File History

Users can see the File History for any file in a folder they have privileges to view. To view a File History, click the  button at the left of the file. The **File History** opens in the main panel:

Download File History Report for version 







Action	Version	Folder Name	File Alias	File Name	Changed By	Changed On	Change	Comment	Signature State
	1	_Users	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:39	Upload		
	2	_Users	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:39	Edit Metadata		
	3	Morgan V	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:50	Move		

Figure 36: File History

Action shows available actions. The  icon is a download function, displayed for every server analysis and file upload. This enables the User to download and view a file version that has been since replaced by another version. The  icon opens a report for that version of a project file. As mentioned in the [Web Reports](#) section above, each upload from Byosphere Byos Client with the **Generate a report** option checked have their own reports. The  icon displays the source files used to generate an analysis:

File References: 01Nov22_test_001.blgc  











Actions	File Name	ID	Version	Relation
 	NISTmAb_Control_MS2.raw.pacq	911	1	Analysis
	workflow.json	9633	1	Analysis

Figure 37: Analysis project File References table

The **File References** table includes the sample raw files used in the analysis, the assigned report template (if no report template is listed, the default report was used) and the workflow. Click the  icon to download a specific source file. Click the  icon to open the parent folder of a specific source file in the Browser. To return to the File History table, click the  button at top left. The  and  buttons at top right are described in the [Managing Tables](#) section.

Other File History header fields include **Version**, which lists the count of each file save. **Folder, Name** and **File Name** are described above. **Changed By** and **Changed On** display the user who made each change and the date and time of the change. **Change** lists the kind of change. Changes include Add, Edit, Delete, Restore, Create Content, Edit Content, or Upload. To return to the Files table, click the  button at top left. The  and  buttons at top right are described in the [Managing Tables](#) section.

Every Byosphere Document has a file history showing the file-level changes that have happened to that document. The File history page now allows the User to download the file history of a desired document as a text file and to select a version in the file by clicking the **Download File History Report** icon.

Download File History Report for version 3 


Action	Version	Folder Name	File Alias	File Name	Changed By	Changed On	Change	Comment	Signature State
	1	_Users	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:39	Upload		
	2	_Users	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:39	Edit Metadata		
	3	Morgan V	DN29	DN29.fasta	Morgan Vasas	2025-06-03 20:05:50	Move		

Figure 38: Download File History Report

Clicking the download icon for the File History Report for a legacy project will trigger an AuditLog job to generate the Byos Audit Trail for that project. After the job has completed, click the download icon again to download the File History Report.

```

Report Outline:
-----
1. File History
2. Byos Audit Log
3. File References

1. File History
-----
[Timestamp], Version, Change, Changed By, Folder Name, File Alias, File Name, Comment, Signature State, Metadata
[2021-05-17 17:52:43], 1, Analysis, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, , , "null"
[2022-04-11 17:44:22], 2, Upload, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, Re-uploading (same report) to test PR-8836#3, , ""
[2022-04-11 17:44:23], 3, Edit Metadata, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, , , ""
[2022-12-15 23:35:27], 4, Middle, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, ASDF, middle, ""
[2022-12-15 23:35:51], 5, Post, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, gggg, post, ""
[2022-12-15 23:36:06], 6, Restart, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, , , ""
[2022-12-20 19:08:02], 7, Middle, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, 1, middle, ""
[2022-12-20 19:08:23], 8, Post, Jim Houston, Byologic, 09315_E_SN_NIST_Guanidine_Pepsin_RC10, 09315_E_SN_NIST_Guanidine_Pepsin_RC10.blgc, t, post, ""

2. Byos Audit Log
-----
ID,Parent ID,Time,User,Operation

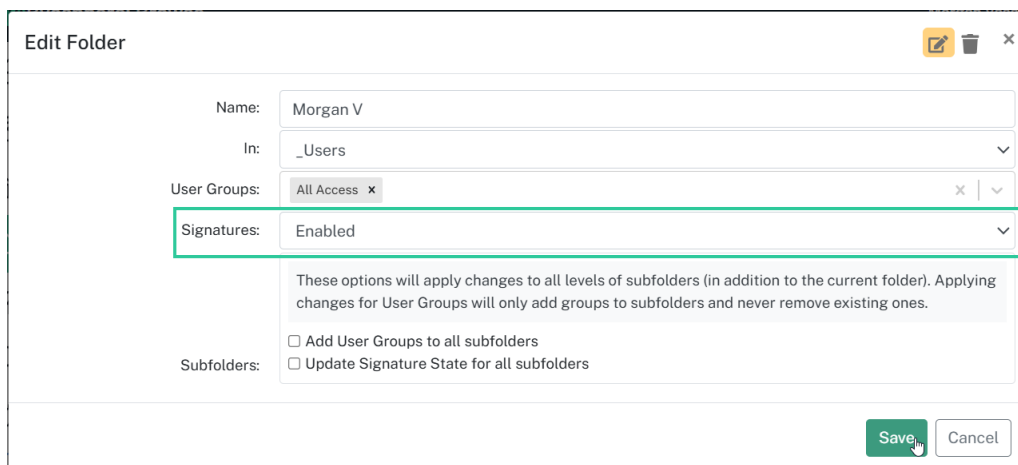
3. File References
-----
File Name, File ID, File Version, Relation
09315_E_SN_NIST_Guanidine_Pepsin.raw.pacq, 13125, 1, Analysis
cysteine58.byparms, 13124, 1, Analysis
workflow.json, 13961, 1, Analysis
  
```

Figure 39: Example File History Report

Signatures

When the Regulatory mode is enabled on the Byosphere system, Protein Metrics project files containing reports can be signed. Folders must have **Signatures** enabled for projects to be signed. Folders that are signature-enabled cannot be deleted or moved. Projects can only be signed by a user with File Editor privileges. Signing requires a login independent from the system login. Signed projects can often be moved to another state (by default, Approved) or returned to a previous or unsigned state (by default, Rejected). Some signature states (by default, Approved) cannot be reversed. Projects that have a signature state typically cannot be edited, moved, deleted, or updated with new versions.

To enable signatures for an added or edited folder, set **Signatures** to **Enabled**:



Edit Folder

Name: Morgan V

In: _Users

User Groups: All Access x

Signatures: Enabled

These options will apply changes to all levels of subfolders (in addition to the current folder). Applying changes for User Groups will only add groups to subfolders and never remove existing ones.

Subfolders: ☐ Add User Groups to all subfolders ☐ Update Signature State for all subfolders

Save Cancel

Figure 40: Enabling Signatures for a folder

Click **Add** or **Save** to enable Signatures for the added or edited folder. The name of the folder is identified as Signature-enabled by an asterisk (*) appended to the name:

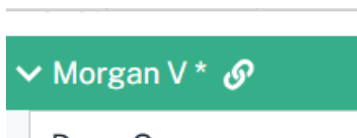


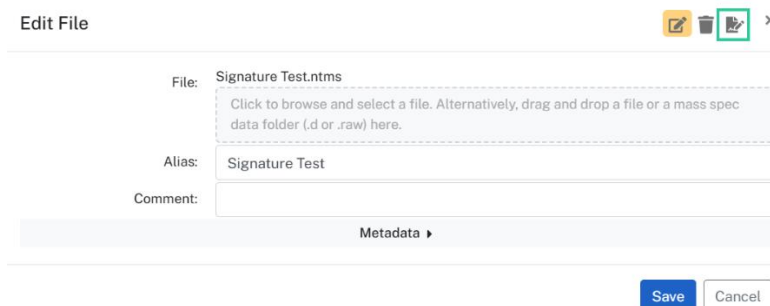


Figure 41: Names of folders that are Signature-enabled are marked with (*)

Signature-enabled folders can be edited or moved but not deleted. Once Signatures are enabled, project files containing reports can be signed by Users with File Editor privileges to that folder.

Initially, Byosphere with Regulatory mode enabled is configured with three signature states: unsigned, Signed and Approved. The initial configuration allows transitions between unsigned to Signed, Signed to unsigned, and Signed to Approved, but not Approved to Signed or unsigned. Byosphere administrators can edit the signature configuration to add or remove signature states and/or transitions. Likewise, administrators can edit states to allow signed documents to be edited, moved, or deleted. What follows is a description of the behavior of the initial signature configuration.

To sign a project with a report (which displays the  icon), click the  icon to edit the file:



Edit File

File: Signature Test.ntms

Click to browse and select a file. Alternatively, drag and drop a file or a mass spec data folder (.d or .raw) here.

Alias: Signature Test

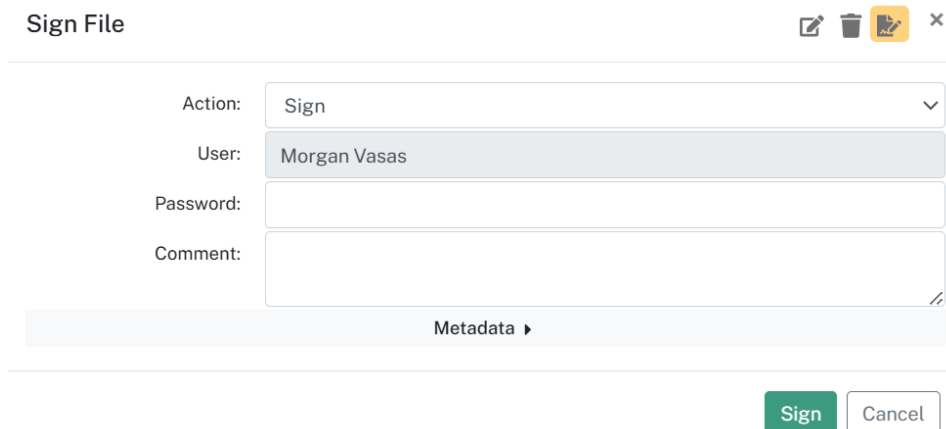
Comment:

Metadata ▶

Save Cancel

Figure 42: The Sign icon appears at top right of the Edit dialog

Click the  icon to open the **Sign File** dialog:



Sign File

Action: Sign

User: Morgan Vasas

Password:

Comment:

Metadata ▶

Sign Cancel

Figure 43: Sign File dialog

Enter the Byosphere **Password**, add a **Comment** as needed and click **Sign**.

Note: if SSO is enabled, the signature username and password will be managed by the identify provider.

The project will be identified as **Signed** in the **Signature State** in the Files table:







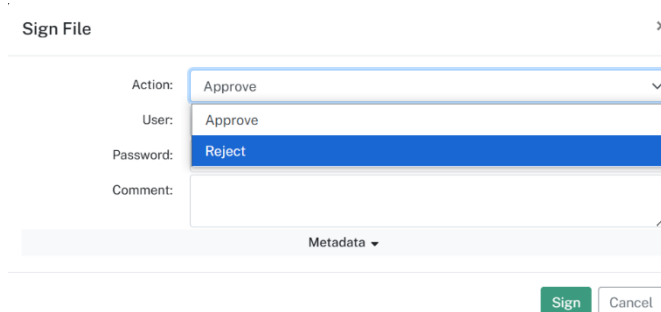
<input type="checkbox"/>	Actions	ID	File Alias ↓	File Name	Created By	Created On	Signature State
<input type="checkbox"/>	    	4242	Signature Test	Signature Test.ntms	Morgan Vasas	2025-06-04 20:16:29	Signed

Figure 44: Signed projects are identified in the Signature State column

The signed project cannot be edited, moved, deleted, or updated with a new version.

The signed file can set back to the unsigned state through the Reject action. To reject a signed file, click the  icon to open the Edit File dialog, click the  icon to open the **Sign File** dialog, and choose the Action **Reject**:



Sign File

Action: Approve

User: Approve

Password: Reject

Comment:



Metadata ▶

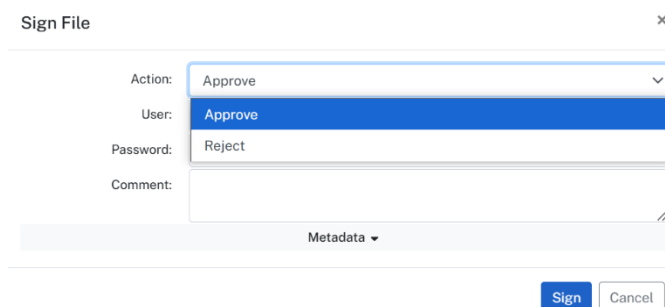
Sign Cancel

Figure 45: Rejecting (un-signing) a signed project

Enter the Byosphere password, add a required Comment and click **Sign**. The **Signature State** for the project will be blank. The file can be modified as an ordinary file.

Signed projects can also be approved. Like signed projects, approved projects cannot be edited, moved, deleted, or updated with a new version. Unlike signed projects, approved projects cannot be reverted to another signature state.

To approve a signed file, click the  icon to open the Edit File dialog, click the  icon to open the **Sign File** dialog, and choose the Action **Approve**:



The 'Sign File' dialog box is shown. It has a title bar 'Sign File' with a close button. Inside, there are four fields: 'Action:', 'User:', 'Password:', and 'Comment:'. The 'Action:' dropdown is open, showing 'Approve' (selected) and 'Reject'. The 'User:' dropdown is also open, showing 'Approve' (selected) and 'Reject'. The 'Password:' field is empty. The 'Comment:' field is empty. At the bottom right, there are 'Sign' and 'Cancel' buttons. A 'Metadata' dropdown is visible at the bottom center.

Figure 46: Approving a signed project

Enter the Byosphere password, add an optional Comment and click **Sign**. The project will be identified as **Approved** in the **Signature State** in the Files table:





<input type="checkbox"/>	Actions	ID	File Alias ↓	File Name	Created By	Created On	Signature State
<input type="checkbox"/>	   	4242	Signature Test	Signature Test.ntms	Morgan Vasas	2025-06-04 20:16:29	Approved

Figure 47: Approved projects are identified in the Signature State column

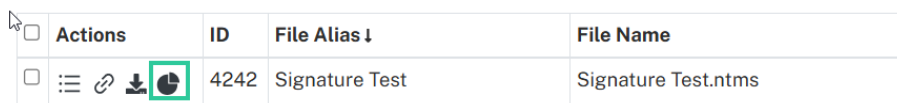
File Links

The link icons  to the left of files allow users to copy the file address so that it can be shared with other users. After logging in, the Byosphere Web Client will open to the Search page with the linked file as the search result. **Note:** the second user must be in a User Group assigned to the folder that contains that file to successfully search for it from a link. **Note:** file links are only supported for secured https web addresses.

Web Reports

Web reports closely resemble Protein Metrics project reports generated on the desktop. Web reports are generated for server project files created on Byosphere Byos Client. They can be generated in three ways: when creating a Byosphere server analysis, when rerunning a report job, or when uploading a Protein Metrics project file with **Generate Report** checked. For instructions on generating web reports, see **Byosphere 02 Byos Client Manual.pdf**. Web reports are viewed for project files in the Byosphere Web Client in the Browser page Files table and File History table, and in the Search page Results table. All users who can view project files can also view web reports for those files.

To view the web report for a project file, click the  button in the **Actions** column for that project.







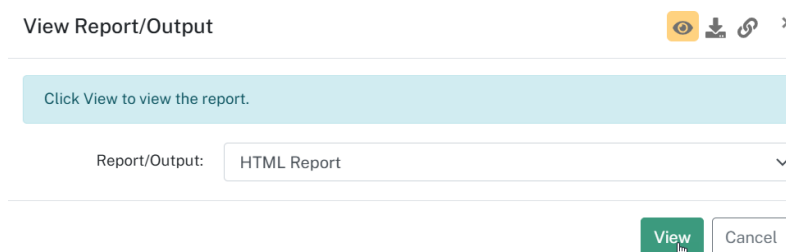




Actions	ID	File Alias ↓	File Name
   	4242	Signature Test	Signature Test.ntms

Figure 48: Protein Metrics project with web report icon highlighted

The **View Report** dialog opens:



View Report/Output    

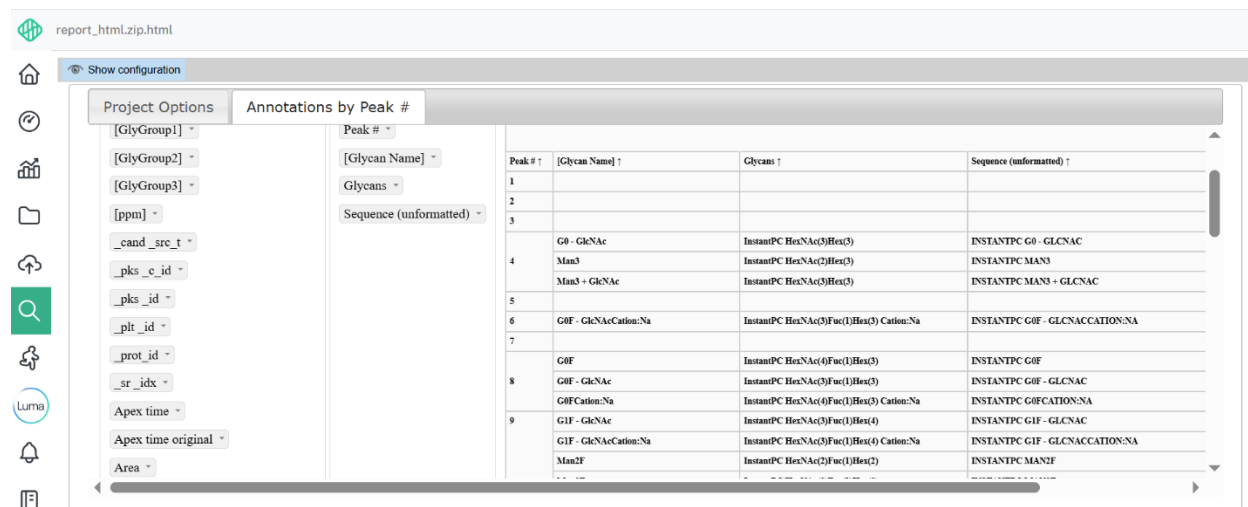
Click View to view the report.

Report/Output: HTML Report

View Cancel

Figure 49: View Report dialog

Select as Report Type **HTML Report** or **PDF Report** and click **View**, and the web report opens in an embedded window:



report_html.zip.html

Show configuration

Project Options		Annotations by Peak #	
[GlyGroup1] -	Peak # -	[Glycan Name] -	
[GlyGroup2] -		Glycans -	
[GlyGroup3] -		Sequence (unformatted) -	
[ppm] -			
_cand_src_t -			
_pks_c_id -			
_pks_id -			
_plt_id -			
_prot_id -			
_sr_idx -			
Apex time -			
Apex time original -			
Area -			

Peak # ↑	[Glycan Name] ↑	Glycans ↑	Sequence (unformatted) ↑
1			
2			
3			
4	G0 - GlcNAc	InstantPC HexNAc(3)Hex(3)	INSTANTPC G0 - GLCNAC
	Man3	InstantPC HexNAc(2)Hex(3)	INSTANTPC MAN3
	Man3 + GlcNAc	InstantPC HexNAc(3)Hex(3)	INSTANTPC MAN3 + GLCNAC
5			
6	G0F - GlcNAcCation:Na	InstantPC HexNAc(3)Fuc(1)Hex(3) Cation:Na	INSTANTPC G0F - GLCNACCACTION:NA
7			
8	G0F - GlcNAc	InstantPC HexNAc(3)Fuc(1)Hex(3)	INSTANTPC G0F
	G0FCation:Na	InstantPC HexNAc(3)Fuc(1)Hex(3) Cation:Na	INSTANTPC G0F - GLCNAC
	G0FCation:Na	InstantPC HexNAc(4)Fuc(1)Hex(3) Cation:Na	INSTANTPC G0FCATION:NA
9	G1F - GlcNAc	InstantPC HexNAc(3)Fuc(1)Hex(4)	INSTANTPC G1F - GLCNAC
	G1F - GlcNAcCation:Na	InstantPC HexNAc(3)Fuc(1)Hex(4) Cation:Na	INSTANTPC G1F - GLCNACCACTION:NA
	Man2F	InstantPC HexNAc(2)Fuc(1)Hex(2)	INSTANTPC MAN2F

Figure 50: Example web HTML report

The web page that displays the report contains sub-tabs corresponding to the report template (*.rpt.c file) assigned to the workflow when the project was generated or uploaded through the Byosphere Byos Client. If no report template was assigned to the analysis workflow, the default report associated with the workflow is used. To close the embedded report, click the **X** at top right and the Web Client returns to the original window.

To display the fields available for the project, select **Show Configuration** above the tabs:

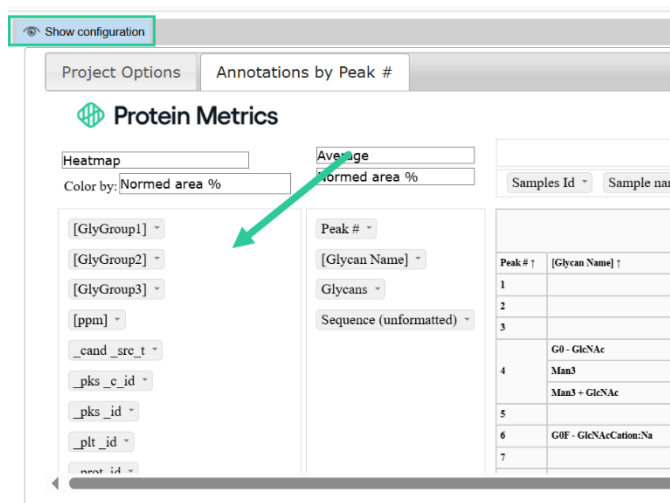



Figure 51: Web HTML report with Show Configuration selected

When Show Configuration is enabled, pivot table displays can be edited and filtered as they are in Byos desktop reports. To edit a pivot table display, drag unused fields from the first column into the center column to create new row headers or to the top of the table to create new column headers. To filter content by field values, click the down arrow for a row header, column header or unused field, and select or unselect the available field values.

A PDF version of a report can be viewed in the web window or downloaded as a *.pdf file (see the next section). To view a PDF report in the Web Client, click the  icon, select **PDF Report** as the **Report Type**, and click **View**:

Protein Metrics

name: DN Reduced_id_6329, version: 2, 2025-04-02T19:51:55.188Z.pdf

Summary

User: Morgan Voss

Date: Wed Apr 02 2025 19:51:45 GMT+0000 (Coordinated Universal Time)

Samples:

Sample No.	Sample Name	MS File or Trace File	MS/MS	Doc ID	Trace Description	Glycosylation (using)
1	DN29_red	DN29_red.raw.pacq	N/A	1512	-	Degly
2	DN29_reddeglyc	DN29_reddeglyc.raw.pacq	N/A	1513	-	
3	DN32_red	DN32_red.raw.pacq	N/A	1514	-	Degly
4	DN32_reddeglyc	DN32_reddeglyc.raw.pacq	N/A	1515	-	

Lock Mass is not enabled.

Sample Status Review:

Sample Name	Sample No.	Desired	Undesired	Unexpected	Status	Comment	Validate
DN29_red	1	1 of 1	0 of 0	13	Review	-	-
DN29_reddeglyc	2	1 of 1	0 of 0	17	Review	-	-
DN32_red	3	0 of 0	0 of 0	20	Review	-	-
DN32_reddeglyc	4	1 of 1	0 of 0	19	Review	-	-

Trace peaks table:

Sample No.	Sample Name	Peak No.	Time Start	Time End	Deconvolution Preset	Peak Comment	Apex Time (TIC)	Area (TIC)	Normed Area % (TIC)
1	DN29_red	1	3	4.5	Reduced		3.59	7.87e+7	-
2	DN29_reddeglyc	1	3	4.5	Reduced		3.63	8.071e+7	47.83
3	DN32_red	1	3	4.5	Reduced		3.57	1.294e+8	70.62
4	DN32_reddeglyc	1	3	4.5	Reduced		3.76	4.629e+7	50.95


Deconvolution presets:

Preset name: Reduced

Ranges

m/z Range	800 - 6000
Mass range (Da)	10000 - 60000
Consecutive Charges	Custom (2)

Figure 52: Example web PDF report

To download the inserted PDF report, click the  icon at top right. To close the inserted report, click the **x** at top right and the Web Client returns to the original window.



Reports viewed from a project in the File table are from the last version of that project. To view reports for previous versions of that project, open the File History.

←
File History: AD906_HLAG_Heterodimer_Try_RP11_final
⌵ ⚙

Action	Version	Folder	Alias	File Name	Changed By	Changed On	Change	Comment
	1	Janssen	AD906_HLAG_Heterodimer_Try_RP11_reprocessed	AD906_HLAG_Heterodimer_Try_RP11_reprocessed.blgc	John Jones	2020-05-27 19:38:40	Analysis	
	2	Janssen	AD906_HLAG_Heterodimer_Try_RP11_reprocessed.blgc	AD906_HLAG_Heterodimer_Try_RP11_reprocessed.blgc	John Jones	2020-05-27 20:08:49	Upload	
	3	Janssen	AD906_HLAG_Heterodimer_Try_RP11_final	AD906_HLAG_Heterodimer_Try_RP11_reprocessed.blgc	John Jones	2020-06-09 20:04:01	Edit	

Figure 53: Reports are available for previous project versions

Web reports are available for server analysis reports and for all subsequent versions uploaded from Byosphere Byos Client with the **Generate a report** option checked. Web reports are not available for project versions resulting Byosphere Byos Client from web edits, file moves or restores from deletion because the project content, and web report, have not changed. The last available web report is valid for those project versions.

To copy the web report URL to send to another Byosphere user, click the  icon to open the View Report dialog, and click the  icon. In the **Copy Link** dialog, click **Copy Link**:

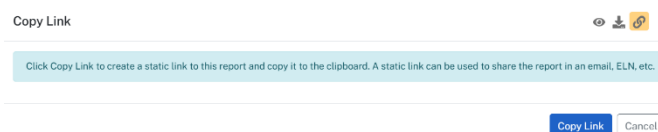




Figure 54: Copy Link for a report

Web Report Downloads

To download a web report, click the  icon for the project to open the View Report dialog and then click the  button at the top right. The dialog changes to **Download Report**:

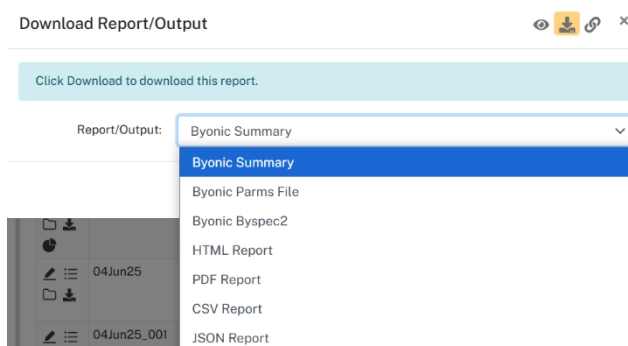


Figure 55: Download Report dialog

Select report type and click **Download** to export the report to the default download directory. The CSV Report option downloads a zipped file containing a *.csv file for each table tab and a *.csv file for the flat table for the primary table (for example, Elution peaks or Peptides).

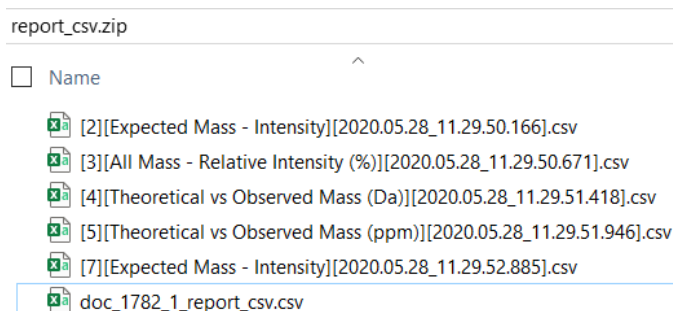


Figure 56: Contents of an example CSV Report zip file

The PDF Report option downloads a single, multi-page pdf file for the entire report:

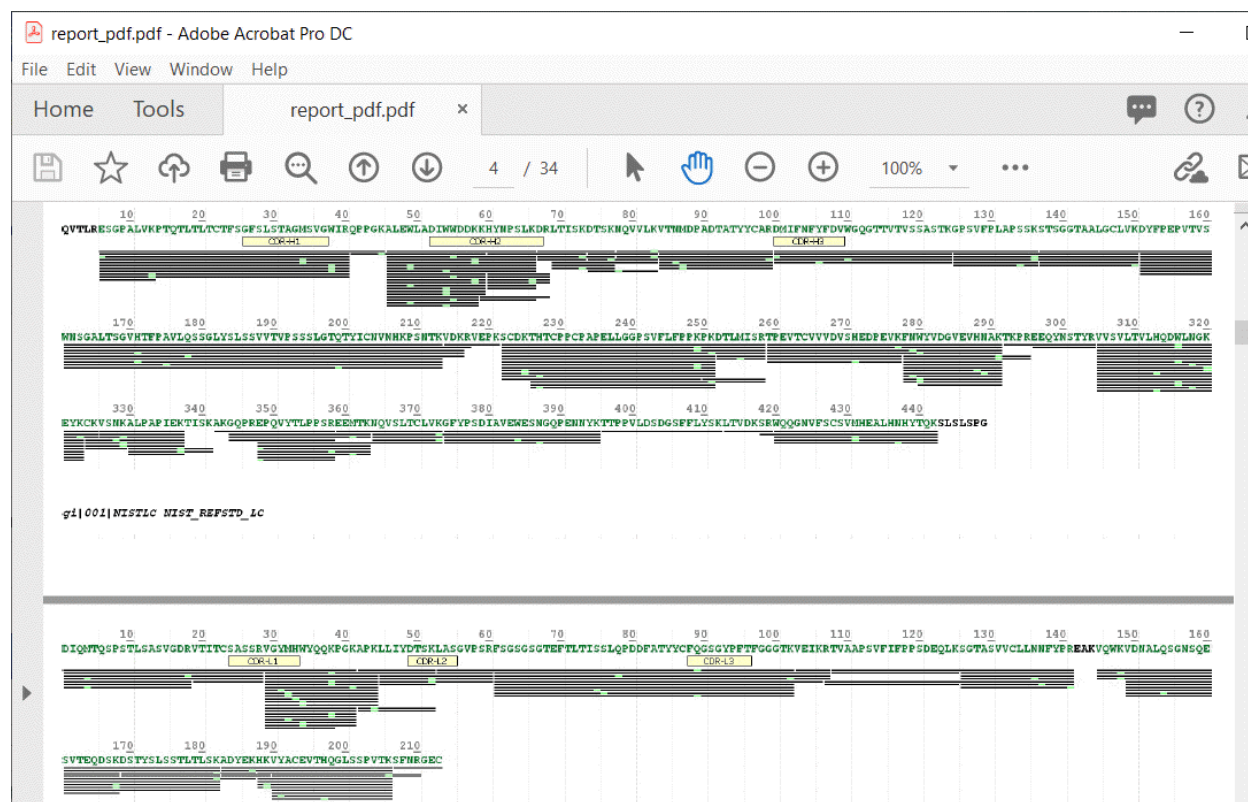


Figure 57: PDF report

To return from the Download Report dialog to the View Report dialog, click the  button. **Note:** Preview projects (extension *.zip) do not download as *.csv files or *.pdf reports.

JSON Reports are added for *all* projects starting in Byosphere v5.0 (example *.ntms):

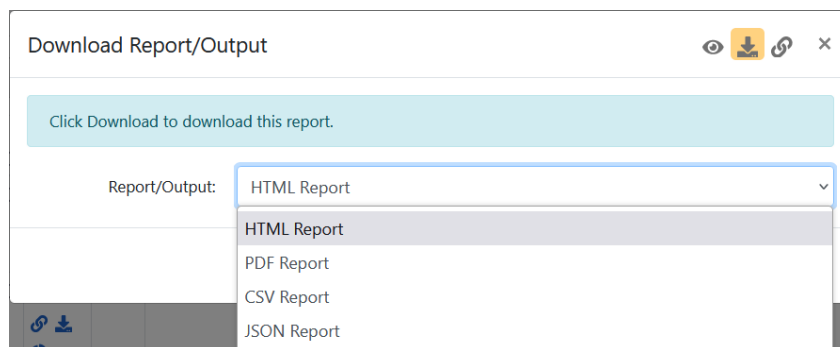


Figure 58: Available Reports

*.bmap and *.blgc projects created in 5.0:

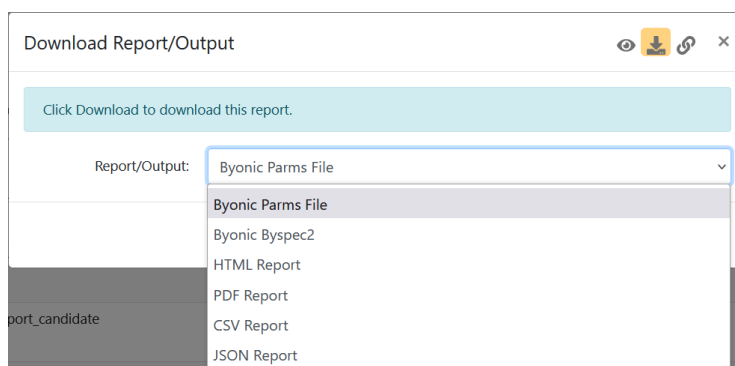


Figure 59: *.bmap and .blgc projects

5.0 Preview project (*.zip) download options:

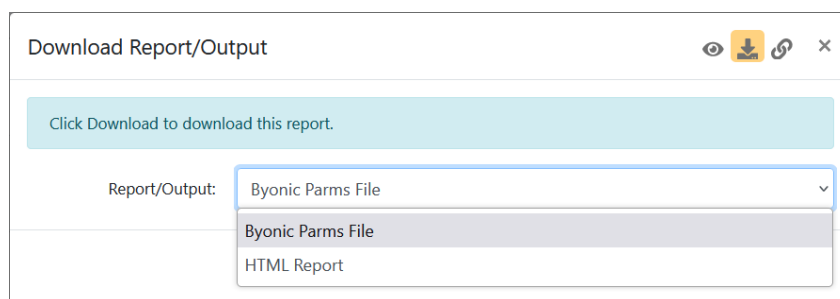


Figure 60: *.zip download options

Search Page

The **Search** page filters all files and folders that the user has privileges to view using entered search strings.

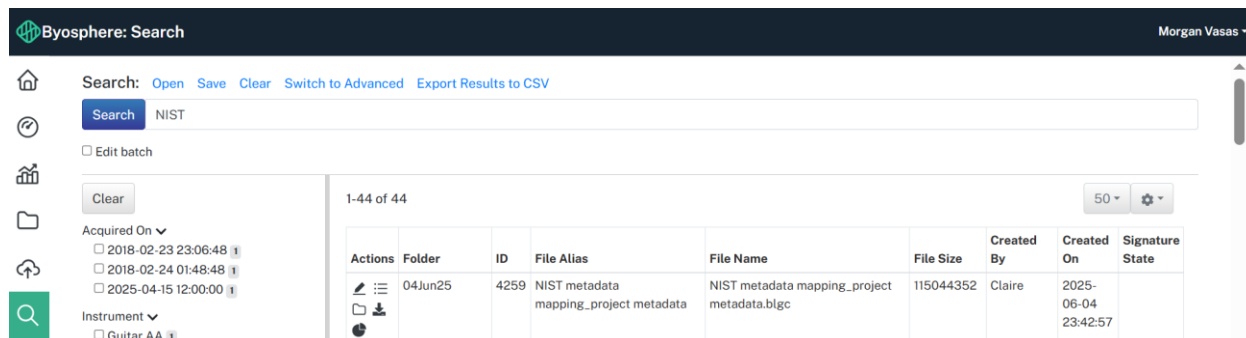


Figure 61: Search page

The Search page opens in the Basic Search mode with a search entry box, and additional options to open a saved search query, save a search query, clear the search query, or switch to Advanced Search mode:

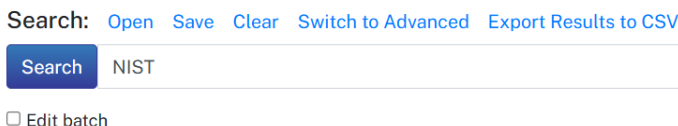


Figure 62: Search options

Basic Search

In a Basic Search, the entered text string is searched across all the available fields in the File and Folder tables. To search for a text string, enter the string in the box and click the **Search** button at left. The file results appear below the search entry box along with optional Metadata filters to the left:

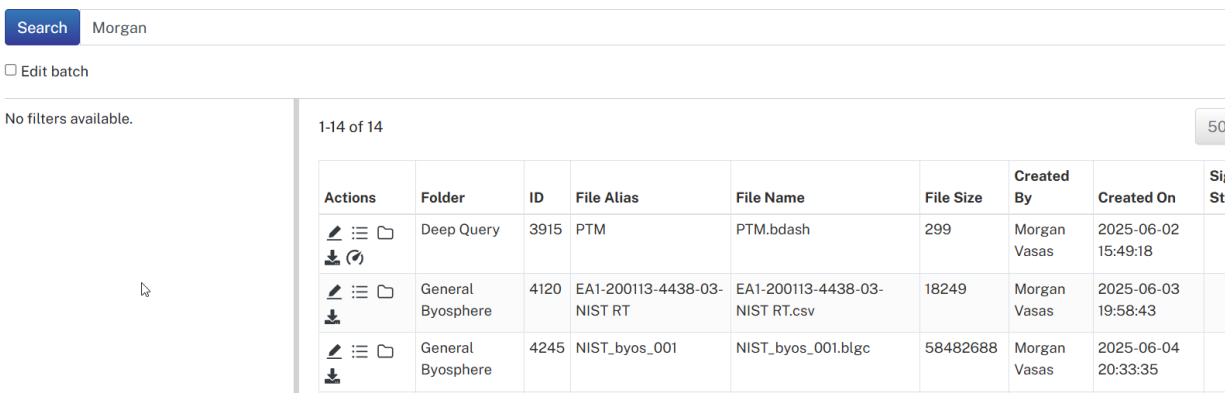


Figure 63: Search results of all records containing the entered string in any field

If the search string matches a folder name, all the fields under that folder are included in the search results.

To filter the search results by available Metadata field values, check all values below the fields that apply. Only those records that match each of the conditions are displayed in the table:

Acquired On ▼

- ☐ 2018-02-23 23:06:48 9
- ☐ 2018-02-24 01:48:48 9
- ☐ 2018-02-27 12:35:44 2
- ☐ 2018-02-27 15:17:36 3
- ☐ 2023-06-26 16:13:54 1
- ☐ 2025-04-15 12:00:00 1

Assay ▼

- ☐ Example Assay 1 1
- ☐ Example Assay 2 1
- ☐ Example MetaData for Assay Field 1

Instrument ▼

- ☐ 10136 Peptide 1
- ☐ Custom Peptide 1
- ☐ Guitar AA 1

Figure 64: Metadata options to filter on are based upon available metadata in initial search results

The **Clear** button above the Metadata fields unchecks the values to show all records that contain the search string. To clear the entire query to begin again, click **Clear** above the entry box and click **Clear** again to confirm the action.

To search by file ID, enter the text “file:” before the ID number:

Search: [Open](#) [Save](#) [Clear](#) [Switch to Advanced](#) [Export Results to CSV](#)

file:3914

☐ Edit batch

No filters available.

Actions	ID	File Alias	File Name	File Size	Created By	Created On	Signature State
<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;"> </div> <div> <div style="background-color: #f0f0f0; padding: 2px 5px; display: inline-block;">Morgan V</div> <div style="background-color: #f0f0f0; padding: 2px 5px; display: inline-block;">3914</div> <div style="background-color: #f0f0f0; padding: 2px 5px; display: inline-block;">PTM Project</div> </div> </div>		PTM Project	PTM Project.bdash	68588	Morgan Vasas	2025-06-02 15:23:51	

1-1 of 1
50

Figure 65: Search by File ID

The **Edit Batch** checkbox, when checked, filters search results to only files which the user has edit access for.

Search: [Open](#) [Save](#) [Clear](#) [Switch to Advanced](#) [Export Results to CSV](#)

file:3914

☒ Edit batch

Figure 66: Edit Batch

When **Edit Batch** is checked, the user will see the following options within the Search Page:



Figure 67: Edit Batch options

These options will be grayed out until the user checks at least one row from the search results. The **Delete** and **Move** options behave in the same way as the corresponding buttons for the Files table in the File Browser. The **Edit Metadata** option, if clicked, allows the user to check multiple files and edit the associated Metadata in a batch rather than one at a time.

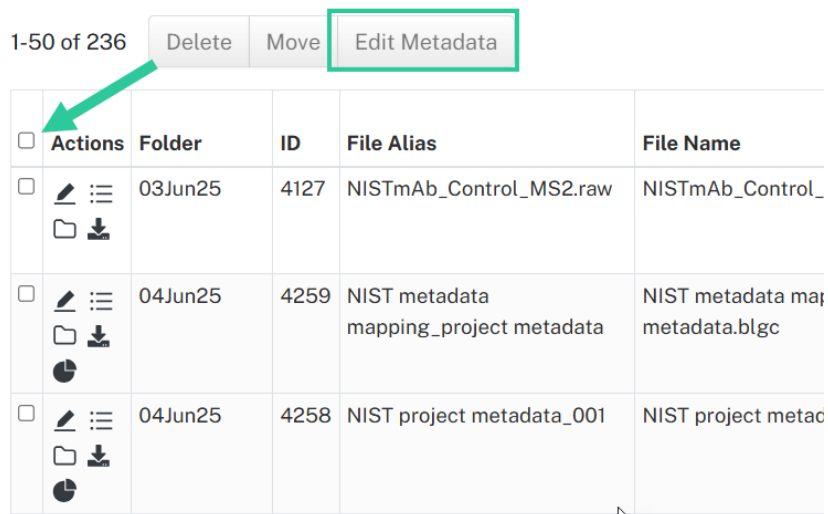


Figure 68: Edit Metadata

Advanced Search

The Advanced Search mode allow users to search values by specific fields using a variety of operators, as well as the use of Boolean logic between search query lines. Unlike a Basic Search, which searches all fields for a given textual term, an Advanced Search searches specific fields for specific terms in query combinations. To do an Advanced Search, click **Switch to Advanced** above the query line. A query builder opens:

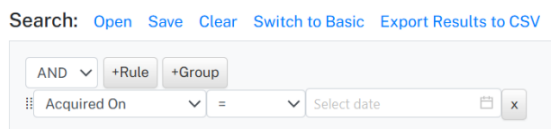


Figure 69: Advanced Search query builder

The Boolean options **And** or **Or** applies between subsequent query lines. Click **+Rule** to add a new query line then click the dropdown to select the field to search:

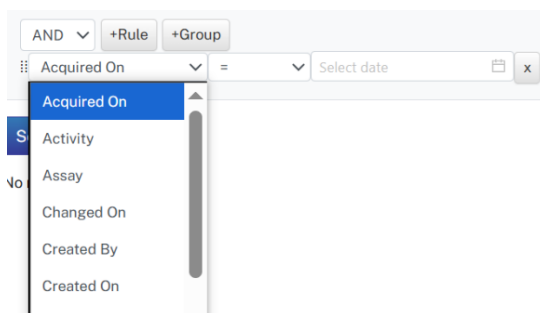


Figure 70: Click +Rule to add a query line and choose a field

In the second dropdown, select the desired query operator:

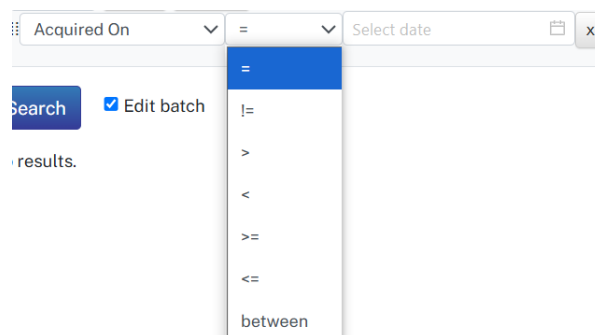


Figure 71: Choose a query operator

Finally, add the field value to search in the last column. If the query is complete, click **Search**. To search across multiple fields, choose the Boolean operator And or Or, click +Rule and populate the new query line:

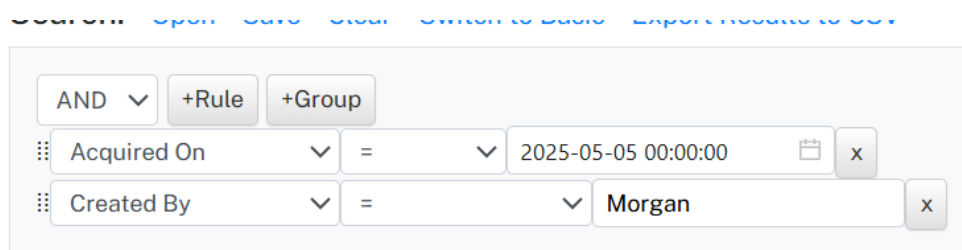


Figure 72: Advanced Search with multiple query lines

Advanced Searches can also include nested query lines with the **+Group** button:

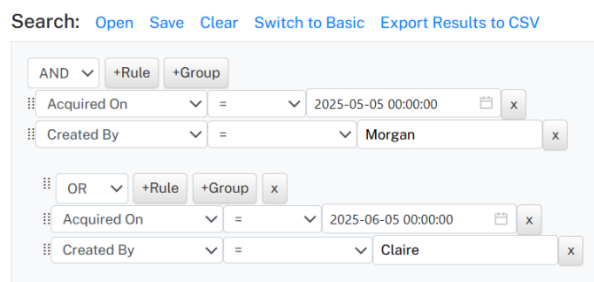
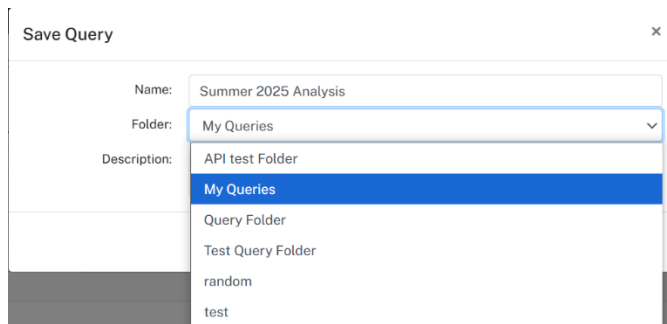


Figure 73: Advanced Search using query groups

Save Search Query

Both Basic Search and Advanced Search queries can be saved for future use. To save a search query, click **Save** at the top. The **Save Query** dialog opens:



The 'Save Query' dialog box contains the following fields and options:

- Name:** Summer 2025 Analysis
- Folder:** A dropdown menu with 'My Queries' selected.
- Description:** API test Folder

The folder dropdown menu is open, showing the following options:

- My Queries (highlighted in blue)
- Query Folder
- Test Query Folder
- random
- test


Figure 74: Save query

Enter a unique query name and select a query folder. The **My Queries** folder is only visible to that User. The other query folders are created by the Administrator and their queries are visible to all users who have privileges to that folder. Add an optional description and click **Save** to save the query.

Open Search Query

After Basic Search and Advanced Search queries are saved, they can be opened for searching in later sessions. To access a saved query, click **Open**. A table of the queries available to that user is displayed:



Open & manage queries:  




Action	Folder Name	Name	Type	Description	Created By	Created On
 	My Queries	Quick check	advanced		Morgan Vasas	2025-06-05 14:53:33



Figure 75: Click Open to view saved queries



Click the  icon to the left of a query to open that query for searching.

Search Result Actions

The checkbox and icons in the **Actions** column allow the User to perform a number of actions on search result files that would otherwise be performed in the Browser page:

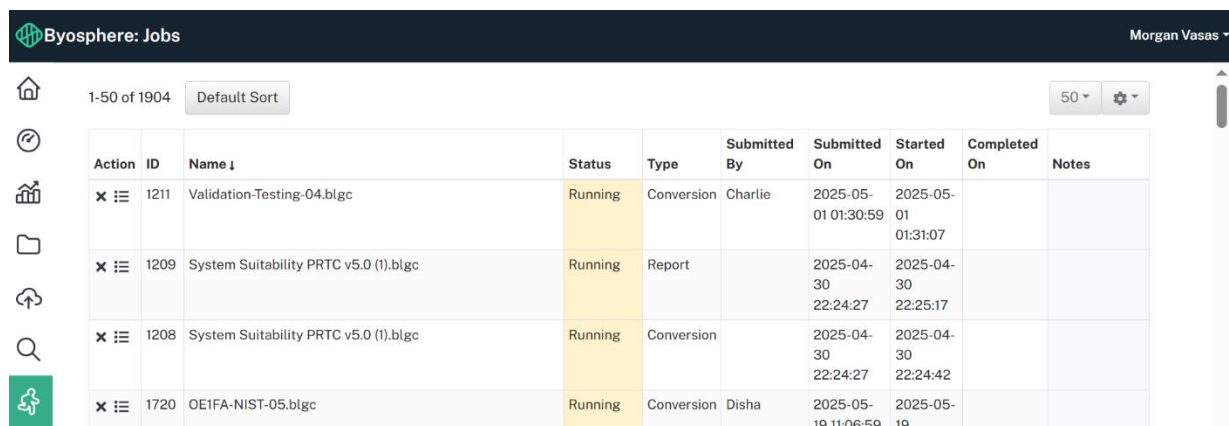
- To delete one or more result files, check the boxes for those file rows, click **Delete** and click **Delete** again to confirm the action.
- To move one or more result files, check the boxes for those file rows, click **Move**, choose the destination folder for the move, and click **Move**.
- To edit a file, click  for the file record, make the desired file changes and click **Save**.
- To view the File History of a result file, click  to open the File History table.
- To view the file in the context of other files in the same folder, click  to open the file's folder in the Browser page.

- To download a file, click  for the file record.
- To view a web report for the result file, click  to open the web report in a new tab.

The  and  buttons at top right are described in the [Managing Tables](#) section.

Jobs Page

The Jobs page displays the status of the server analysis and web report Job queue.



The screenshot shows the 'Byosphere: Jobs' interface. At the top, there's a header with the Byosphere logo and the user name 'Morgan Vasas'. Below the header, there's a sidebar with navigation icons. The main area displays a table of jobs. The table has columns: Action, ID, Name, Status, Type, Submitted By, Submitted On, Started On, Completed On, and Notes. The first four rows are visible, all with a 'Running' status. The first row is 'Validation-Testing-04.blgc' submitted by Charlie. The second row is 'System Suitability PRTC v5.0 (1).blgc' submitted by Charlie. The third row is 'System Suitability PRTC v5.0 (1).blgc' submitted by Charlie. The fourth row is 'OE1FA-NIST-05.blgc' submitted by Disha.






Action	ID	Name	Status	Type	Submitted By	Submitted On	Started On	Completed On	Notes
	1211	Validation-Testing-04.blgc	Running	Conversion	Charlie	2025-05-01 01:30:59	2025-05-01 01:31:07		
	1209	System Suitability PRTC v5.0 (1).blgc	Running	Report		2025-04-30 22:24:27	2025-04-30 22:25:17		
	1208	System Suitability PRTC v5.0 (1).blgc	Running	Conversion		2025-04-30 22:24:27	2025-04-30 22:24:42		
	1720	OE1FA-NIST-05.blgc	Running	Conversion	Disha	2025-05-19 11:06:59	2025-05-19		

Figure 76: Jobs page

Users can view all Jobs they have submitted, all Jobs in the Running or Queued state that all Users have submitted, and all Jobs in folders they have privileges to view:

By viewing all queued Jobs and the current running Job, users have a sense of when their Job may begin.

Job types include **Analysis** for projects submitted for creation on the server, **Report** for a report generated for a project that already has an analysis completed, **Conversion** for jobs that parse project files to load project data into tables for Deep Query dashboard searching, **AuditLog** for jobs that generate Byos Audit trails as part of File History Reports for projects, and **Pacq** for MS files and folders uploaded through the Web Client. **Preview** jobs and multi-doc analyses, using special Preview and Multi-doc workflows, are also supported.



The diagram shows a vertical list of job status types, each with a colored box and a label. The status types are: Running (yellow box), Queued (light blue box), Queued (light blue box), Completed (green box), and Failed (red box). The labels are partially visible as 'Ar'.

Status	Type
Running	Ar
Queued	Re
Queued	Ar
Completed	Ar
Failed	Ar

Figure 77: Various job status types

Jobs are ordered by Status and then by ID. The Status of current running Jobs are colored yellow. Queued Jobs (colored white) run after the current Job in the order they were submitted unless an Administrator increases the priority of a later Job. Jobs that completed successfully are colored green and those that failed are colored red. Canceled Jobs are colored gray.



Completed, failed, and canceled running Jobs generate log files named for the Job ID. These job logs can be downloaded by a click on the  button. Alternatively, click on the file name for a completed or failed job:



Figure 78: File name link to view the Job log


The link (identified by the blue font) opens the job log for the project in the Web Client window:

Click  at top right to download the job log to a text file and click **x** to close the job log and return to the Jobs page. The log files for failed Jobs can be useful to help identify why the analysis or report failed.

Users can cancel running and queued Jobs they have created. Super users can cancel Jobs generated by any user. To cancel a running and queued job, click the **x** button in the **Action** column to left of the Job:

x 	1205	MPQ of BSA_141.mpq	Running	Analysis
--	------	--------------------	---------	----------

Figure 79: Users can cancel their queued and running jobs by clicking the x button

Users can access the project from a completed Analysis or Report Job using the  button in the **Action** column to the left of a completed Job:




 	2026	ADC_4_samples_for_dashboard_creation.ntms
---	------	---

Figure 80: The eye button accesses the completed project file

When  is clicked, a file search for the completed project is generated:

Search: [Open](#) [Save](#) [Clear](#) [Switch to Advanced](#) [Export Results to CSV](#)

file:4348

☐ Edit batch

No filters available.

1-1 of 1



Actions	Folder	ID	File Alias	File Name
 	PR-797_20	4348	ADC_4_samples_for_dashboard_creation	ADC_4_samples_for_dashboard_creation.ntms

Figure 81: The project from the completed job as a search result

From the search result, the project report can be viewed or the folder containing the project can be opened.

At the top of the Jobs page, the total Job count is shown on the top left and the number of Jobs displayed per page can be set on the top right:





Figure 82: Job counts and counts displayed per page

To page through lists of earlier Jobs, click the page numbers at bottom right:





Figure 83: Click Jobs page numbers to view earlier jobs

The  icon opens a view of the **Job History** for each row.




Job History: 1895












Version	Name	Type	Status	Priority	Changed By	Changed On	Change	Notes
1	NISTmAb_Control_MS1.raw	Pacq	Submitted	3	Winnie	2025-05-30 16:32:17	Add	
2	NISTmAb_Control_MS1.raw	Pacq	Queued	3	Winnie	2025-05-30 16:32:17	Edit	
3	NISTmAb_Control_MS1.raw	Pacq	Completed	3	Test-API-user_edited	2025-05-30 16:33:20	Edit	

Figure 84: Job History



The  button at top right is described in the [Managing Tables](#) section.

Notifications Page

The Notifications page displays a table of the user’s notifications, such as completed or pending jobs.



Notifications



ID	Time Sent	Notification
638	2025-06-04 20:20:05	Job Completed: Job #1981, Signature Test.ntms, has completed successfully. To view the results, click here .
637	2025-06-04 20:18:17	Job Completed: Job #1979, Signature Test.ntms, has completed successfully. To view the results, click here .
636	2025-06-04 19:42:56	Job Completed: Job #1977, water signature testing.ntms, has completed successfully. To view the results, click here .
627	2025-06-03 20:08:38	Report PDF for web analysis (id: 4122) has been created: click to download
626	2025-06-03 18:28:15	Job Completed: Job #1951, 40-mer MSMS 14CS 14CE.d.tar, has completed successfully. To view the results, click here .
623	2025-06-02 15:12:27	Report PDF for web analysis (id: 3913) has been created: click to download
622	2025-06-02 15:09:03	Report PDF for web analysis (id: 961) has been created: click to download

Figure 85: Notifications page

The table will be blank if the user has no new notifications. When the user has a new notification, the icon changes to display the notification count:



Figure 86: Notifications page icon with notification

Click the Notifications page icon to display a table of new notifications:

Notifications T ⚙

ID	Time Sent	Notification
674	2025-06-05 15:58:33	Job Completed: Job #2038, Intacttest.ntms, has completed successfully. To view the results, click here .

Figure 87: Notification of a completed job


To see the job run results, click the blue link **here** at the end of the notification. For a completed job, the Search page will open with the completed project as a search result.

The Notification for a failed job contains a different link:

Notifications F ⚙

ID ↑↓	Notification ↑↓
1323	Job Failed: Job #2647, AD7_R34-RC11.blgc, has failed. To better understand why your job has failed, you can download the associated log by going to the jobs page . If the failure is not clear, please contact customer support.

Figure 88: Notification of a failed job

The link from a failed job opens the Jobs page. From there, the user can click the  icon to the left of the failed job to download the job log. This log is helpful to determine why the analysis failed:

Virtual Client Page

The Byosphere Web Client supports the hosting of **Byosphere Virtual Client** remote instances of Byosphere Byos for extremely fast performance when opening large projects with large sample files. The Virtual Client instances reside on the Byosphere server host, enabling direct contact over a very fast network. The instances automatically shut down upon logout or timeout to save hosting costs. Each user account is assigned an instance, which persists from their last session when they login again.

After Byosphere Virtual Client is configured on the server and activated by a Byosphere Administrator, a Virtual Client page icon is displayed in the navigation panel:




Figure 89: Virtual Client icon to open a hosted image of Byosphere Byos

When the Virtual Client icon page is opened, a hosted Virtual Client instance of Byosphere Byos opens in the Web Client window:



Figure 90: Byosphere Byos image hosted on the server but available in the Web Client

In addition, project files in the Files tables in the Browser or Search pages can be opened directly into the Virtual Client window by clicking the  icon for that project file:






<div> <div>Add</div> <div>Delete</div> <div>Move</div> </div>				
<input type="checkbox"/>	Actions	ID ↑↓	File Alias ↑↓	File Name ↑↓
<input type="checkbox"/>	    	180	Big Project-1 sample	Big Project-1 sample.ntms

Figure 91: Virtual Client icon to open project files directly in the Virtual Client window

The project is opened in the Virtual Client window, optionally with the downloaded sample files:



Figure 92: Server project opened in the Virtual Client window1

The download performance will reflect the network speed and proximity of the Byosphere host machine (where the image is located) to the Byosphere server.

Note: The remote Virtual Client does not currently allow access to local desktop files. Therefore, functions that involve local file access, such as **Upload** and **Download**, have been removed:

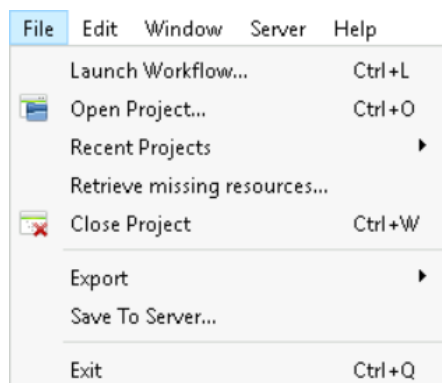


Figure 93: File menus for Virtual Client do not include local file access

The Virtual Client feature is best suited for downloading projects with their sample files, modifying the projects, and saving them again to the server, all with greatly enhanced performance.

Note: Work on projects that is not saved is persisted between sessions. However, if an administrator replaces the Virtual Client image for any updates, the working image will be replaced with a new one, and all unsaved work will be lost. Be sure to save any critical work to the server between sessions.

Managing Tables

The Files table, File History table, Folder History table, Search Results table and Jobs table can all be sorted and filtered by column. Individual table columns can be hidden or restored. The behavior for all tables is the same.

Sort by Column

Tables can be sorted by each column, descending or ascending. To sort a column descending, click the pair of arrows behind the column header. The down arrow is displayed in black, and the table is sorted by those column values in descending order:






<input type="checkbox"/> Actions	ID 	File Alias	File Name	Created By	Created On	Signature State
<input type="checkbox"/>   	739	Toggle SortBy-chains-minimized.msfaux2	Intact-two-light-chains-minimized.msfaux2.pacq	Nirav bhatt	2024-06-10 07:04:44	

Figure 94: Files table sorted by ID, descending


To sort ascending, click the column header a second time. The up arrow is displayed in black and the table is sorted by those column values in ascending order.

Filter by Column


Tables can be filtered by each column for entered text. To filter the values in a column, click the  button. Entry boxes appear below the column headers. Enter the value to filter in the box below the appropriate header and only the rows that containing the value are displayed:

File Alias
<input type="text" value="Intact"/>
2024-11-26-Intact-two-light-chains-minimized.msfaux2
Intact-two-light-chains-minimized.msfaux2
Intact-two-light-chains-minimized.msfaux2
Intact-two-light-chains-minimized.msfaux2

Figure 95: Files table filtered by “Name contains Intact”

To filter by additional column values, enter those values in the appropriate entry boxes. The rows that contain all the filter strings in their corresponding columns are displayed. To display all rows again, delete all filter strings. To remove the filter entry boxes, click the  button again.

Show and Hide Columns

Desired but hidden columns (such as File Size and Metadata fields) can be shown and unwanted columns can be hidden. To change which columns are displayed, click the  button. A dropdown displays all the columns with checked boxes. To show hidden columns, check those column headers:




		
<input checked="" type="checkbox"/> Actions		
<input checked="" type="checkbox"/> ID		
<input checked="" type="checkbox"/> File Alias		
<input checked="" type="checkbox"/> File Name		
<input type="checkbox"/> File Type		
<input type="checkbox"/> File Size		
<input checked="" type="checkbox"/> Created By		
<input checked="" type="checkbox"/> Created On		
<input type="checkbox"/> Changed On		
<input checked="" type="checkbox"/> Signature State		
<input type="checkbox"/> Workflow Type		
<input type="checkbox"/> Published PDF report		

Figure 96: Hide table Columns

To hide columns, click the  button and uncheck the headers to hide. **Note:** Metadata field columns are hidden by default. Use this function to display desired Metadata fields.

Username Menus

The dropdown arrow after the User's name at top right exposes a menu:

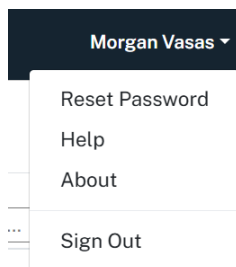


Figure 97: Username menus

Reset Password is self-explanatory.

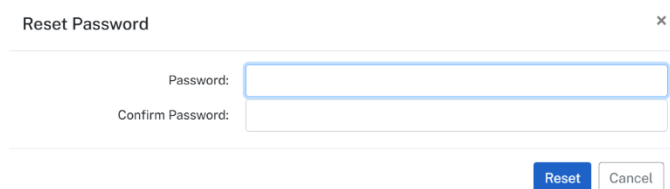
A screenshot of a 'Reset Password' dialog box. The title bar says 'Reset Password' with a close button (X) on the right. Inside, there are two input fields: 'Password:' and 'Confirm Password:'. At the bottom right, there are two buttons: 'Reset' (blue) and 'Cancel' (grey).

Figure 98: Reset Passwords

Enter the password in the two boxes. Passwords must contain at least six characters. Click **Reset**. **Note:** This menu is only available for non-SSO logins. For SSO, password resets are managed by the identity provider.

About shows the Byosphere version:

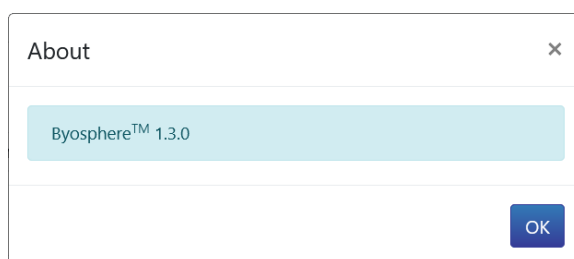


Figure 99: About box

Help downloads a compiled pdf version of all Web Client manuals to the browser. The user can select which manual they wish to look at from the first page.

Sign Out signs the User off the server. Users are automatically logged off after a long period of activity.