

Celigo v3.1 Software Release Notes



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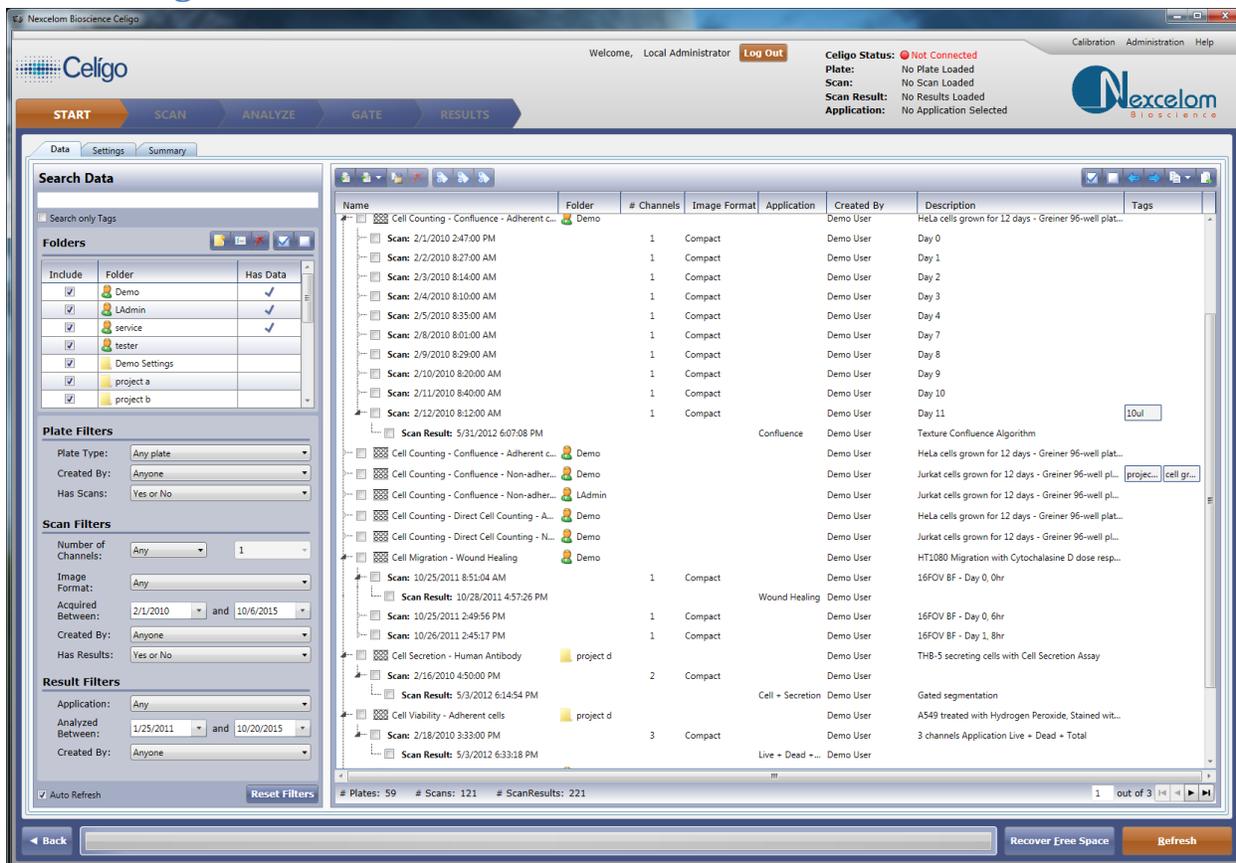
Overview

The following document describes the major changes and bug fixes in the Celigo v3.1 software version. The software version 3.1 (v3.1.0.22) is a replacement for the prior v 3.0.3 software release (v3.0.3.2)

The Automation API has been changed over prior releases, but maintains backwards compatibility with the existing automation drivers.

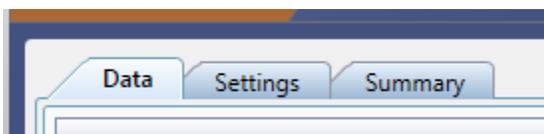
Changes

Data Management



The Data Management screen was reworked to provide users with improved search and filter capabilities while also providing increased performance when working with large databases. The improvements provide data status, usage reporting, and enables users to better manage data and space usage.

The new Data Management is broken into three separate views: Data, Settings, and Summary. To switch between views the user clicks on the tabs at the top of the screen.



Data Tab

The screenshot shows the Celigo Data Tab interface. On the left, there is a 'Search Data' panel with several filter sections:

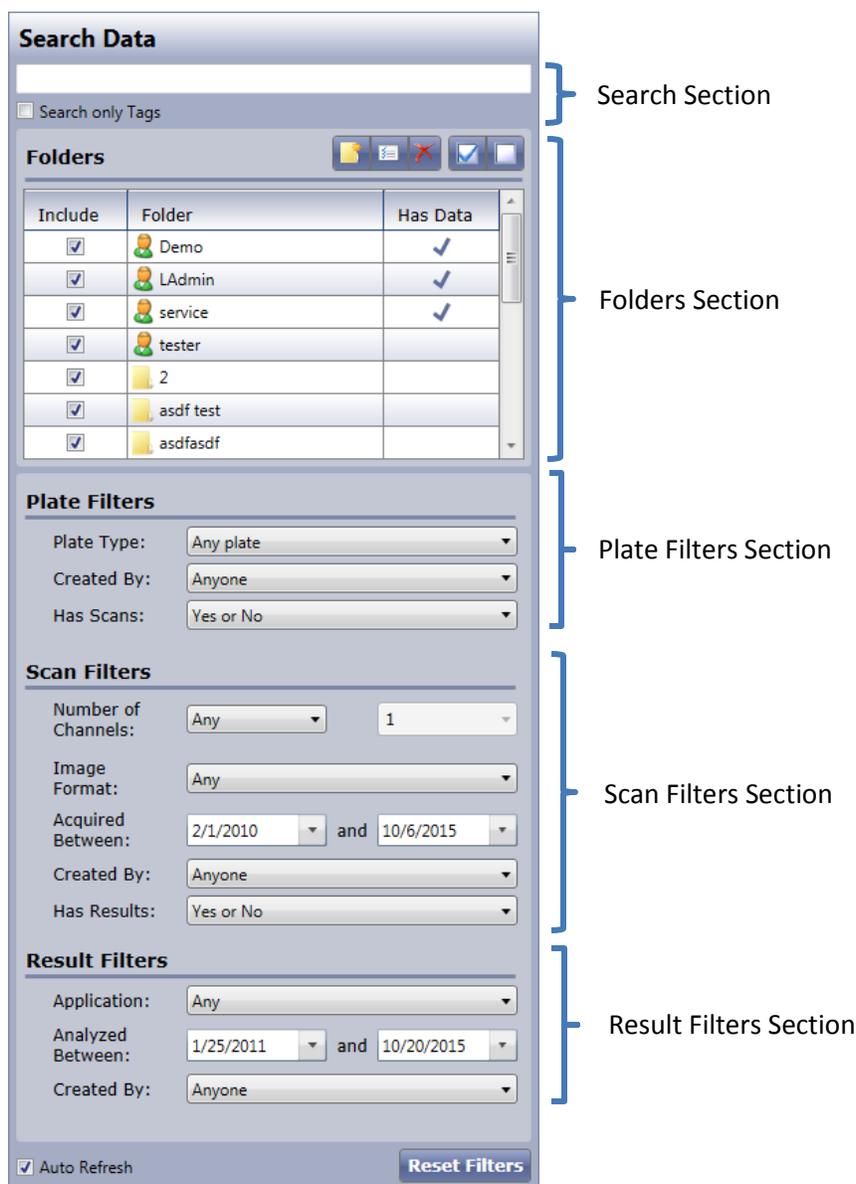
- Folders:** A table with columns 'Include', 'Folder', and 'Has Data'. Folders listed include Demo, LAdmin, service, tester, Demo Settings, project a, and project b.
- Plate Filters:** Includes filters for Plate Type (Any plate), Created By (Anyone), and Has Scans (Yes or No).
- Scan Filters:** Includes filters for Number of Channels (Any, 1), Image Format (Any), Acquired Between (2/1/2010 and 10/6/2015), Created By (Anyone), and Has Results (Yes or No).
- Result Filters:** Includes filters for Application (Any), Analyzed Between (1/25/2011 and 10/20/2015), and Created By (Anyone).

The main data grid on the right displays a tree-like structure of data. The columns are: Name, Folder, # Channels, Image Format, Application, Created By, and Description. The data is organized into folders such as 'Demo', 'Confluence', 'Wound Healing', 'Cell + Secretion', and 'Cell Viability - Adherent cells'. Each folder contains a list of 'Scan' and 'Scan Result' entries with their respective dates, times, and descriptions.

The Data Tab displays all the data currently stored in the Celigo database. Data contains all Plates, Scans, and Scan Results. Data is displayed in a grid utilizing a tree like structure to display the relation between plates, scans, and scan results.

Filters

The default setting for this view is to display all the data the user has access to. If the user would like to limit what is displayed, the user can modify the filter settings found on the left side of the screen.



The screenshot shows a search interface with the following sections:

- Search Section:** Contains a search input field and a checkbox for "Search only Tags".
- Folders Section:** Contains a table of folders with columns for "Include", "Folder", and "Has Data".
- Plate Filters Section:** Contains dropdown menus for "Plate Type", "Created By", and "Has Scans".
- Scan Filters Section:** Contains dropdown menus for "Number of Channels", "Image Format", "Acquired Between", "Created By", and "Has Results".
- Result Filters Section:** Contains dropdown menus for "Application", "Analyzed Between", and "Created By".

At the bottom of the interface, there is a checkbox for "Auto Refresh" and a "Reset Filters" button.

Filters are broken up into 5 sections: Search, Folders, Plate, Scan, and Result.

Search

The “Search” section appears just above the “Folders” section. This section is primarily an open text field that allows the user to type in any text to match a plate barcode, descriptions for any data (plates, scans or scan results), or tags for any data (plates, scans, or scan results). If desired, a checkbox exists to limit the filter to only data related tags.

Folders

The “Folders” section appears underneath the “Search” section and displays all folders the logged in user has access to. This section allows the user to add, modify, or delete folders as well as selecting

which folders to display data for. If a folder is checked, the data contained within the folder is displayed. If a folder is not checked, the data contained within the folder is not displayed. The Check All and Uncheck All buttons exist to quickly perform batch checking/unchecking. If a user wishes to display a single folder, the user double clicks on any folder to check that folder and uncheck all others.



Controls for creating, modifying, and deleting folders exist in the “Folders” section. This functionality works in the same manner as in prior versions of Celigo. Additional details can be found in section 6 of the Celigo Administrator Guide.



Plate Filters

The “Plate Filters” section appears just below the “Folders” section. This section allows a user to filter plates by plate type (also referred to as the plate profile), plate creator, and whether or not the plate has any associated scans.

Scan Filters

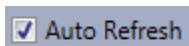
The “Scan Filters” section appears just below the “Plate Filters” section. This section allows a user to filter scans by the number of channels used when the scan was acquired, image format of the images in the scan, time frame the scans were acquired, plate creator, and whether or not the scan has any associated scan results.

Result Filters

The “Result Filters” section appears just below the “Scan Filters” section. This section allows a user to filter scan results by the scan’s application type, time frame the scan results were generated, and scan result creator.

Other Controls

If a user modifies any setting while the Auto Refresh checkbox is checked, a refresh operation will occur and the software will display the updated data set matching the new filter criteria on the right hand side of the screen.



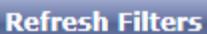
If the Auto Refresh checkbox is not checked, no refresh operation will occur until the user clicks the refresh button located at the bottom right hand side of the screen.



The Reset Filters button provides the user the ability to revert all the filters back to default settings which will display all data on the right hand side of the screen after a refresh is invoked.

 Reset Filters

The Plate, Scan, and Result Filters are set to have their selectable options and bounds configured for the entire dataset available in the database. What this means is that “Plate Types” will only display plate types that are associated with the data in the database. The same goes for the “Created By” filter and all other filters. For software that is connected to a network database where it is possible for other users to be changing the data in the database you are connected to, the bounds of your filters can change after your filters have been loaded. The Refresh Filters button allows a user to refresh the bounds of all their filters to the current state of the database. This button will only be visible for software that is connected to a Celigo network database and will be found to the right of the Reset Filters button.

 Refresh Filters

Data Display

Data is displayed in a grid on the right hand side of the screen. The grid utilizes a tree like structure to display the relation between plates, scans, and scan results. This section of the screen allows the user to view data that matches the specified filters and enables the user to perform various functions on the data.

Name	Folder	# Channels	Image Format	Application	Created By	Description	Tags
4Boxes1.3.1	LAdmin			Acquisition Settings			
Cell Counting - Confluence - Adhe...	Demo			Demo User	Demo User	HeLa cells grown for 12 days - Greiner 96-well plates	
Scan: 2/1/2010 2:47:00 PM		1	Compact	Demo User	Demo User	Day 0	
Scan: 2/2/2010 8:27:00 AM		1	Compact	Demo User	Demo User	Day 1	
Scan: 2/3/2010 8:14:00 AM		1	Compact	Demo User	Demo User	Day 2	
Scan: 2/4/2010 8:10:00 AM		1	Compact	Demo User	Demo User	Day 3	
Scan: 2/5/2010 8:35:00 AM		1	Compact	Demo User	Demo User	Day 4	
Scan: 2/8/2010 8:01:00 AM		1	Compact	Demo User	Demo User	Day 7	
Scan: 2/9/2010 8:29:00 AM		1	Compact	Demo User	Demo User	Day 8	
Scan: 2/10/2010 8:20:00 AM		1	Compact	Demo User	Demo User	Day 9	
Scan: 2/11/2010 8:40:00 AM		1	Compact	Demo User	Demo User	Day 10	
Scan: 2/12/2010 8:12:00 AM		1	Compact	Demo User	Demo User	Day 11	10ul
Scan Result: 5/31/2012 6:07:08				Confluence	Demo User	Texture Confluence Algorithm	
Cell Counting - Confluence - Adhe...	Demo			Demo User	Demo User	HeLa cells grown for 12 days - Greiner 96-well plates	
Cell Counting - Confluence - Non-...	Demo			Demo User	Demo User	Jurkat cells grown for 12 days - Greiner 96-well plates	projec... cell gr...
Cell Counting - Confluence - Non-...	LAdmin			Demo User	Demo User	Jurkat cells grown for 12 days - Greiner 96-well plates	
Cell Counting - Direct Cell Countin...	Demo			Demo User	Demo User	HeLa cells grown for 12 days - Greiner 96-well plates	
Cell Counting - Direct Cell Countin...	Demo			Demo User	Demo User	Jurkat cells grown for 12 days - Greiner 96-well plates	
Cell Migration - Wound Healing	Demo			Demo User	Demo User	HT1080 Migration with Cytochalasine D dose response,...	
Cell Secretion - Human Antibody	new folder			Demo User	Demo User	THB-5 secreting cells with Cell Secretion Assay	
Cell Viability - Adherent cells	new folder			Demo User	Demo User	A549 treated with Hydrogen Peroxide, Stained with Hoe...	
Scan: 2/18/2010 3:33:00 PM		3	Compact	Demo User	Demo User	3 channels Application Live + Dead + Total	
Scan Result: 5/3/2012 6:33:18 PM				Live + Dead + Total	Demo User		
Col2468101.1	LAdmin			Acquisition Settings			
Colony Counting - Embryoid Bod...	new folder			Demo User	Demo User	Embryoid Bodies - 9-well plate	
Colony Counting - Single Colony...	new folder			Demo User	Demo User	24-well Corning 3526 plate, RFP-Hela Gradient 125, 25,...	
Colony Counting - Single Colony...	Demo			Demo User	Demo User	96-well Greiner plate, RFP-Hela Gradient 125, 25, 5, 1 ce...	
Colony Counting - Tumorsphere BF	Demo			Demo User	Demo User	Colony Counting - Tumorsphere BF	

The data displayed in the grid is organized by plate. Each plate can be expanded to display any scans that were acquired for the plate. Each scan can also be expanded to display any scan results that were generated for the scan. The grid is organized into columns that display various properties of the plates, scans, and scan results. These columns include: Name, Folder, Number of Channels, Image Format, Application, Created By, Description, and Tags. If the column is applicable to the data type, data will be displayed. For example, every data type will have a name, but only plates will display a folder, only scans will display Number of Channels, and only scan results will display Application. Only those columns associated with plate data, with the exception of the Tags column, are sortable.

The button strip at the bottom of the data display section displays the plate count, scan count, and scan result count of the found matching data set. Each data set is broken up into pages and only one page is viewed at a time. On the right hand side of the bottom strip, controls exist to allow the user to navigate to different pages of the data set. A user can type in a page number to navigate to, click on a button with an arrow and a line to navigate to the first or last pages, or click on a button with just an arrow to navigate to the previous or next page. If an operation is not allowed, the buttons will become disabled.



Data Operations



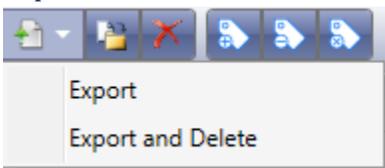
Each data item (plate, scan, scan result) can be checked or unchecked. Checking a data item marks the data item to be included for an operation if one is chosen by the user. Data operations can be found at the top left of the data display section. These operations include: Export, Export and Delete, Move, Delete, Add Tag, Remove Tag, and Clear All Tags. One additional operation that exists in this area of the user interface that does not involve checked data items is the Import operation.

Import



The Import button allows the user to import data into the Celigo database. Celigo data in file format is referred to as archives and archives can be imported back into a Celigo database using this operation. This functionality works in the same manner as prior versions of Celigo. Additional details can be found in section 7 of the Celigo Administrator Guide.

Export



The Export button allows the user to export checked data from the Celigo database into a file format referred to as an archive. This functionality works in the same manner as prior versions of Celigo. Additional details can be found in section 7 of the Celigo Administrator Guide.

The Export and Delete button performs the same task as the export operation, but will also delete the checked data that was exported after a successful export operation.

Move



The Move button allows the user to move checked data from one Celigo folder to another.

Delete

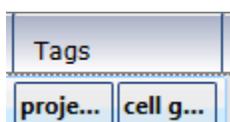


The Delete button allows the user to delete checked data from the Celigo database.

Add Tag



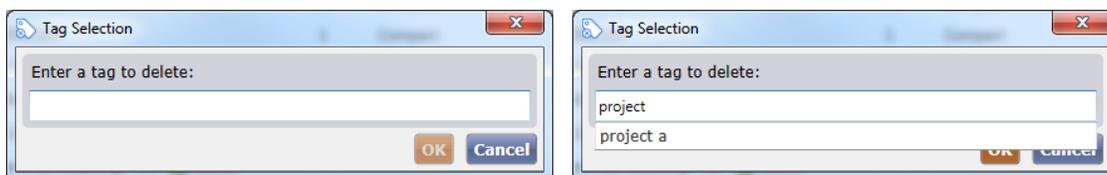
The Add Tag button allows the user to add a tag to checked data. When first clicking on the Add Tag button, a dialog will appear asking the user to type in a new tag. As the user types a tag, a list will appear of tags matching the text typed if any exist. Once the tag has been entered, the user clicks OK to complete the operation and then a tag will appear next to the checked items.



Delete Tag



The Delete Tag button allows the user to delete a tag from checked data. When first clicking on the Delete Tag button, a dialog will appear asking the user to type in a tag to remove. As the user types a tag, a list will appear of tags matching the text typed if any exist. If a tag is typed that is associated with the checked data, that tag will be removed when the user clicks OK. If a tag is typed that is not associated with the checked data, the data's tags will remain unchanged.



Clear All Tags



The Clear All Tags button allows the user to delete all tags from checked data.

Display Operations

Additional operations can be found at the top right of the data display section. These operations allow the user to perform batch operations and various export operations. These operations include: Check All, Uncheck All, Expand All, Collapse All, Copy As Image, Copy As Text, and Export.

Check All



The Check All button allows the user to check all data (in all pages).

Uncheck All



The Uncheck All button allows the user to uncheck all data (in all pages).

Collapse All



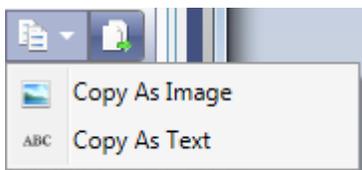
The Collapse All button allows the user to collapse all data down to plates only (in all pages).

Expand All



The Expand All button allows the user to expand all data so that all plates, scans, and scans are shown (in all pages).

Copy



The Copy As Image button allows the user to copy the displayed data (as seen on the screen) as an image to the clipboard.

The Copy As Text button allows the user to copy all data (in all pages) as text to the clipboard.

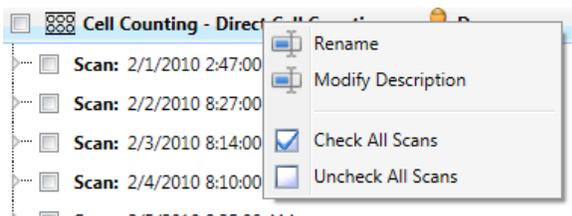
Export



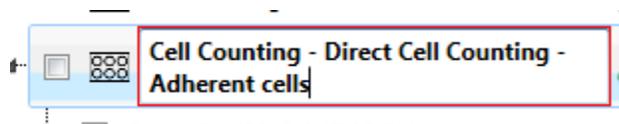
The Export button allows the user to save a text file of all data (in all pages) to disk.

Plate Operations

The user can right click on any plate in the displayed area and additional operations for the plate will appear via a context menu. These operations include: Rename, Modify Description, Check All Scans, and Uncheck All Scans.

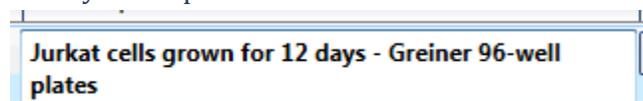


Rename



The Rename button allows the user to rename a plate by displaying the plate name in an editable textbox. If the name is already taken or if the name is invalid, the editing box for the name will appear red.

Modify Description



The Modify Description button allows the user to modify the plate description by displaying the existing description in an editable textbox.

Check All Scans

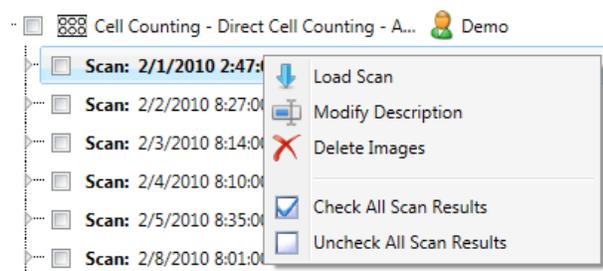
The Check All Scans button allows the user to quickly check all scans for the specified plate.

Uncheck All Scans

The Uncheck All Scans button allows the user to quickly uncheck all scans for the specified plate.

Scan Operations

The user can right click on any scan in the displayed area and additional operations for the scan will appear via a context menu. These operations include: Load Scan, Modify Description, Delete Images, Check All Scan Results, and Uncheck All Scan Results.



Load Scan

The Load Scan button allows the user to load the selected scan with its most recent scan result (if one exists) into the application workspace.

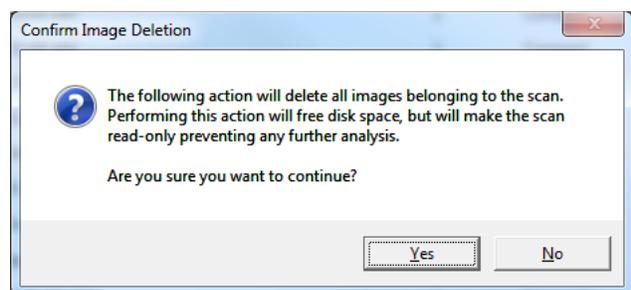
Modify Description



The Modify Description button allows the user to modify the scan description by displaying the existing description in an editable textbox.

Delete Images

The Delete Images button allows the user to delete all images associated with the scan while keeping the scan in the Celigo database. If the user selects this operation, the user will first be prompted to confirm the operation.



Once the user confirms the operation, the scan's images will be deleted. Once the images are deleted for a scan, the scan will have the text "Deleted" displayed in its Image Format column and will no longer be capable of being re-analyzed (read-only). If the scan is loaded, the user will only have access to the Results Tab displaying the well thumbnails and measurements. Since no images are available for the scan, well viewing is disabled for the scan.

Check All Scan Results

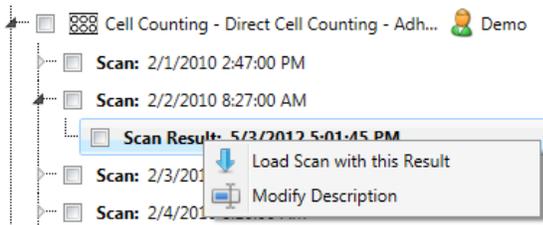
The Check All Scan Results button allows the user to quickly check all scan results for the specified scan.

Uncheck All Scan Results

The Uncheck All Scan Results button allows the user to quickly uncheck all scan results for the specified scan.

Scan Result Operations

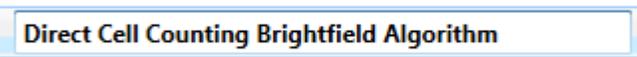
The user can right click on any scan result in the displayed area and additional operations for the scan result will appear via a context menu. These operations include: Load Scan with this Result, and Modify Description.



Load Scan with this Result

The Load Scan with this Result button allows the user to load the scan with the specified scan result into the application workspace.

Modify Description



The Modify Description button allows the user to modify the scan result description by displaying the existing description in an editable textbox.

Settings Tab

Search Settings

Search only Tags: [Empty]

Folders

Include	Folder	Has Settings
<input checked="" type="checkbox"/>	Demo	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	LAdmin	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	service	<input type="checkbox"/>
<input checked="" type="checkbox"/>	tester	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Demo Settings	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	project a	<input type="checkbox"/>
<input checked="" type="checkbox"/>	project b	<input type="checkbox"/>

Setting Filters

Setting Type: Any

Application: Any

Created By: Anyone

Created Between: 5/31/2012 and 10/8/2015

Last Modified Between: 5/31/2012 and 10/8/2015

Auto Refresh

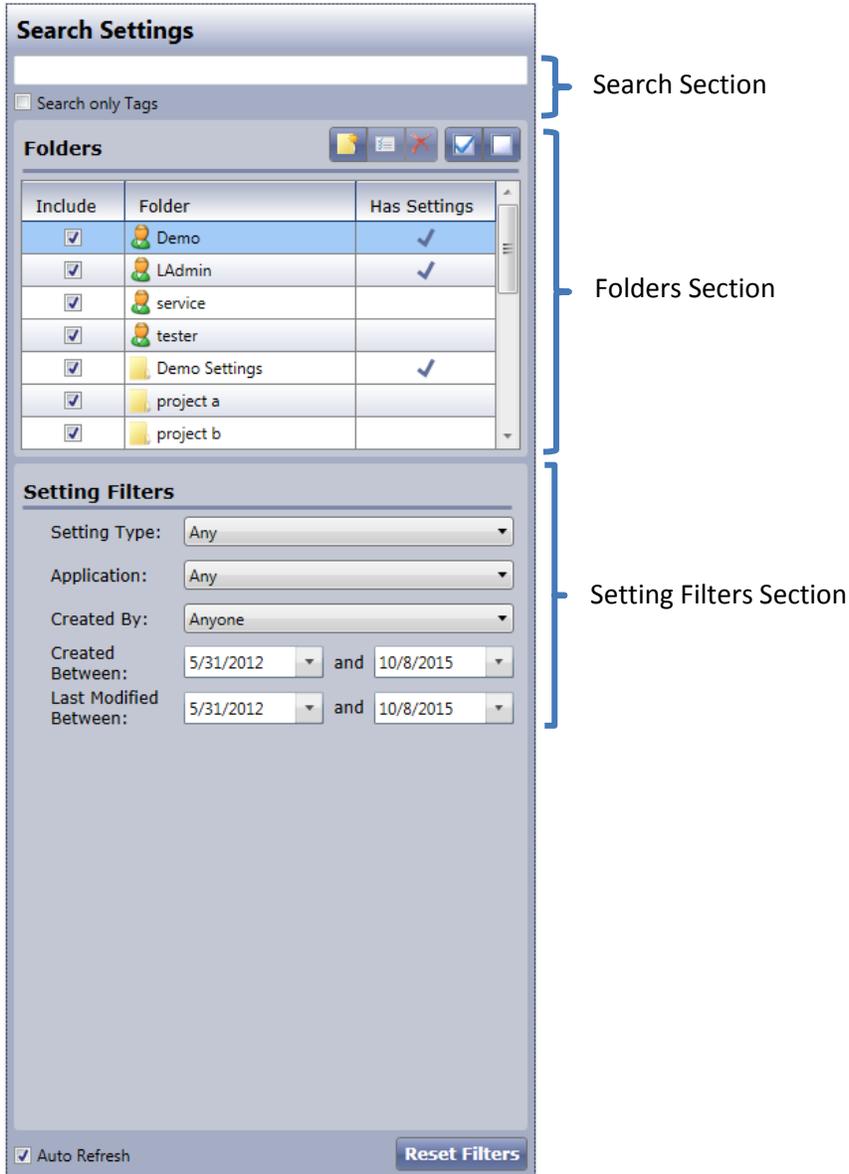
Settings: 26

Check	Type	Name	Folder	Application	Created By	Created Date	Last Modified	Description	Tags
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Merge)	Demo Se	Target 1 + 2 + 3 (Merge)	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Single Mask)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012 5:21:15 PM		
<input type="checkbox"/>	A	Expression Analysis - GFP and RFP (Single Mask)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Merge)	Demo Se	Target 1 + 2 + 3 (Merge)	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP RFP YFP (Quadrant)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Expression Analysis - GFP RFP YFP	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP RFP YFP (Multiple Gates)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Colony Counting - Embryoid Body	Demo Se	Embryoid Body	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Cell Counting - Confluence - Adherent Cells	Demo Se	Confluence	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Cell Counting - Confluence - Non-adherent cells	Demo Se	Confluence	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Counting - Direct Cell Counting - Adherent cells	LAdmin	Direct Cell Counting	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Counting - Direct Cell Counting - Non-adherent cells	Demo Se	Direct Cell Counting	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	DNA Synthesis - Cell Cycle	LAdmin	Target 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	DNA Synthesis - Cell Cycle	LAdmin	Target 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	DNA Synthesis	Demo Se	Synthesis + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	DNA Synthesis	Demo Se	Synthesis + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Single Colony Verification - HeLa-RFP - 24-wells	Demo Se	Single Colony Verification	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Single Colony Verification - HeLa-RFP - 96-wells	Demo Se	Single Colony Verification	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	PS Externalization - Non-adherent cells	Demo Se	PS Ext + Dead + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Viability - Adherent cells	Demo Se	Live + Dead + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Colony Counting: Tumorspheres	Demo Se	Tumorsphere 1	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Colony Counting: Tumorspheres BF + FL	Demo Se	Tumorsphere 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	Colony Counting: Tumorspheres BF + FL	Demo Se	Tumorsphere 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	Expression Analysis - Single Mask - GFP and RFP	Demo Se	Target 1 + 2 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	E	confluence	LAdmin	Confluence	Local Administrator	9/10/2015	9/10/2015		
<input type="checkbox"/>	A	Analysis Settings	LAdmin	Dead + Total	Local Administrator	10/8/2015	10/8/2015		

The Settings Tab displays all the settings, currently stored in the Celigo database, which the logged in user has access to. Settings refer to Experiments, Analysis Settings, and Classification Settings. Settings are displayed to the user in a grid on the right hand side of the screen.

Filters

The default setting for this view is to display all settings the user has access to. If the user would like to limit what is displayed, the user can modify the filter settings found on the left side of the screen.



The screenshot shows the 'Search Settings' interface. It is divided into three main sections as indicated by blue brackets on the right:

- Search Section:** Contains a search input field and a checkbox labeled 'Search only Tags'.
- Folders Section:** Contains a 'Folders' header with icons for adding, deleting, and refreshing, and a table listing folders.

Include	Folder	Has Settings
<input checked="" type="checkbox"/>	Demo	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	LAdmin	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	service	
<input checked="" type="checkbox"/>	tester	
<input checked="" type="checkbox"/>	Demo Settings	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	project a	
<input checked="" type="checkbox"/>	project b	
- Setting Filters Section:** Contains several filter options:
 - Setting Type: Any
 - Application: Any
 - Created By: Anyone
 - Created Between: 5/31/2012 and 10/8/2015
 - Last Modified Between: 5/31/2012 and 10/8/2015

At the bottom of the interface, there is a checkbox for 'Auto Refresh' and a 'Reset Filters' button.

Filters are broken up into 3 sections: Search, Folders, and Setting Filters.

Search

The “Search” section appears just above the “Folders” section. This section is primarily an open text field that allows the user to type in any text to match a name, description, or tag for any setting (experiment, analysis settings, or classification settings). If desired, a checkbox exists to limit the search to only the setting’s related tags.

Folders

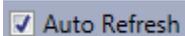
The “Folders” section appears underneath the “Search” section and displays all folders the user has access to. This section works in the same manner as it does in the Data Tab.

Setting Filters

The “Setting Filters” section appears just below the “Folders” section. This section allows a user to filter settings by setting type, application, setting creator, date the setting was created, and date the setting was last modified.

Other Controls

If the user modifies any setting while the Auto Refresh checkbox is checked, a refresh operation will occur and the software will display the updated settings data set matching the new filter criteria on the right hand side of the screen.



If the Auto Refresh checkbox is not checked, no refresh operation will occur until the user manually clicks the refresh button located at the bottom right hand side of the screen.



The Reset Filters button provides the user the ability to revert all filters back to default settings which will display all data on the right hand side of the screen after a refresh is invoked.



The Setting Filters are set to have their selectable options and bounds configured for the entire dataset available in the database. What this means is that “Setting Types” will only display setting types that are associated with the settings in the database. The same goes for the “Created By” filter and all other filters. For software that is connected to a network database where it is possible for other users to be changing the settings in the database you are connected to, the bounds of your filters can change after your filters have been loaded. The Refresh Filters button allows a user to refresh the bounds of their filters for all filters to the current state of the database. This button will only be visible for software that is connected to a Celigo network database and will be found to the right of the Reset Filters button.

Refresh Filters

Settings Display

Settings are displayed to the user in a grid on the right hand side of the screen. This section of the screen allows the user to view settings matching the filters specified and enables the user to perform various functions on that data.

Check	Type	Name	Folder	Application	Created By	Created Date	Last Modified	Description	Tags
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Merge)	Demo Se	Target 1 + 2 + 3 (Merg	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Single Mask)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Expression Analysis - GFP and RFP (Single Mask)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP and RFP (Merge)	Demo	Target 1 + 2 + 3 (Merg	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP RFP YFP (Quadrant)	Demo	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Expression Analysis - GFP RFP YFP	Demo	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	C	Expression Analysis - GFP RFP YFP (Multiple Gates)	Demo Se	Target 1 + 2 + Mask	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Colony Counting - Embryoid Body	Demo Se	Embryoid Body	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Cell Counting - Confluence - Adherent Cells	Demo Se	Confluence	Demo User	5/31/2012	5/31/2012		
<input type="checkbox"/>	A	Cell Counting - Confluence - Non-adherent cells	Demo Se	Confluence	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Counting - Direct Cell Counting - Adherent cells	LAdmin	Direct Cell Counting	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Counting - Direct Cell Counting - Non-adherent	Demo	Direct Cell Counting	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	DNA Synthesis - Cell Cycle	LAdmin	Target 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	DNA Synthesis - Cell Cycle	LAdmin	Target 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	DNA Synthesis	Demo Se	Synthesis + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	DNA Synthesis	Demo Se	Synthesis + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Single Colony Verification - HeLa-RFP - 24-wells	Demo Se	Single Colony Verificatio	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Single Colony Verification - HeLa-RFP - 96-wells	Demo Se	Single Colony Verificatio	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	PS Externalization - Non-adherent cells	Demo Se	PS Ext + Dead + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Cell Viability - Adherent cells	Demo Se	Live + Dead + Total	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Colony Counting: Tumorspheres	Demo Se	Tumorsphere 1	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	A	Colony Counting: Tumorspheres BF + FL	Demo Se	Tumorsphere 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	Colony Counting: Tumorspheres BF + FL	Demo Se	Tumorsphere 1 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	C	Expression Analysis - Single Mask - GFP and RFP	Demo Se	Target 1 + 2 + Mask	Demo User	6/6/2012	6/6/2012		
<input type="checkbox"/>	E	confluence	LAdmin	Confluence	Local Administrato	9/10/2015	9/10/2015		
<input type="checkbox"/>	A	Analysis Settings	LAdmin	Dead + Total	Local Administrato	10/8/2015	10/8/2015		

Settings: 26

The settings displayed in the grid are organized into columns that display various properties of the settings. These columns include: Check, Type, Name, Folder, Application, Created By, Created Data, Last Modified, Description, and Tags. All columns other than Tags are sortable. The button strip at the bottom of the settings display section displays the setting count of the found matching settings set.

Settings: 26

Setting Operations



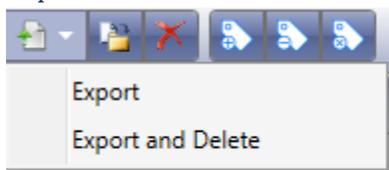
Each setting (experiment, analysis setting, classification setting) can be checked or unchecked. Checking a setting marks the item to be included for an operation if one is chosen by the user. Setting operations can be found at the top left of the settings display section. These operations include: Export, Export and Delete, Move, Delete, Add Tag, Remove Tag, Clear All Tags. One additional operation that exists in this area of the user interface that does not involve checked data items is the Import operation.

Import



The Import button allows the user to import settings into the Celigo database. This functionality works in the same manner as prior versions of Celigo. Additional details can be found in section 7 of the Celigo Administrator Guide.

Export



The Export button allows the user to export checked settings from the Celigo database into a file format. This functionality works in the same manner as it had in prior versions of Celigo. Additional details can be found in section 7 of the Celigo Administrator Guide.

The Export and Delete button performs the same task as the export operation, but also will delete the checked settings that were exported after the export operation is successful.

Move



The Move button allows the user to move checked settings from one Celigo folder to another.

Delete



The Delete button allows the user to delete checked settings from the Celigo database.

Add Tag



The Add Tag button allows the user to add a tag to checked settings. When first clicking on the Add Tag button, a dialog will appear asking the user to type in a new tag. As the user types a tag, a list will

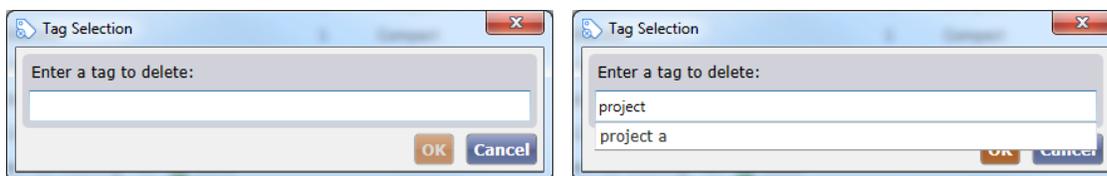
appear of tags matching the text typed if any exist. Once the tag has been entered, the user clicks OK to complete the operation and then a tag will appear next to the checked items.



Delete Tag



The Delete Tag button allows the user to delete a tag from checked settings. When first clicking on the Delete Tag button, a dialog will appear asking the user to type in a tag to remove. As the user types a tag, a list will appear of tags matching the text typed if any exist. If a tag is typed that is associated with the checked settings, the tag will be removed when the user clicks OK. If a tag is typed that is not associated with the checked settings, the setting's tags will remain unchanged.



Clear All Tags



The Clear All Tags button allows the user to delete all tags from checked settings.

Display Operations

Additional operations can be found at the top right of the settings display section that allow the user to perform batch operations and various export operations. These operations include: Check All, Uncheck All, Copy As Image, Copy As Text, and Export.

Check All



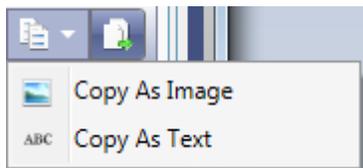
The Check All button allows the user to check all settings.

Uncheck All



The Uncheck All button allows the user to uncheck all settings.

Copy



The Copy As Image button allows the user to copy the displayed settings on the current screen as an image to the clipboard.

The Copy As Text button allows the user to copy all current settings as text to the clipboard.

Export



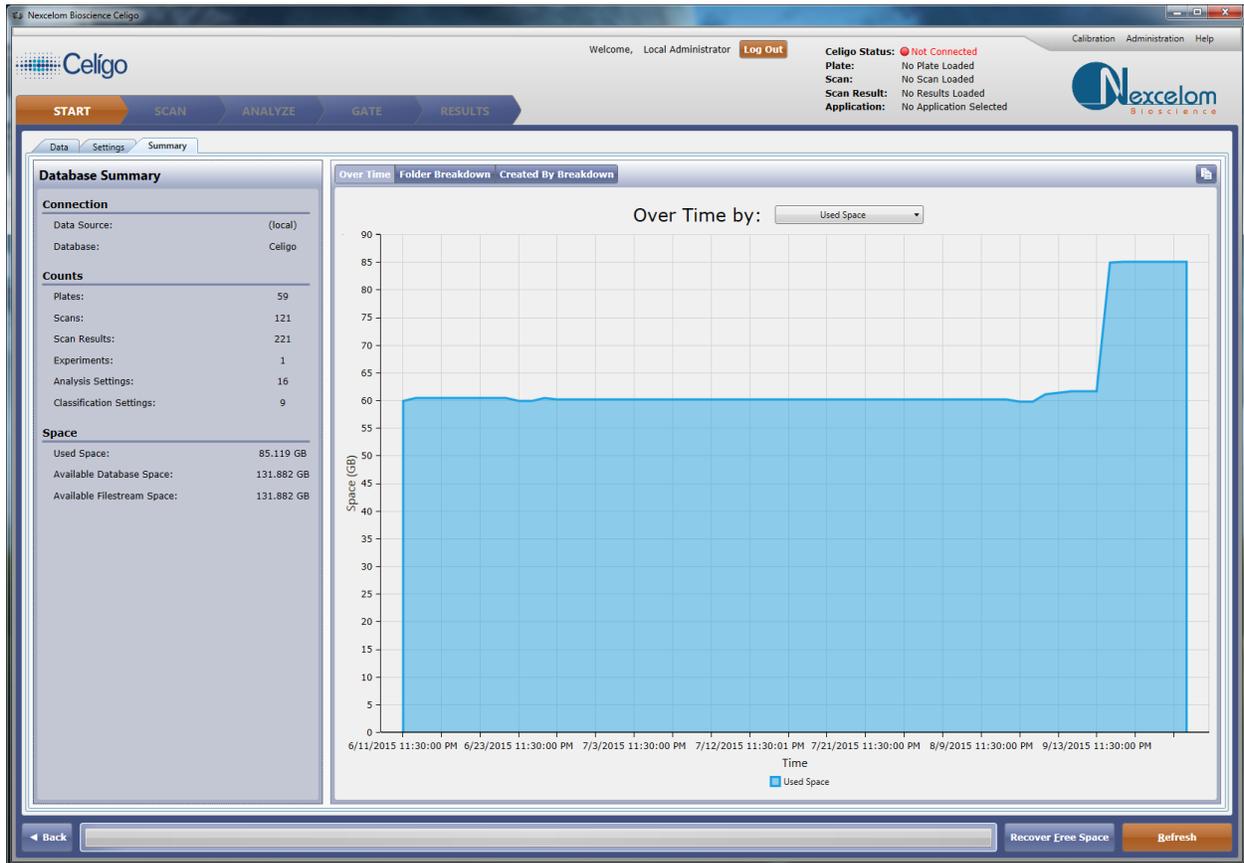
The Export button allows the user to save a text file of all settings to disk.

Setting Operations

The user can perform text modification operations on settings in the displayed area. These operations include renaming a setting and modifying a setting's description. Both modifications can occur by double clicking the cell in the display grid for the specific setting.



Summary Tab



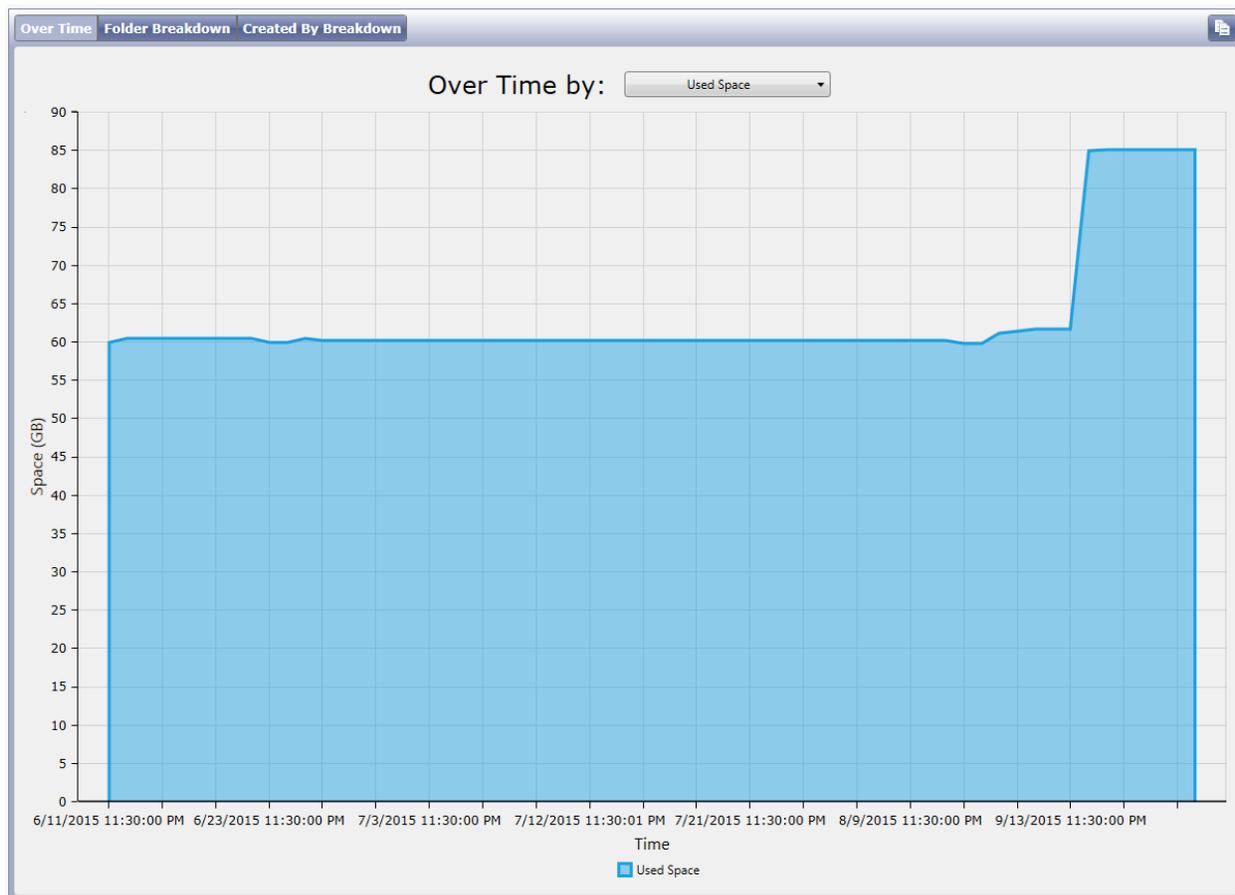
The Summary Tab displays to the user a database summary and other miscellaneous administration information for the Celigo database. The Summary Tab is only displayed to local administrator users and is broken up into 4 areas: Database Summary, Over Time, Folder Breakdown, and Created By Breakdown.

Database Summary

Database Summary	
Connection	
Data Source:	(local)
Database:	Celigo
Counts	
Plates:	59
Scans:	121
Scan Results:	221
Experiments:	1
Analysis Settings:	16
Classification Settings:	9
Space	
Used Space:	85.119 GB
Available Database Space:	131.882 GB
Available Filestream Space:	131.882 GB

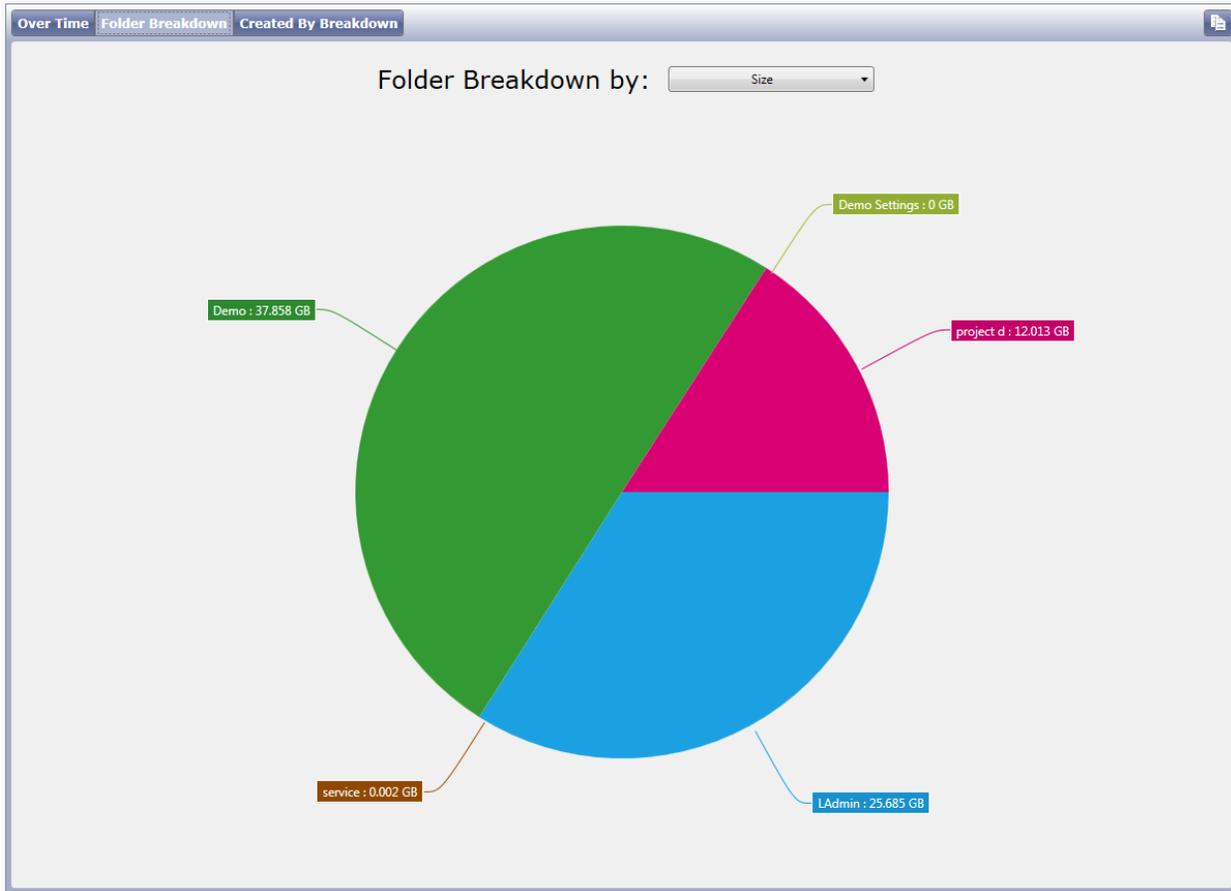
The Database Summary displays summary information for the database the Celigo software is connected to. The data shown here contains connection information, count information for each data and setting item, and storage space information.

Over Time



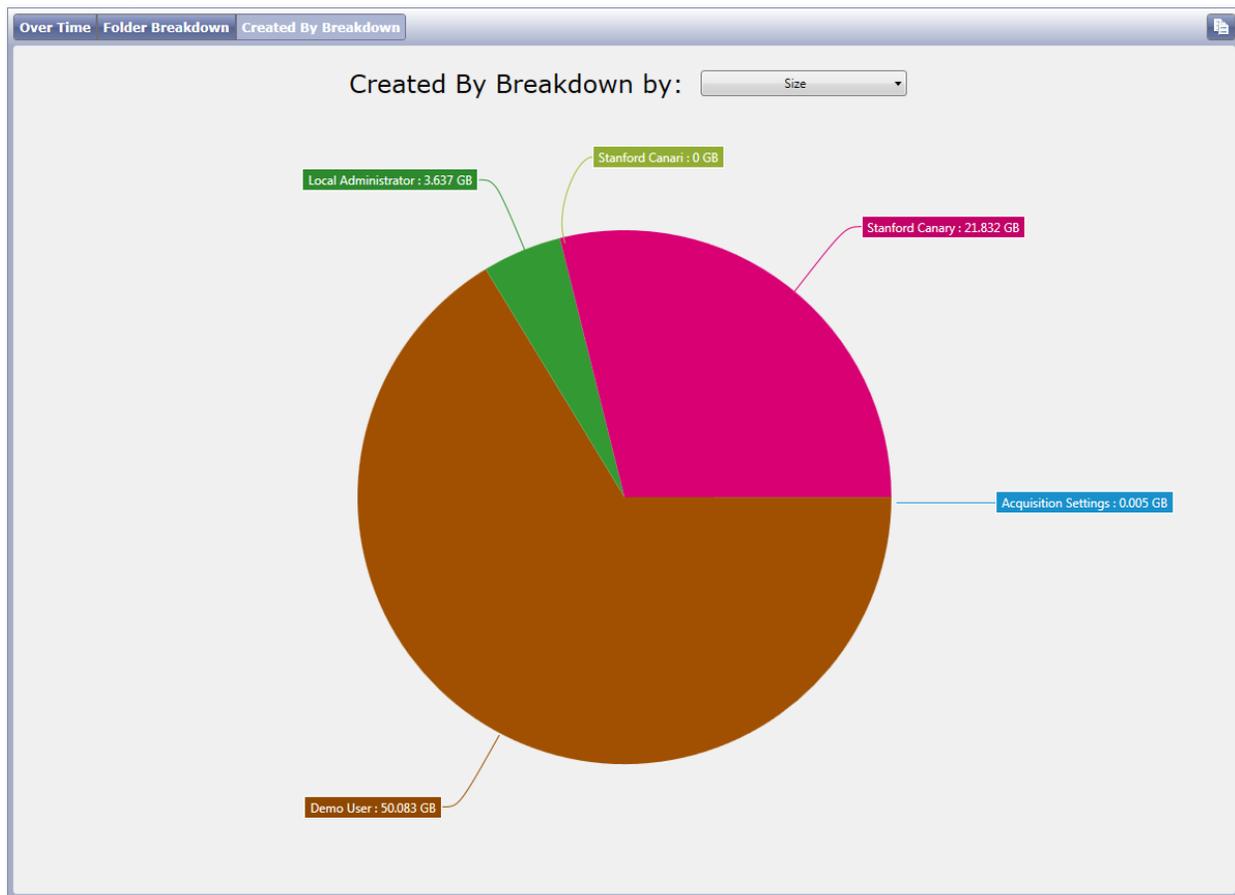
The Over Time section displays up to a year’s worth of various information for the Celigo database. Charts for the following can be displayed: Used Space, Database Available Space, Filestream Available Space, Plates, Scans, Scan Results, Experiments, Analysis Settings, and Classification Settings.

Folder Breakdown



The Folder Breakdown section displays what portion of the Celigo database resides in each Celigo folder. Charts for the following can be displayed: Size, Plates, Scans, Scan Results, Experiments, Analysis Settings, and Classification Settings.

Created By Breakdown



The Created By Breakdown section displays what portion of the Celigo database was created by each user. Charts for the following can be displayed: Size, Plates, Scans, Scan Results, Experiments, Analysis Settings, and Classification Settings.

Application Improvements

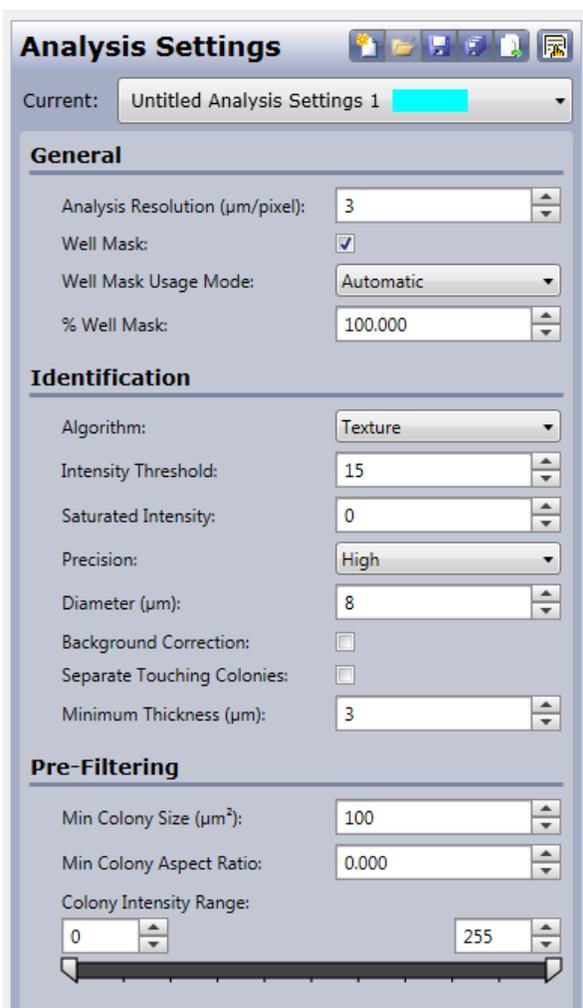
The Confluence application and the Colony Suite of applications were both modified for this software release.

Confluence

The Confluence application was modified to include an additional measurement for scans being analyzed with the application. This new measurement is “Confluence Total Area (μm^2)” and reports the total confluence area found for each well.

Colony Suite

The Colony Suite of applications was modified to include additional Identification and Pre-Filtering settings to be used in analysis.



The following are new and modified analysis settings available for Colony applications (from top to bottom):

- **Well Mask:** The ability to turn the well mask on/off.
- **Diameter:** The diameter setting unit was converted from pixels to microns.
- **Separate Touching Colonies:** The ability to turn separate touching colonies on or off.
- **Minimum Colony Size:** This setting was renamed from Minimum Cluster Size. The measurement unit was converted from pixels to microns.
- **Minimum Colony Aspect Ratio:** The ability to specify the aspect ratio for colonies.
- **Colony Intensity Range:** The ability to specify the colony intensity range for colonies.

New Exports

New export options are available in the software.

The ACS file format is a zip file with the .acs extension of the ICE folder plus an additional file named TOC1.xml that points to the .ice file.

Name	Type	Compressed size
Well_A1	File folder	
Well_A2	File folder	
Well_B1	File folder	
Well_B2	File folder	
TestExport.ice	ICE File	4 KB
TOC1.xml	XML Document	1 KB

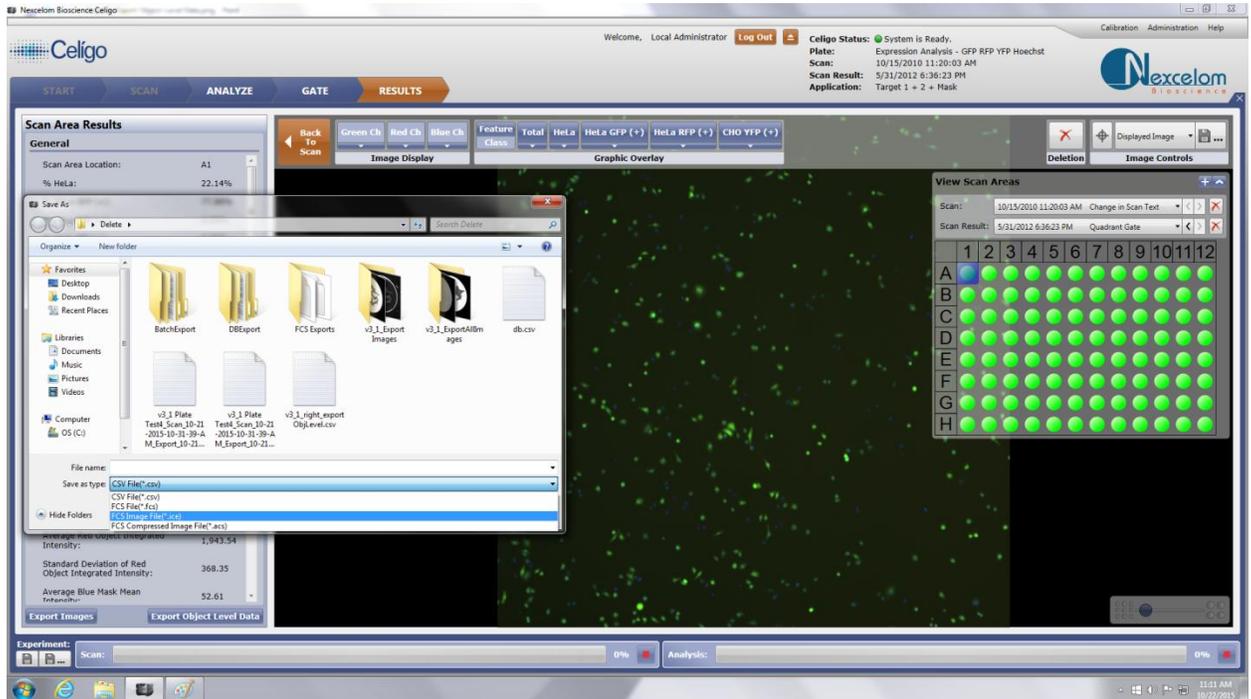
Exporting is done in one of four places:

1. Full plate export under Results -> Export Object-Level Data using the .ice and .acs filter

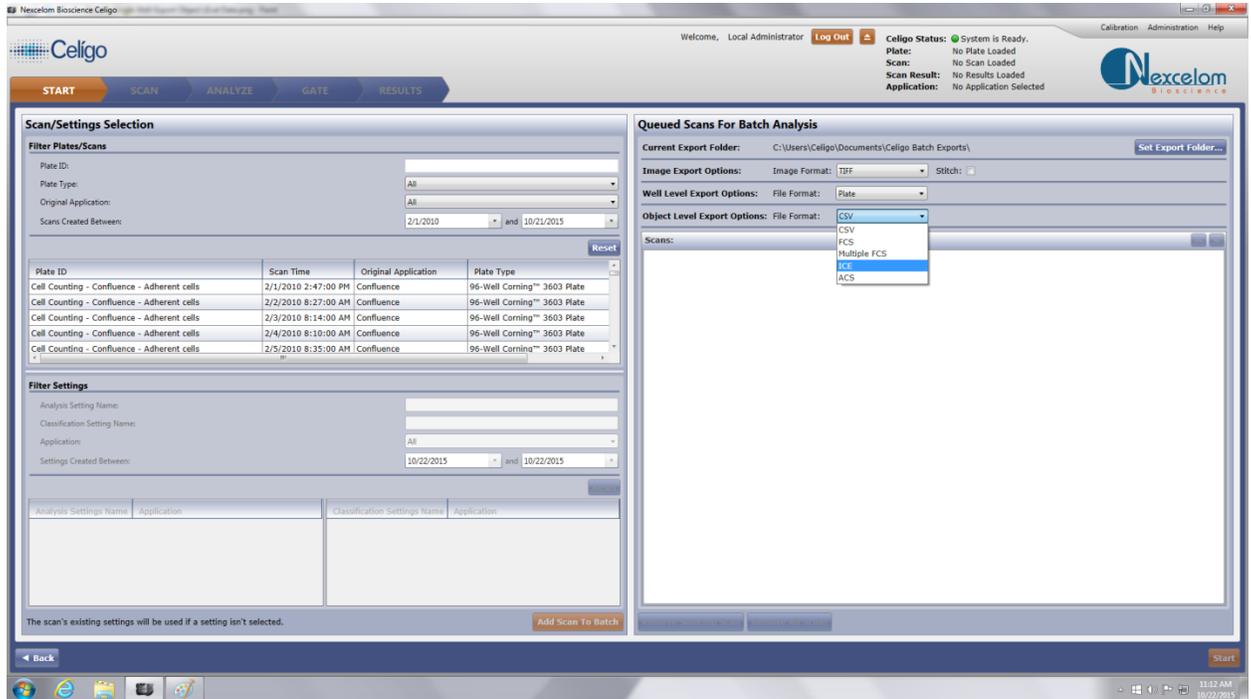
The screenshot shows the Nexcelom Bioscience software interface. A 'Save As' dialog box is open, showing a file explorer view of the 'FCS Exports' folder. The file name is 'Expression Analysis - GFP RFP YFP Hoechst_Scan_10-15-2010-11-20-03-AM_Export_5-31-2012-6-36-23-PM_objectlevel.csv'. The 'Save as type' is set to 'CSV File (*.csv)'. The 'Current Scan Area Results' section shows a grid of data points for wells D2 through H12. The grid contains numerical values representing fluorescence intensity for various channels.

	2	3	4	5	6	7	8	9	10	11	12
D	18.8%	21.8%	19.1%	12.1%	15.9%	15.8%	25.9%	12.0%	11.0%	9.8%	8.5%
E	9.4%	16.1%	15.4%	17.4%	14.2%	11.8%	13.5%	12.1%	14.4%	11.1%	11.3%
F	19.9%	13.4%	13.6%	11.8%	11.9%	12.2%	10.5%	10.2%	9.6%	9.3%	6.6%
G	15.7%	16.6%	15.6%	16.9%	14.1%	12.2%	10.6%	9.7%	9.2%	6.5%	6.2%
H	10.7%	12.4%	11.8%	12.4%	10.1%	8.9%	5.4%	3.4%	7.8%	10.5%	5.1%
	12.6%	13.6%	12.0%	11.7%	11.7%	8.5%	12.4%	7.2%	9.6%	6.5%	6.1%
	12.2%	9.9%	8.8%	7.9%	6.9%	11.5%	8.5%	8.1%	6.9%	4.5%	3.2%
	11.1%	10.8%	9.3%	10.5%	10.6%	8.1%	10.2%	5.0%	4.4%	5.9%	4.6%

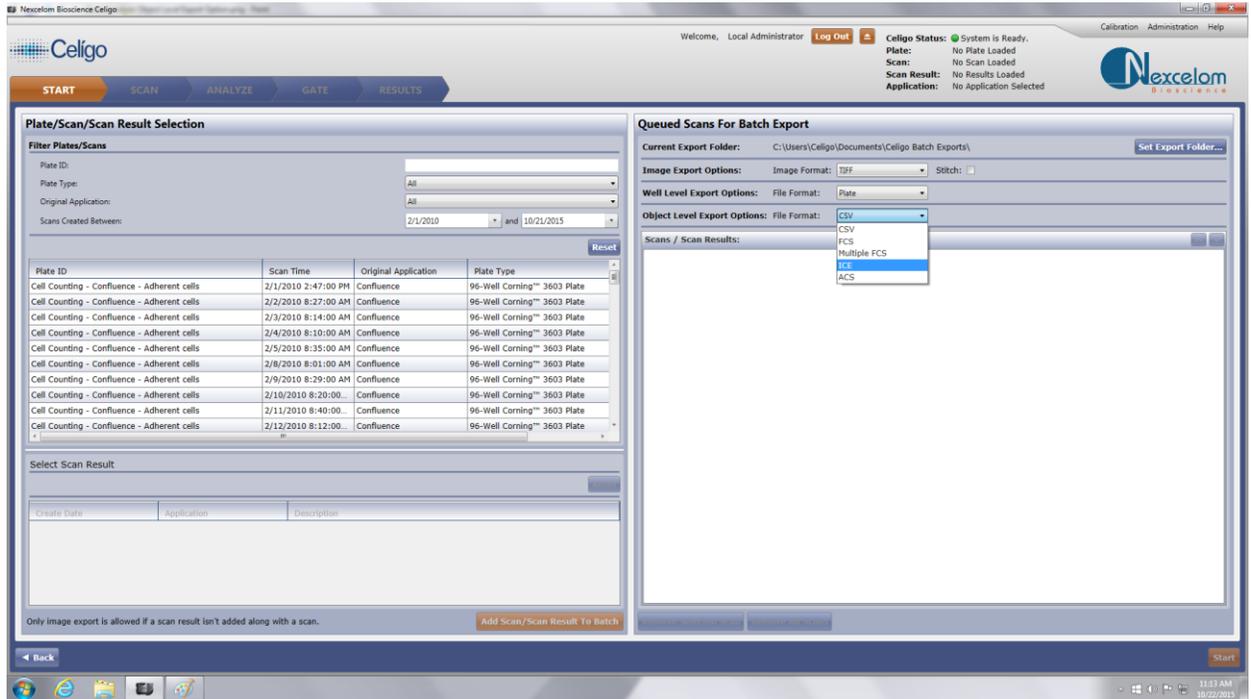
- Single well export under Results Single Well preview -> Export Object Level Data using the .ice and .acs filter



- Batch Analysis export under Object Level Export Options. Select ICE or ACS from the drop down.



4. Batch Export under Object Level Export Options. Select ICE or ACS from the drop down.



Cell#	Total	Class 1	Class 2	Class 3	Class 4	X Position (u)	Y Position (u)	Target 1: A1	Target 1: F1	Target 1: S1	Target 1: A1	Target 1: M1	Target 1: Int1	Target 2: A1	Target 2: F1	Target 2: S1	Target 2: A1	Target 2: M1	Target 2: Int1	Target 3: A1	Target 3: F1	Target 3: S1	Target 3: A1	Target 3: M1	Target 3: Int1	Ch1 Temp1	Ch2 Temp1	Ch3 Temp1	Well	
1	True	False	False	False	False	-2043.78	-2403.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
2	True	False	False	False	False	-2057.53	-2399.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
3	True	False	False	False	False	-2116.87	-2341.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
4	True	False	False	False	False	-2177.63	-2331.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
5	True	False	False	False	False	-2159.27	-2309.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
6	True	False	False	False	False	-2145.56	-2320.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
7	True	False	False	False	False	-2092.14	-2311.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
8	True	False	False	False	False	-2116.40	-2305.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
9	True	False	False	False	False	-2285.46	-2202.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
10	True	False	False	False	False	-2298.88	-2198.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
11	True	False	False	False	False	-2272.63	-2199.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
12	True	False	False	False	False	-2304.26	-2167.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
13	True	False	False	False	False	-2378.39	-2092.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02
14	True	False	False	False	False	-2466.11	-2040.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	B02

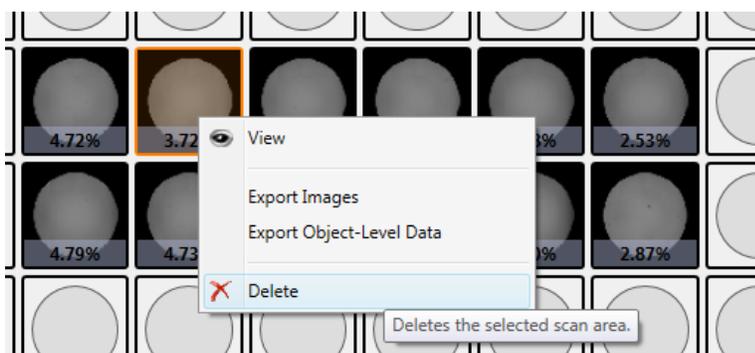
Tabular Well Level CSV

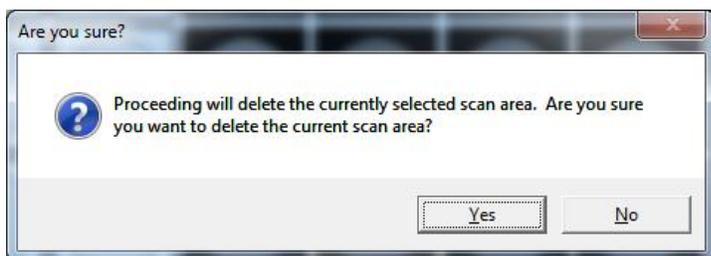
A new CSV export option exists to allow users to export data in a tabular format. The new export option is available in the well level export operation that can be found in the Results Tab, Batch Analysis, Batch Export, and Automation. The following is an example of the new data format:

17	Well	Row	Column	X Position (mm)	Y Position (mm)	Z Position (um)	Cell Count	Well Sampled (%)	Analysis Setting
18	B3	B	3	-0.08091789	-0.1990053	4.546967983	2492	100.00%	1
19	B4	B	4	-0.08869371	-0.2231659	4.547364235	1454	100.00%	1
20	B5	B	5	-0.04797094	-0.2111436	4.547760487	939	100.00%	1
21	B6	B	6	-0.03234801	-0.1973674	4.548156738	705	100.00%	1
22	C3	C	3	-0.04688578	-0.1878298	4.54934597	2579	100.00%	1
23	C4	C	4	-0.02728196	-0.179238	4.548949718	1261	100.00%	1
24	C5	C	5	-0.03960193	-0.2188646	4.54855299	1722	100.00%	1
25	C6	C	6	-0.01760064	-0.1803754	4.54855299	536	100.00%	1
26	D3	D	3	-0.04159114	-0.1826474	4.549742222	2560	100.00%	1
27	D4	D	4	-0.06678807	-0.2038112	4.550138474	1555	100.00%	1
28	D5	D	5	-0.004308408	-0.1977137	4.550534725	732	100.00%	1
29	D6	D	6	-0.00817934	-0.1914536	4.550534725	340	100.00%	1
30	E3	E	3	-0.03425521	-0.1615941	4.550534725	2740	100.00%	1
31	E4	E	4	-0.01240727	-0.1778309	4.550534725	1308	100.00%	1
32	E5	E	5	-0.03371827	-0.2428215	4.550534725	1252	100.00%	1
33	E6	E	6	-0.01230651	-0.1931985	4.550534725	347	100.00%	1
34	F3	F	3	-0.02491492	-0.1331238	4.550930977	2389	100.00%	1
35	F4	F	4	-0.04653507	-0.1760479	4.551327229	1257	100.00%	1
36	F5	F	5	-0.004846965	-0.1422344	4.55172348	946	100.00%	1
37	F6	F	6	0.02687424	-0.1472853	4.552120209	547	100.00%	1
38	G3	G	3	-0.006122807	-0.115742	4.552120209	2362	100.00%	1
39	G4	G	4	0.01349932	-0.1104538	4.552120209	1196	100.00%	1
40	G5	G	5	-0.03615137	-0.1287093	4.552120209	940	100.00%	1
41	G6	G	6	0.03342072	-0.1345426	4.552120209	987	100.00%	1
42									

Well Deletion

The user has the ability to delete wells in the Results Tab when viewing a scan. To delete a well, the user must right click on the well they intend to delete, and select “Delete”. After clicking the button, the user will be prompted to confirm the deletion. After the user confirms the action, the well will be deleted and removed from the user interface and the next well will become selected.





The user can also choose to delete a well while viewing the full well images. An option to delete the well is available at the top of the screen. If this option is selected, the user will be prompted to confirm the deletion. After the user confirms the action, the well will be deleted and removed from the user interface and the next well will become selected.



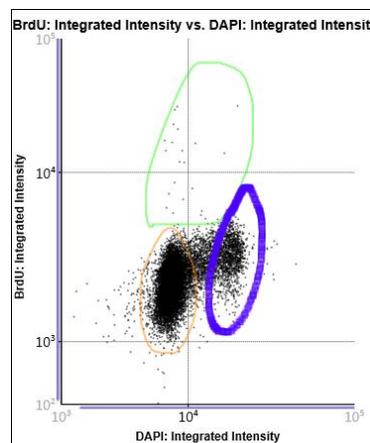
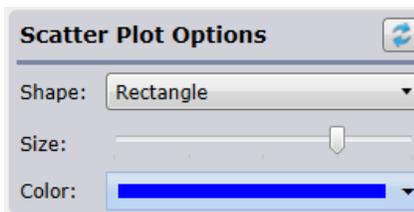
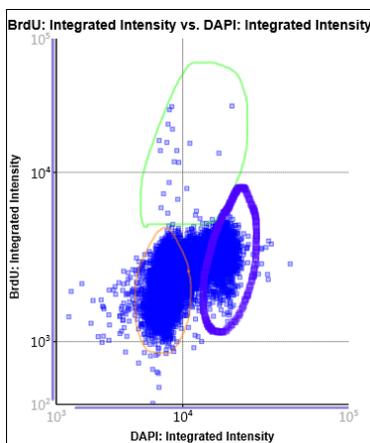
In the event that the user deletes the last well for a scan, the scan itself will also be deleted and the application workspace will auto select the first scan belonging to the loaded plate. If no other scans exist for the loaded plate, the application workspace will clear and the user will be redirected to the start screen of the application.

Usability Improvements

A number of usability improvements have been made to the software.

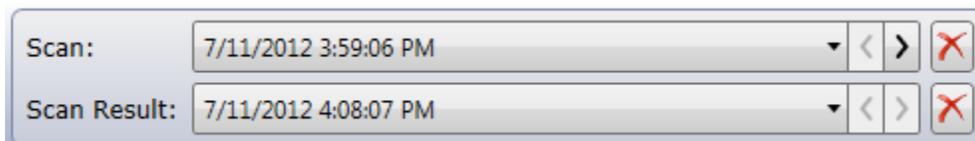
Gate Scatter Plot Display Options

On the Gate Tab, the user has the ability to modify the display settings of a scatter plot. To do so, click the “Modifies the plot settings” button and additional options will appear that allow the user to modify the plot’s data points’ shape type, shape size, and shape color.



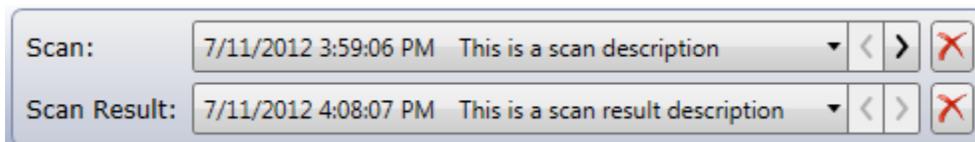
Scan Deletion in Results Tab

The option to delete a scan from the Results Tab is now available. If the scan is deleted, the application workspace will auto select the first scan of the loaded plate. If no other scans exist for the loaded plate, the application workspace will clear and the user will be redirected to the application start screen.



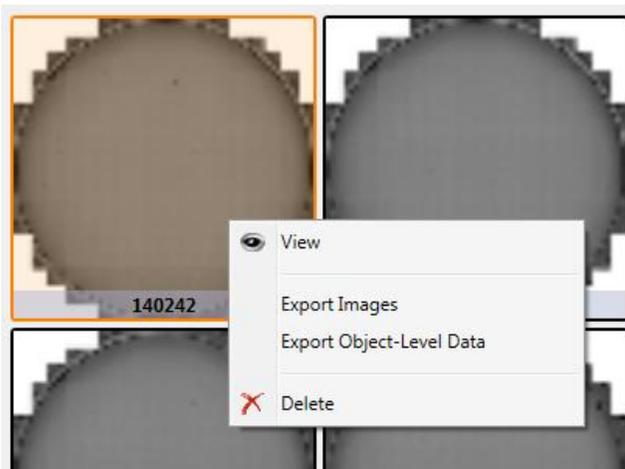
Scan / Scan Result Descriptions in Results Tab Selection Dropdowns

Scan and Scan Result summaries are now displayed in the Scan and Scan Result selection controls. These controls are visible at the top of the Results Tab and in the plate navigation control when viewing images for a specified well.



Updated Context Menu for Scan Grid in Results Tab

A context menu has been revised for the scan grid view in the Results Tab. Users can now right click on the well and the new options appear for viewing and deleting a well.



New Date Selection Widget

A new control is now in the software for date selection. This control allows easier selections of month, day, and year.



New Design for DataGrid Widget

A new design for data grids is now in the software allowing better identification of selected rows.

Plate ID	Scan Time	Original Application
Cell Counting - Confluence - Adherent cells	2/1/2010 2:47:00 PM	Confluence
Cell Counting - Confluence - Adherent cells	2/2/2010 8:27:00 AM	Confluence
Cell Counting - Confluence - Adherent cells	2/3/2010 8:14:00 AM	Confluence
Cell Counting - Confluence - Adherent cells	2/4/2010 8:10:00 AM	Confluence
Cell Counting - Confluence - Adherent cells	2/5/2010 8:35:00 AM	Confluence
Cell Counting - Confluence - Adherent cells	2/8/2010 8:01:00 AM	Confluence
Cell Counting - Confluence - Adherent cells	2/9/2010 8:29:00 AM	Confluence

Plate Profile Changes

The following are plate profiles that have been added, updated, or deleted:

Plate Profile Name	Manufacturer	Catalog ID	# of Wells	Status
1-Slide holder (2/3 cover slip)	Nexcelom Bioscience	200-1SL-HDLR	1	Updated
1-Slide holder (square cover slip)	Nexcelom Bioscience	200-1SL-HDLR	1	Updated
4-Slide holder (2/3 cover slip)	Nexcelom Bioscience	200-4SL-HDLR	4	Updated
4-Slide holder (square cover slip)	Nexcelom Bioscience	200-4SL-HDLR	4	Updated
1-Well Nunc™ Omnitrax	Thermo Scientific	242811	1	New
96-Well Aurora™ 1153 Plate	Brooks Life Science Systems	1153	96	Updated
96-Well Corning™ 3603 Plate	Corning	3603	96	Updated
96-Well SeaHorse™ XF96 Plate	SeaHorse	XF96	96	New
96-Well Nexcelom3D ULA-96U Ultra-Low Attachment U-Bottom Plate	Nexcelom Bioscience	ULA-96U	96	New
384-Well BD Falcon™ 353962 Plate	Corning	353962	384	New
384-Well Nexcelom3D ULA-384U Ultra-Low Attachment U-Bottom Plate	Nexcelom Bioscience	ULA-384U	384	New

Bug Fixes

The following section lists each bug that was addressed in this release.

ID	Title
85	Gating tab with Omnitrax error
93	Results New Well Image Refreshing

135	Numeric Minimum Forcing
136	FCS Exporting
210	Move plate profile Corning 3603 to Supported list
211	Move plate profile 384w Corning 3827 to Supported list
212	Include plate profile 384-well BD Falcon 353962 as Supported
213	Remove Aurora plates from included profiles
215	Add 96w Seahorse plate profile to imaged list
216	Change slide holder profiles to Nexcelom instead of Brooks Life Science Systems
222	Installation Fail - Rollback incomplete
223	Mock/Satellite broken with Upgrade
267	1-Well Nunc Omnitray TM superscript
268	warning in event log should be marked as error
269	Application freezes when clicking on wells quickly
385	Analysis settings should not be accessible to users that do not have access permission
387	Satellite Restore Progress Value always 0 percent even though progress is made or complete
392	TS Growth Tracking states it's reporting in csv export Ave Area, but it really is reporting Estimated volume
426	Read/Write/Delete user is able to change folder permissions
432	Exporting Multiple Setting Files
448	Recover Free Space error
469	Batch Analysis: scan selection at bottom of list jumpy
470	Batch Analysis: right panel doesn't stay in view of last scan selected
557	DB Migration 3.1.0.0 Hardcoded 'USE CELIGO'
558	Data Mgmt: Data columns not scrolling
559	Deleting Tags CAPS Behavior
562	Renaming Plate with already taken name
568	Scan Filter - Has Results: No
572	Has Data/Settings interaction between tabs
576	Well Deletion Crash
577	DB Mgmt: Data vertical scroll bar reverting on click
578	DB Mgmt: Data vertical scroll bar + mouse wheel
589	Scan Export (archive) not working
629	HWAF Cal gain not set by default
630	Application SLOW loading
634	Auto Refresh w/Reset Filter
635	New Scatter plot settings causing DNA Synthesis scans

	to crash in gate tab
638	Double clicking folders in folders table should check/uncheck
640	Data management: enter should invoke search when typing (if auto refresh)
642	Data filters created between should have text changed
644	Data results disappear after perform export and delete (archive and delete)
646	Clear all tags should clear children as well
648	Focus not set on tag dialog
650	well deletion should select next well
653	csv export (well level) on results screen should have a default name
655	enable plate profile calibration always
658	Dialog for importing plates still states restore
661	Folder operations (new, modify, delete) are not reflected in results or other tabs if auto refresh on
664	Data Mgmt: Column sorting + Folder Deletion
665	Creating Plate Crash
666	Settings - Folder Creation Fatal Crash
667	Data Mgmt: Folder Modification + Auto Refresh SLOW
668	new data grid style for gating data grids causing slowness with large number of aois
670	Plate ID text wrapping in Data Mgmt
671	Automatic re-sizing of application column in Data Mgmt crashes the Celigo application
674	Load Existing Scans, Plate IDs only visible in "All Folders"
675	New measurements do not appear in updated applications for old scan results in Analyze Tab Preview Results until after re-analysis.
676	v3.1 installers install applications with v3.0.2
678	Automation Sample app still states ice on ui
679	Automation export of ice on 96 well caused an assert
681	load scan with no results should auto select create new mode
682	Restoring Window extremely buggy
683	Access Empty Database Error
684	USBIOControlService.exe = Brooks Labeled
686	Result Screen when a single well is selected and displayed, Export Object Level Data Fails for ACS (was ICE)
687	ACS format export failing, due to misbehaving

	Debug.Assert
699	Disable Plate Calibration before login
703	Regression Testing 3.1 Output File Names
705	Data migration failed for large 3tb network database
706	data management slow for large data sets
708	Crash when naming a population ALL
710	Reports button the results scan grid has incorrect text margin
711	Generate report causes crash if no scans selected
712	modified scan description is not updated in the dropdown summary
713	Default name for well level export is not valid
714	No default file name specified for plate level object level export
715	Evaluate Performance of ACS export
716	Batch: Entering a start date that's past the end date for a filter causes a crash
717	Celigo S upgrade process doesn't have code that allows plate calibration wizard
720	No busy cursor when browsing for archives
725	long folder names when creating new folders expands the size of the new folder dialog
730	Moving data to another user's private folder not working as expected.
733	check all/uncheck all keeps action buttons enabled
734	renaming a plate, enter should complete the task
735	empty plate name allowed
736	Implicit filters?
737	exporting a classification setting always gives an error
751	Load/Acquisition of 1536 plates one after the other results in different geometry layouts
752	Segmentation missing objects in a single well of a multi well acquisition/analysis of 24 well plate.
759	uncheck/check all folders performs refresh for each folder
769	Very wide plate viewer control when long descriptions for scan or scan result are present.
776	Batch Analysis - Scan Time not displayed
777	Multi channel (BR + FL +...) exports to .ice not exporting correct mask dimensions
780	double click on folders in data management should be exclusive
785	Incorrect Thumbnail displayed in Result Tab

787	Sorting no longer working for data management data tab columns
788	Implement Nexcelom3D plate profiles in 3.1 release
793	Plate ID Field Cleared if Current Value Matches Saved Value
799	Recover Free Space is creating error message
800	User Data Not Displayed Until Subsequent Action
808	Scan Results Created By Breakdown Pie Chart Missing
824	Results being deleted with migration
828	Data Summary - Over Time - Scan Result chart empty
836	Error occurring after well deletion