

21.2 RELEASE NOTES

FOR RESEARCH MATERIAL MANAGEMENT

16 DECEMBER 2021



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WELCOME

The **JAGGAER Research Material Management (RMM) 21.2 Product Release** is available as of **16 December 2021**.

This document will help you:

- Understand the impacts of new features on your end-users, approvers, administrators, and other individuals using the system
- Understand any changes required on your part to enable a feature of the system
- Provide a starting point of “where to go” to learn more about the features and functionality discussed in this document.

HIGHLIGHTS OF RELEASE 21.2

Structure Search Enhancements

In release 21.2, the Structure Search functionality has been significantly reimaged and improved. Developed in collaboration with eMolecules, the 21.2 release marks the most significant changes to Structure Search since its inception. This release provides significantly increased level of functionality and improvements to the user experience:

- New Structure Properties – previously only one property, mol weight, was displayed for a given structure. With this release, an additional eight properties have been introduced in conjunction with the eMolecules database. Other attributes may be enabled for other structure database via database driver configurations or future releases.
- Advanced Search criteria and filtering using the new structure attributes
- Sourcing up to 10,000 Structures – previously the limit was 200
- User Interface Enhancements

In conjunction with the structure search enhancements listed above, RMM 21.2 introduces interactive user guides. Interactive user guides step the user through functionality on each structure page to give the user a better understanding of the functionality. User guides are used in conjunction with on-line help to assist the user in taking full advantage of structure search capabilities. In the future, interactive user guides will be added to other RMM capabilities.

Receiving Enhancements

To improve the user experience in Receiving, several enhancements have been made. Users can now “undo” a receipt or cancellation which was done by mistake.

Additional search result fields have been added to Receiving and users can now export the results of a Receiving search.

For receiving items which do not create RMM containers, users can now receive multiple request items at one time.

Authentication

Critical Internet-accessible services can be subjected to password attacks. Security best practices recommend using two-factor authentication to reduce the risk that credentials can be guessed or stolen for reuse.

RMM 21.2 introduces the ability to configure RMM to require two-factor authentication.

Material and Container Attachments

Document attachments are now supported for materials and containers

For containers created via the request process, a request item attachment can be transferred to containers created for that item during Receiving.

Data Loader Enhancements

Primarily used for the bulk loading of new data into RMM, the 21.2 release introduces the ability to use Data Loader to perform bulk updates for several data entities – in addition to loading of new data.

FEATURE SNAPSHOT

The following table provides a summary of enhancements available in RMM 21.2

Feature Name	Related Functional Areas	Integration Impact	On by Default	Requires Setup	Contact JAGGAER
Approvals					
Attachments	Materials, Containers, Receiving				
Container Operations	Set Storage Code				
Data Loader – Update Data	Container, Person, Locations, Stockroom, Materials				
People	Password Change Notification				
Receiving – General Enhancements					
Receiving – Multiple Items					
Receiving – Undo Receiving					
Source Search eMolecules					
Stockroom – Assigning Stockrooms to Users					
Stockroom History	Stock Master Item, Stock Replenishment				
Stockroom Restocking	Mobile Computer Handheld				
Structure Search Enhancements					
Two-Factor Authentication					

STRUCTURE SEARCH ENHANCEMENTS

In response to client requests and using extensive input from researchers who have worked with RMM Structure Search, RMM 21.2 enhances the Structure Search user experience with significant functional enhancements developed in collaboration with eMolecules.

The following sections describe in detail the feature and function impact for changes and enhancements to RMM Structure Search.

CUSTOMER IMPACT

- Feature Activation: This feature is **On** by default.
- New Permissions related to this Feature: None
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: Researchers

Accessed Via: RMM | Search and Request | Structure Search

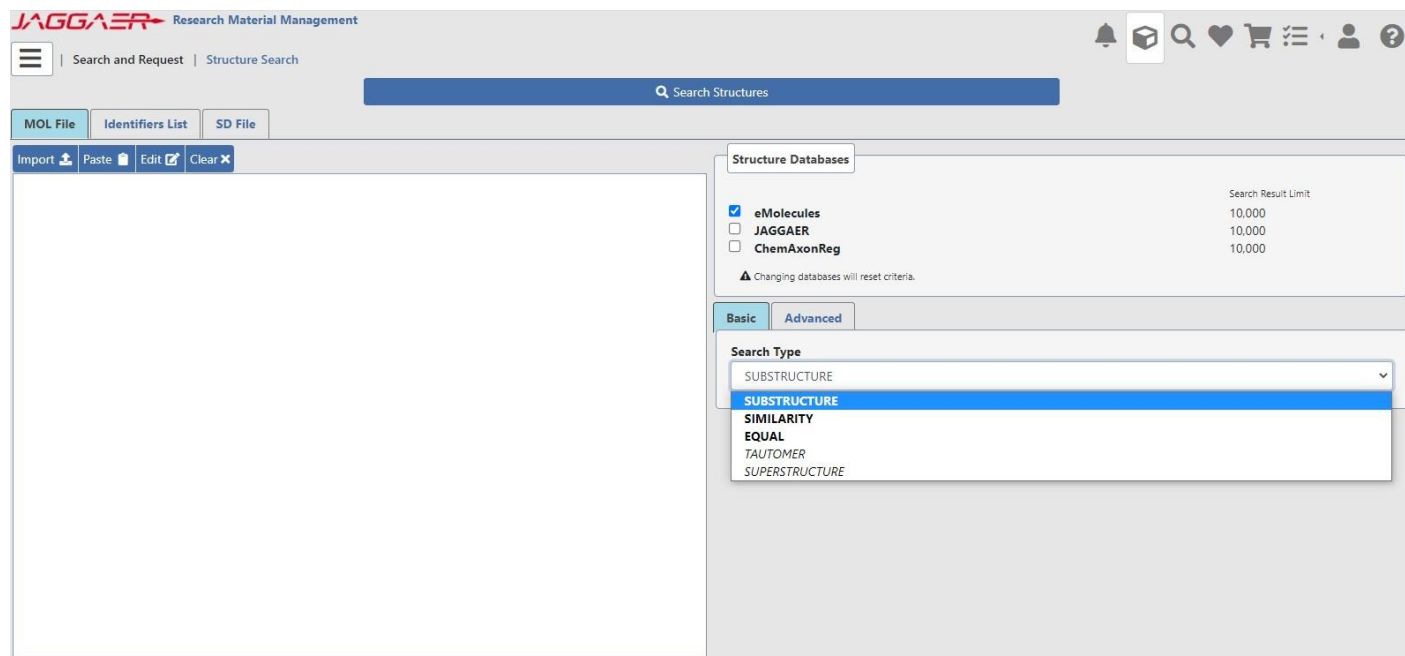
OVERVIEW

The following highlights the major structure search enhancements:

- New Structure Properties – previously only one property, mol weight, was displayed for a given structure. With this release, an additional eight properties have been introduced in conjunction with the eMolecules database. Other attributes may be enabled for other structure database with database driver configurations or future releases.
- Advanced Search criteria and filtering using the new structure attributes
- Sourcing up to 10,000 Structures – previously the limit was 200
- User Interface Enhancements

STRUCTURE SEARCH CRITERIA

Shown below is the Structure Search criteria page for the RMM 21.2 release.



Structure Search Criteria Page

On the left-side of the Structure Search criteria page, users can still import, paste, edit/draw and clear molecular structures using the MOL File tab. The Identifiers List tab (previously called List) has been enhanced (described later in the Release Notes) and a new option, SD File (also detailed later in the Release Notes), has been added to the search options.

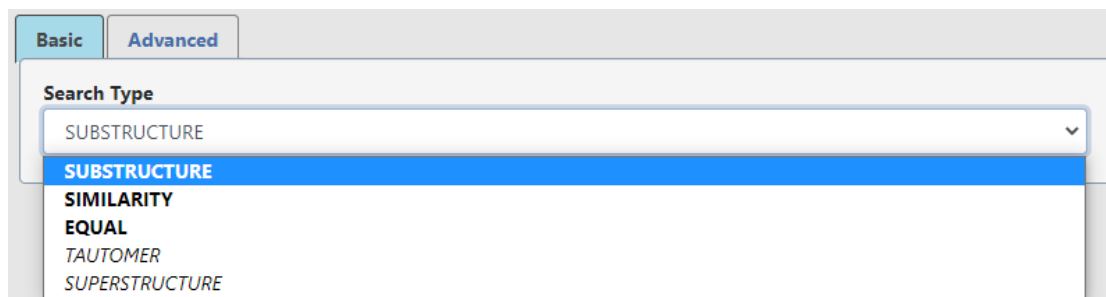
On the right-side of the Structure Search criteria page, users still select the structure databases they wish to search. The Structure Search functionality introduced previously to enable search results of up to 10,000 structures has been expanded to extend this limit to additional structure database sources. This capability depends on the structure database being searched; the Structure Databases section has been enhanced to show the structure results limit for each structure database.

New to the Structure Search criteria page are options for Basic or Advanced search criteria, described in detail below.

Controls have been simplified to improve usability. The Structure Search criteria page now contains a single, large button at the top of the structure criteria area to initiate the structure search. In addition, the previous “include sources” checkbox has been removed; the user now determines about how best to proceed with their structure search after reviewing the preliminary results of the search.

Structure Search - Basic

New to the Structure Search criteria page are options for Basic (shown below) or Advanced search criteria.



The image shows a web interface with two tabs: 'Basic' and 'Advanced'. The 'Basic' tab is selected. Below the tabs is a dropdown menu titled 'Search Type'. The dropdown is open, showing a list of search options. The first option, 'SUBSTRUCTURE', is highlighted in blue. Below it are 'SIMILARITY', 'EQUAL', 'TAUTOMER', and 'SUPERSTRUCTURE'. The first three options are in bold font, while the last two are in italicized font.

Structure Search – Basic Criteria options

Within the Structure Search criteria Basic tab, a user has the option to select one of the following types of searches:

- Substructure
- Similarity
- Equal
- Tautomer
- Superstructure

Available search types depend on the structure database(s) selected for searching; the search types supported by the user's selected Structure Database(s) are denoted in a bold font. Search Types not supported by the selected structure database(s) are indicated in an italicized font.

Additionally, the *type* of search selected by the user becomes the default option the next time they perform a structure search.

Structure Search - Advanced

In addition to the Basic Search Type, users can now provide Advanced search criteria. Shown below, Advanced criteria significantly enhance the ability to target structures of interest, especially in very large structure databases. As with search types on the Basic criteria tab, available Advanced search criteria are determined by the selected structure databases, and currently available criteria are denoted in bold. Advanced search criteria not supported by the selected structure database(s) are italicized.

The screenshot shows the 'Advanced' search criteria interface. At the top, there are two tabs: 'Basic' and 'Advanced', with 'Advanced' being the active tab. Below the tabs is a 'Search Type' dropdown menu currently set to 'SUBSTRUCTURE'. Underneath the dropdown are two buttons: 'Add Criteria' and 'Reset Criteria'. A dropdown menu is open under 'Add Criteria', listing the following search criteria: Atom Count, Chiral Center, CLogP, Has Metal, Hydrogen Acceptor, Hydrogen Donor, Lipinski Violations, Molecular Weight, and Polar Surface Area. The criteria 'Atom Count', 'Chiral Center', 'CLogP', and 'Has Metal' are displayed in bold text, indicating they are supported by the selected database(s). The remaining criteria ('Hydrogen Acceptor', 'Hydrogen Donor', 'Lipinski Violations', 'Molecular Weight', and 'Polar Surface Area') are displayed in italicized text, indicating they are not supported.

Structure Search – Advanced Criteria options

Within the Structure Search criteria Advanced Search Type tab, a user has the option to choose from any of the advanced structure criteria that are supported by integrated structure databases. Advanced search criteria are sent to structure databases along with structure or list criteria as part of the initial search request, and therefore they are applied before the limit on structure results in RMM takes effect. This capability is particularly important when performing relatively general substructure or similarity searches against large structure databases, because it enables the user to target structures of interest across an entire database, before they can be excluded by result set restrictions.

If your configuration includes the eMolecules structure database, the following structure property criteria are available when only that structure database is selected:

- Molecular Weight (available with all structure databases)
- Atom Count
- Chiral Center
- CLogP
- Has Metal

- Hydrogen Acceptor
- Hydrogen Donor
- Lipinski Violations
- Polar Surface Area

For the 21.2 release, the advanced search criteria (excepting Molecular Weight) are only *natively* available when using the eMolecules structure database. Other criteria may be enabled in your specific configuration, or in future releases of RMM. If your RMM configuration is integrated with your organization’s structure database(s) via custom drivers accessing your services, JAGGAER professional services can work with you to enable other criteria/attributes offered by your services. Please contact RMM Support to request more information.

As shown below, each of the advanced structure property criteria allows the user to provide either a range of values or a “Yes / No” selection (as in “has metal”, shown below).

Basic		Advanced	
Search Type			
SUBSTRUCTURE			
Add Criteria		Reset Criteria	
Minimum	<=	Atom Count	<= Maximum
Minimum	<=	Chiral Center	<= Maximum
Minimum	<=	CLogP	<= Maximum
		Has Metal	Yes
Minimum	<=	Hydrogen Acceptor	<= Maximum
Minimum	<=	Hydrogen Donor	<= Maximum
Minimum	<=	Lipinski Violations	<= Maximum
Minimum	<=	Molecular Weight	<= Maximum
Minimum	<=	Polar Surface Area	<= Maximum

Advanced Structure Property Criteria options

Note that if a user changes their structure database choice after entering advanced structure property criteria, all of the advanced structure property criteria will be reset.

Structure Search – SD File Search

The SD File search option was available in previous versions as an option within Identifiers List. Separated into its own search tab, the SD File search is now a more intuitive search option. The SD File search accepts up to 200 structures for the JAGGAER structure database or up to 50 structures for other structure databases.

MOL File	Identifiers List	SD File
Import SD File		

Structure Search Criteria – SD File Tab

STRUCTURE SEARCH RESULTS STATUS

Clicking the “Search Structure” button displays the new Structure Search Status page. This page has been introduced to provide an overview of search results and help the user determine how best to navigate them.

The screenshot shows the 'Structure Search Status' page. At the top, it says 'Retrieving Identifiers.' Below that, there are three status indicators: 'Retrieving Identifiers' (running person icon), 'Prioritizing Structures' (upward arrow icon), and 'Search Complete' (checkmark icon). A table lists the structure databases being searched:




Structure Databases (in Priority Order)	Status	Search Time (seconds)	Prioritized Structures
eMolecules	↑	2	
JAGGAER	🚶		

Below the table, it says 'Total 0'. To the right, there is a search type dropdown set to 'SUBSTRUCTURE' and 'Advanced Criteria' set to 'Molecular Weight <= 150'. A chemical structure of a bicyclic compound is shown. At the bottom, there is a 'New Structure Search' button.

Structure Search Status Page – Search In Progress

For each selected structure database, the Structure Search Status page provides the status of the search as it is being executed, the elapsed time to complete the search, and the number of “Prioritized Structures” (see below) returned by the search. In addition to the information displayed for each structure database, the status page shows the type of search executed (Substructure, Exact, etc.) and the criteria used for the search, including any advanced criteria.

The Structure Search Status page will display the following three search statuses, each denoted by an icon:

- Retrieving Identifiers 
- Prioritizing Structures 
- Search Complete 

STRUCTURE DATABASE PRIORITY

The concept of structure database priority has existed in prior RMM releases; in release 21,2, the concept, and its impact on search results, are more visible to the user. Each integrated structure database is assigned a priority relative to the others, and the structure databases are listed in descending priority order. Database priority affects search results in two ways:

- When the same structure (as determined by assigned identifiers) is returned from two or more structure databases, the structures are “merged” into a single search result, and only the structure from the highest priority database is displayed to the user
- The total combined search result from all structure databases cannot exceed 10,000 structures. For large search results, RMM begins with the highest priority searched database, presenting up to 10,000 structures from that database. If the total result set from the highest priority structure database is less than 10,000, RMM will then add (non-merged) structures from the next priority database, and so on, until the maximum of 10,000 structures is reached. The *Prioritized Structures* value for each database indicates the number of structures that database has contributed to the current result set.

Prioritized Structure count is displayed to inform users when their search result has omitted structures that may be of interest. In this case, the user can:

- Work with the current result set as-is
- Repeat the search with a different structure database selection, or
- Repeat the search adding advanced criteria to narrow/focus the result from each database

Structure Search Status Page Search Completed

When the structure search is completed, the Structure Search Status page will look similar to the picture below.

The screenshot shows the 'Structure Search Status Page' with a 'Search Complete' notification. It features a table of search results, a chemical structure diagram, and several navigation buttons.

Structure Databases (In Priority Order)	Status	Search Time (seconds)	Prioritized Structures
eMolecules	✓	2	59
JAGGAER	✓	7	46

Total 105

SUBSTRUCTURE

Advanced Criteria
Molecular Weight <= 150

Explore Structures 🔍

Explore Structures & Sources 🔍

Selected Sources 📁 📄 📂 📌 📎

Edit Sources ⚙️

New Structure Search 🔄

Structure Search Status Page – Search Completed

Upon completion of the search against all selected structure databases, the Structure Search Status page displays the following buttons.

Explore Structures 🔍

Takes the user to the Explore Structures page, which displays structures and their properties, and provides advanced functionality – such as filtering and export of SD files and identifiers.

Explore Structures & Sources 🔍

Takes the user to the Explore Structures & Sources page, which displays structures and their properties, and determines where structures may be sourced.

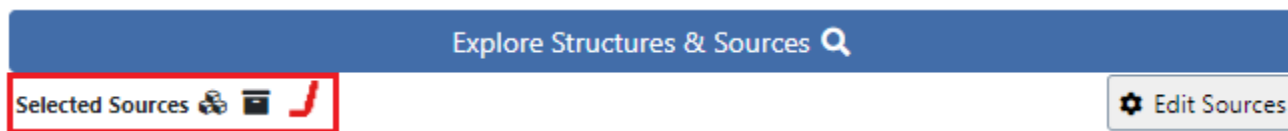
New Structure Search 🔄

Initiates a new structure search.

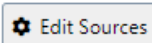
The Explore Structures and Explore Structures & Sources pages are described in detail in subsequent sections.

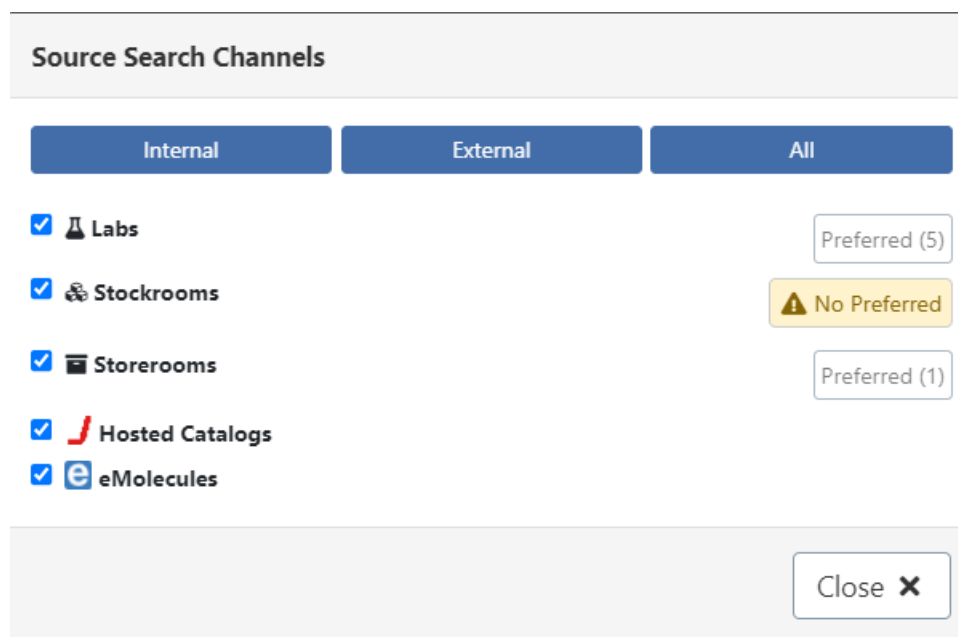
Selection of Sources

The Structure Search Status page is where a user selects the sources to be searched if they are going to opt to 'Explore Structures & Sources'. The currently selected sources are displayed. In the picture below, the user has selected the stockroom, storeroom, and JAGGAER hosted catalog sources.



Currently selected search sources

The  button opens the Source Search Channels window where users set their search source options. Previously, this was available on the Structure Search criteria page.



Source Search Channels window

EXPLORE STRUCTURES & SOURCES

If you are satisfied with the search summary provided on the status page, you can proceed directly to sourcing all of the structures in your search result. Selecting the [Explore Structures & Sources](#) button from the Structure Search Status page, or the [Start Source Search for Selected Structures \(8\)](#) button from the Structure Explorer page, opens a version of the Structure Explorer page (shown below) which displays structures and their properties, and determines from where structures may be obtained. A version of this Structure Explorer page was available in previous releases. Accessed when a user performed a structure search with the 'Include sources' option selected, this page has been enhanced for the 21.2 release with the following new features:

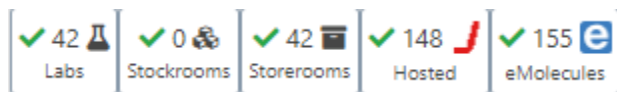
- The maximum number of structures you can source has increased from 200 to 10,000
- You can choose attributes to display with each structure

When this page opens, RMM starts the process of determining from which sources each structure may be obtained.

The screenshot displays the JAGGAER Research Material Management interface. The top navigation bar includes 'Search and Request' and 'Structure Explorer'. Below the navigation, there are buttons for 'Back to Explore Structures' and 'New Structure Search', along with a 'Toggle Structure Properties' button. A status bar shows counts for Labs (42), Stockrooms (0), Storerooms (42), Hosted (148), and eMolecules (155). The main content area displays a grid of 10 chemical structures, each with a source count and a 'Properties' dropdown menu. The structures include brominated benzenes, deuterated benzenes, and brominated cyclohexanes. At the bottom, there is a 'Structures Sourced: 1 - 200 of 8,152' indicator, a '1/41' page indicator, and a 'Source Next Page' button.

Structure Explorer page – Explore Structures & Sources option

The source icons (shown below) at the top of the page display each source and the number of structures found for each source. In the example below, 42 structures have been found in labs, 42 in storerooms, 148 in hosted catalogs, and 155 in eMolecules, while 0 structures have been found in stockrooms. Note that the sources displayed is based on the sources selected (see the [Selection of Sources](#) section).



Sourcing up to 10,000 Structures

RMM can source up to 10,000 structures, 200 at a time. Each Structure Explorer page displays 200 structures per page.

Each page is sourced as it is displayed. Using the source next and source previous buttons, users navigate through their structures, sourcing one page at a time. Shown below, the Structure Explorer page displays the number of sourced structures from the total result set along with clear navigation aids to move within the structure results.

In the example of the navigation bar at the bottom of the page (shown below) the total number of structures found is 8,152, the user has navigated to the 2nd of 41 pages (2/41), and is viewing the 201 to 400th structure.

Structures Sourced: 201 - 400 of 8,152



Source Previous Page

2/41

Source Next Page



Display of Structure Properties

Properties for each structure are now displayed. The user can determine which properties to always see, or they can see all the properties for each structure by clicking on the properties drop down. Users that have selected structure properties they want to see have the option to hide those properties via the


Toggle Structure Properties

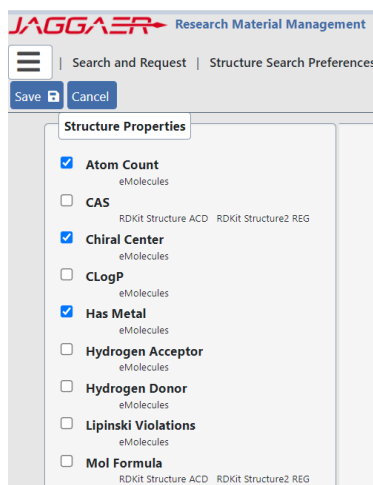
button. Selecting this button will turn on / off the display of selected structure properties.

In the standard configuration for the 21.2 release, Advanced Search Properties and Structure Properties are the same. This is not necessarily the case in all installations; a structure database that is accessed via a custom driver can be configured to return additional properties that are not supported as search criteria. To learn more about configuring properties for a structure database source, please contact RMM Support.

Structure Properties Preference

Users can select which of the available structure properties they want to always have displayed in the result set.

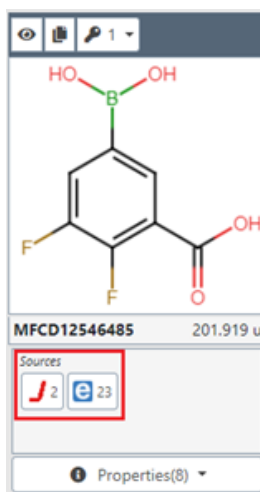
The  button in the lower right-hand portion of the Structure Explorer page opens the Structure Search Preferences window that lists all the properties available for display. Underneath each property, in italics, is the structure database that contains that property. In the picture below, the user has selected to display Atom Count, Chiral Center, and Has Metal properties with each structure in the search result.



Structure Search Preferences window (not all properties shown)

Structure Source Search

As in earlier versions, selecting a source for a structure by clicking on a source icon for the structure (shown below) will take the user to Structure Source Search page.



Structure Explorer page – navigating to Structure Source Search results

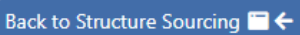
The Structure Source Search page (shown below) is relatively unchanged for this release.

The screenshot shows the JAGGAER Research Material Management interface. The main content area displays the chemical structure of 5-Borono-2,3-difluorobenzoic acid (MFC12546485 (23)) with a molecular weight of 201.92 u. Below the structure, a table lists suppliers and their prices:

Accelerated, Price inclusive of \$55 acceleration fee for 2-Day Delivery		
Combi-Blocks 632377596	250mg	331.00 USD
Combi-Blocks 626502417	1g	743.00 USD
Tier 1, Ships in 1-5 business days		
AOBChem USA 532119965	250mg	211.00 USD
AOBChem USA		

On the left side, there are filter options for Tier, Mol Weight, and Price. The Tier filter shows options (2) 0, (5) 1, (1) 2, (9) 3, and (6) 4. The Mol Weight filter shows Min: 201.92 and Max: 201.92. The Price filter is currently empty.

Structure Source Search page

Navigation from the Structure Source Search page back to the structure selection paged has been simplified with the addition of the  button.

EXPLORE STRUCTURES

If the summary search statistics on the Search Status page reflect a very large search result, the Structure Explorer can help you refine and target the most interesting structures in your result set before you start the process of sourcing all of them. Selecting the [Explore Structures](#) button opens the Structure Explorer page


The screenshot displays the JAGGAER Structure Explorer interface. At the top, there is a navigation bar with 'Search and Request' and 'Structure Explorer' options. Below this, a search bar contains 'Start Source Search' and a 'Filters' button. The main area is a grid of 12 chemical structure cards, arranged in two rows of six. Each card shows a chemical structure, its ID, and a list of properties. The first row includes structures with IDs MFCD00082304, MFCD00167575, SQ1035235, MFCD00101751, MFCD19300662, and MFCD29906815. The second row includes SQ977064, MFCD00029094, SQ1142340, SQ120698, SQ787125, and MFCD24525456. At the bottom left, it shows 'Structure Search Total: 1,227' and 'Selected: 0/200'. A navigation bar at the bottom right shows '1' and a right arrow button.

Structure Explorer page – Explore Structures option


A version of the Structure Explorer page was available in previous releases. Previously accessed when a user performed a structure search without selecting the 'Include sources' option, this page has been significantly enhanced. New features include the ability to apply filters to the returned structures, select the structure properties to be displayed, and the ability to view or hide structure properties. Functionality available in previous releases, such as removing structures from the result set, filter for inventory items, selection of a subset of structures for sourcing and the ability to export structures (SD File and/or Identifiers) has been retained.

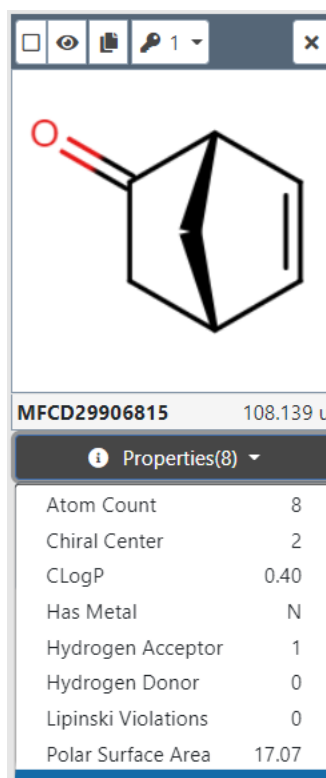
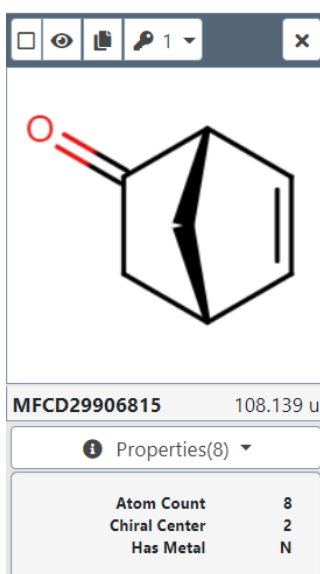
Structure Explorer Enhancements

Structure Properties

The new properties for structures introduced in this release may be viewed on the Structure Explorer page, either by clicking on the  button or having them always displayed directly underneath the structure. Each user may choose which properties are always displayed directly underneath the structure.

Pictured below is a structure with selected properties displayed. The properties that are displayed are set via the Structure Properties Preference window (detailed below).


By selecting the  button the user can see available values for all properties; some structures may not have values for all properties. The number next to Properties indicate the number of properties available for display, based on the structure databases selected. If the number is zero, the button is disabled.

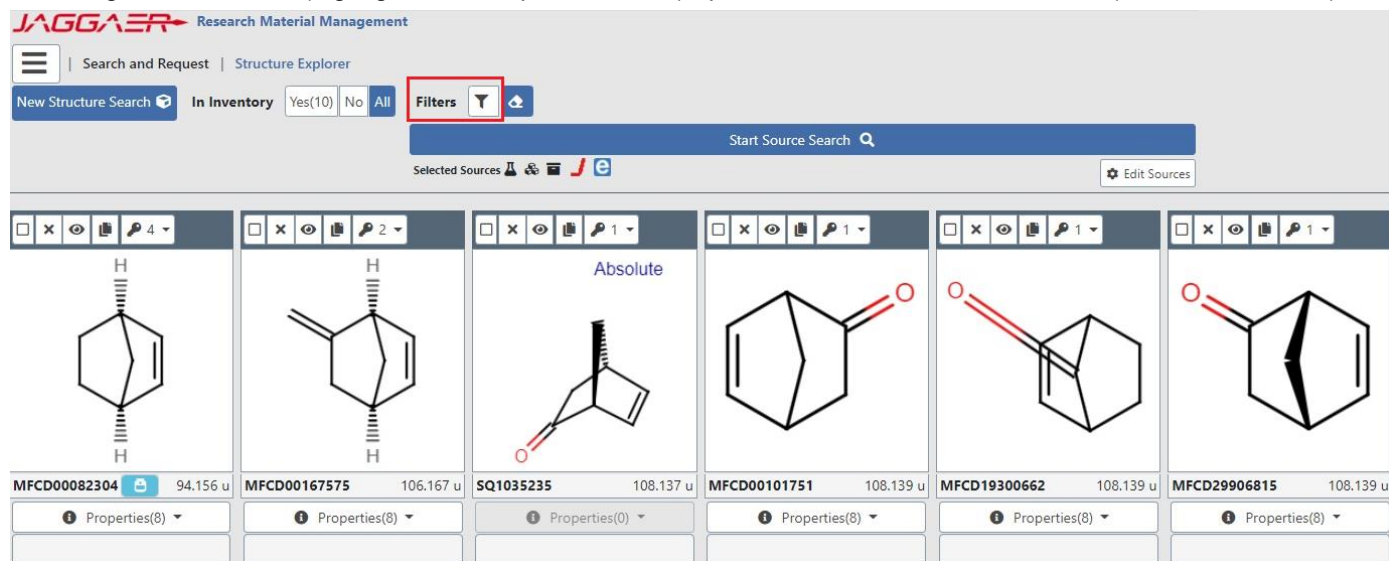


Choosing Toggle Structure Properties from the  on the Structure Explorer page will hide or display the properties displayed immediately after the structure.

Structure Filters



Selecting the  icon (highlighted in the picture below) opens the Structure Filters window (also shown below).



The screenshot shows the JAGGAER Research Material Management interface. At the top, there is a navigation bar with "Search and Request" and "Structure Explorer". Below this, there is a "New Structure Search" button and a "Filters" button with a funnel icon, which is highlighted with a red box. The main area displays a grid of chemical structures with their respective IDs and molecular weights. The structures are: MFCD00082304 (94.156 u), MFCD00167575 (106.167 u), SQ1035235 (108.137 u), MFCD00101751 (108.139 u), MFCD19300662 (108.139 u), and MFCD29906815 (108.139 u). Each structure has a "Properties" dropdown menu.

Structure Explorer – Structure Filters button










































The screenshot shows the "Structure Filters" window. It contains a table with columns for "Minimum", "Atom Count", "Chiral Center", "CLogP", "Has Metal", "Hydrogen Acceptor", "Hydrogen Donor", "Lipinski Violations", "Molecular Weight", "Similarity %", and "Polar Surface Area". Each row has a "Minimum" input field, a "<=" operator, and a "Maximum" input field. The "Apply" button is highlighted in blue, and the "Close" button is in a light gray box.

Structure Filters window


The Structure Filters window displays all of the properties that are available from any of the selected databases included in your search; however, unlike Advanced Search the available criteria for result set filtering are not limited by the structure database search option as it is on the initial Structure Search criteria page. If you specify a filter value for a property, structures in the result set that do not have that property value will be filtered out of the result set.

Filters are applied after the result set limit; after retrieving a maximum of 10,000 structures from a structure search, filtering will target structures within that set but will not retrieve additional structures that were excluded from the original result set.

Once applied, the button will reflect that a filter is in place . Across the bottom of the Structure Explorer page, the results area (shown below) will update to reflect the number of structures displayed based on the filter criteria applied.

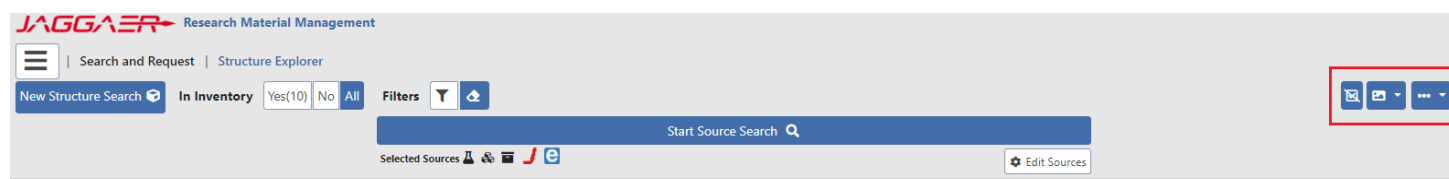
MFCD00007968  121.138 u	MFCD00007709  121.138 u	MFCD00038137  121.138 u	MFCD00043923 121.138 u	MFCD00064444 121
 Properties(8) ▾	 Properties(8) ▾	 Properties(8) ▾	 Properties(8) ▾	 Properties(8) ▾
     	     	     	     	     
Filter Total : 7,665 Structure Search Total : 10,000 Selected 0/200				1 ▾ 

Structure Explorer Results Area




Selecting the  icon will remove the filter and display the original structure search result set.

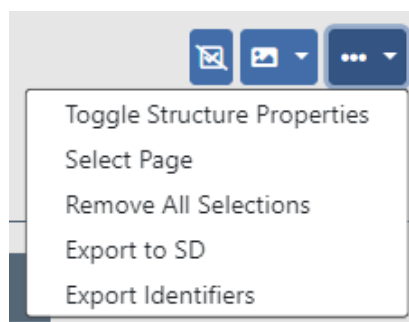
User Interface Changes

Actions previously accessed via buttons along the top of the structure results page have been grouped together as shown below.



Structure Explorer – New Structure Search button

Users can remove selected structures from the result set via the  button. The  button allows the user to select between three sizes for the rendering of the displayed structures. The  button provides access to a list of actions (shown below).



Structure Explorer – Action Ellipsis button

Options within this widget allow users to:

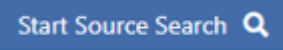
- Toggle Structure Properties (new for this release)
- Select Page
- Remove All Selections
- Export to SD
- Export Identifiers


Both Export actions will export the current results set. If no structures have been removed and no filters have been applied, all results returned by the initial search will be exported. If filters have been applied or structures have been removed, only the remaining structures and/or those within the filtered results will be exported.

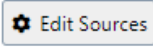
Also note that previously, a new structure search was initiated from the Structure Explorer by selecting an icon in the lower right-hand side of the results page. This function has been moved to a clearly visible button

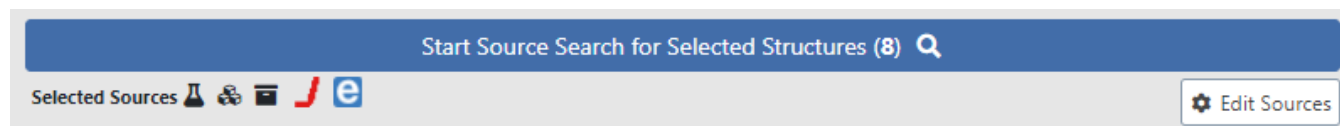
 in the upper left-hand corner of the page.

Start Source Search

If you have applied filters, but have not selected individual structures, on the Structures on the Structure Explorer page, then the Start Source Search button will display as . In this case, your entire result set, taking into account any filters that you have applied, is available for sourcing. For example, if your original result set is 5,000 structures, and you apply filters to reduce the result set to 1,000 structures, then when you click Start Source Search, RMM will automatically navigate to the Explore Structures and Sources page (shown above) and source the first 200 of your 1000 filtered structures. You can then continue to page forward, sourcing 200 structures at a time, until all 1000 structures in the filtered result set have been sourced.

If you have selected individual structures on the Structure Explorer page (up to a maximum of 200), then the Start Source Search button will display as . In this case, when you click the Start Source Search button, RMM will navigate to the Explore Structures and Sources page with only your selected structures. In this case, the page down button will not appear. To source additional structures from your result set, return to the Structure Explorer page and make a different selection of structures to source.


Just as on the Structure Search Status page, a user can see the currently selected sources and choose different sources via the  button. The selected sources will be the sources that are searched when the user performs a source search.

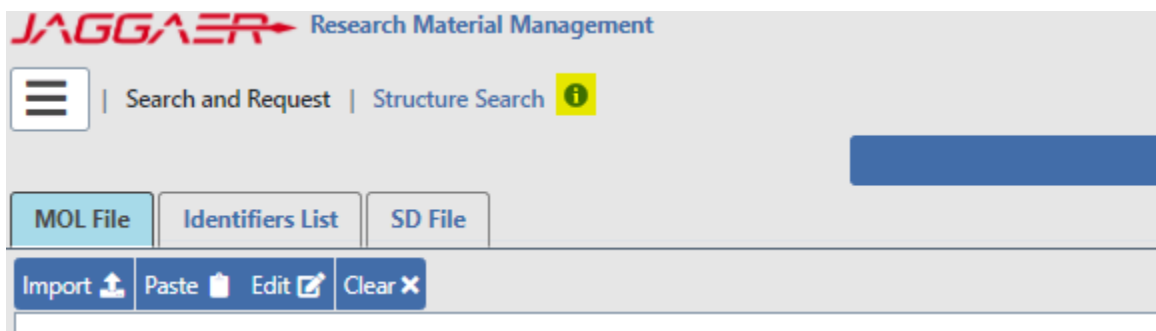



Currently selected search sources

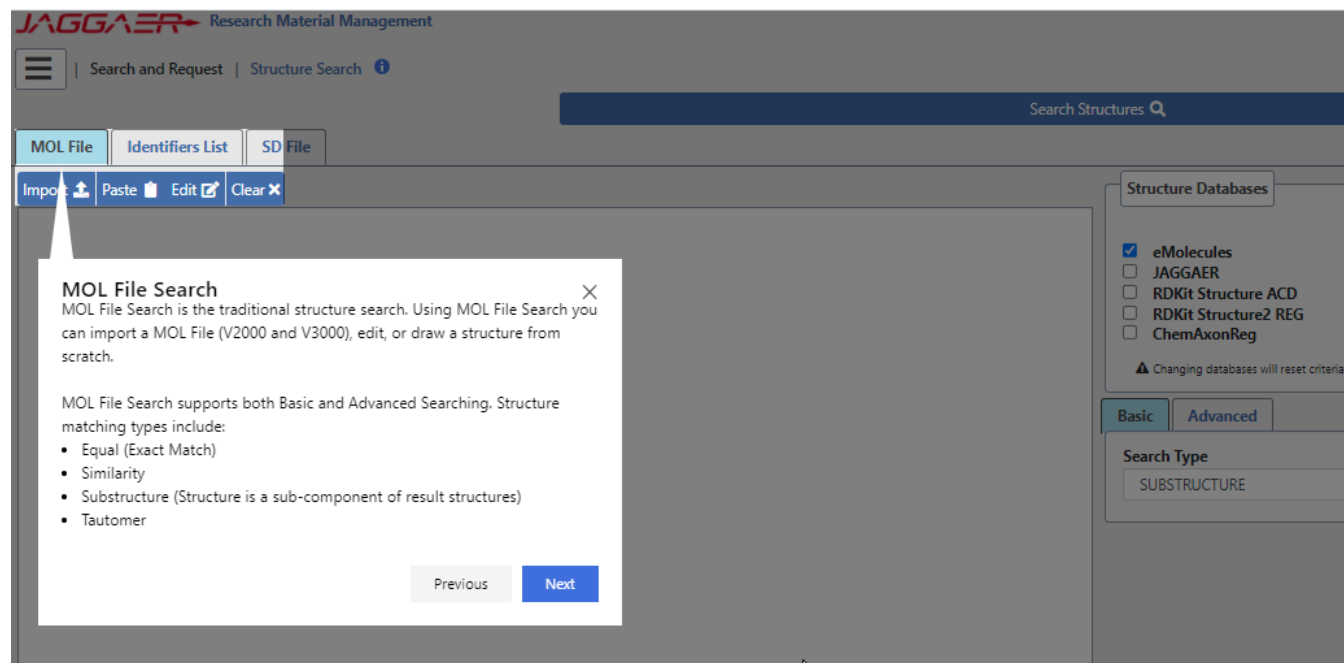
INTERACTIVE USER GUIDES

RMM 21.2. introduces interactive user guides for hosted environments. Interactive user guides step the user through functionality on each structure page to give a better understanding of the functionality. User guides are used in conjunction with on-line help to assist the user in taking full advantage of structure search capabilities.

To access the user guides, the user clicks the  on each structure page – shown below on the Structure Search page highlighted in yellow.



When the  is clicked the user guide appears, detailing specific functionality on the page. For the given page, the user can navigate to the next/previous functionality via the Previous/Next buttons.



For this release user guides are accessible only on the structure search pages. In future releases, user guides will be introduced for other RMM functionality.

Online Help is still available throughout RMM by clicking on .

RECEIVING ENHANCEMENTS

In this version 21.2, receiving functionality has been enhanced – including the ability to undo erroneous receipts and receive multiple items at the same time.

UNDO RECEIVING ACTION

CUSTOMER IMPACT

- Feature Activation: This feature is **Off** by default
- New Permissions related to this Feature: **Receive Undo Receipt**
- New Notifications related to this Feature: **Receiving Item Undo**

USER IMPACT

This feature is intended for use by: Receiving Technicians

Accessed Via: RMM | Fulfill and Receive | Receiving

Users noted that when an item is received or cancelled by mistake, they need to be able to undo the receiving or cancellation action. In RMM 21.2, a user with the new **Receive Undo Receipt** permission can now undo the last receipt or cancel action at which point the **item will be returned to its previous state**.

IMPORTANT NOTE: the new permission is NOT automatically assigned to roles during the upgrade but must be manually assigned to the desired roles after the upgrade.

As in previous releases, after a user receives an item, they are returned from the Process Receiving page to the Receiving Work List page. A user with the **Receive Undo Receipt** permission will have an additional icon allowing them to reverse the last receipt, via the **Undo Last Receipt Action** button (shown below).

Action	Request Date	Recipient	Status	Recvd/Ord	Purchase Order #	Product Name	Catalog #	Supplier	Brand
	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	Received Partial	1 / 6		N-Methylidethanolamine =99%	471828-25ML	Sigma-Aldrich	SIGMA-ALDRICH
		Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 4		Triethanolamine.reagent grade, 98%	T58300-25G	Sigma-Aldrich	SIGMA-ALDRICH

Receiving Work List Page

The Receiving Search page will also allow a user to undo the last receiving action taken (shown below).

Action	Request Date	Recipient	Status	Recvd/Ord
	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	Received Partial	1 / 6

Receiving Search Page

Undo Receiving Details

- Receipt actions can be undone for up to 30 days from when the action originally occurred.
- Only the last receipt or cancellation action for a given item may be undone.

The Undo Receipt action will:

- Update request items fields to their values before the receipt (detail list of fields given later in this section)
- Delete the Request Item history associated with the receipt action that has been undone
- Generate an undo audit record showing when the receipt action was undone. Undo audit records may be viewed via the new Undone Receipt Actions Report, detailed below.
- Delete any containers created by Receiving action being undone
- Update Inventory Levels to account for the deleted containers

The Undo action is not available for:

- Stockroom Replenishment requests if the stockroom inventory for the given item has been adjusted after the receipt
- Request Items with 'changed' containers (i.e., the container(s) have been transferred, disposed, etc. after the receipt)
- Request Items that have subsequently been updated by an external system (i.e., purchase order has been assigned or a receipt acknowledgement has been returned from the external system)
- Request items which created a new material and were changed during Receiving to a material class that does not create materials (e.g., Lab Supplies).

Any updates that RMM has made to external systems upon the receipt of an item will **NOT** be rescinded because of the Undo Receiving action.

The undo action will update the following fields to the values they had before the receipt:

- Brand
- Catalog number
- Lot Size
- Manufacturer Part Number
- Material Class
- Package Quantity (amount in the container)
- Package Unit of Measure (unit for the package quantity)
- Quantity Outstanding (amount left to be received)
- Quantity Received (total amount received to date)
- Status
- Supplier

Undo Receiving Confirmation


Clicking the  icon opens the Undo Receiving Confirmation window shown below.

Undo Receiving Confirmation X

	Current	Values after Undo
Qty Received	1	0
Qty Outstanding	5	6
Item Status	Received Partial	New

The following containers that were received will be removed from RMM:
00185829

Undo Receiving Confirmation Window

The Undo Receiving Confirmation window provides a summary of changes initiated by clicking the  button. Note that the Confirmation window does not show all fields that will be changed, but only displays the Qty Received, Qty Outstanding, and Item Status. If Amount, Units, Lot Size, Supplier, Catalog #, Brand, or Manufacturer Part # were changed, the popup also contains the text, “Product information has changed. Please view latest item history for changes.”

Undo Notification

When the Undo action is performed the, a notification is sent to the requestor and recipient of the request. An example of this notification is given below. The Undo Notification may be configured like all other notifications, and users may elect to not receive the notification.

Hosted Catalogs receipt action on Shopping Cart Whitley00000820 has been undone.



From ERMDoNotReply@JAGGAER.com

To  Steve Whitley

Retention Policy 18 Month Retention (1 year, 6 months)

Please disregard the last notification for shopping cart Whitley00000820.

Supplier: Fisher Scientific

Catalog Number: AC364371000

The following changes will be made to the item.

Current Qty Received: 4

New Qty Received: 0

Current Qty Outstanding: 0

New Qty Outstanding: 4

Current Item Status: Received Full

New Item Status: New

Undo Receipt Action Notification

Undo Receiving Audit Report

For every Undo Receipt action, an audit record is created. A new report, Undone Receipt Actions Report, has been created to provide information about request items that have had actions undone. The report is only available as a CSV file.

Located within the Activity Reports section of the Schedule Reports page, the Undone Receipt Actions Report accepts the following input criteria:

- Shopping Cart Number
- Undo User – which is the user that initiated the undo action. The Undo User is selected from a list of all users that have performed an undo action.
- Recipient



The fields returned in the results contain information about the request item and are listed below:

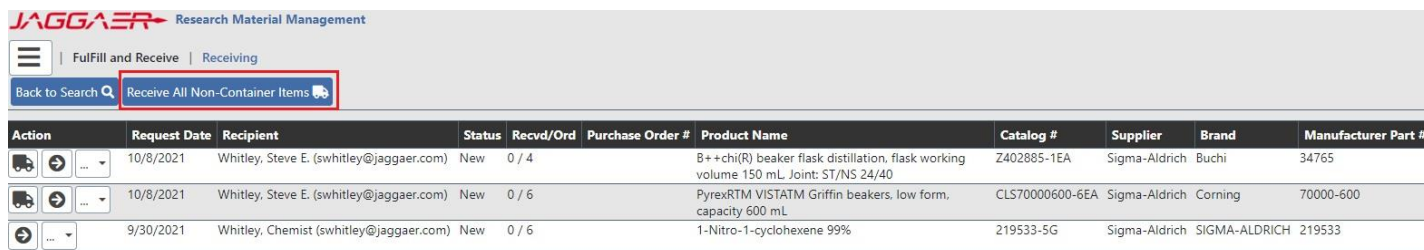
Field	Description
Shopping Cart Name	The Shopping Cart Name associated to the request
Request Number	The request number
Line Number	The line number for the request
Recipient	The recipient of the request
Date Submitted	The date the request was submitted
Undo User	The user that initiated the undo action
Undo Date	The date and time that the undo action was initiated
Status Before	The request item status before the undo action
Status After	The request item status after the undo action
Quantity Received Before	The quantity remaining to be received for the item before the undo action
Quantity Received After	The quantity remaining to be received for the item after the undo action
Amount Before	The package quantity amount of the item before the undo action
Unit Before	The package unit of measure (L, G, etc.) of the item before the undo action
Amount After	The package quantity amount of the item after the undo action
Unit After	The package unit of measure (L, G, etc.) of the item after the undo action
Supplier Before	The supplier for the item before the undo action
Supplier After	The supplier for the item after the undo action
Catalog # Before	The supplier’s catalog for the item before the undo action
Catalog # After	The supplier’s catalog for the item after the undo action
Brand Before	The brand for the item before the undo action
Brand After	The brand for the item after the undo action
Manufacturer Part # Before	The manufacturer part number for the item before the undo action
Manufacturer Part # After	The manufacturer part number for the item after the undo action

Please see the RMM Reports Document for more information.

MULTIPLE ITEM RECEIVING


The Receiving Worklist page has been enhanced with a new “Receive All Non-Container Items” option to streamline processing for multiple line items for non-chemical items that typically do not require additional action on the Receive Item page. A request item is a non-chemical when the item is not linked to a material or the item has a Material Class where the “Create Containers” option is set to “No”.




Previously, each item could be individually received with a single click on the  icon. The new  button allows receipt of *all* non-chemical items on the Receiving Worklist with a single click.




JAGGAER Research Material Management

Fullfill and Receive | Receiving

Back to Search 

Action	Request Date	Recipient	Status	Recvd/Ord	Purchase Order #	Product Name	Catalog #	Supplier	Brand	Manufacturer Part #
	10/8/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 4		B++chi(R) beaker flask distillation, flask working volume 150 mL, Joint: ST/NS 24/40	Z402885-1EA	Sigma-Aldrich	Buchi	34765
	10/8/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 6		PyrexRTM VISTATM Griffin beakers, low form, capacity 600 mL	CLS70000600-6EA	Sigma-Aldrich	Corning	70000-600
	9/30/2021	Whitley, Chemist (swhitley@jaggaer.com)	New	0 / 6		1-Nitro-1-cyclohexene 99%	219533-5G	Sigma-Aldrich	SIGMA-ALDRICH	219533

Receiving Worklist page – Receive All Non-Container Items


Selecting the  button will immediately process *all* non-chemical request items on the Receiving Worklist page (shown below). With the introduction of the Undo Receiving functionality, it will not be necessary for the user to acknowledge that they want to receive all non-container items before proceeding.




JAGGAER Research Material Management

Fullfill and Receive | Receiving

Back to Search 

 Item(s) Received 

Action	Request Date	Recipient	Status	Recvd/Ord	Purchase Order #	Product Name	Catalog #	Supplier	Brand	Manufacturer Part #
	10/8/2021	Whitley, Steve E. (swhitley@jaggaer.com)	Received Full	4 / 4		B++chi(R) beaker flask distillation, flask working volume 150 mL, Joint: ST/NS 24/40	Z402885-1EA	Sigma-Aldrich	Buchi	34765
	10/8/2021	Whitley, Steve E. (swhitley@jaggaer.com)	Received Full	6 / 6		PyrexRTM VISTATM Griffin beakers, low form, capacity 600 mL	CLS70000600-6EA	Sigma-Aldrich	Corning	70000-600
	9/30/2021	Whitley, Chemist (swhitley@jaggaer.com)	New	0 / 6		1-Nitro-1-cyclohexene 99%	219533-5G	Sigma-Aldrich	SIGMA-ALDRICH	219533

Receiving Worklist page – Receive All Non-Container Items - processed

GENERAL RECEIVING ENHANCEMENTS

Several enhancements have been made to Receiving Search Results and Receive Item pages


Receiving Search Page Additional Fields

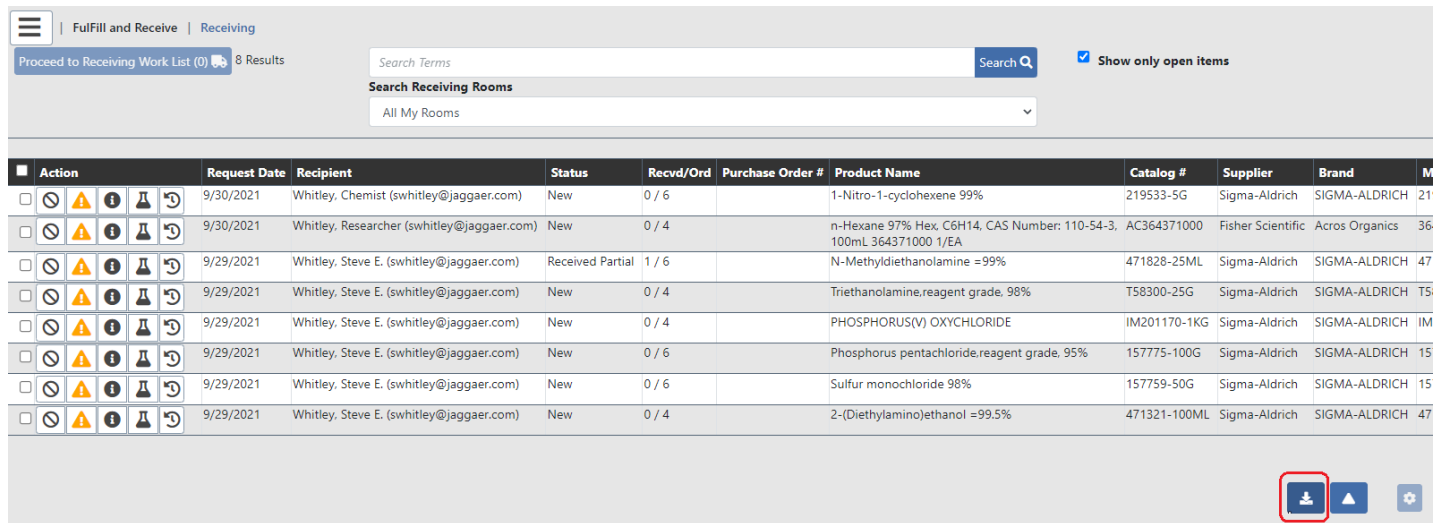
The Receiving Search results page now contains the following additional fields:

- Creator
- Request #
- Receiving Room
- Organization
- Cost Center
- Project

Also note that on the Receiving Search Page, entering text in the Search Terms field and hitting error will now execute a search. Previously the user had to click the Search button for a search to be executed.

Receiving Search Page Export Search Rows

To address a user request for a report of all open receiving items, an Export button  has been added to the Receiving Search results page to allow users to easily extract receiving item information. All Receiving search results fields are included in the export.



The screenshot shows the Receiving Search Results page. At the top, there is a navigation bar with "FulFill and Receive" and "Receiving". Below this, there is a search bar with "Search Terms" and a "Search" button. To the right of the search bar is a checkbox labeled "Show only open items" which is checked. Below the search bar is a dropdown menu for "Search Receiving Rooms" with "All My Rooms" selected. The main content is a table with the following columns: Action, Request Date, Recipient, Status, Recvd/Ord, Purchase Order #, Product Name, Catalog #, Supplier, Brand, and M. The table contains 8 rows of data. At the bottom right of the table, there is an "Export" button (a blue square with a white download icon) which is highlighted with a red box.

Action	Request Date	Recipient	Status	Recvd/Ord	Purchase Order #	Product Name	Catalog #	Supplier	Brand	M
<input type="checkbox"/>	9/30/2021	Whitley, Chemist (swhitley@jaggaer.com)	New	0 / 6		1-Nitro-1-cyclohexene 99%	219533-5G	Sigma-Aldrich	SIGMA-ALDRICH	21
<input type="checkbox"/>	9/30/2021	Whitley, Researcher (swhitley@jaggaer.com)	New	0 / 4		n-Hexane 97% Hex, C6H14, CAS Number: 110-54-3, 100mL 364371000 1/EA	AC364371000	Fisher Scientific	Acros Organics	36
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	Received Partial	1 / 6		N-Methyldiethanolamine =99%	471828-25ML	Sigma-Aldrich	SIGMA-ALDRICH	47
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 4		Triethanolamine, reagent grade, 98%	T58300-25G	Sigma-Aldrich	SIGMA-ALDRICH	T5
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 4		PHOSPHORUS(V) OXYCHLORIDE	IM201170-1KG	Sigma-Aldrich	SIGMA-ALDRICH	IM
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 6		Phosphorus pentachloride, reagent grade, 95%	157775-100G	Sigma-Aldrich	SIGMA-ALDRICH	15
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 6		Sulfur monochloride 98%	157759-50G	Sigma-Aldrich	SIGMA-ALDRICH	15
<input type="checkbox"/>	9/29/2021	Whitley, Steve E. (swhitley@jaggaer.com)	New	0 / 4		2-(Diethylamino)ethanol =99.5%	471321-100ML	Sigma-Aldrich	SIGMA-ALDRICH	47


Receiving Search Results page showing Export

Receiving Page

The following changes have been made to the Receiving page.

The screenshot shows the JAGGAER Research Material Management interface. At the top, there is a navigation bar with 'Fulfill and Receive | Receiving' and buttons for 'Receive Item' and 'Back to Work List'. On the right, there are hazard icons (Corrosive, Oxidizing, Flammable, Toxic) and labels 'Danger', 'Toxin', and 'Hazardous'. The main content area displays the material name 'Phosphorus pentachloride, reagent grade, 95%' and the delivery address 'Deliver To: Whitley, Steve E. (swhitley@jaggaer.com)@Arsenal FC>Building 1>1>AFC101'. Below this, there is a field for 'Amount: 100 G Supplier/Catalog #: Sigma-Aldrich/157775-100G Brand/Mfr. #: SIGMA-ALDRICH/157775'. Two data entry fields are shown: 'Quantity to Receive (6 Outstanding) *' with a value of 6 and 'Quantity Outstanding after Receipt *' with a value of 0. Both fields have blue '+' and '-' buttons. A 'Create Containers' checkbox is checked. At the bottom, there is a table with columns for 'Lot #', 'Storage Code' (CylinderBasic), and 'Expiration Date' (04/08/2022).

Receiving page

To improve ease of use, especially when receiving quantities greater than 100, The **Quantity to Receive and Quantity Outstanding after Receipt** fields have been changed from drop-down to data entry fields. The  buttons can also be used to decrease or increase the values in the respective fields.

The color and presentation of the message displayed when an item has been **over received** been enhanced (shown below) to make it more visible to the user.

This close-up shows the 'Quantity to Receive (1 Outstanding) *' field with a value of 2. A yellow warning box is displayed below the field, containing a warning icon and the text: 'You are receiving more than the outstanding amount.' The field has a blue '+' button on the right side.

TWO-FACTOR AUTHENTICATION (2FA)

CUSTOMER IMPACT

- Feature Activation: This feature is Off by default
- New Permissions related to this Feature: None.
- New Notifications related to this Feature: None.

USER IMPACT

This feature is intended for use by: All Users

Accessed Via: RMM Login

Because Internet accessible services are subject to security attacks, best practices recommend having Two-Factor Authentication (2FA) to reduce the risk that credentials can be guessed or stolen for reuse. RMM 21.2 introduces the ability for users to use 2FA when accessing RMM. RMM can use 2FA when RMM is configured to use either 1) **native authentication** (user enters id/password) or 2) **SSO**.

When using 2FA, RMM, users must enter 1) their user ID and password if using RMM native authentication (user ID and password are not entered if using SSO) and 2) an authentication code. The code may be obtained either via an authenticator application or an RMM generated email.

RMM 21.2 is verified using the following authenticator applications:

- Google Authenticator
- Authy
- Win OTP
- Microsoft Authenticator

The RMM Administrator can configure RMM to

- Use or not use 2FA
- If using 2FA, the administrator can configure RMM so 1) all users must use 2FA or 2) allow each user to determine if they want to use 2FA.
- If using 2FA, the administrator can set the frequency of which the user must enter an authentication code (always, every 5 days, every 30 days, up to 90 days).

Please read the [Configuring 2FA](#) section for more information about configuring RMM to use 2FA.

USER SELECTION OF 2FA METHOD

When configured to require 2FA for all users, each user can choose the method by which they will obtain the authentication code. The authentication code can be obtained via an authenticator application or email. When the user accesses RMM for the first time they will be presented with the RMM 2FA Authentication Set Up page shown below.

From this page the user selects the method by which they will obtain the authentication code.



RMM 2FA Authentication Set Up page

Authenticator Application

By default, the RMM Authentication Set Up page is configured to use an authenticator application (e.g., Google Authenticator, Authy or Win OTP). The Set Up page will show the



and a QR code will be displayed. To configure the authentication, the user opens the authenticator application (Google Authenticator, etc.) on their phone, scans the QR code displayed on the RMM 2FA Authentication Set Up page (shown above), and enter the authentication code provided by the authenticator application into the *Two Factor Authentication Code* field.

If using a desktop authenticator, the user may copy the key displayed under the QR code to set up the authenticator & generate the authentication code.

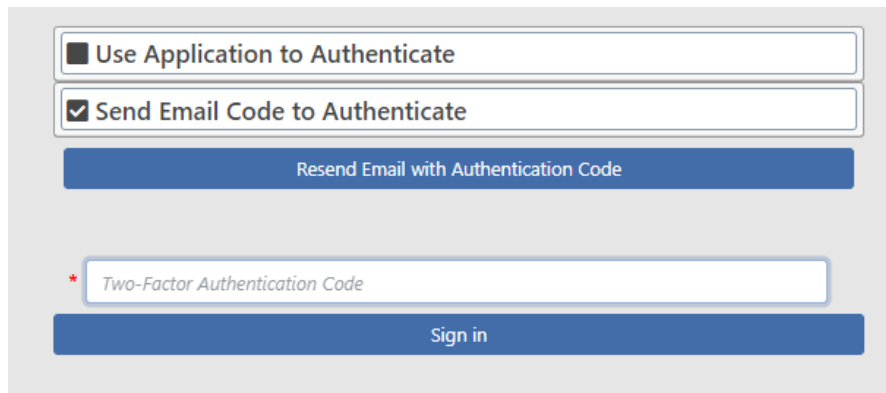
eMail

Instead of using an authenticator application, the user can choose to obtain their authentication code via email. To receive the code via email, the user clicks on



Send Email Code to Authenticate

at which time the RMM Authentication Configuration page changes to



Use Application to Authenticate

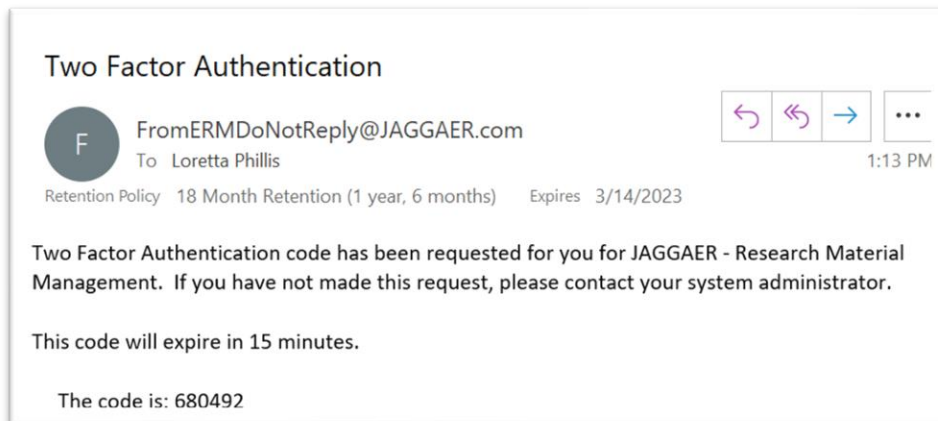
Send Email Code to Authenticate

Resend Email with Authentication Code

* Two-Factor Authentication Code

Sign in

and the user will automatically receive an email – similar to the one shown below.



Two-Factor Authentication E-Mail

The user then enters the code from the email into the Two Factor Authentication Code field.

Note the following:

- This eMail can **NOT** be turned off.

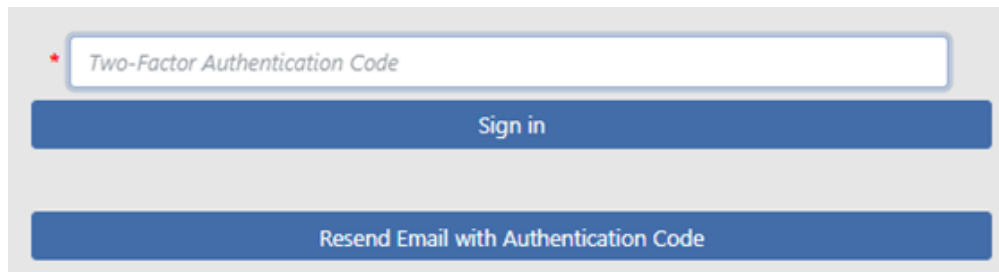
- The content of the eMail is only configurable via properties files and is **NOT** configurable via the Notification Content Configuration page. Please contact RMM Support for more information.

ACCESSING RMM USING 2FA

After the initial set up of 2FA, each time the user access RMM, one of the following two pages will appear.

Using eMail Authentication

If using eMail to obtain the authentication code, the following page will appear.

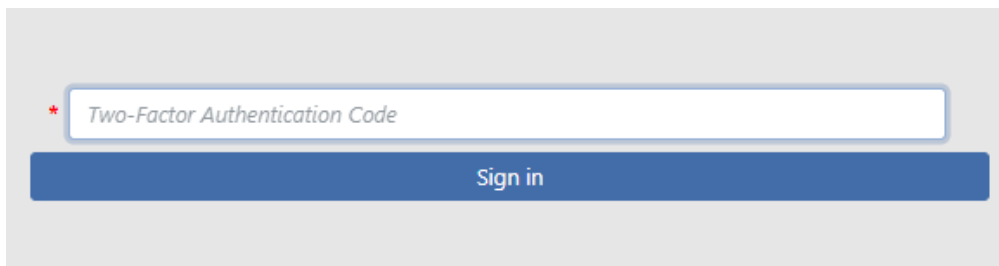


The screenshot shows a web form with a light gray background. At the top, there is a white input field with a red asterisk on the left and the placeholder text "Two-Factor Authentication Code". Below the input field is a blue button with the text "Sign in". At the bottom of the form is another blue button with the text "Resend Email with Authentication Code".

The user will automatically receive an email with an authentication code. After receiving the code via email, the user enters the code in the *Two-Factor Authentication Code* field and clicks "Sign In". If there is an issue where the user does not receive an email, the user may click on the "Resend Email..." button.

Using Authenticator Application

If using an authenticator application, the following page will appear



The screenshot shows a web form with a light gray background. At the top, there is a white input field with a red asterisk on the left and the placeholder text "Two-Factor Authentication Code". Below the input field is a blue button with the text "Sign in".

The user should obtain the code from their authenticator application, enter it in the *Two-Factor Authentication Code* field, and click "Sign In".

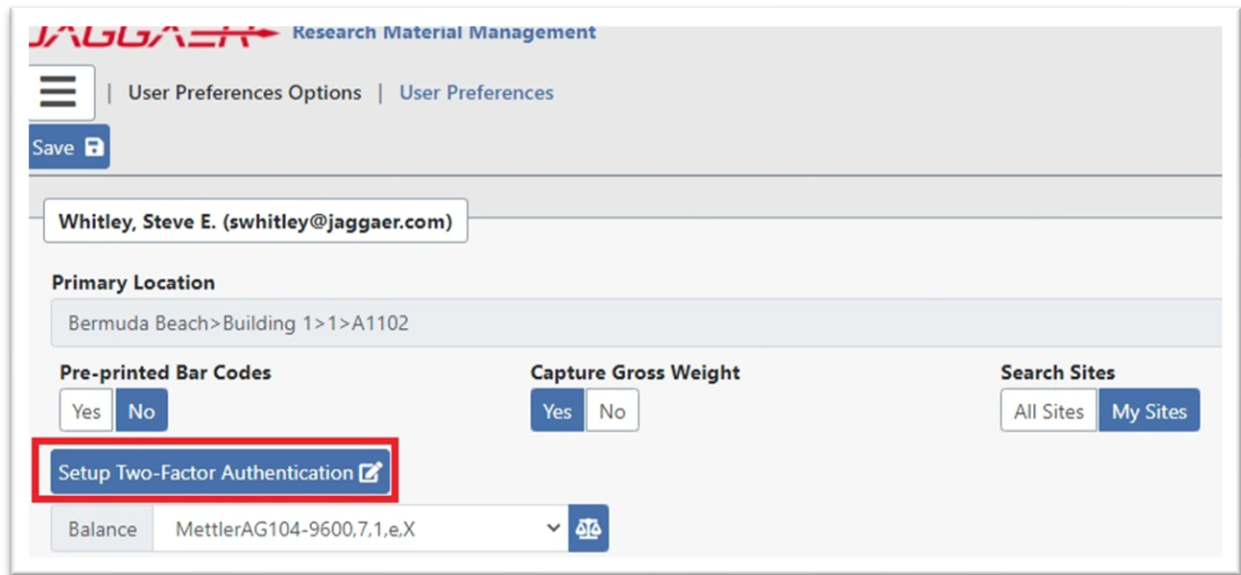
When an Authentication Code Must Be Entered

The RMM Administrator can configure RMM to determine how often an authentication code must be entered when a user accesses RMM. The default value is 30 days, meaning the user only enters an authentication code every 30 days. RMM can be configured to require the user to enter an authentication code every time the access RMM. Please read the [Configuring 2FA](#) section for more information.

TWO-FACTOR AUTHENTICATION – USER PREFERENCES

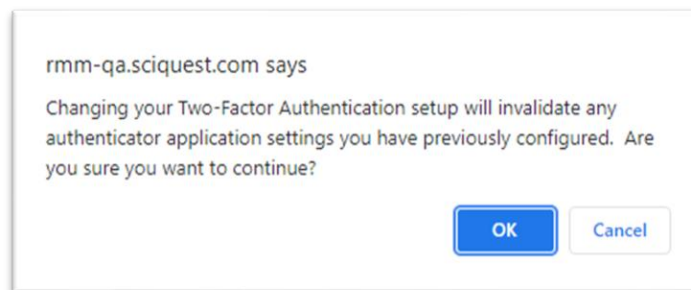
Selecting Method to Obtain Authentication Code

When configured for two-factor authentication, the User Preferences page will display an option allowing the user to change the method by which they obtain their authentication code.



User Preferences - Two-Factor Authentication Setup

Selecting the [Change Two-Factor Authentication Method](#) button will trigger a warning message (shown below) prior to opening the RMM 2FA Authentication Configuration page (note that the text “rmm-qa.sciquest.com” will be specific to your installation)



Two-Factor Authentication Warning Message

When the user clicks on “OK” a page very similar to the [RMM 2FA Authentication Set Up](#) page will be displayed from which they may choose the method by which to obtain the authentication code.

Selecting to Use 2FA

RMM can be configured so that all users must use 2FA or each user may decide if they want to use 2FA. When RMM is configured to allow each user to determine if they are using 2FA, each user *must opt in* to use 2FA. The user opts in by going to the user preference page, and clicking on the [Setup Two-Factor Authentication](#) button.

The screenshot shows the 'User Preferences' page for 'BohnResearcher, Ed (ebohn@jaggaer.com)'. The page includes a 'Save' button, a 'Primary Location' field with the value 'Eds Site 1>Bldg 1>Floor 1>Lab 101', and three sections: 'Pre-printed Bar Codes' with 'Yes' and 'No' buttons, 'Capture Gross Weight' with 'Yes' and 'No' buttons, and 'Search Sites' with 'All Sites' and 'My Sites' buttons. A red box highlights the 'Setup Two-Factor Authentication' button with an external link icon.

User Preference Page Before User Has Opted In

After clicking on the button, a page very similar to the [RMM 2FA Authentication Set Up](#) page will be displayed from which the user may choose the method by which to obtain the authentication code.

After the user has opted in, a Two-Factor Authentication On/Off toggle button is displayed on the User Preferences page allowing the user to turn on/off 2FA.

The screenshot shows the 'User Preferences' page for 'Whitley, Steve E. (swhitley@jaggaer.com)'. The page includes a 'Save' button, a 'Primary Location' field with the value 'Arsenal FC>Building 1>1>AFC101', and three sections: 'Pre-printed Bar Codes' with 'Yes' and 'No' buttons, 'Capture Gross Weight' with 'Yes' and 'No' buttons, and 'Search Sites' with 'All Sites' and 'My Sites' buttons. A red box highlights the 'Two-Factor Authentication' section, which contains an 'On' button (selected) and an 'Off' button. Below this is a 'Change Two-Factor Authentication Method' button with an external link icon.

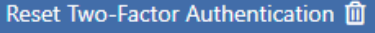
User Preferences - Two-Factor Authentication – User Mode

Two-Factor Authentication – Edit Person

A new button has been added to the Edit Person page (shown below) to allow an administrator to reset the selected two-factor authentication method for a user. This can be necessary in scenarios where a user may have temporarily lost the ability to provide the two-factor authentication code via their selected option, but still need to access RMM in the interim.

The screenshot shows the 'Edit Person' page in the JAGGAER Research Material Management system. The page header includes the JAGGAER logo and the text 'Research Material Management'. Below the header, there are navigation links for 'People' and 'Edit Person'. A toolbar contains buttons for 'Save', 'Create New Person', and 'Back to People Search'. The main form area contains several input fields: 'Last Name' (Whitley), 'First Name' (Researcher), 'Phone #' (610.492.0244), 'Email' (swhitley@jaggaer.com), 'User ID' (researcher), and 'Active' (Yes/No). A red box highlights the 'Reset Two-Factor Authentication' button, which is located below the 'User ID' field. Below this button are fields for 'Location' (Arsenal FC>Building 1>1>AFC101), 'Organization' (Chemistry>BioChemistry), and 'Cost Center Group'.

Edit Person - Two-Factor Authentication enabled

The  button will clear the two-factor authentication settings for a user. Once reset, the user will be presented with the [RMM 2FA Authentication Set Up](#) page upon log in, where they can select an alternative means of receiving a two-factor authentication code. This button only displays if RMM is configured for 2FA.

CONFIGURING 2FA

Two new RMM properties have been created to be used in the configuration of 2FA. These properties are configured by the RMM administrator via the RMM Properties page. (For hosted installations, this page is only accessible to RMM Support Personnel; please contact RMM Support if you wish to change these settings).

clientconfig.twofactorAuthentication

Filter Category: Authentication

The property “clientconfig.twofactorAuthentication” determines if RMM is configured to require two-factor authentication.

Valid Values:

- AlwaysOff – Default value. Two-factor authentication is never available for any user logging into RMM
- AlwaysOn – 2FA is required for all users logging into RMM
- User – The use of 2FA is determined by each user. Each user *must opt in* to use two-factor authentication.

clientconfig.twofactorAuthentication.Timeout

Filter Category: Authentication

Default: 30

The property “clientconfig.twofactorAuthentication.Timeout” determines how often RMM will require a user to provide an authentication code.

This property is only used when the RMM property clientconfig.twofactorAuthentication is set to AlwaysOn or User, indicating that two-factor authentication is in use. The clientconfig.twofactorAuthentication.Timeout property determines the number of days that the authentication code remains valid. A value of 30 (the default value) would require a new authentication code after 30 days. A value of 0 would require a new authentication code each time a user logs into RMM. The valid values are from 0 to 90.

- When the clientconfig.twofactorAuthentication property is set to AlwaysOn, the clientconfig.twofactorAuthentication.Timeout period starts when it is set for the RMM server.
- When the clientconfig.twofactorAuthentication property is set to User, the clientconfig.twofactorAuthentication.Timeout period starts when the user initially logs into RMM.

BULK UPDATES VIA DATA LOADER

Previously, the Data Loader was primarily used for bulk loading of new data into RMM. With the 21.2 release, the Data Loader will now provide the ability to perform bulk **UPDATES** for several data entities.

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: None.
- New Notifications related to this Feature: None.

USER IMPACT

This feature is intended for use by: Administrators

Accessed Via: Administration | Configuration | RMM Properties

The new file types are listed below along with associated permissions. Note that all permissions are currently existing permissions. For complete details on the new file types, please read the RMM Data Loader Appendix document.

Data Load Type	Description	Permission
Container Flex Fields	This template loads values for container flex fields. If a value for the flex field type does not exist, the flex field will be added. If a value for the flex field type does exist, the value will be updated. Note that as in previous versions, flex fields may be loaded (but not updated) via the Container data load type.	Data Loader Load Container
Location Rooms Update	Updates attributes of existing rooms. To create new rooms, use the Locations Create template (which existed in previous versions).	Data Loader Load Location
Location Sublocations	Loads Sublocation data. Allows user to create new sublocations or update the active flag of existing sublocations. If the sublocation does not exist, it will be created. If the sublocation exists, the sublocation's active flag will be updated to the specified value.	Data Loader Load Location
People Update	Updates person data. To create new person data, use the People (Person) Create template (which existed in previous versions).	Data Loader Load Person
Stockmaster Items Update	Updates Stock Master Items. To create new stock master items, use the Stock Master Items Create template (which existed in previous versions).	Data Loader Stockroom
Stockroom Inventory Update	Updates Stockroom Inventory Item records. To create new stockroom inventory records, use the Stockroom Inventory Create template (which existed in previous versions).	Data Loader Stockroom
Substance Synonyms	This template adds substance (material) synonyms to existing substances. Synonyms will not be updated, but only added.	Data Loader Load Substance

Substances Update	Updates substance (material) records. To create substances, use the Substances Create template (which existed in previous versions). To update substance flex fields and add synonyms use the Substance Flex Fields (which existed in previous versions) and Substance Synonyms templates (new to this release).	Data Loader Load Substance
--------------------------	--	-------------------------------

To differentiate data file types that are used to load vs update data, the following files type names have been changed.

Old Name	New Name
Containers	Containers Create
Locations	Locations Create
People	People Create
Stockmaster Items	Stockmaster Items Create
Stockroom Inventory	Stockroom Inventory Create
Substances	Substances Create

MATERIAL AND CONTAINER ATTACHMENTS

Attachments are now supported for both RMM Containers and Materials to support, for example, attachment of a CofA, a license, or a client-specific EHS or procedure document. In addition, a new configuration supports automatic copying of a requisition item attachment to containers created for that item in Receiving.

MATERIAL ATTACHMENTS

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: [Materials Manage Attachments](#)
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: Various Users

Accessed Via: RMM | Containers and Materials | Material Search | Edit Material / View Material Properties

Users with the new [Materials Manage Attachments](#) permission can add attachments to an RMM material and edit or delete attachments on an RMM material. This new functionality will allow users to attach product safety, safe use assessments and other documentation directly to an RMM material profile.

On upgrade, this new permission will be assigned to any role that currently has either the [Materials Edit All Materials](#) or [Materials Edit My Materials](#) permission.

Adding Material Attachments

The Edit Material page has been enhanced with a new tab for attachments (shown below).

JAGGAER Research Material Management

Containers and Materials | Edit Material Identifiers

STYRENE OEKANAL, STABILIZED, 250 MG

Back to Search | Save | Create Container | Register Structure

General Info

- Identifiers
- Flex Fields
- Physical Properties
- Ingredients
- Attachments**
- Health/Safety
 - H&P Statements
 - Storage Codes
 - GHS
 - EHS List
 - Hazard Properties
 - NFPA/HMIS Ratings
 - Transport Hazards

Name *
STYRENE OEKANAL, STABILIZED, 250 MG

Material Type | **Material Source**

Material Class
Chemical

Creator
ERMSUPERUSER, ERMSUPERUSER

Status
Reviewed

Reviewed By
ERMSUPERUSER, ERMSUPERUSER 7/30/2015

Structure Identifiers Add +

Type	Value
CAS	100-42-5
SQ Chem Number	SQ48272

Synonym Type | **Synonym Value**

Alias

Type	Value
------	-------

Edit Materials page - Attachments

Selecting 'Attachments' will open the new Attachments tab (shown below). From here a user can add, view and delete attachments for a material.

Containers and Materials | Edit Material Attachments

STYRENE OEKANAL, STABILIZED, 250 MG

Back to Search | **Add Attachment +** | Create Container


Attachments

Attachment	Uploaded By	Upload Date
------------	-------------	-------------

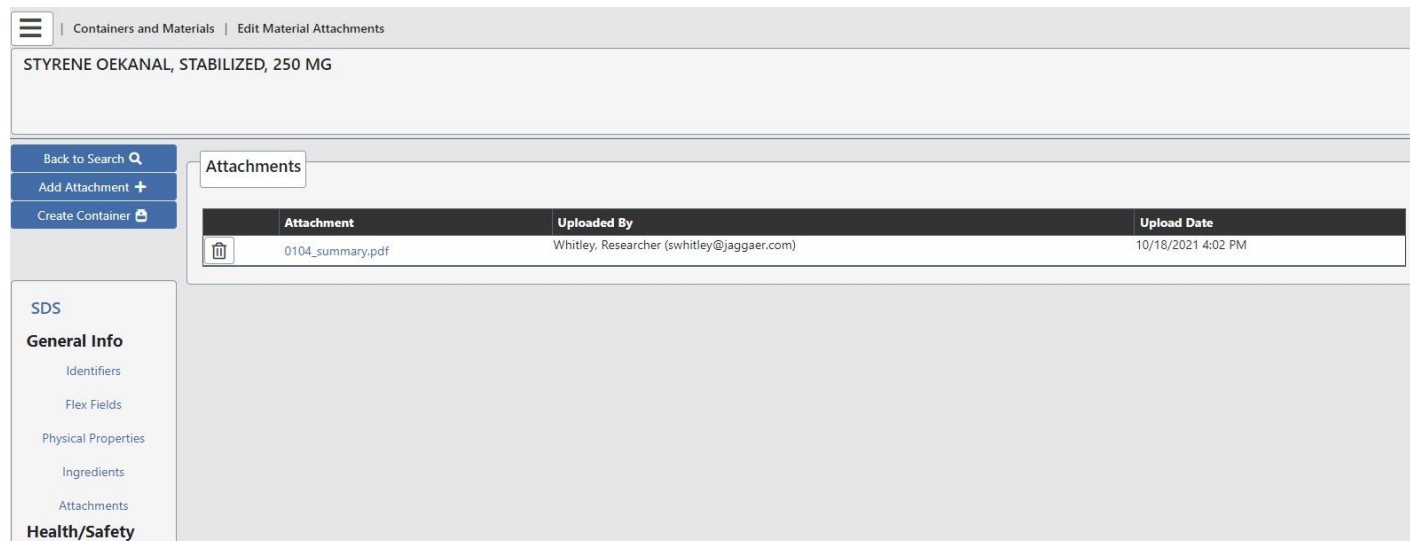
General Info

- Identifiers
- Flex Fields
- Physical Properties
- Ingredients
- Attachments**

Edit Materials page – Attachments tab


Selecting the  button opens the Add Attachments window. A user can select various types of files (PDF, CSV, XSLX or DOCX) in sizes up to 10 MB.

Once the attachment has been selected and added, the Edit Material Attachments tab will display the name of the attached document, the person who attached the document and when it was uploaded.



STYRENE OEKANAL, STABILIZED, 250 MG

Attachments

Attachment	Uploaded By	Upload Date
 0104_summary.pdf	Whitley, Researcher (swhitley@jaggaer.com)	10/18/2021 4:02 PM


SDS

General Info

- Identifiers
- Flex Fields
- Physical Properties
- Ingredients
- Attachments

Health/Safety

Edit Materials page – Attachments tab

A user can remove the material attachment by selecting the  icon and confirming the delete action. Selecting the Attachment file name (a hyperlink to the attachment file) will download the material attachment.

A material can have multiple document attachments.

Viewing Material Attachments

The View Material page has been enhanced with a new tab for attachments (shown below). The Attachments tab will only be displayed when there are attachments for the material.



STYRENE OEKANAL, STABILIZED, 250 MG

Attachments

Attachment	Uploaded By	Upload Date
GlobalProductStrategySafetySummary.pdf	Whitley, Steve E. (swhitley@jaggaer.com)	10/19/2021 9:50 AM
0104_summary.pdf	Whitley, Researcher (swhitley@jaggaer.com)	10/18/2021 4:02 PM

General Info

- Identifiers
- Flex Fields
- Physical Properties
- Attachments**

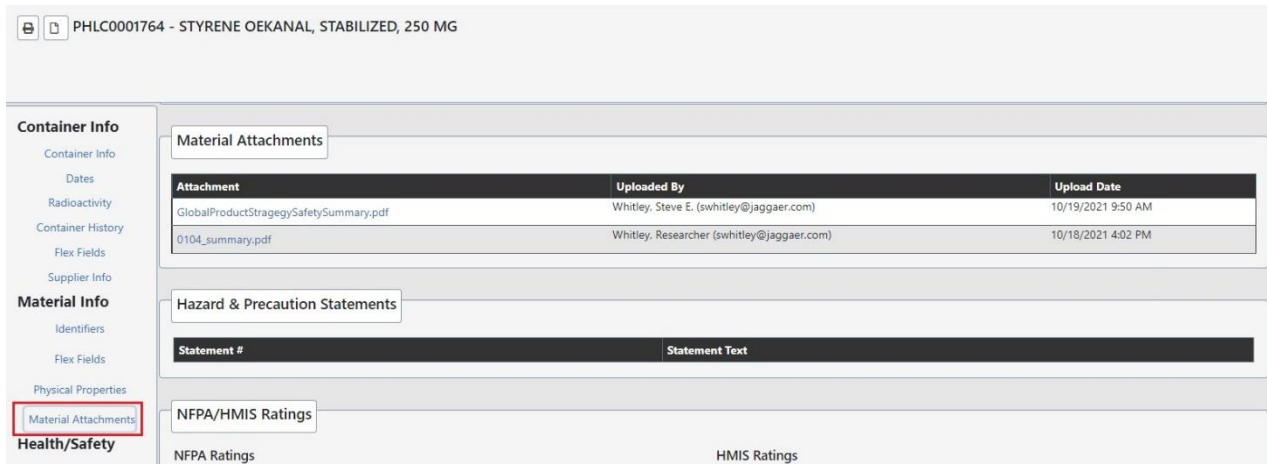
Health/Safety

- EHS List

NFPA/HMIS Ratings

View Material page – Attachments tab

Material attachments can also be viewed from the View Container window (shown below). The ability to view a material attachment does not require a separate permission. If there are no material attachments, the Material Attachments section will not be displayed on the View Container window.



View Container page – Material Attachments tab

CONTAINER ATTACHMENTS

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: None
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: Various Users

Accessed Via: RMM | Containers and Materials | Container Search | Edit Container

Users with the existing **Container Edit** permission can add attachments to an RMM container and edit or delete attachments on an RMM container. This new functionality will allow users to attach documents such as Certificates of Analysis and other documentation directly to an RMM container.

Adding Container Attachments

The Create Container and Edit Container pages have been enhanced with a new section for attachments (shown below is Create Container page, the Edit Container page, not shown, is similar).

JAGGAER Research Material Management

Containers and Materials | Create Container

Create Container +

STYRENE OEKANAL, STABILIZED, 250 MG

Bar Codes (1)

00186378

General

Label # STYRENE OEKANAL, STABILIZED, 250 MG

Current Amt * Value > 0

Original Amt * Value > 0

Units *

Gross Weight

Tare Weight g Calculate

Purity Maximum of 250 characters

Storage Code *

Lot # Maximum of 32 characters

Product Information

Supplier *

Brand Maximum of 250 characters

Catalog # Maximum of 32 characters

Manufacturer Part # Maximum of 32 characters

Owner

Steve Whitley

Phone # 610-492-0268

Email svhitley@jaggaer.com

Room AFC101

Organization Chemistry>BioChemistry

Identifiers

CAS # 100-42-5

Dates

Created	Room Acquired
10/20/2021	10/20/2021
Site Acquired	Expiration
10/20/2021	
Last Inventoried	Opened
Last Test	Next Test

Locations

Use Arsenal FC>Building 1>1>AFC101

Default Storage Arsenal FC>Building 1>1>AFC Storeroom

Storage

Container Attachments

Add Attachment +

Attachment

Create Container page - Container Attachments

Selecting the **Add Attachment +** button opens the Add Attachments window. A user can select various types of files (PDF, CSV, XSLX or DOCX) in sizes up to 10 MB. Once the attachment has been selected and added, the Edit Container page will display the name of the attached document, the person who attached the document and when it was uploaded.

JAGGAER Research Material Management

Containers and Materials | Edit Container

Save

General

AVAILABLE

Bar Code * PHLC0001764

Label * STYRENE OEKANAL, STABILIZED, 250 MG

Current Amt 1,000.00 MG

Original Amt 1,000.00 MG

Purity Maximum of 250 characters

Storage Code *

Lot # Maximum of 32 characters

Product Information

Supplier * Solutia Inc.

Brand PHLBRAND001764

Catalog # PSC#0001764

Manufacturer Part # PMP#001764

Owner

SOFIA Hernandez

Phone # 610-555-1212
 Email person@company.com
 Room Auto Checkin Lab7
 Organization Chemistry>Organic Chemistry

Dates

Created 8/4/2015
 Room Acquired 8/4/2015
 Site Acquired 8/4/2015

Expiration Last Inventoried

Opened Last Test


Next Test

Locations

Use Philadelphia>Main>1st>Lab1 > Large Closet
 Storage Philadelphia>Main>1st>Lab1

Container Attachments

Add Attachment +

Attachment	Uploaded By	Upload Date
 CertificateOfAnalysis.pdf	Whitley, Steve E. (swhitley@jaggaer.com)	10/19/2021 2:35 PM

Edit Container page – Container Attachments

A user can remove the container attachment by selecting the  icon and confirming the delete action. Selecting the Attachment file name (a hyperlink to the attachment file) downloads the container attachment.

A container can have multiple document attachments.

Viewing Container Attachments

The View Container page has been enhanced with a new tab for both container and material attachments (shown below). As with the Material Attachments tab, which only displays when there is a material attachment, the Container Attachments tab will only be displayed when there are attachments for the container.

The screenshot shows the 'View Container' page for container ID PHLC0001764 - STYRENE OEKANAL, STABILIZED, 250 MG. The left sidebar contains a navigation menu with the following items: Container Info, Dates, Radioactivity, Container History, Flex Fields, Supplier Info, Container Attachments (highlighted with a red box), Material Info, Identifiers, Flex Fields, Physical Properties, Material Attachments (highlighted with a red box), and Health/Safety. The main content area is divided into several sections: 'Container Info' (Supplier: Solutia Inc., Brand: PHLBRAND001764, Catalog #: PSC#0001764, Manufacturer Part #: PMP#001764, Description), 'Container Attachments' (a table with one row: Attachment: CertificateOfAnalysis.pdf, Uploaded By: Whitley, Steve E. (swhitley@jaggaer.com), Upload Date: 10/19/2021 2:35 PM), and 'Identifiers' (Description: STYRENE OEKANAL, STABILIZED, 250 MG, Creator: ERMSUPERUSER, ERMSUPERUSER, Reviewed, Primary CAS #: 100-42-5).

View Container page – Container Attachments and Material Attachments sections

Replicating Containers with Attachments

In RMM 21.2, when a user replicates a container which has attachments, all attachments from the source container will be copied to all of the replicated containers. The information related to the container attachments ('Uploaded By' and 'Upload Date') will be the person and date that the document was attached to the original container – not the person and date relative to the replicated container creation.

Assigning Attachments to Containers - Receiving

When a researcher requests an item from an external source (e.g., JAGGAER Hosted Catalogs, eMolecules, etc), they can attach a document to the requested item. With the RMM 21.2 release, there is now an option of having those attachments assigned to the containers that are created for that request item during the Receiving process.

When set to TRUE, the new RMM property, `ShoppingCart.AssignAttachmentstoContainersOnReceive`, will assign a request item attachment to the containers created for that request item. The default setting for this property is **FALSE**. The value of this property may be changed via the Configuration > RMM Properties page.

ADDITIONAL ENHANCEMENTS

Approvals – Reject Comment Display

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: **None**
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: All Users

Accessed Via: [RMM](#) | [View My Requests](#) | [Approval Details](#)

Currently, when a Shopping Cart item awaiting an approval has the approval rejected, a reason for that rejection can be provided. With RMM 21.2, users will be able to see the full explanation for the rejection (if one has been provided) on the Approval details page (shown below).

Approval Details for Lysergic acid diethylamide

Type	Status	Approver	Approval Date
Controlled Substance	Rejected	Whitley, Steve E. (swhitley@jaggaer.com)	10/14/2021 3:37 PM
EHS Restricted 1	Rejected	Whitley, Steve E. (swhitley@jaggaer.com)	10/14/2021 3:37 PM
Hazardous	Rejected	Whitley, Steve E. (swhitley@jaggaer.com)	10/14/2021 3:37 PM
Toxin	Rejected	Whitley, Steve E. (swhitley@jaggaer.com)	10/14/2021 3:37 PM

Reject Comment

Controlled substances cannot be stored in the designated laboratory.

[Close](#) ✕

Approval Details page

The Approvals report, introduced with the RMM 21.1 release, has been updated to include a new column “Reject Comment” (shown below).

Action Date	Approval Type	Approval Status	Approved/Rejected By	Organization	Shopping Cart Submitted Date	Shopping Cart	Request #	Line #	Created By	Requested By	Recipient	Item Name	Reject Comment
10/14/2021 15:37	Hazardous	Rejected	Steve E. Whitley		10/14/2021 15:35	Whitley00000878	1630	1	Researcher Whitley	Researcher Whitley	Researcher Whitley	Lysergic acid diethylamide	Controlled substances cannot be stored in the designated laboratory.
10/14/2021 15:37	EHS Restricted 1	Rejected	Steve E. Whitley		10/14/2021 15:35	Whitley00000878	1630	1	Researcher Whitley	Researcher Whitley	Researcher Whitley	Lysergic acid diethylamide	Controlled substances cannot be stored in the designated laboratory.
10/14/2021 15:37	Controlled Substance	Rejected	Steve E. Whitley		10/14/2021 15:35	Whitley00000878	1630	1	Researcher Whitley	Researcher Whitley	Researcher Whitley	Lysergic acid diethylamide	Controlled substances cannot be stored in the designated laboratory.
10/14/2021 15:37	Toxin	Rejected	Steve E. Whitley	Chemistry/BioChemistry	10/14/2021 15:35	Whitley00000878	1630	1	Researcher Whitley	Researcher Whitley	Researcher Whitley	Lysergic acid diethylamide	Controlled substances cannot be stored in the designated laboratory.

Approval Details page

Container Operations – Set Storage Code for Multiple Containers

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: Container Set Storage Code
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: Various Users

Accessed Via: RMM | Containers and Materials | Container Search

A new container operation, Set Storage Code, now allows the user to bulk update the storage code of containers via the Container Search page. The new permission, Container Set Storage Code, is required to perform this operation. On upgrade this new permission will be assigned to any role that has the Container Dispose permission. As with all other container operations, the RMM administrator, via the Container Operation Rules page, can set rules which determines when the Set Storage Code operation may be performed.

This operation affects only the single storage code associated directly to a container, and not the multiple storage codes that a container may inherit from its material profile. If the user selects containers that already have an assigned storage code, this operation will replace the original storage code with the newly assigned one.

SOURCE SEARCH EMOLECULES SUPPLIER TIERS

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: **None**
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: All Users

Accessed Via: RMM | Search and Request | Source Search

RMM | Search and Request | Structure Search

The information presented in the eMolecules source search results has been enhanced to accommodate eMolecules' new service tier offerings, Accelerated, Distilled and Diversified

The eMolecules catalog options are grouped by filterable Supplier Tiers, which describe how quickly the compound can be delivered or shipped by the supplier.

Accelerated: <u>Delivered</u> within 1-2 business days, guaranteed
Distilled: Shipped within 1-5 business days - simplified Tier 1 selection
Tier 1: Shipped within 1-5 business days
Tier 2: Shipped within 1-10 business days
Diversified: Shipped within 10 business days - custom synthesis
Tier 3: Shipped within 4 weeks
Tier 4: Shipped within 12 weeks - custom synthesis
Tier 5: Varied ship times - custom quote required

eMolecules Tiers

MOBILE COMPUTER – STOCKROOM RESTOCKING

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: None
- New Notifications related to this Feature: None

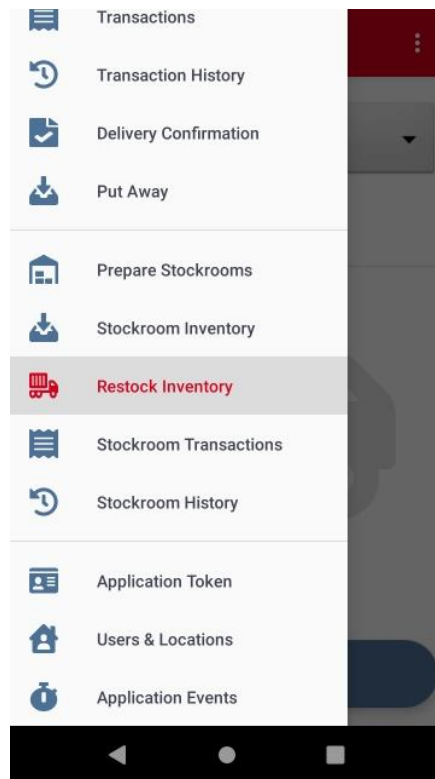
USER IMPACT

This feature is intended for use by: Operations Staff

Accessed Via: A supported mobile computer device running the RMM Handheld application

A new function, Restock Inventory, has been added to the RMM Handheld application allowing stockroom personnel to resupply stockrooms replenished by external suppliers or stockrooms restocked via transfers from a Parent stockroom.

Selecting the Restock Inventory option from the RMM Handheld menu (shown below) opens a window from which a stockroom technician indicates the stockroom which they will be resupplying.

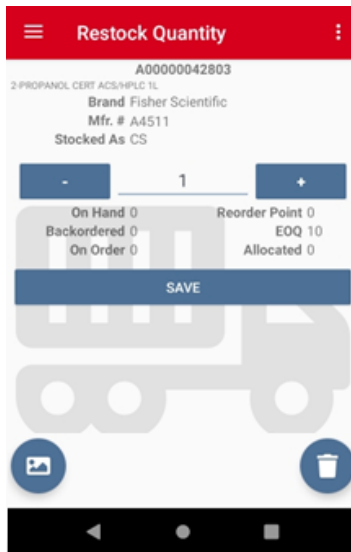


RMM Handheld Menu – Restock Inventory



RMM Handheld– Restock Inventory (Replenishment versus Transfer)

Scanning the product bar code for an item will display information for the stockroom item (shown below), as well as information needed to determine the quantity that needs to be requested. The information displayed in the Restock Inventory window is based on how the scanned item is stocked in the selected stockroom. Information for an item that is stocked as a “Visual” item will differ from an item stocked as “Count” stock or as “RMM Container” inventory.



RMM Handheld - Restock screen – RMM Container stock

Please read the RMM Handheld Application Guide for details.

STOCKROOM

The following enhancements have been made to Stockroom Functionality.

Assign Stockrooms to Users

The ability to associate users with stockrooms has been enhanced with the new function, Assign Stockrooms to Users. This function simplifies assigning or removing stockroom personnel for organizations that have a large number of satellite stockrooms.

CUSTOMER IMPACT

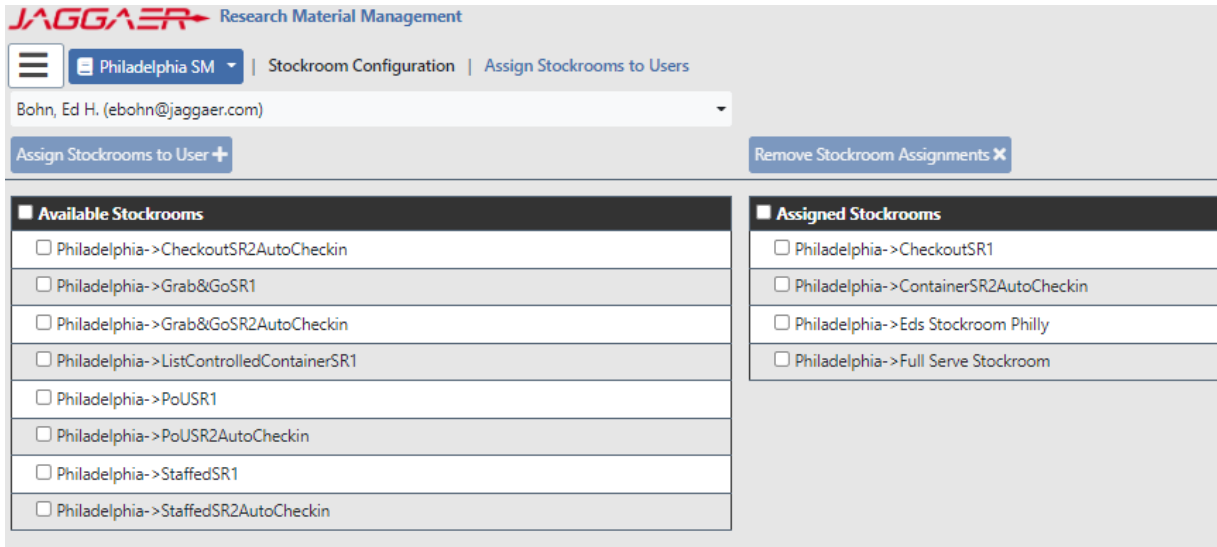
- Feature Activation: This feature is Off by default
- New Permissions related to this Feature: None
- New Notifications related to this Feature: None

USER IMPACT

This feature is intended for use by: Operations Staff

Accessed Via: RMM | Administration | Assign Stockrooms to Users

The new Assign Stockrooms to Users page (shown below) allows the stockroom administrator to assign one user to multiple stockrooms or remove multiple stockrooms from one user. While there are no new permissions associated with this functionality, a user must have the existing permissions, **Stockroom Module Assign Users to Stockrooms** and **Stockroom Module Select Stock Master**.



Assign Stockrooms to Users – With Some Stockrooms Assigned

The administrator picks the user to which to assign/remove stockrooms from the drop-down list on the top left of the page. Any user that has the **Stockroom Module Select Stock Master** permission will appear in the drop down.

After picking the user, any stockrooms to which the user is assigned and which belongs to the current stock master are displayed on the right side of the page. To remove assignments, select individual stockrooms, or select all, and click "Remove Stockroom Assignments"

Any stockrooms to which the user is not assigned and which belongs to the current stock master are displayed on the left side of the page. To add assignments, select individual stockrooms, or select all, and click "Assign Stockrooms to User".

Replenishment

For a given item, the request quantity, can now be entered directly, instead of selecting a quantity from a drop down. the plus/minus buttons can still be used.

Stockroom History

For the 21.2 release, both Stock Master Items and Stock Replenishment Specification records will now have records tracking the history of changes to these items, similar to the existing Request / Requisition Item history records.

CUSTOMER IMPACT


- Feature Activation: This feature is ON by default
- New Permissions related to this Feature: None
- New Notifications related to this Feature: None

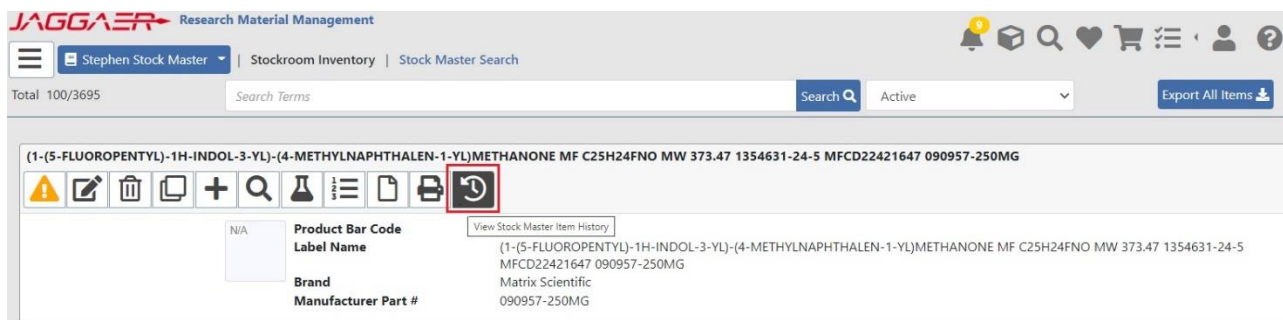
USER IMPACT

This feature is intended for use by: Stockroom Users

Accessed Via: RMM | Stockroom Inventory | Stock Master Search

Stock Master Item History

Stock Master Item history tracks when attributes related to a Stock Master Item record changes. Stock Master Item history is viewable from the search results on the Stock Master Search page (shown below) by clicking the  icon.



Stock Master Search page

The Stock Master Item history page (shown below) launches in a separate browser tab. The ability to view Stock Master Item history is available to any user who can access the Stock Master Item page.

 Stock Master Item History for item (1-(5-FLUOROPENTYL)-1H-INDOL-3-YL)-(4-METHYLNAPHTHALEN-1-YL)METHANONE

Sort Newest History First

History starts on 8 October 2021 14:27:12 by ERMSUPERUSER ERMSUPERUSER

Field Name	New Value
Active	Y
Brand	Matrix Scientific
Commodity Code	080600
Common Name	(1-(5-FLUOROPENTYL)-1H-INDOL-3-YL)-(4-METHYLNAPHTHALEN-1-YL)METHANONE MF C25H24FNO MW 373.47 1354631-24-5 MFCD22421647 090957-250MG
Create Containers	Create on Receipt
Custom Field 1	
Custom Field 2	
Customer Catalog #	
Default EOQ	15
Default Reorder Point	10
Default Stock Inventory Max	15
Default Stock Inventory Min	10
Description	
Manufacturer Part Number	090957-250MG
Membership Pricing Override Name	(1-(5-FLUOROPENTYL)-1H-INDOL-3-YL)-(4-METHYLNAPHTHALEN-1-YL)METHANONE MF C25H24FNO MW 373.47 1354631-24-5 MFCD22421647 090957-250MG
Package Quantity	250 MG
Pkgs Per Stock Unit	1
Print Product Bar Code Labels on Receipt	N
Product Bar Code	000006
Product Category	
Replenishment Catalog Number	50684572
Replenishment Supplier	Fisher Scientific
Stock Master Label	(1-(5-FLUOROPENTYL)-1H-INDOL-3-YL)-(4-METHYLNAPHTHALEN-1-YL)METHANONE MF C25H24FNO MW 373.47 1354631-24-5 MFCD22421647 090957-250MG
Stock Price	521.75
Stocking Unit	EA
UNSPSC Number	12350000

Stock Master Item history page

A history event is generated:

- When a Stock Master Item is initially created (initial values of all attributes are displayed)
- Each time any of the tracked attributes of the Stock Master Item changes (see below for tracked attributes)
- Attributes are tracked whenever they are changed – through the RMM user interface, Data Loader, or APIs

For each event, RMM displays:

- The user who initiated the change and the date and time that the change occurred
- Each field that changed (except as noted below) and the new value

Additionally, Stock Master Item history will display the history event created when a Stock Replenishment Specification is created, modified, or deleted.

Stock Master Item history tracks changes to the following attributes:

- Name
- Active
- Customer Catalog #

- Product Bar Code
- Print Product Bar Code Labels on Receipt
- Stocking Unit
- Stock Master Label
- Image (added, removed or modified)
- Description
- Stock Price
- Membership Pricing Override
- Brand
- Manufacturer Part #
- UNSPSC
- Commodity Code
- Product Category
- Custom Field 1
- Custom Field 2
- Default EOQ
- Default Reorder Point
- Default Stock Inventory Min
- Default Stock Inventory Max
- Material (common name)
- Pkg Quantity
- Pkg UoM
- Pkgs Per Stock Unit
- Create Containers

A Stock Master Item's association to stockrooms will not be tracked in the Stock Master Item history.

For existing Stock Master Items, on upgrade, RMM will create an event "Upgrade" for each Stock Master Item which will display "History starts on [Date and time of upgrade] by System Manager". The values that are displayed for the upgrade event are those values that existed during the time of the upgrade.

Stock Replenishment Specification History

Stock Replenishment Specification history tracks when attributes related to a Stock Replenishment Specification record changes. Previously, history was only tracked when replenishment prices were updated from the RMM Hosted Catalog Update job, but there was no history of manual updates to Stock Replenishment Specifications. Stock Replenishment Specification history is available from the Edit Replenishments page (shown below) by clicking

the  icon.

JAGGAER Research Material Management


Stephen Stock Master | Stockroom Inventory | Edit Replenishments

Save Add +

(1-(5-FLUOROPENTYL)-1H-INDOL-3-YL)-(4-METHYLNAPHTHALEN-1-YL)METHANONE MF C25H24FNO MW 373.47 1354631-24-5 MFCD22421647 090957-250MG

Supplier	Catalog #	Price		Stock Units/Item	Hosted Catalog SKU
Fisher Scientific	50684572	517.75	USD	1	140575602

Last Modified By
Whitley, Steve (swhitley@jaggaer.com)
22/10/2015 11:51

 View Stock Master Replenishment History

Supplier
Fisher Scientific

Catalog #
50684572

Hosted Catalog SKU
140575602

Stock Units/Item
1

Price
517.75

Currency
USD - US Dollar

Note
Maximum of 4000 characters

Edit Replenishments page

The Stock Master Replenishment history page (shown below) launches in a separate browser tab. The ability to view Stock Master Replenishment history is available to any user who can access the Stock Master Item page.

 Stock Master Replenishment History for Fisher Scientific

Sort Newest History First

History starts on 21 June 2021 07:46:13 by ERMSUPERUSER ERMSUPERUSER

Field Name	New Value
Catalog Number	50684572
Hosted Catalog SKU	140575602
Note	
Price	517.75 USD
Primary	Y
Stock Units/Item	1
Supplier	Fisher Scientific

Stock Master Replenishment history page

A history event is generated:

- When a Stock Replenishment Specification record is created (initial values of all attributes are displayed)

- Each time any of the tracked attributes of the Stock Replenishment Specification record is modified (see below for tracked attributes)
- When a Stock Replenishment Specification record is deleted
- Attributes are tracked whenever they are changed – through the RMM user interface, Data Loader, or APIs

For each event, RMM displays:

- The user who initiated the change and the date and time that the change occurred
- Each field that changed (except as noted below) and the new value

Stock Replenishment Specification history tracks the following attributes when a record is **created**:

- Supplier
- Catalog #
- Primary (is this replenishment record the primary supplier for the Stock Master Item)
- Hosted Catalog SKU
- Stock Units/Item
- Price
- Currency
- Note

Stock Replenishment history tracks the following attributes when a record is **modified**:

- Primary (is this replenishment record the primary supplier for the Stock Master Item)
- Hosted Catalog SKU
- Stock Units/Item
- Price
- Currency
- Note

Stock Replenishment history tracks the following attributes when a record is **deleted**:

- Supplier
- Catalog #

When the price is updated via the Hosted Catalog Update process, RMM will append a message to the end of the price to denote that this was not a manual price update.

This history for a Stock Replenishment Specification record may also be viewed via the Stock Master Item history page.

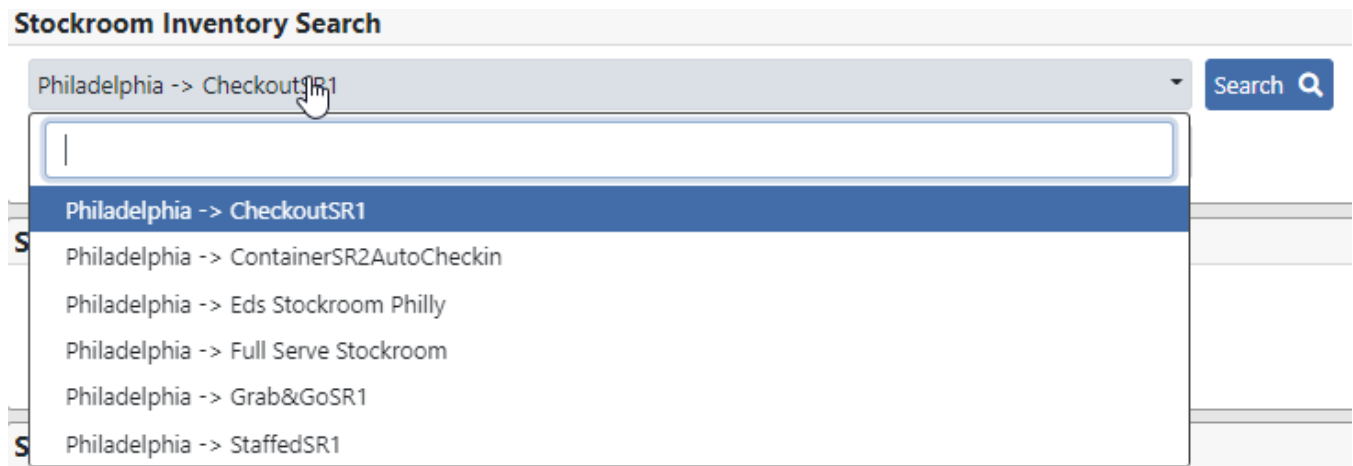
For existing Stock Master Replenishments, on upgrade, RMM will create an event “Upgrade” for each Stock Master Replenishment Specification which will display “History starts on [Date and time of upgrade] by System Manager”. The values that are displayed for the upgrade event are those values that existed during the time of the upgrade.

Stockroom Selector

Throughout Stockroom, the selector that allows the user to pick a stockroom has been enhanced. Previously the stockroom selector displayed a list of stockrooms and the user could navigate the selector by typing a letter, at which point the selector would find the stockroom whose first letter was the letter typed.

The selector has been enhanced so that now the user can type in a string and the selector will find the stockroom whose name contains that string.

An example of the new selector is pictured below. If the user now types in "Grab", the "Philadelphia -> Grab&GoSR1" stockroom will be selected.



PEOPLE

User ID

The size of a user id (login id) has been increased from 32 to 100 characters to better enable integration of RMM with SSO.

Password Change Notification

CUSTOMER IMPACT

- Feature Activation: This feature is On by default
- New Permissions related to this Feature: **None**
- New Notifications related to this Feature: None

USER IMPACT

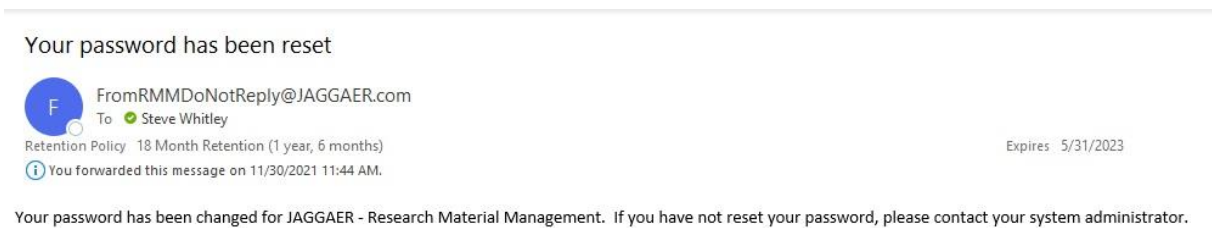
This feature is intended for use by: All Users

Accessed Via: N/A

When native RMM Authentication is used, as opposed to SSO, a new notification is sent when a user's password is reset.

When a user's password is reset (from the "Forgot Password" option on the RMM Login page or the "Generate Password" option from the People Search operations) or changes their password via User Preferences, RMM will now generate an e-mail notification informing the user that their password has been changed. If they did not initiate this password change, this will alert them so that they can contact their system administrator to address the issue.

Shown below is an example of the e-mail which will be sent to a user.



RMM Password Change Notification

This notification will NOT be sent when a password is generated via the Person Create page.

Note the following:

- This notification can **NOT** be turned off.
- The content of the notification is only configurable via properties files and is **NOT** configurable via the Notification Content Configuration page. Please contact RMM Support for more information.

CLIENT REPORTED ISSUES ADDRESSED

Following is a list of defects reported by clients which have been addressed in this release.

Function	Summary	Internal Tracking #
Container Flex Fields	<p>When creating or editing a container, flex fields may be configured to accept any value or a value from a predefined list. For a flex field that has been configured to accept a value from a predefined list in the GUI, the data loader has been designed to allow any value to be loaded for that flex field, even if the value is not on the list.</p> <p>If that flex field is loaded via the data loader with a value not on the list, the flex field will be successfully loaded and viewable on the Container View page. It was not, however, viewable on container edit.</p>	ERM-18486
Container View	When viewing container properties, the density field had an incorrect value.	ERM-18752
Cost Center	A cost center could not be made inactive if its name contained an apostrophe.	ERM-18715
Material Create	The notification generated when a new material was created had erroneous information.	ERM-18603
Material Delete	A material synonym could not be deleted if the synonym contained an apostrophe.	ERM-18701
Receiving Search	<p>On receiving search, when searching by an exact Shopping Cart Name, Request #, or PO #, the Show Open flag was ignored.</p> <p>The Show Open flag will no longer be ignored.</p>	ERM-18569
Shopping Cart	When editing a type in item that has an attachment, the name of the attachment is cleared even if the user did not delete the attachment.	ERM-18490
Source Search	The View Structure button did not work on custom source search channels (channels implemented for specific client installations).	ERM-18675
Source Search	The source search page indicated that the user had preferred locations when in fact they did not.	ERM-18708
Stock Master Item	If you remove the brand from the stock master item, you can no longer receive a replenishment request item for that stock master item.	ERM-17314