



FundSuiteArc Version 2.5.0 Release Notes

ArcReporting 2.5.0

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RR DONNELLEY

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Release Notes Preface

Release notes provide functional and technical details. This document describes how each enhancement functions within the context of the greater business process. This added level of detail should enable project teams to answer the following questions:

- Why was the change made?
- What out-of-the-box functionality will change?
- How do these changes affect the organization?



Enhancements Requiring Immediate User Action

No changes in this product release require any immediate action to be carried out by users.



Enhancements Requiring User Decisions

No changes in this product release require any decisions to be made by users.



Important Notes

1. The **Fund Holdings - Classic** page was removed. Users must now use the **Fund Holdings** page for all daily activities. See the ***Removal of unused/obsolete application features*** section of this document for more information.
2. The **Conditional Fund Rounding** check box and associated **Fund-level Rounding** drop-down list on the **Fund Report Settings** page were removed. This feature was unused throughout the client base. Users can still use static **Fund-level Rounding**. See the ***Conditional data point standardization for text, footnote and custom data point libraries*** section of this document for more information.
3. The **System Data Point** conditional data point return type was removed. This was merged with the **Text** return type to streamline application functionality and performance. See the ***Conditional data point standardization for text, footnote and custom data point libraries*** section of this document for more information.

4. Enhancements were made to the system's user interface error messaging. All error messages will be uniform in presentation, and will have additional information that users can send to RRD support staff to help expedite error resolution. See the **Appendix A: FundSuiteArc Error Messaging** section of this document for more information.
5. Performance enhancements were implemented with respect to calculation times, when multiple users are working in and recalculating a given financial workbook at the same time. For an overview of these changes, please see **Appendix B: Multi-User Calculation Logic** on page 140 of this document.



Known Issues in ArcReporting

The following section lists issues known to exist in this release of the ArcReporting product.

1. Incorrect behavior when supplemental class-type data items mapped to repeat groups in financial statement output settings

Overview

Class-type supplemental data items display as blank when mapped to repeat groups of type *Period by Currency*. Users should recognize this as an invalid setup that the application does not restrict, and it will result in a blank display in statement preview and output.

In addition, class-type numeric supplemental data items mapped to repeat groups of type *Fund by Class* will repeat within a spread. This setting is not visible to users, but is turned on by default in back-end application settings.

Process Changes

No changes to current processes are required.

2. Incorrect language displays when previewing footnotes via Financial Workbook page

Overview

In version 2.5.0, users can preview the contents of a financial footnote snippet via the **Footnotes** tab of the **Financial Workbook** page by invoking the new **Footnote Content** pop-up dialogue. If a given footnote is contained in a footnote library with multiple languages, but the footnote itself is not language-specific, the language displayed in the disabled **Language** drop-down list on the dialogue is incorrect.

Process Changes

No changes to current processes are required.

3. Fund-level supplemental data point returns zero for "None/All" if mapped across multi-column calculation sheet columns

Overview

In version 2.5.0, users are able to set a column to repeat by class in multi-column calculation sheets. If a user sets up a column (e.g., *Column 1*) to repeat by class and adds a fund-level supplemental data point, and then maps *Column 1* into another column (e.g., *Column 2*), the *None/All* value returned for *Column 2* is zero.

Process Changes

If users want to map the same fund-level supplemental data point item in two or more columns, they should map it directly in the column instead of mapping it from another column.

4. Mapped numeric-type supplemental data points do not support "Custom Rounded Display"

Overview

When users map a supplemental data point directly via the **Financial Statement Template Output Settings** page, the specified *Custom Rounded Display* setting for the data point is not rendered in statement preview.

Process Changes

Users should map supplemental data points into a calculation sheet and link it to the financial statement template if they wish to use the *Custom Rounded Display* setting.

5. Fund data point returns zero for "None/All" if mapped across multi-column calculation sheet columns

Overview

In version 2.5.0, users are able to set a column to repeat by class in multi-column calculation sheets. If a user sets up a column (e.g., *Column 1*) to repeat by class and adds a fund data point, and then maps *Column 1* into another column (e.g., *Column 2*), the **None/All** value returned for *Column 2* is zero.

Process Changes

If users want to map the same fund data point item in two or more columns, they should map it directly in the column instead of mapping it from another column.

6. "Language" drop-down list selections on Footnote Content dialogue are not sorted alphabetically

Overview

In version 2.5.0, users can preview the contents of a financial footnote snippet via the *Footnotes* tab of the **Financial Workbook** page by invoking the new **Footnote Content** pop-up dialogue. For footnotes that have content defined in multiple languages, the selections displayed in the *Language* drop-down list on the dialogue are not in alphabetical order.

Process Changes

No changes to current processes are required.

7. Spanned cells in unlinked project tables cannot be edited via double-click action

Overview

In versions of ArcReporting prior to 2.5.0, double-clicking a spanned cell within an unlinked table on the **Project** page allowed users to edit the content via the **Advanced Cell Data Editor** pop-up dialogue. Due to changes on the **Project** page in version 2.5.0, users must now use the *Edit selected record* button at lower-left of the table to invoke the dialogue if they wish to edit the contents of a spanned cell.

Process Changes

Users should click the *Edit selected record* button to edit the contents of spanned cells.

8. Long paragraph style names overlap content in text editor pane

Overview

In version 2.5.0, users now have the ability to create custom paragraph styles and apply them to text and footnote snippets. If users specify a style name greater than 32 characters in length, the paragraph name and associated text block will overlap in the text and footnote snippet editor.

Process Changes

No changes to current processes are required.



Release Notes Summary

The following section offers a summary of features included in this product release. More detailed information about each item can be seen in the respective Enhancements section of this document.

1. Enhancements Common to Multiple Products

1. Ability to apply custom item suppression for category captions

Custom item suppression functionality for portfolio statements was enhanced to allow users to suppress based on **all** category types available in the **Column Name** drop-down list of the **Edit Item Suppression** dialogue. Users will be expected to enter the category caption literal value(s) to be suppressed in the existing **Value(s)** text box.

2. Dataload profile visibility in Environment Administration

A **Dataload Profiles** page was added to the Environment Administration area to provide transparency to specific load details, thus alleviating the need for clients to contact the RRD Infrastructure team to know of such details. Client users granted appropriate rights may also maintain the **Additional Parameters** content of applicable load profiles via the new page.

Dataload profile details are currently administered by the RR Donnelley Infrastructure team. A dataload profile defines key information that governs each load, including where the load package is located, input file(s) and package-specific parameters required for a successful dataload. Dataload profiles are environment-specific, and they only load data into the database with which they are associated.

3. More granular control over secondary portfolio statement calculations

Primary portfolio statement template footed values and percentages can be referenced by one or more secondary portfolio statement templates using the same fund and account period data. This functionality is often used when two different statements display the same security, category or other information that should use the same footed value between different statements for financial reporting purposes. Users' ability to specify secondary statement calculation behavior by means of this functionality was enhanced in this release of FundSuiteArc.

4. Ability to sort portfolio statements by all holdings fields

Users can now sort portfolio statements by **all** holdings fields via the existing **Sorting** tab on the **Portfolio Statement Templates** page.

5. Additional data import/dataload information displayed on Archive page

The **Archive** page was updated to include several new fields that allow users to view more detailed information pertaining to a given data import/dataload (e.g., the source file name, who initiated the load, which dataload profile was used, etc.).

6. **Enhancements to fund relationship exchange rates and percentage allocation**

The ability to define complex fund relationships that share percentages of fund assets (*i.e.*, Master/Feeder & Pooling structures) was enhanced. Users can now define the specific percentage allocation of fund assets and what, if any, exchange rate conversion must be done for all fund relationship calculations.

7. **Table Styles library**

A Table Styles library was added to allow users with appropriate rights to add, edit, delete and control which table styles are displayed for a given complex within the **Table Style**, **Table Type** or **Output Style Type** drop-down lists for the project and statement templates.

8. **Removal of unused/obsolete application features**

A number of obsolete and unused application pages/widgets were removed in this release of FundSuiteArc products.

2. Enhancements to ArcReporting

1. Ability to define conditions for display of statement footnotes

Users can now define a set of conditions that determine whether or not a given footnote assigned to a portfolio or financial statement displays in project output.

2. Ability to insert custom tags in financial statements, portfolio statements and tables

Users can now insert custom tags in the output settings mapping grids of portfolio statements, financial statements and tabular data tables.

3. Repeat by class functionality for multi-column calculation sheets

Users can now utilize the *Multiple Rows/Columns (per class)* option when setting up a multiple-column calculation sheet. The sheet will display one column per class (similar to *Classes Across* calculation sheets). A series of FundSuiteArc audit reports and exports were also updated in conjunction with this functionality.

4. Ability to preview footnote content while making assignments in a financial workbook

Users can now preview the content of a given footnote for the selected account period/language via a new link in the grid on the *Footnotes* tab of the **Financial Workbook** page.

5. Ability to add exceptions to "Fair Value Level" and "Fair Value Type" groups

Users can now create exceptions to portfolio statement template groups that are based on *Fair Value Level* or *Fair Value Type*.

6. Enhancements to financial workbook report output and file naming

The Calculation Sheet Account Mapping Audit Report and Financial Statement Mapping Audit Report will now consolidate all audit reports into a single Excel file with a tab dedicated to each calculation sheet or financial statement, respectively. Users that wish to export reports for more than one fund in a single download will find separate fund-level Excel files within a single ZIP archive. File naming now also incorporates fund names and codes, as opposed to database keys, as was the case prior to version 2.5.0.

7. "Aggregated Securities" line items to sort with non-aggregated items

Aggregated and non-aggregated securities within the same category/group of holdings in a given portfolio statement will now display based on the sort settings assigned to that category/group. In prior versions of ArcReporting, without an output rule applied, aggregated and non-aggregated securities were sorted

separately and the aggregated securities were displayed after the non-aggregated securities within a given category/group of holdings.

8. **Single-industry subtotal suppression**

Users can now opt to suppress the total line for a given inner-level category when it is the only one that exists at that level in portfolio statement output.

9. **New library to house client sites for sending shared content to ArcPublishing**

Updates were made to the **Project Templates** page to streamline the way in which a user specifies the ArcPublishing site to which he/she wants to send shared content.

10. **Ability to search "Counterparty" field and category captions for abbreviations**

Both **Counterparty** and **Category Caption (Category Type)** values will now be searched when building a portfolio statement template's abbreviation legend. Existing logic to search fields that are mapped within the statement template's corresponding output settings remains intact.

11. **Ability to define row-level suppression logic for financial statement column headers**

Users can now apply suppression to individual rows of a financial statement column header, based on account period type. This alleviates the need for manual workarounds.

12. **Conditional data point standardization for text, footnote and custom data point libraries**

The behavior of system and custom conditional data points was streamlined. Now, there is a single approach to returning system data points. Additionally, users can no longer set conditional fund-level rounding; this was an unused application feature.

13. **Ability to map supplemental data items to financial statement output settings**

Users can now map supplemental data items directly to the statement tree structure on the **Financial Statement Template Output Settings** page. In addition, FundSuiteArc now provides users a means to see the origin of any mapped data point.

14. **Ability to set average exchange rates**

The ability to add **Average** exchange rates for use within financial statement horizontal total calculations was added to ArcReporting. In addition, layout and functionality of the **Exchange Rates** page was revamped to support increased usability and performance.

15. **Ability to specify fund-level exchange rate overrides for horizontal totaling**

Users can now specify exchange rate overrides at the fund level, allowing greater flexibility when determining exchange rate values.

16. **Ability to map specific aggregation criteria fields to portfolio statement template output settings**

In previous versions of ArcReporting, certain fields could be added to the *Aggregate* tab of the **Portfolio Statement Templates** page for any given template, however in some cases were not available for mapping via the **Portfolio Statement Template Output Settings** page for project preview and output purposes. These fields are now available for mapping in a template's output settings.

17. **Statement output rule available to facilitate disclosure of top 20 purchases and sales**

A portfolio statement output rule is now available to clients to facilitate the disclosure of "Top 20 Purchases and Sales", in support of UCITS regulation changes.

18. **Ability to specify custom column names for "Multiple Columns" calculation sheets**

Users can now specify custom column names for calculation sheets of type *Multiple Columns*.

19. **Ability to filter "Classes Down" calculation sheets by class via Financial Workbook page**

Users can now filter line items for a *Classes Down* calculation sheet by class via the *Class* column header filter on the *Calculation Sheets* tab of the **Financial Workbook** page.

20. **Drag-and-drop mapping for multi-column calculation sheets**

Users now have the ability to drill down to specific columns when mapping to multiple-column calculation sheets using drag-and-drop functionality on the **Financial Workbook Templates** page.

21. **Access to column-specific formulas for multi-column calculation sheets from Financial Workbook page**

Users will now be brought to the appropriate (*i.e.*, column-specific) formula definition when they right-click a value in a multi-column calculation sheet on the *Calculation Sheets* tab of the **Financial Workbook** page and select the *Edit calculation sheet item formula* option.

22. **User right to allow for view-only access of Fund Holdings page**

User rights governing access to the **Fund Holdings** page were made more granular in nature, allowing FundSuiteArc administrators to grant certain users the ability to add/edit/delete holdings information, while limiting most users to the ability to simply open and view the page.

23. **Enhancements to Project page "Edit Mode" tables and exports**

Several enhancements were made to functionality on the **Project** page for the "Edit Mode" of unlinked tabular data components, portfolio statements and financial statements. These enhancements improve users' ability to edit unlinked tables and to export, make changes and re-import a given table without having to re-format or re-style it.

24. **Paragraph Styles library**

Users are now able to maintain a library of paragraph styles for use in project content, and designate which styles are "active" or "inactive" for a given complex. Only styles flagged as "active" will be available for selection the **Paragraph Style** drop-down list when applying styles to content via ArcReporting's text and footnote libraries.

25. **Style guide reference**

Users can now upload files of type **Style Guide** (PDF, Word, Excel, TXT, etc.) via the **Supporting Files** tab of the **Style Sheets** page. Hyperlinks to the uploaded style guide(s) were also added to various application pages, allowing users to easily reference them, as needed, to better understand how project output can be impacted by leveraging different styles, table types and custom tags.

26. **Unique project identifier available for workflow component**

The workflow component of FundSuiteArc is now integrated with ArcReporting, which will allow users of other products to generate output for a specific ArcReporting project by referencing an identifier that is unique to that project (known as a "Project Instance ID").

27. **Workflow component integration and project renditions**

As part of the initial steps to introduce the FundSuiteArc workflow component to ArcReporting, a Renditions library and associated functionality were added. Renditions (named publishing options) were integrated with existing project output management functionality, and allow the workflow to make a call to ArcReporting to initiate output. With the introduction of renditions, the **Output Management** tab of the **Project** page was redesigned to be more user-friendly.



Enhancements Common to Multiple Products

The following section lists enhancements in this product release that are common across multiple FundSuiteArc products.

1. Ability to apply custom item suppression for category captions

RRD ID: 18521

Overview

Custom item suppression functionality for portfolio statements was enhanced to allow users to suppress based on **all** category types available in the **Column Name** drop-down list of the **Edit Item Suppression** dialogue. Users will be expected to enter the category caption literal value(s) to be suppressed in the existing **Value(s)** text box.

What's New

1. All category types defined in the Category Types library are now available for selection in the **Column Name** drop-down list of the **Edit Item Suppression** dialogue of the **Portfolio Statement Template Output Settings** page.
2. The **Condition** drop-down list selections on the **Edit Item Suppression** dialogue of the **Portfolio Statement Template Output Settings** page are now limited to *contains*, *equal to* and *not equal to*, as these are the only options applicable for a given suppression based on category captions.
3. Users will be required to enter valid text string(s) representing the category caption(s) against which to evaluate in the **Value(s)** text box on the **Edit Item Suppression** dialogue of the **Portfolio Statement Template Output Settings** page.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

2. Dataload profile visibility in Environment Administration

RRD ID: 63899

Overview

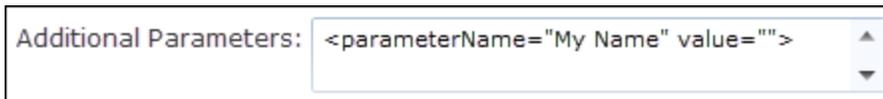
A **Dataload Profiles** page was added to the Environment Administration area to provide transparency to specific load details, thus alleviating the need for clients to contact the RRD Infrastructure team to know of such details. Client users granted appropriate rights may also maintain the **Additional Parameters** content of applicable load profiles via the new page.

Dataload profile details are currently administered by the RR Donnelley Infrastructure team. A dataload profile defines key information that governs each load, including where the load package is located, input file(s) and package-specific parameters required for a successful dataload. Dataload profiles are environment-specific, and they only load data into the database with which they are associated.

What's New

A **Dataload Profiles** page was added to the Environment Administration area. The page is accessed via a corresponding menu item under the **Settings** menu section on the **Environment Administration** tab.

1. The page displays all loads configured for a particular environment and allows users to view the profile details for each.
2. Users can also view and maintain **Additional Parameters** content for load profiles, as applicable, in the **Details** pane at right of the page.



Additional Parameters: `<parameterName="My Name" value="">`

3. Access to the **Dataload Profiles** page and the ability to edit profile properties is governed by the following new user rights:
 - a. A user must be granted the new **Open Dataload Profiles Page** right via one or more assigned user roles to open the **Dataload Profiles** page and view profile details.

- b. A user must be granted the new *Edit Additional Parameters* right (a child of the *Open Dataload Profiles Page* right) via one or more assigned user roles to edit **Additional Parameters** content for any given dataload profile.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

3. More granular control over secondary portfolio statement calculations

RRD ID: 97035

Overview

Primary portfolio statement template footed values and percentages can be referenced by one or more secondary portfolio statement templates using the same fund and account period data. This functionality is often used when two different statements display the same security, category or other information that should use the same footed value between different statements for financial reporting purposes. Users' ability to specify secondary statement calculation behavior by means of this functionality was enhanced in this release of FundSuiteArc.

What's New

The system-level setting that controlled the ability to pull percentages from a primary portfolio statement was removed, and options now exist on the **Portfolio Statement Templates** page that allow users to specify whether or not values and/or percentages from a primary statement will be used.

1. The **PullPercentagesFromPrimary** setting was removed from the **System** page in the Environment Administration area. Each individual portfolio statement template will now independently define how values and percentages are calculated and displayed using one of the new options available on the **Calculations** tab of the **Portfolio Statement Templates** page. This applies to statement templates of types **Condensed** and **Categories**.
2. The existing check box option on the **Calculations** tab of the **Portfolio Statement Templates** page was renamed **Use primary statement to calculate statement values**, and two additional options now display when the check box is selected, which allow users to define how primary portfolio statement template values are referenced in secondary statements.
 - a. Available options are as follows:
 - i. **Use primary statement's footed values and percentages to calculate statement values**
 - A. When this option is selected, the secondary statement will utilize footed values and percentages from the designated primary portfolio statement template.

1. This is the default selection for any newly-created portfolio statement template.

Note:

Upon database update to version 2.5.0, if a given portfolio statement template was set to *Use primary statement's footed values to calculate statement values* (the original check box option), the relabeled check box will be selected and the *Use primary statement's footed values and percentages to calculate statement values* option will be selected by default.

Specifying this option introduces the possibility of users creating scenarios where footing is incorrect on the secondary statement, when the Total Investments/Net Assets values, or other impactful portfolio statement template setup/configuration settings are not identical between the primary and secondary statements.

- B. When this option is selected, the following informational text displays beneath the option button set, to help users understand its effect on statement calculations:

Security values and percentages for this statement will be sourced from the specified primary statement's footed values. Any calculation settings defined for this statement will not be used. No adjustments will be made to statement values or percentages when this setting is in use.

- ii. *Use primary statement's footed values to calculate statement values*

- A. When this option is selected, the secondary statement utilizes footed values only from the designated primary portfolio statement template.

Note:

This is the same behavior exhibited in FundSuiteArc 2.3.0 and 2.4.0, when the *PullPercentagesFromPrimary* system setting is *False*. Percentages are calculated based on the secondary statement's values/setup; not the primary statement.

- B. When this option is selected, the following informational text displays beneath the option button set, to help users understand its effect on statement calculations:

Security values for this statement will be sourced from the specified primary statement's footed values. Percentages for this statement will be calculated from this statement's

setup and may be adjusted for footing purposes, if necessary. Any calculation settings defined for this statement will not be used.

- b. When the **Use primary statement to calculate statement values** check box is not selected, the secondary statement utilizes settings defined on the **Calculations** tab to calculate and foot both values and percentages based on the individual statement settings; the primary portfolio statement template is not referenced in this case.
3. The existing Portfolio Statement Template Audit Report was updated to track changes made to check box and associated option button settings.

Process Changes

No changes to current processes are required.

4. Ability to sort portfolio statements by all holdings fields

RRD ID: 99360

Overview

Users can now sort portfolio statements by **all** holdings fields via the existing **Sorting** tab on the **Portfolio Statement Templates** page.

What's New

The selections in the **Column Name** drop-down list of the **Add Sorting Specification** dialogue were augmented to include all holdings fields.

The screenshot shows the 'Add Sorting Specification' dialog box. It features a 'Sorting' section with two radio buttons: 'Standard Sort' (selected) and 'Custom Sort'. Under 'Standard Sort', there is a required field '* Column Name:' with a dropdown menu, and a required field '* Sort Direction:' with two radio buttons: 'Ascending' (selected) and 'Descending'. A red arrow points to the 'Descending' radio button. Under 'Custom Sort', there is a required field '* Portfolio Custom Sort Profile:' with a dropdown menu. At the bottom right of the dialog are green and red checkmark icons. A '* Required' label is at the bottom center.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

5. Additional data import/dataload information displayed on Archive page

RRD ID: 99402

Overview

The **Archive** page was updated to include several new fields that allow users to view more detailed information pertaining to a given data import/dataload (e.g., the source file name, who initiated the load, which dataload profile was used, etc.).

What's New

The following columns were added to the **Search Results** grid of the **Archive** page. Users may sort and/or filter the grid contents based on any of the new columns:

1. **Submitted By**

- a. Displays the name of the user that submitted the load request, in *Last Name, First Name* format.

Note:

- If the load was submitted via SFTP, the value displayed is *FTP*.
- A value is displayed even if a given load's **Status** value is *Rejected*.

2. **File Name**

- a. Displays the file name and extension of the file submitted for the load request.

Note:

A value is displayed even if a given load's **Status** value is *Rejected*.

3. **Account Period(s)**

- a. Displays a comma-delimited list of the account period(s) contained in the load file.

Note:

Cells in this column are blank for loads of type *Attributes* (where account period is irrelevant).

4. **Complex(es)**

- a. Displays a comma-delimited list of the **Complex Name** value(s) of the complex(es) associated with the fund(s) in the load file.

5. **Dataload Profile**

- a. For FTP dataloads, displays the **Profile Name** value of the dataload profile that the pre-processor/package used for the load request.
- b. For push-button data imports, displays the value *N/A*.
- c. A value is displayed even if a given load's **Status** value is *Rejected*.

Process Changes

No changes to current processes are required.

6. Enhancements to fund relationship exchange rates and percentage allocation

RRD ID: 100532

Overview

The ability to define complex fund relationships that share percentages of fund assets (*i.e.*, Master/Feeder & Pooling structures) was enhanced. Users can now define the specific percentage allocation of fund assets and what, if any, exchange rate conversion must be done for all fund relationship calculations.

What's New

1. A ***Keep percentage allocation settings for new periods*** option button set was added to the **Add/Edit Fund Relationship** dialogue on the **Fund Relationships** page.

Add/Edit Fund Relationship

Fund Relationship

* Name:

* Description:

Type: ArcReporting ArcFiling

Keep percentage allocation settings for new periods: Yes No

Fund: Fund01 (F01)
Relationship Type(s): Multi-Manager

	Fund Code	Fund Name	Fund Relati	Curre
<input checked="" type="checkbox"/>	F02	Fund02	Manager	EUR
<input checked="" type="checkbox"/>	F03	Fund03	Manager	GBP
<input type="checkbox"/>	F04	Fund04	Manager	USD

[Select all](#) [Clear all](#)

a. Available options are the following:

i. *Yes*

A. If this option is selected, any values specified for a given fund in the **Percentage Allocation** column of the grid will be rolled forward to the next account period.

ii. *No*

A. This is the default selection for newly-created fund relationships.

B. If this option is selected, any values specified for a given fund in the **Percentage Allocation** column of the grid will not be rolled forward to the next account period; each fund's percentage allocation value will be set to *100.000000* for the next period.

2. The existing **Percentage Allocation** column of the grid on the **Add/Edit Fund Relationship** dialogue was enabled, which now allows users to edit values therein.

- a. The default value for all rows is *100.000000*.
- b. Only numeric values between and including *0.000000* and *100.000000* may be entered in the cell.
 - i. If the user enters other than a numeric character or the decimal point (.) in the cell, a red cell border and the following onscreen message is displayed:

Please enter only numeric values.



- ii. If the user enters a value greater than *100.000000* in the cell, a red cell border and the following onscreen message is displayed:

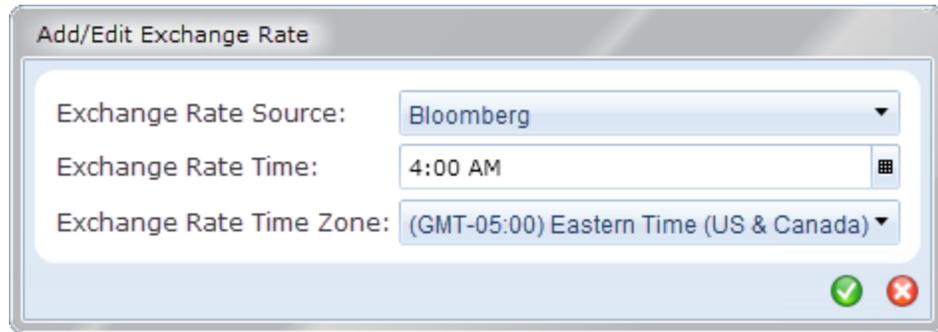
Please enter a value between 0 and 100.



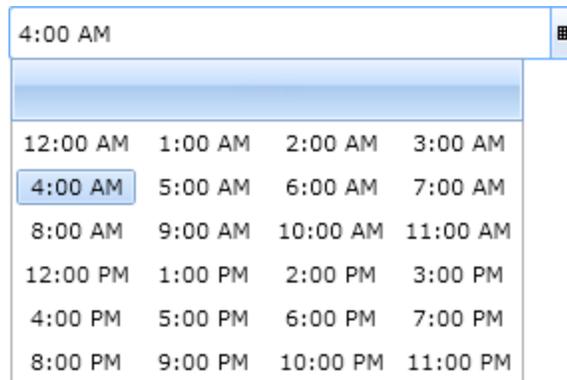
3. The existing **Exchange Rate** column of the grid on the **Add/Edit Fund Relationship** dialogue was enabled, which now allows users to click the hyperlinks therein to adjust exchange rate details.

- a. A blue, clickable link displays in the column, whose text reflects the exchange rate source associated with the fund.
 - i. The default value for all rows is *(none)*.
 - A. If the exchange rate is set to *(none)*, the conversion is seen as a 1-to-1 (*i.e.*, the same currency).

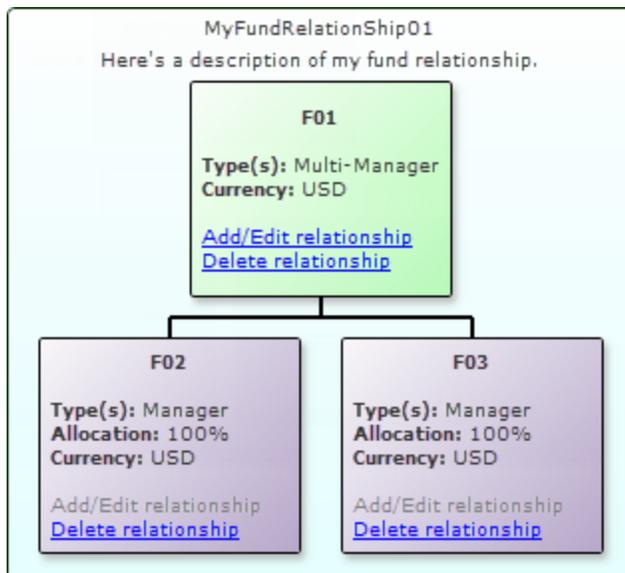
- ii. Clicking the link causes the **Add/Edit Exchange Rate** pop-up dialogue to display.



- A. The user specifies an exchange rate source using the **Exchange Rate Source** drop-down list.
 - 1. The following selections are available in the drop-down list:
 - a. *(none)* (default selection)
 - b. **<Name value of all sources defined via the Exchange Rate Sources page, in ascending order>**
- B. Clicking the selection button at right of the **Exchange Rate Time** text box causes an interface to display, through which the user selects the desired time.



1. The default value is <blank> (*i.e.*, no particular time is specified).
 2. A value may also be manually typed into the text box, but it will be rounded to the nearest hour.
- C. The user specifies the appropriate time zone using the **Exchange Rate Time Zone** drop-down list.
1. Available selections are as follows:
 - a. *(none)* (default selection)
 - b. <all standard time zones>
4. A **Currency** label and value were added to boxes representing funds on the **Fund Relationships** canvas.



- a. The value displayed for each fund represents the **Currency Code** specified as the fund's base currency via the **Fund Information** tab of the **Funds** page.

Additional Information

Rules for consolidation in portfolio and financial statements:

- For calculation sheet items that have their consolidation source set to **Fund Balance**:
 - The value of the current fund (parent) will be shown.

- For calculation sheet items that have their consolidation source set to *Fund and Child(ren) Balances*, or for portfolios that have the *Consolidated* check box selected:
 - The percentage allocation of each child's value will be taken, then multiplied by the exchange rate specified via the **Add/Edit Fund Relationship** dialogue on the **Fund Relationships** page. This will be added to the value of the current fund (parent).
 - Each fund will be calculated individually. The consolidated value will be the sum of each individual calculation.
 - Rounding will be done on a calculation sheet basis (for financials only).
- For calculation sheet items that have their consolidation source set to *Child(ren) Balances*:
 - The percentage allocation of each child's value will be taken, then multiplied by the exchange rate specified via the **Add/Edit Fund Relationship** dialogue on the **Fund Relationships** page and summed.
 - Each fund will be calculated individually. The consolidated value will be the sum of each individual calculation.
 - Rounding will be done on a calculation sheet basis.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

7. Table Styles library

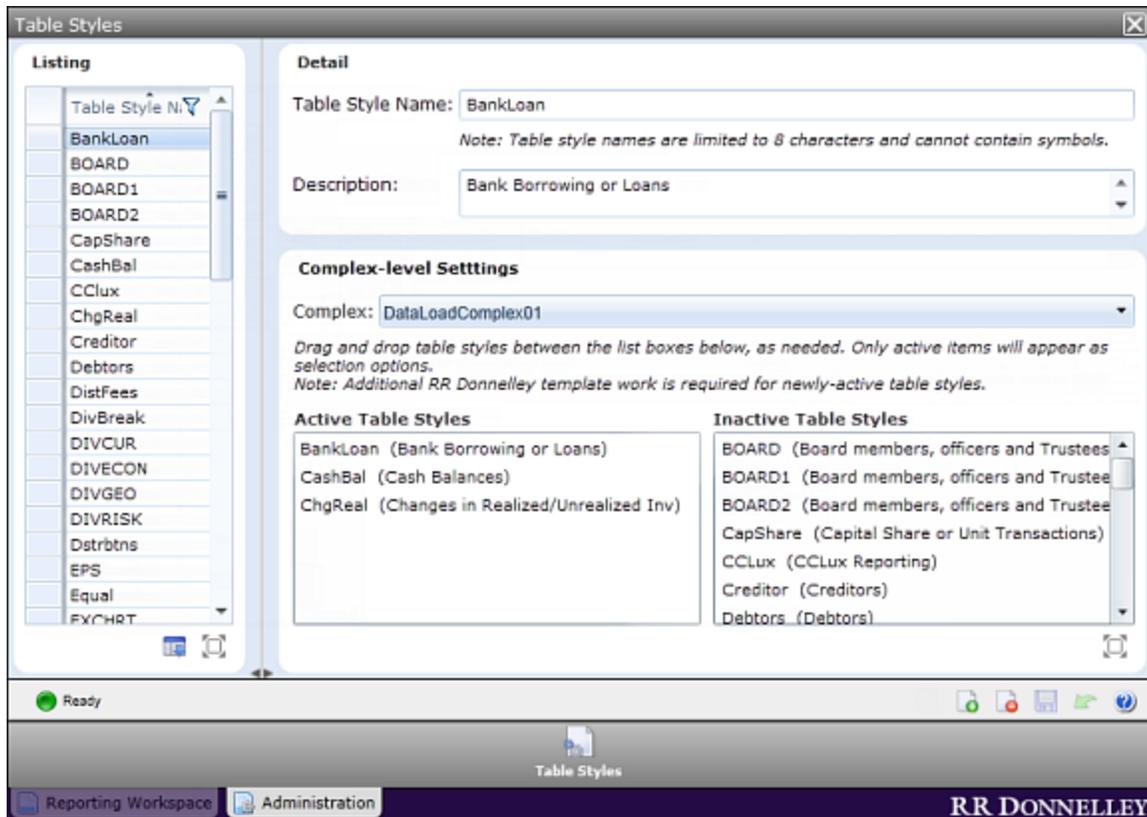
RRD ID: 109199

Overview

A Table Styles library was added to allow users with appropriate rights to add, edit, delete and control which table styles are displayed for a given complex within the **Table Style**, **Table Type** or **Output Style Type** drop-down lists for the project and statement templates.

What's New

1. New user rights were added to the **Roles** page in the **Platform Administration** area.
 - a. *Open Table Styles Page (ArcReporting)*
 - i. A user assigned this right can open the new **Table Styles** page in the ArcReporting product, but not make any changes to settings thereon.
 - b. *Add/Edit/Delete Table Styles*
 - i. This user right is a "child" right to the new *Open Table Styles Page (ArcReporting)* right.
 - ii. A user assigned this right can add, edit and delete records via the new **Table Styles** page in the ArcReporting product.
2. A *Table Styles* item was added under the **Libraries** menu section on the **Administration** tab of the ArcReporting product. When the menu item is clicked, the **Table Styles** page displays.



- a. The left side of the page displays an alphabetical listing of all table styles and corresponding descriptions currently available.

Note:

Upon database update to version 2.5.0, all previously-existing, hard-coded table styles will be migrated to the Table Styles library.

- b. Selecting a table style from the **Listing** grid at left will display its name and description in the **Detail** section at upper-right of the page.
- c. A **Complex-level Settings** section displays at lower-right of the page.
 - i. The **Complex** drop-down list contains the names of all complexes to which the current user has access.

- ii. The **Active Table Styles** list box displays all table styles and the associated description of each (if provided) that are considered "active" for the selected complex, and will therefore display in the **Output Style Type**, **Table Type** and **Table Style** drop-down list for that complex, as it appears in the various user interfaces of the application (*i.e.*, the **Document Structure Templates**, **Portfolio Statement Templates**, **Shared Legend Templates** and **Tabular Data Templates** pages).
- iii. The **Inactive Table Styles** list box displays all table styles and the associated description of each (if provided) from the Listing table that are not already considered active for the selected complex .
- iv. Users may drag-and-drop any number of table styles to/from the **Inactive Table Styles** list box to/from the **Active Table Styles** list box.

Note:

- If an inactive table style had been previously designated for a template or template item, the style name and parenthetical description will still display as specified in the corresponding drop-down list of that page, but will not be available as a selection in the drop-down list if a user attempts to change the designation.
- Upon database update to version 2.5.0, all existing, hard-coded table styles will populate the **Listing** grid for the library. Only those table styles that are assigned/in use for a given complex at the time of the update will populate the **Active Table Styles** list box in association with that complex.

- d. To add a new table style to the library, a user with appropriate rights clicks the **Add new record** button (📄) at lower-right of the page.
 - i. The user specifies a **Table Style Name** and **Description** (optional) in the corresponding fields of the **Details** section, and then clicks the **Save** button (💾) at lower-right of the page.
 - A. The newly-added table style will display in the **Listing** grid at left of the page and the **Inactive Table Styles** list box, in association with each complex.
 - 1. Table style names are limited to 8 characters and must contain lowercase and/or numeric values. The underscore symbol (_) is the only special character allowed.

2. Table style descriptions are optional, limited to 55 characters and allow alpha, numeric and symbol characters.
 3. Both the **Table Style Name** and the **Description** values must be unique. If the specified table style name or description already exists for a record within the library, a warning will display indicating that a unique name and/or description is needed.
- e. Users with appropriate rights may make updates to the **Table Style Name** and/or **Description** values. Upon attempting to save the changes a warning message will display, indicating that such changes will cause all locations in which that style is referenced to be updated with the new name/description, which may cause issues in publishing. The user is prompted to either continue with or abort the updates.
- i. Clicking the **Yes** button on the warning dialogue will update values in the **Listing** grid, the **Active Table Styles** and **Inactive Table Styles** list boxes and all locations in which the style was applied.
 - ii. Clicking the **No** button on the warning dialogue will revert the table style name/description back to the previously-saved values.
- f. To delete a table style from the library, a user with appropriate rights selects the style to be removed in the **Listing** grid, and then clicks the **Remove current record** button (🗑️) at lower-right of the page.
- i. Only styles that are inactive for **all** complexes in the current environment may be removed. If the table style is active for one or more complexes, a warning message to that effect will display on attempt to remove it.
 - ii. If a removed table style had been previously designated for a template or template item, the corresponding drop-down list of that page will be set to **[none]**, and the removed style will not be available as a selection in the drop-down list.
3. The **Output Style Type**, **Table Type** or **Table Style** drop-down list (as applicable) in the following application locations was updated to display an alphabetical list of "active" table styles and descriptions for the current complex, as defined in the new Table Styles library:
- a. **Document Structure Templates** page, **Structure** tab (for items of type **Portfolio**, **Financial**, **Shared Legend** or **Table**), **Details** sub-tab

- b. **Financial Workbook Templates** page, *Financial Statement Templates* tab, **Add Financial Statement Template** dialogue
- c. **Portfolio Statement Templates** page, *Detail* pane
- d. **Portfolio Statement Templates** page, *Statement Detail* tab (for *Column Header* node), *Table Settings and Column Header Captions* grid
- e. **Shared Legend Templates** page, *Detail* pane
- f. **Tabular Data Templates** page, *Detail* pane

Process Changes

Prior to this update, the list of table styles was hard-coded and standard across all ArcReporting databases. With this change the table style list may now be customized per database and must be maintained. After database update to version 2.5.0, new table styles or newly-active styles within the library will require updates to the style template (by RR Donnelley personnel) for the output to be appropriately affected.

8. Removal of unused/obsolete application features

RRD ID: 109936

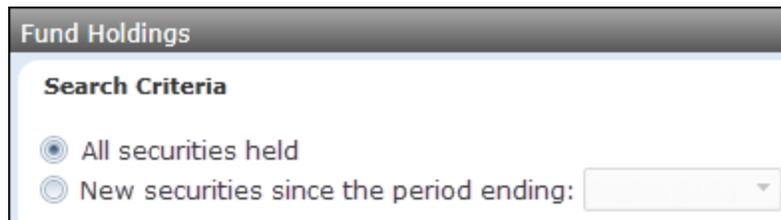
Overview

A number of obsolete and unused application pages/widgets were removed in this release of FundSuiteArc products.

What's New

1. The *Assignment and Production Schedule Definitions* menu item was removed from the **Settings** menu section on the **Administration** tab of ArcReporting, together with its associated application page.
 - a. In conjunction with the removal of this application page, the **Assignment and Production Schedule** drop-down list was removed from the **Settings** tab of the **Project Templates** page.
2. The *Additional Reports*, *Custom Reports*, *Diversification Reports* and *Top 'N' Securities Reports* items were removed from the **Disclosure Builder** menu section on the **Administration** tab of ArcReporting, together with their associated application pages.
 - a. In conjunction with the removal of these application pages, icons representing the following entity types were removed from the **Available Items** sub-tab of the **Document Structure Templates** page:
 - i. *Diversification*
 - ii. *Top N*
3. The *Notes Document Templates* and *Notes Structure Templates* items were removed from the **Structure Templates** menu section on the **Administration** tab of ArcReporting, together with their associated application pages.
 - a. In conjunction with the removal of these application pages, the icon representing the following entity type was removed from the **Available Items** sub-tab of the **Document Structure Templates** page:
 - i. *Notes Document*

4. The *Fund Holdings - Classic* menu item was removed from the **Holdings** menu section on the *Reporting Workspace* tab of ArcReporting, together with its associated application page.
 - a. In conjunction with the removal of this application page, the *New securities since the period ending* functionality was migrated from the **Fund Holdings - Classic** page to the existing **Fund Holdings** page in both ArcFiling and ArcReporting.



- i. The Fund holdings page now displays a vertically-aligned option button set at upper-left of the *Search Criteria* group box.

A. The following options are displayed in the set:

1. *All securities held* (default selection when the page is opened)
 - a. Selecting this option causes all securities for the fund and account period specified in the fund selection bar to display in the grid.
2. *New securities since the period ending*
 - a. A date drop-down list is displayed at right of the option label, from which an account period is chosen when this option is selected.
 - i. The drop-down list is only enabled when the *New securities since the period ending:* option is selected.
 - ii. Dates are displayed in *mm/dd/yyyy* format.
 - b. When viewing a fund, the filtered view displays securities that are held in the current period but not held in the selected account period.

Note:

"Held" means that a security has a balance record (Market Value, Shares, etc.) for the period.

- b. All quick links to the **Fund Holdings - Classic** page from other application interfaces were also updated to link to the **Fund Holdings** page.
5. The **Production Dashboard** menu section was removed from the **Reporting Workspace** tab in ArcReporting.
 - a. In conjunction with the removal of this menu section, the following menu items and their associated application widgets were also removed:
 - i. *Active Assignments*
 - ii. *Assignments and Production Schedule*
 - iii. *Management Reports*
 - iv. *Production Calendar*
 - b. In conjunction with the removal of this menu section, the following menu item and its associated application widget was relocated to the existing **Production Utilities** menu section:
 - i. *Dataload Status*

Process Changes

1. Users must now navigate to the **Production Utilities** menu section to view the dataload status of funds.
2. Given the removal of the **Fund Holdings - Classic** page, users must utilize the **Fund Holdings** page going forward for all daily activities.



Enhancements to ArcReporting

The following section lists enhancements in this product release that pertain specifically to the ArcReporting product.

1. Ability to define conditions for display of statement footnotes

RRD ID: 49249

Overview

Users can now define a set of conditions that determine whether or not a given footnote assigned to a portfolio or financial statement displays in project output.

What's New

1. A **Conditional** section and associated functionality were added to the **Add/Edit Holdings Footnote Details** and **Add/Edit General Ledger Footnote Details** dialogues (invoked via the **Footnote Libraries - Holdings** and **Footnote Libraries - General Ledger** pages, respectively).

Add/Edit Holdings Footnote Details

Footnote Details

* Footnote Name:

* Display Code:

* Footnote Symbol: Use auto-generated symbol
 Use this symbol:

Sort Order:

Linking: Link footnote to fund holdings
Linked Field:

Apply To:

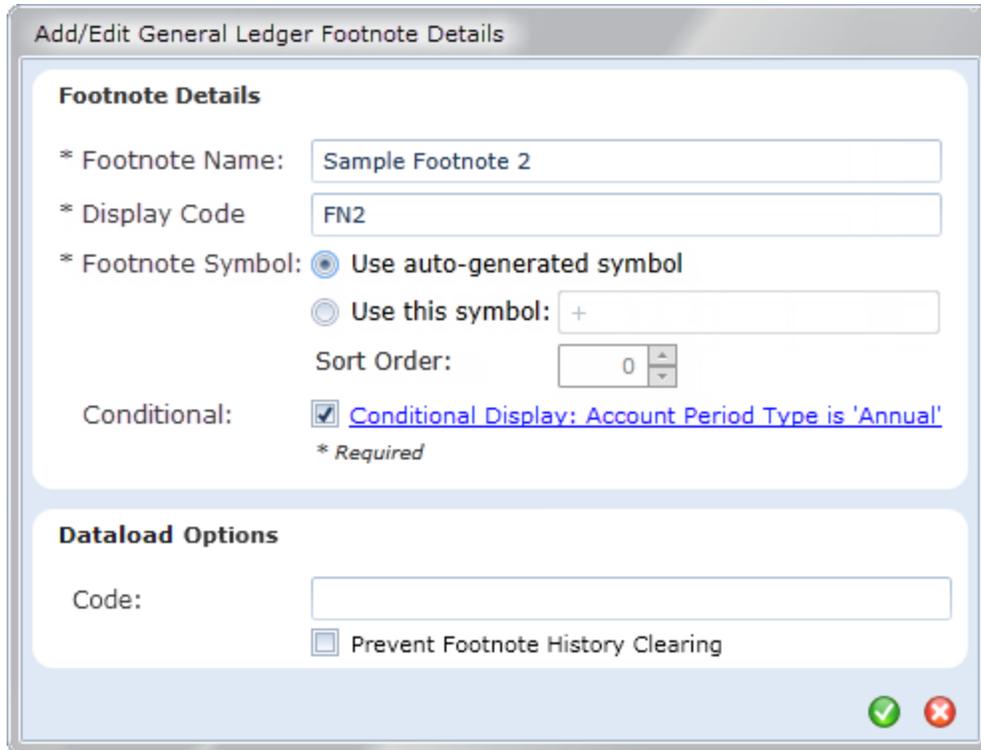
Conditional: [Conditional Display: Account Period Type is 'Annual'](#)
** Required*

Dataload Options

Code:

Automatically roll-forward security attachments for this footnote



- a. A **Conditional Display** check box and associated link are displayed at the top of the section.
 - i. The check box is cleared by default (*i.e.*, conditional display logic is turned off) for any newly-created footnote.
 - ii. Selecting the check box causes conditional display logic to be turned on for the current footnote.

Note:

If no conditional formula is defined at all by the user, and the check box is selected, it is as though the check box were not selected (*i.e.*, conditional display logic is turned off).

- b. The text of the link is **Conditional Display** by default for any newly-created footnote. Once a conditional formula is defined, the link text is appended with the name specified for the formula.
 - i. The link is disabled (*i.e.*, it cannot be clicked) unless the **Conditional Display** check box is selected.

- c. Clicking the link causes the **Conditional Footnote Display** dialogue to display, through which the user can define the conditional formula governing the footnote's display.

Conditional Footnote Display

Formula

Type: True/False

* Name:

* Required

	Element	Type	Return Type	Result
>	Account Period Type is Annual	Condi	True	Footnote will be displayed.



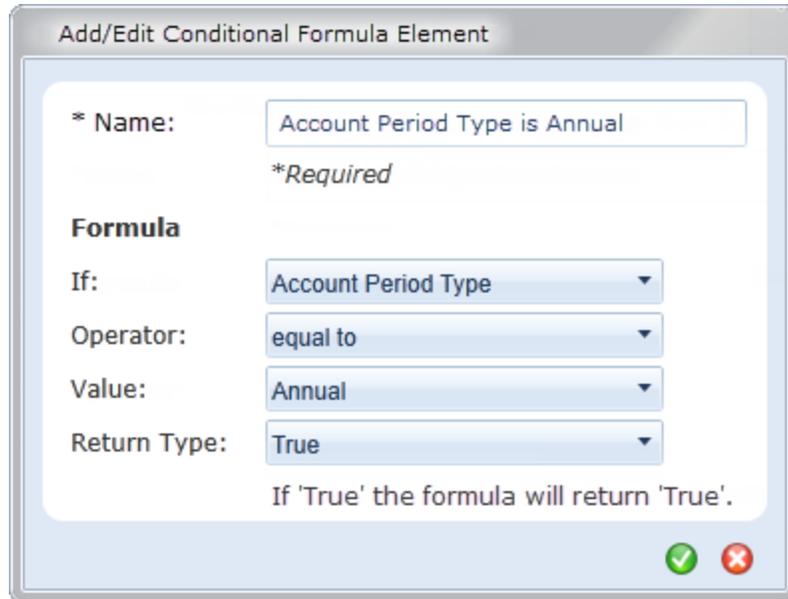




If no conditions are met the footnote will not be displayed.




- i. One or more formula elements are added to the formula grid by clicking the **Add formula element** button:



A. For both holdings and general ledger footnotes, the following standard selections are available in the *If* drop-down list when defining the basis of a conditional formula element:

1. *Account Period*
2. *Account Period Type*
3. *Attribute*
4. *Fund*
5. *Fund Group*
6. *Fund Type*

B. For holdings footnotes only, a *Security* basis selection is also available.



1. Any field that appears in the *All columns* view for the grid on the *Holdings* tab of the **Fund Holdings** page is available for consideration in the conditional formula.
- C. For general ledger footnotes only, a *Financial* basis selection is also available.

Formula

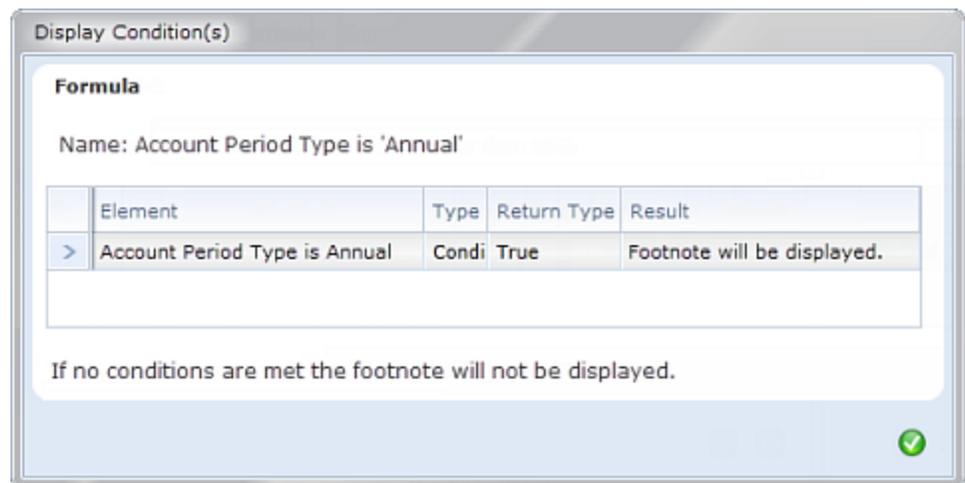
If: Financial ▼ Field: Caption 

1. The following fields are available for consideration in the conditional formula:
 - a. *Caption*
 - b. *Horizontal Total Period 1*
 - c. *Horizontal Total Period 2*
 - d. *Horizontal Total Period 3*
 - e. *Horizontal Total Period 4*
 - f. *Horizontal Total Period 5*
 - g. *Value*
 - h. *Value 2*
 - i. *Value 3*
 - j. *Value 4*
 - k. *Value 5*
 - l. *Value 6*
 - m. *Value 7*
 - n. *Value 8*
 - o. *Value 9*
 - p. *Value 10*
- ii. If the defined formula conditions are met, the current footnote will be displayed in project output.

- iii. If no conditions are met, the footnote will not be displayed in project output.
- 2. A **Conditional** column was added to the grid on the **Footnotes** tab of the **Footnote Libraries - Holdings** and **Footnote Libraries - General Ledger** pages, respectively.

Footnote Library Items											
Footnotes											Languages
	Footnote N	Co	Dis	R	U	Foo	S	Li	Li	Conditional	
>	Combined usir		AVG	<input checked="" type="checkbox"/>	<input type="checkbox"/>	+	0	<input type="checkbox"/>	<input type="checkbox"/>	Yes	
	Combined usir		CLS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	*	0	<input type="checkbox"/>	<input type="checkbox"/>	No	

- a. The column displays one of the following values, dependent on whether or not a **Conditional Display** formula has been defined for a given footnote:
 - i. **No** - Displayed when the **Conditional Display** check box is cleared.
 - ii. **Yes** - Displayed as a blue, clickable link when the **Conditional Display** check box is selected.
 - A. Clicking the link causes the **Display Condition(s)** pop-up dialogue to display.



- 1. The dialogue displays a read-only view of the conditional display formula defined for the footnote.

3. A **Display** drop-down list was added to both the holdings **Footnote Preview and Assignment** page and the **Footnotes** tab on the **Financial Workbook** page, which allows users to filter the display of assigned footnotes to conditional- or static-type footnotes, or both.

Footnote Preview and Assignment

Project: MyProject Language: English (U.S.) Portfolio Statement Template:

Footnote	Applied	Master		Shares	Value
Common Stocks 92.6%					
Aerospace & Defense					
		01234567	General Dynamics	342,000	21,481,02
		12345678	United Technologies	1,825,730	130,046,7
		23456789	Family Dollar Stores	3,221,160	142,246,4
					293,774,
Banks 12.7%					
NI	Caption	34567890	Hudson City Inc.(c)	3,705,800	45,433,10
NI	Caption	45678901	Peoples Inc.(c)	156,646	1,937,711
		56789012	TrustCo Bank NY(a)	496,478	2,760,417
		67890123	U.S. Bancorp(a)	212,603	4,596,477
		78901234	Kid Brands Inc.(a)	594,253	5,110,576
		89012345	Leggett & Platt Inc.(a)	1,097,590	24,981,14
		90123456	Hillenbrand Inc.	1,366,700	29,397,71

Note: Footnote legend contents may display differently in project preview and output for projects using 'Shared Legend' functionality.

Display: Conditional and static footnote assignments 

Class Balances Supplemental Data Calculation Sheets Finar

Financial Statement: SAL Base Class:

	Name	Caption	Value	Value I	Horizc	HT Footn
>	Column Header	(b)				
	Assets	(a), (b)	123.4		901.2	(a), (b)
	Investments	(a)				
	Bonds					
	Warrants	(a)	456.8		345.6	
	Total Investm	(b)		(a)		
	Total Assets		456.8		345.6	
	Net Profit or Loss	(b)		(a)		
	Realized		456.8		345.6	
	Unrealized	(b)		(a)		
	Total Gain/L		456.8		345.6	

Note: Footnote legend contents may display differently in project preview and output for projects using 'Shared Legend' functionality.

Display: Conditional and static footnote assignments 

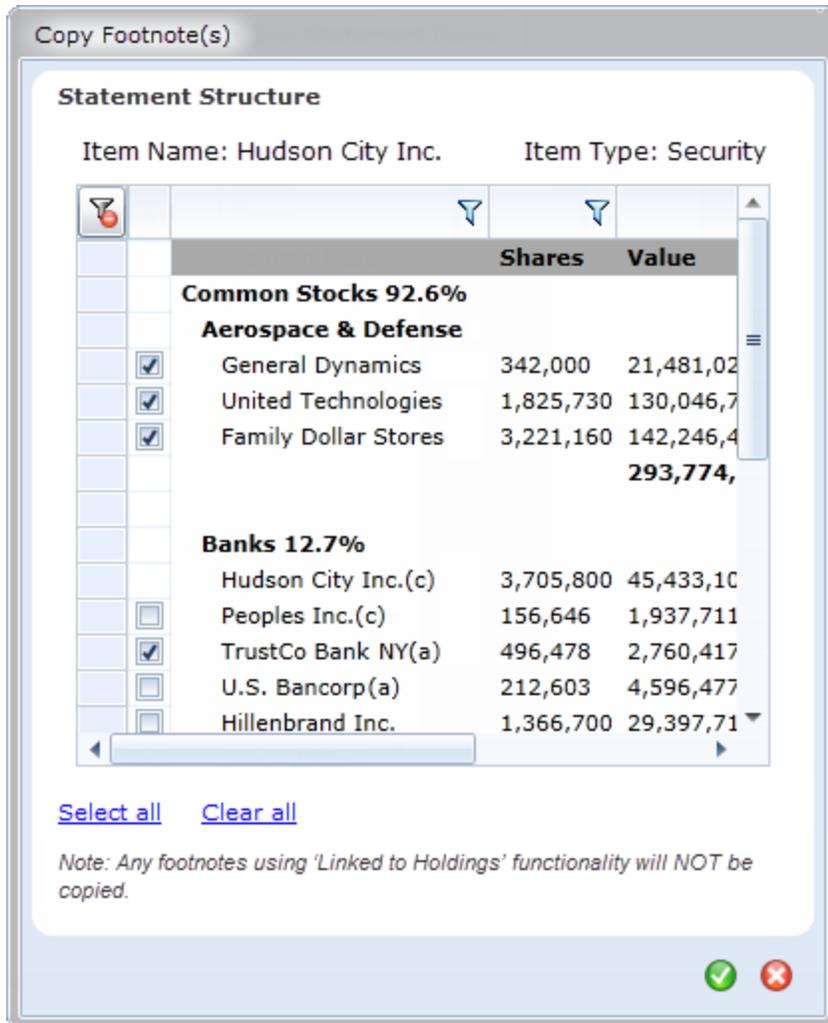
- a. Available drop-down list selections are as follows:
- i. *Conditional and static footnote assignments* (default selection when the page is opened)
 - A. Specifying this selection causes all footnote assignments to display in the grid.
 - ii. *Conditional footnote assignments*
 - A. Specifying this selection causes only assignments for footnotes that have the **Conditional Display** check box selected to display in the grid.
 - iii. *Static footnote assignments*
 - A. Specifying this selection causes only assignments for footnotes that do not have the **Conditional Display** check box selected to display in the grid.

Note:

A given footnote may not display in the grid immediately after it is assigned, if the **Display** setting is such that it filters the footnote from view.

- b. The selection specified by the user is not affected when the preview grid is refreshed by any of the following actions (*i.e.*, the selection remains specified):
 - i. The **Refresh** button is clicked.
 - ii. The **Revert** button is clicked.
 - iii. The selection is changed for any of the drop-down lists above the footnote assignment grid.

4. A *Copy footnote(s)* item was added to the context menu that displays when right-clicking certain types of line items on the holdings **Footnote Preview and Assignment** page.
 - a. Selecting this menu item causes the **Copy Footnote(s)** pop-up dialogue to display.



- i. A grid on the dialogue displays specific statement item types as rows, dependent on the type of the "source" item (*i.e.*, the item that was right-clicked to invoke the dialogue), as specified below:

A. Source item type: **Category Header**

1. All *Category Header* items display (no rows representing securities or category totals display, however).

B. Source item type: **Security**

1. All *Category Header* items display.
2. All *Security* items associated with each category display.

C. Source item type: **Category Total**

1. All *Category Total* items display (no rows representing securities or category headers display, however).

D. Source item type: **Formula**

1. All *Formula* items display.
2. The *Total Investments* item displays.
3. All *Other Assets* items display.
4. The *Net Assets* item displays.

E. Source item type: **Total Investments**

1. The *Total Investments* item displays.
2. All *Formula* items display.
3. All *Other Assets* items display.
4. The *Net Assets* item displays.

F. Source item type: **Other Assets**

1. All *Other Assets* items display.
2. All *Formula* items display.
3. The *Total Investments* item displays.
4. The *Net Assets* item displays.

- G. Source item type: **Net Assets**
 - 1. The *Net Assets* item displays.
 - 2. All *Formula* items display.
 - 3. The *Total Investments* item displays.
 - 4. All *Other Assets* items display.
- ii. A check box is displayed in the left column of the grid for each row that is of the same or similar type as the "source" item (*i.e.*, the item that was right-clicked to invoke the dialogue).
 - A. All check boxes are cleared by default when the dialogue is opened.
 - B. A check box is not displayed in the row representing the source item.
 - C. Rows that will display check boxes for each type of source item are as follows:
 - 1. Source item type: **Category Header**
 - a. All other *Category Header* items at all levels display a check box.
 - 2. Source item type: **Security**
 - a. All other *Security* items at all levels display a check box.
 - 3. Source item type: **Category Total**
 - a. All other *Category Total* items at all levels display a check box.
 - 4. Source item type: **Formula**
 - a. All other *Formula* items display a check box.
 - b. The *Total Investments* item displays a check box.
 - c. All *Other Assets* items display a check box.
 - d. The *Net Assets* item displays a check box.
 - 5. Source item type: **Total Investments**
 - a. All *Formula* items display a check box.
 - b. All *Other Assets* items display a check box.

- c. The *Net Assets* item displays a check box.
 - 6. Source item type: **Other Assets**
 - a. All *Formula* items display a check box.
 - b. The *Total Investments* item displays a check box.
 - c. All other *Other Assets* items display a check box.
 - d. The *Net Assets* item displays a check box.
 - 7. Source item type: **Net Assets**
 - a. All *Formula* items display a check box.
 - b. The *Total Investments* item displays a check box.
 - c. All *Other Assets* items display a check box.
- iii. Clicking the **Accept** button at lower-right of the dialogue causes it to close, and for the following to occur:
 - A. The footnote(s) assigned to the "source" statement line item (*i.e.*, the item that was right-clicked to invoke the dialogue) are assigned to each "target" line item (*i.e.*, those whose corresponding check box was selected in the grid of the dialogue).

Note:

Any footnotes assigned to the source line item that use **Linked to Holdings** functionality will **not** be copied.

- 1. If any target line item already had existing footnotes assigned, those assignments are **appended** (not overwritten) with the source line item's assigned footnote(s).
 - a. If any given footnote is assigned to both the source line item and a given target line item, that footnote is **not** assigned twice (*i.e.*, it is effectively "ignored").

- b. If any given footnote is assigned to both the source line item and a given target line item, the specified **Applied To** field of the target assignment is **not affected**.

B. The **Footnote Preview and Assignment** page is placed in an unsaved state; the user can either save the effected changes or revert the changes.

Note:

- The following line item types **cannot** be selected for the footnote copy operation; line items of all other types can be selected:
 - *Column Header*
 - *Group Header*
 - *Group Total*
 - *Aggregated Category*
 - *Positive Subtotal*
 - *Negative Subtotal*
 - *Stack Level Header*
 - *Stack Level Total*
 - *Legend*
 - *Footnote Legend*
 - *Abbreviation Legend*
 - *Currency Legend*
 - *Text*
- Multiple line items **cannot** be selected for the footnote copy operation (*i.e.*, the menu item only enabled when a single statement item is selected in the grid; it is **disabled** when multiple items are selected).

Process Changes

No changes to current processes are required.



[Demonstration video](#)

2. Ability to insert custom tags in financial statements, portfolio statements and tables

RRD ID: 51046

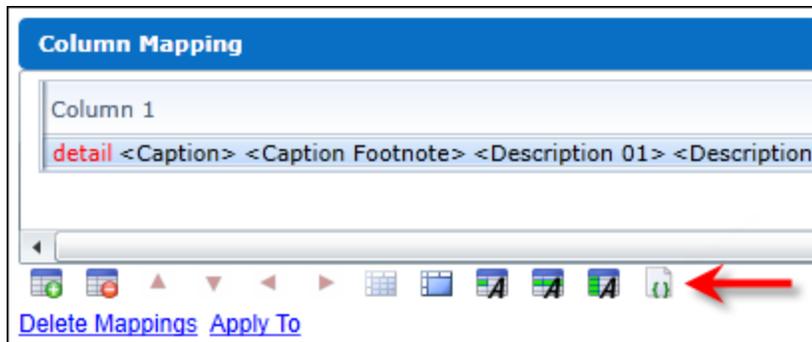
Overview

Users can now insert custom tags in the output settings mapping grids of portfolio statements, financial statements and tabular data tables.

What's New

1. An *Insert custom tag* button (📄) was added beneath the mapping grid of the **Portfolio Statement Template Output Settings**, **Financial Statement Template Output Settings** and **Tabular Data Template Output Settings** pages.

Portfolio Statement Template Output Settings:



Financial Statement Template Output Settings:

Mapping

Layout Code: Repeat Grc

FundByPeriod

Column 1	Column 2
Detail <Caption><Caption Footnote>	Detail \$<Value><Value Footnote>

← → ↶ ↷ ↻ 🗑️

←

[Delete Mappings](#) [Apply To](#)

Tabular Data Template Output Settings:

Detail

Use the slider below to adjust the number of columns.

	Header Row	Column 1
Row 1	<input checked="" type="checkbox"/>	Heading Class A
Row 2	<input type="checkbox"/>	Detail Actual
Row 3	<input type="checkbox"/>	Detail Hypothetical (5% return before expenses)
Row 4	<input type="checkbox"/>	Sub-heading Class B
Row 5	<input type="checkbox"/>	Detail Actual
Row 6	<input type="checkbox"/>	Detail Hypothetical (5% return before expenses)
Row 7	<input type="checkbox"/>	Sub-heading Class C
Row 8	<input type="checkbox"/>	Detail Actual
Row 9	<input type="checkbox"/>	Detail Hypothetical (5% return before expenses)
Row 10	<input type="checkbox"/>	Sub-heading Class R

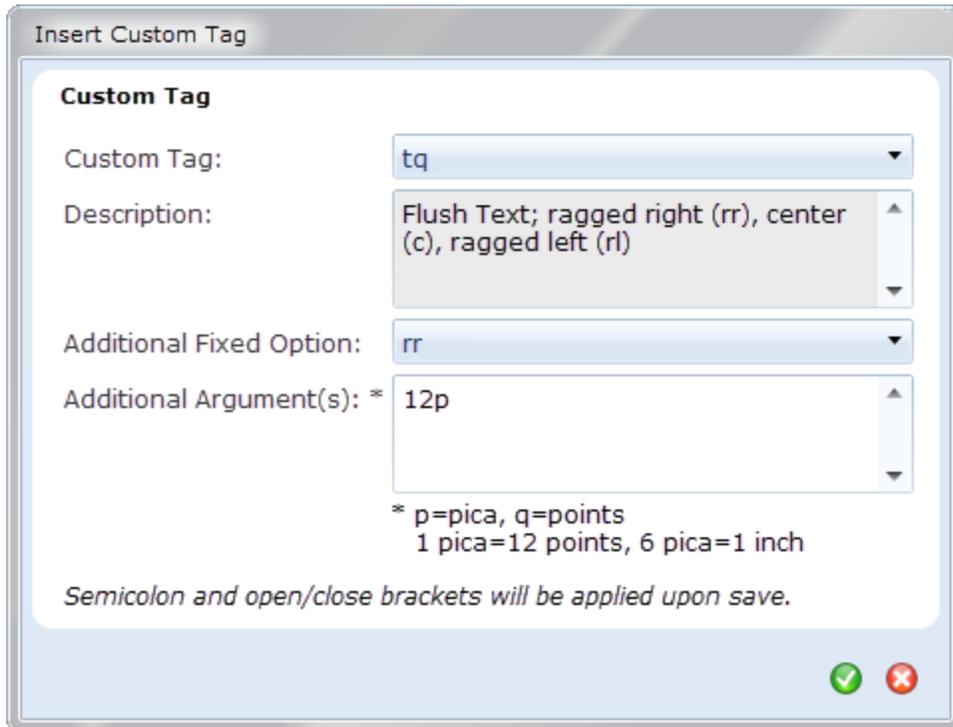
▲ ▼ ← → ↶ ↷ ↻ 🗑️

←

Note:

The *Insert custom tag* button is disabled until a cell within the mapping grid has been selected.

- a. Clicking the button displays the **Insert Custom Tag** pop-up dialogue, in which the user may select the data point to insert.



- i. Options, layout and functionality of the dialogue are consistent with the existing custom tag insertion functionality for FundSuiteArc text editors.
- ii. As with other mapped items, the applied custom tag(s) may be moved within the cell via the **Format Items** tab of the page, using the **Move item up** and **Move item down** buttons.
- iii. Inserted custom tags may not be edited within the Output settings pages. If changes are required for an inserted custom tag, the tag must be removed and a new tag inserted.
 - A. To delete an inserted tag, select the cell of the mapping grid in which the tag resides, go to the **Format Items** tab, select the tag from the list box at left of the tab, then click the **Remove item from selected cell** button.

2. A **Tag Description** scrollable text box was added to the **Selected Item Options** section of the **Format Items** tab on the **Portfolio Statement Template Output Settings**, **Financial Statement Template Output Settings** and **Tabular Data Template Output Settings** pages.
 - a. The text box displays the **Description** value associated with a custom tag selected in the list box at left of the tab, as defined in the Custom Tags library.

Process Changes

No changes to current processes are required.

3. Repeat by class functionality for multi-column calculation sheets

RRD IDs: 55638, 102414, 102427

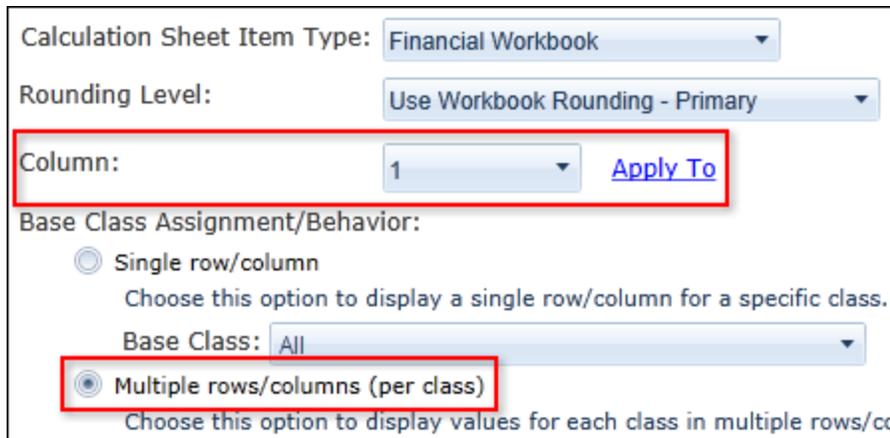
Overview

Users can now utilize the *Multiple Rows/Columns (per class)* option when setting up a multiple-column calculation sheet. The sheet will display one column per class (similar to *Classes Across* calculation sheets). A series of FundSuiteArc audit reports and exports were also updated in conjunction with this functionality.

What's New

After creating a *Multiple Columns* calculation sheet via the *Calculation Sheets* tab of the **Financial Workbook Templates** page, users can now select the *Multiple Rows/Columns (per class)* option to display one column per class and *None/All* in the financial workbook on a column-by-column basis for each item.

1. Several enhancements were made to the **Edit Calculation Sheet Item** dialogue with respect to items in *Multiple Columns* calculation sheets.



Calculation Sheet Item Type: Financial Workbook

Rounding Level: Use Workbook Rounding - Primary

Column: 1 [Apply To](#)

Base Class Assignment/Behavior:

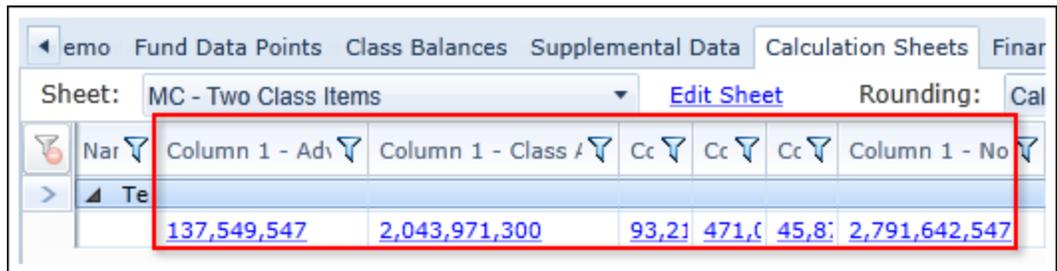
Single row/column
Choose this option to display a single row/column for a specific class.

Base Class: All

Multiple rows/columns (per class)
Choose this option to display values for each class in multiple rows/cc

- a. The *Column* drop-down list and associated *Apply To* link were moved from the *Formula* section to above the *Base Class Assignment/Behavior* options.
 - i. This enhancement allows the *Base Class Assignment/Behavior* to be specified on a column-by-column basis.

- ii. The **Formula** definition will continue to be set on a column-by-column basis.
- b. The **Multiple rows/columns (per class)** option button is now available for a user to select.
 - i. By enabling this option, the expected value based on the defined formula will be displayed as a separate column per class, together with a column for **None/All**, on the **Calculation Sheets** tab of the **Financial Workbook** page.



Column 1 - Adv	Column 1 - Class A	Cc	Cc	Cc	Column 1 - No
137,549,547	2,043,971,300	93,21	471,6	45,8	2,791,642,547

- A. Each column header will display the column number, appended with the class name.
- c. Users can now designate a specific class when selecting the **Single row/column** option.
 - i. The specified class, together with the **None/All** value, will be displayed as separate columns on the **Calculation Sheets** tab of the **Financial Workbook** page.
 - A. If the user specifies **All**, then the **None/All** value will be the only column displayed on the **Calculation Sheets** tab of the **Financial Workbook** page.
- 2. The following repeat groups will now work for financial statement templates linked to **Multiple Columns** calculation sheets, if applied via the **Financial Statement Template Output Settings** page:
 - a. *Class by Fund*
 - b. *Class by Period*
 - c. *Fund by Class*
 - d. *Period by Class*
- 3. The following export and audit reports were enhanced for **Multiple Columns** calculation sheets to capture the new functionality:
 - a. Calculation Sheet Account Mapping Audit Report
 - b. Calculation Sheet Template Audit Report

- c. Financial Statement Mapping Audit Report
- d. Financial Workbook Consolidation Report
- e. Financial Workbook Export

Process Changes

No changes to current processes are required.



[Demonstration video](#)

4. Ability to preview footnote content while making assignments in a financial workbook

RRD ID: 99358

Overview

Users can now preview the content of a given footnote for the selected account period/language via a new link in the grid on the **Footnotes** tab of the **Financial Workbook** page.

What's New

A column was added to the **Available Footnotes** grid on the **Footnotes** tab of the **Financial Workbook** page, which displays a **Preview footnote content** link for each footnote contained in the assigned footnote library. Clicking the link that corresponds with a given footnote allows users to preview the content of that footnote directly from the **Financial Workbook** page.

Available Footnotes

Footnote Library: [MyFootnoteLibrary](#)

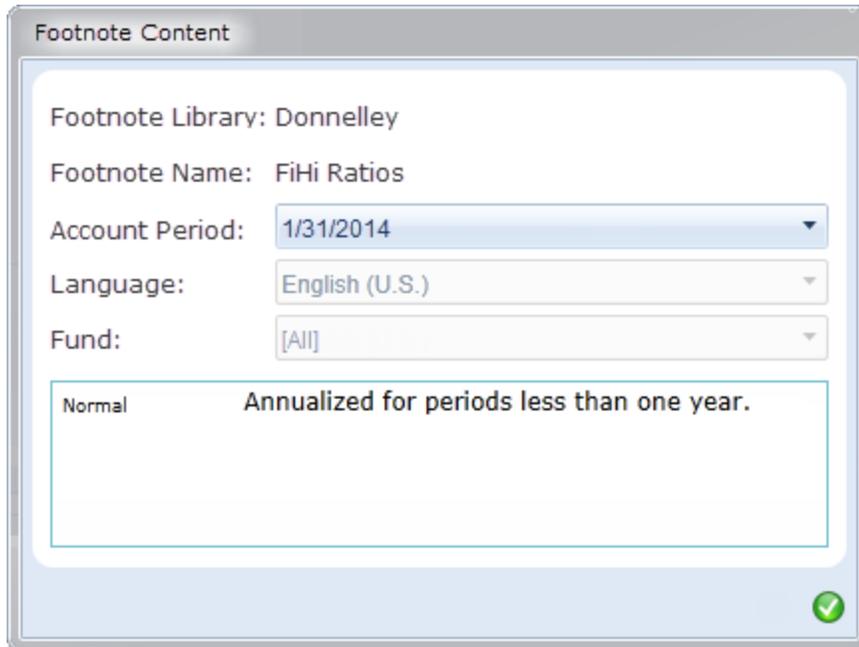
To assign a footnote to a line item, drag it from the Available Footnotes list to the line item in the grid at left. Note: A given footnote may not display in the grid after it is assigned, if the 'Display' setting is such that it filters the footnote from view.

	Disj	Footnote	
>	(a)	MyFootnoteC	Preview footnote content
	(b)	MyFootnoteC	Preview footnote content





1. A read-only **Footnote Content** dialogue displays when a link is clicked.



- a. The same details available via the **Footnote Libraries - General Ledger** page are available on the **Footnote Content** dialogue, including the footnote name, the footnote text itself (using the same color scheme and other attributes assigned to text), the library in which the footnote is contained, the account period with which the displayed text is associated, and the language and fund designations.
- b. When account period-, language- and/or fund-specific text exists for a given footnote, users can toggle the selections in the corresponding drop-down lists to see the associated text.

Process Changes

No changes to current processes are required.

 [Demonstration video](#)

5. Ability to add exceptions to "Fair Value Level" and "Fair Value Type" groups

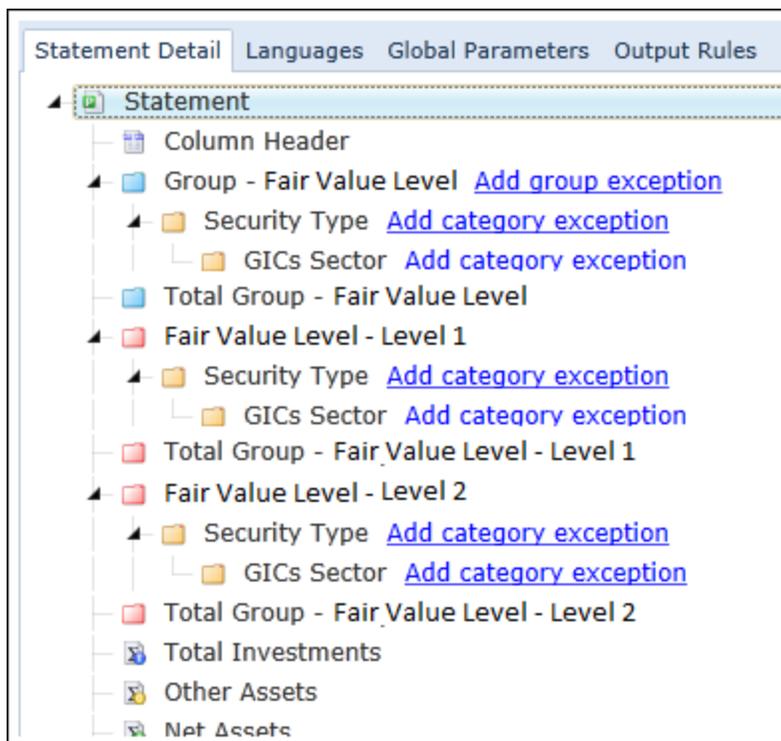
RRD ID: 99369

Overview

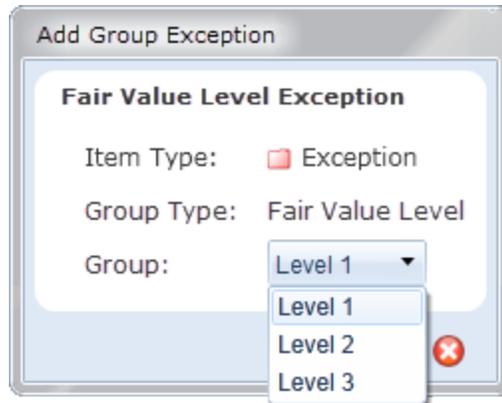
Users can now create exceptions to portfolio statement template groups that are based on *Fair Value Level* or *Fair Value Type*.

What's New

1. An *Add group exception* link is now displayed on the *Statement Detail* tab of the **Portfolio Statement Templates** page for each group based on *Fair Value Level* or *Fair Value Type*.



- a. Clicking the link for the group of this type displays the **Add Group Exception** pop-up dialogue.
 - i. *Level 1*, *Level 2* and *Level 3* selections were added to the existing **Group** drop-down list on the dialogue, for groups based on *Fair Value Level*.



- ii. *Asset* and *Liability* selections were added to the existing **Group** drop-down list on the dialogue, for groups based on *Fair Value Type*.



2. Functionality associated with *Fair Value Level* and *Fair Value Type* group exceptions (e.g., mapping, copying, importing/exporting, audit reports, etc.) is consistent with previously-existing group exception functionality.

Process Changes

No changes to current processes are required.

6. Enhancements to financial workbook report output and file naming

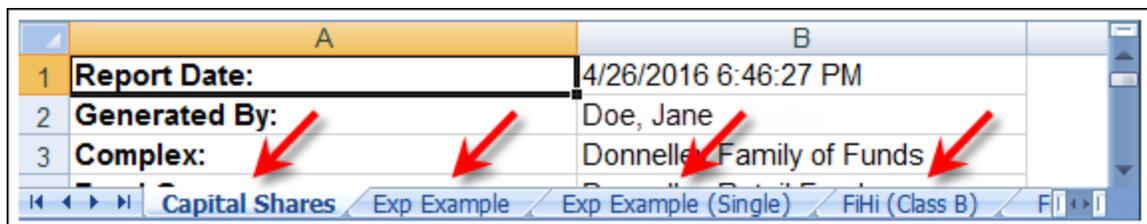
RRD ID: 99386

Overview

The Calculation Sheet Account Mapping Audit Report and Financial Statement Mapping Audit Report will now consolidate all audit reports into a single Excel file with a tab dedicated to each calculation sheet or financial statement, respectively. Users that wish to export reports for more than one fund in a single download will find separate fund-level Excel files within a single ZIP archive. File naming now also incorporates fund names and codes, as opposed to database keys, as was the case prior to version 2.5.0.

What's New

1. One Excel (XLS) workbook will now be created for each fund specified for export in either the Calculation Sheet Account Mapping Audit Report or the Financial Statement Mapping Audit Report.



	A	B
1	Report Date:	4/26/2016 6:46:27 PM
2	Generated By:	Doe, Jane
3	Complex:	Donnell Family of Funds

- a. Each Calculation Sheet Account Mapping Audit Report workbook will contain one worksheet for every calculation sheet specified for export, and display data specific to the fund represented by the workbook and in association with the specified account period.
- b. Each Financial Statement Mapping Audit Report workbook will contain one worksheet for every statement specified for export, and display data specific to the fund represented by the workbook and in association with the specified account period.

2. When data for more than one fund is exported in either the Calculation Sheet Account Mapping Audit Report or the Financial Statement Mapping Audit Report, each Excel workbook contained in the resulting ZIP archive will be named according to the following conventions, respectively:
 - a. *CSAMAR_<fund name><space>(<fund code>).xls*
 - b. *FSMAR_<fund name><space>(<fund code>).xls*
3. Each worksheet in a given Excel workbook for the Calculation Sheet Account Mapping Audit Report or the Financial Statement Mapping Audit Report will now bear the name of the financial statement it represents.
 - a. The maximum character length for the name of each worksheet (an Excel limitation) is 31.
 - i. If a given statement's name exceeds the maximum character length, it will be truncated at the maximum length.

Example:

- Statement is named *Statement of Assets and Liabilities*.
- Resulting worksheet name in XLS file is *Statement of Assets and Liabili*.

- ii. If the first 27 or 28 characters of two or more statements' names are the same, the name of the 2nd to nth worksheet representing the statement(s) will be appended with a parenthetical (2), (3), ..., (19), (20), etc.

Example:

- Statements are named *My Great Financial Statement - A&L* and *My Great Financial Statement - Changes*.
- Resulting worksheet names in XLS file are *My Great Financial Statement(1)*, *My Great Financial Statement(2)*.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

7. "Aggregated Securities" line items to sort with non-aggregated items

RRD ID: 99556

Overview

Aggregated and non-aggregated securities within the same category/group of holdings in a given portfolio statement will now display based on the sort settings assigned to that category/group. In prior versions of ArcReporting, without an output rule applied, aggregated and non-aggregated securities were sorted separately and the aggregated securities were displayed after the non-aggregated securities within a given category/group of holdings.

What's New

Aggregated Securities sorting logic was updated, such that when the **Enable Aggregation** check box is selected for a given category/group via the **Aggregate** sub-tab of the **Portfolio Statement Templates** page, the resulting statement output will display all securities (aggregated and non-aggregated) within the category/group, per settings specified via the **Sorting** sub-tab.

Example:

- Statement template settings:

o **Aggregate** tab

Settings

Item Type: Category
 Category Type: FIC Industry

Sorting Prior Period Calculations Subtotal Filter **Aggregate** Stack

Enable Aggregation
 Please specify the field(s) by which to aggregate below.
Note: If aggregation is set at the category level, the settings below will be ign

	Aggregate Level	Column Name
>	1	Caption
	2	Coupon Rate
	3	TBA Description
	4	Reset Date






Ignore footnotes when evaluating Holdings to aggregate
 Ignore Top 'N' securities when evaluating Holdings to aggregate

o **Sorting** tab

Settings

Item Type: Category
 Category Type: FIC Industry

Sorting
Prior Period
Calculations
Subtotal
Filter
Aggregate
Stack

	Sort Level	Type of Sort	Column/Sort Profile Name	Direction
	1	Standard	Caption	Ascending
	2	Standard	Coupon Rate	Ascending
	3	Standard	Maturity Date	Ascending
	4	Standard	TBA Description	Ascending
	5	Standard	Reset Date	Ascending






■ Resulting statement output:

- Prior to version 2.5.0, with an output rule specifying that aggregated securities display last.

U.S. Government And Agency Obligations - 42.6%
Federal Home Loan Mortgage Corporation – 4.6%
FHLMC,
0.875%, 03/07/18
2.448%, 11/01/34 (01/15/15)
2.533%, 07/01/30 (01/15/15)
3.750%, 03/27/19
5.128%, 08/01/35 (01/15/15)
1.250%, 08/01/19 to 10/02/19 

- Version 2.5.0, aggregated and non-aggregated securities displaying together, without an output rule.

U.S. Government And Agency Obligations - 42.6%
Federal Home Loan Mortgage Corporation – 4.6%
FHLMC,
0.875%, 03/07/18
1.250%, 08/01/19 to 10/02/19 
2.448%, 11/01/34 (01/15/15)
2.533%, 07/01/30 (01/15/15)
3.750%, 03/27/19
5.128%, 08/01/35 (01/15/15)

Process Changes

The use of an output rule for sorting aggregated securities will no longer be required.

8. Single-industry subtotal suppression

RRD ID: 99669

Overview

Users can now opt to suppress the total line for a given inner-level category when it is the only one that exists at that level in portfolio statement output.

What's New

1. The existing **Suppress category total if single item is displayed** check box option on the **Suppression** tab of the **Portfolio Statement Template Output Settings** page was renamed **Suppress category total if single security item is displayed** to more accurately describe its effect in statement output.
2. A **Suppress category total if single category is displayed** check box option was added to the **Suppression** tab of the **Portfolio Statement Template Output Settings** page for inner-level category/category exception total lines.
 - a. The check box is cleared by default when creating a new portfolio statement template.
 - b. If the check box is selected for a given category total line, the total line will be suppressed in statement preview and output when that category is the only one that exists at the innermost level.
 - c. If the check box is cleared for a given category total line, the total line will be displayed in statement preview and output.

Additional Information

The functionality described above will replace the following output rules:

- *SuppressT2WhenOneH2WithinH1.xslt*
- *SuppressT3WhenOneH3WithinH2.xslt*

Process Changes

No changes to current processes are required.



[Demonstration video](#)

9. New library to house client sites for sending shared content to ArcPublishing

RRD ID: 99757

Overview

Updates were made to the **Project Templates** page to streamline the way in which a user specifies the ArcPublishing site to which he/she wants to send shared content.

What's New

A user no longer needs to define the ArcPublishing Customer ID to which they wish to send his/her content via the **Chapter Detail** sub-tab of the **Project Templates** page. An ArcPublishing Client Sites library was added to the Environment Administration area, in which administrators can define a **Client Code** or **Customer ID** in association with a given ArcPublishing **Site Name**.

Process Changes

No changes to current processes are required.

10. Ability to search "Counterparty" field and category captions for abbreviations

RRD ID: 99791

Overview

Both **Counterparty** and **Category Caption (Category Type)** values will now be searched when building a portfolio statement template's abbreviation legend. Existing logic to search fields that are mapped within the statement template's corresponding output settings remains intact.

What's New

For portfolio statement templates that utilize abbreviation legends, the contents of the **Counterparty** field and the **Category Caption** for any category type used in the statement will be searched as part of the process to build the legend.

Note:

A field must be mapped within a given statement template's output settings to be considered in the abbreviation legend search.

1. Logic associated with the **Abbreviations** tab on the **Fund Holdings** page was updated to reflect any abbreviation records found within the **Caption** (for categories) and **Counterparty** fields.
2. The informational text at the bottom of the **Abbreviations** tab on the **Fund Holdings** page was augmented to reflect the inclusion of abbreviations contained in counterparty or category caption fields.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

11. Ability to define row-level suppression logic for financial statement column headers

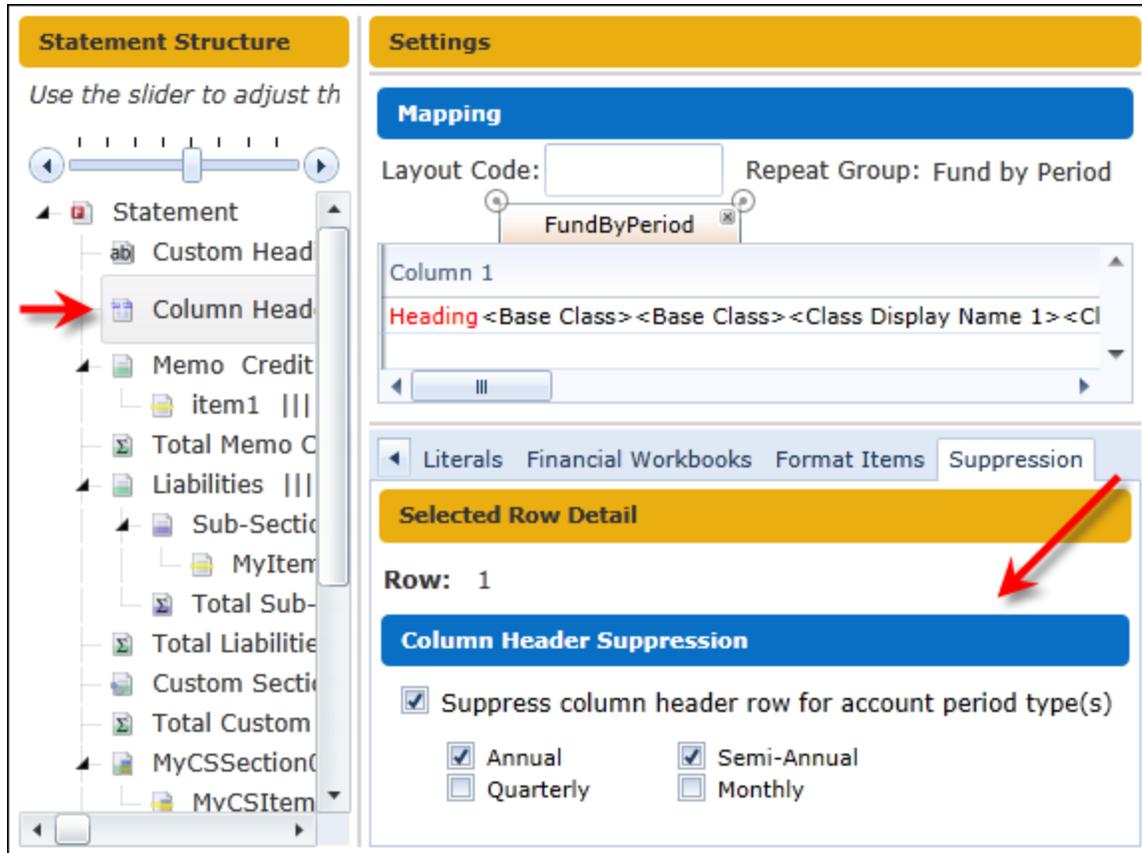
RRD ID: 99793

Overview

Users can now apply suppression to individual rows of a financial statement column header, based on account period type. This alleviates the need for manual workarounds.

What's New

The **Suppression** tab on the **Financial Statement Template Output Settings** page was enabled for use when the **Column Header** item is selected in the statement structure at left of the page, and row-level suppression functionality was provided.



Note:

This functionality pertains to standard-orientation statement templates only.

1. When any given row in the *Mapping* grid is selected for the *Column Header* item, the user can select the *Suppress column header row for account period type(s)* check box to suppress that row in statement preview and output, for a project associated with one of the period settings selected.
 - a. Users can select from the following account period types:
 - i. *Annual*
 - ii. *Semi-Annual*
 - iii. *Quarterly*
 - iv. *Monthly*

2. Row-specific suppression settings are retained when users perform a copy or import operation for any given financial statement template.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

12. Conditional data point standardization for text, footnote and custom data point libraries

RRD ID: 100708

Overview

The behavior of system and custom conditional data points was streamlined. Now, there is a single approach to returning system data points. Additionally, users can no longer set conditional fund-level rounding; this was an unused application feature.

What's New

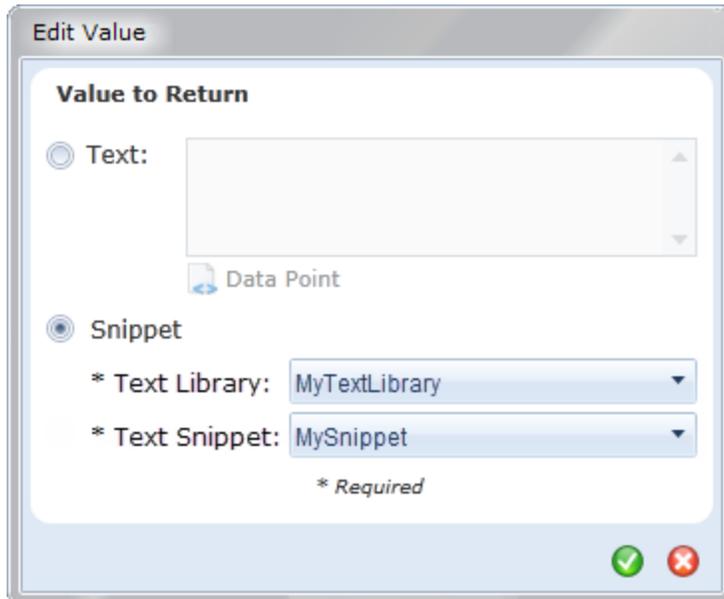
1. The **Conditional Fund Rounding** check box and informational text associated with the **Fund-level Rounding** drop-down list were removed from the **Default Settings** tab of the **Complex Settings** section on the **Fund Report Settings** page.

Note:

Users can still define static fund-level rounding behavior via the **Fund-level Rounding** drop-down list.

2. The **Conditional Fund Rounding** check box and informational text associated with the **Fund-level Rounding** drop-down list were removed from the **Fund Settings** section on the **Fund Report Settings** page.

3. The **Edit Value** dialogue used to specify return values for conditional text, footnotes and custom data points was updated to be consistent in presentation and functionality.



- a. The **System Data Point** option button was removed, as it was a redundancy of functionality (*i.e.*, the same result is achieved via the **Data Point** button associated with the existing **Text** option button).

Note:

Upon database update to version 2.5.0, all previously-defined system data point return values will be converted to data points for the **Text** option.

- b. The **Snippet** option button is now available for all conditional values (custom data point, footnote and text libraries).
 - i. When the **Snippet** option is selected, a corresponding **Text Library** drop-down list is enabled.
 - A. Available selections include all text libraries associated with the current complex, listed in ascending order by library name.
 1. When creating a new formula, the default selection is the first library in the listing.
 2. When editing an existing formula, the default selection is the previously-specified library.

- ii. When the **Snippet** option is selected, a corresponding **Text Snippet** drop-down list is enabled.
 - A. Available selections include all snippets associated with the specified text library, listed in ascending order by snippet name.
 - 1. If the formula is being created/edited within a text snippet, the current snippet is excluded from the listing that displays when its associated text library specified in the **Text Library** drop-down list.
 - 2. When the **Text Library** drop-down list selection is changed, the default **Text Snippet** drop-down list selection is the first snippet in the listing associated with the specified library.
 - 3. When editing an existing formula, the default selection is the previously-specified snippet.

Process Changes

Users will now return system data points via the **Data Point** button associated with the **Text** option button, rather than by means of a **System Data Point** option.



[Demonstration video](#)

13. Ability to map supplemental data items to financial statement output settings

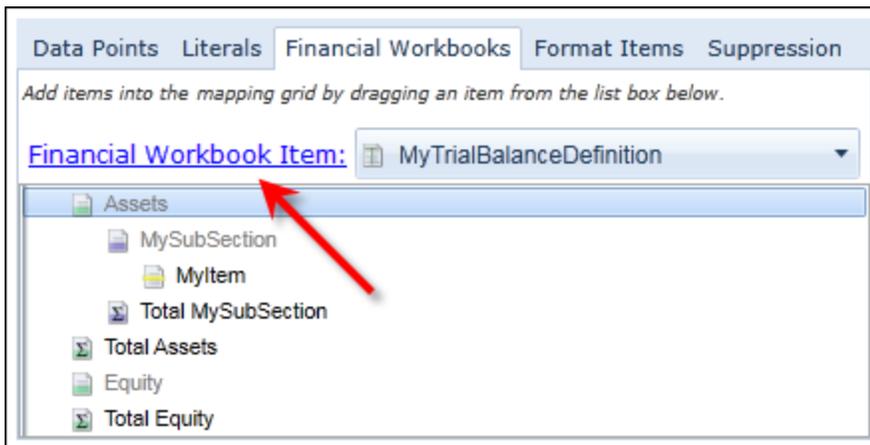
RRD ID: 100972

Overview

Users can now map supplemental data items directly to the statement tree structure on the **Financial Statement Template Output Settings** page. In addition, FundSuiteArc now provides users a means to see the origin of any mapped data point.

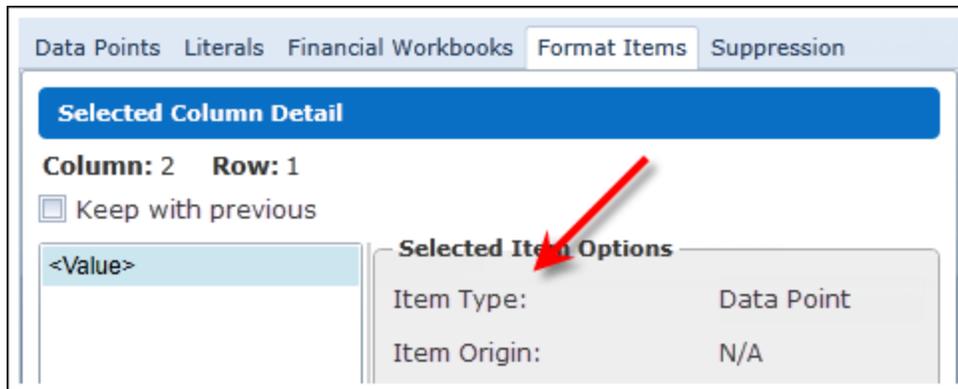
What's New

1. The existing *Trial Balance / Calculation Sheet* drop-down list on the *Financial Workbooks* tab of the **Financial Statement Template Output Settings** page was renamed *Financial Workbook Item*.



- a. The drop-down list label is now a link, which takes the user to the current financial workbook template when clicked.

- b. The drop-down list now contains a selection representing the chart of account associated with the current financial workbook template (in addition to trial balances and calculation sheets).
 - i. This selection displays as *Supplemental Data Chart: <chart name>*.
 - ii. When this selection is specified, the supplemental data item(s) associated with the chart of accounts display(s) in the pane beneath the drop-down list.
 - A. Items are listed in ascending order by supplemental data name.
 - B. Both the name and **Level** designation of each supplemental data item are displayed, and will be displayed when dropped in the mapping grid, in *<supplemental data item name><space><"Level" value>* format.
2. **Item Type** and **Item Origin** values are now displayed at the top of the **Selected Item Options** section at right of the **Format Items** tab on the **Financial Statement Template Output Settings** page.



- a. The **Item Type** value is one of the following, and reflects the type of the item currently selected in the left pane:
 - i. Item (any type) mapped from **Data Points** tab: *Data Point*
 - ii. Item mapped from **Literals** tab: *Literal*
 - iii. Custom tag: *Custom Tag*
 - iv. Trial balance item mapped from **Financial Workbooks** tab: *Trial Balance Item*
 - v. Supplemental data item mapped from **Financial Workbooks** tab: *Supplemental Data Item*
 - vi. Calculation sheet item mapped from **Financial Workbooks** tab: *Calculation Sheet Item*

- b. The **Item Origin** value is one of the following, and reflects the origin, if any, of the item currently selected in the left pane:
- i. Item (any type) mapped from **Data Points** tab: *N/A*
 - ii. Item mapped from **Literals** tab: *N/A*
 - iii. Custom tag: *N/A*
 - iv. Trial balance item mapped from **Financial Workbooks** tab: *<name of the trial balance definition with which the item is associated>*
 - v. Supplemental data item mapped from **Financial Workbooks** tab: *<name of the chart of accounts with which the item is associated>*
 - vi. Calculation sheet item mapped from **Financial Workbooks** tab: *<name of the calculation sheet with which the item is associated>*

Additional Information

Financial items mapped from a financial workbook template will have no effect on zero suppression.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

14. Ability to set average exchange rates

RRD ID: 100973

Overview

The ability to add *Average* exchange rates for use within financial statement horizontal total calculations was added to ArcReporting. In addition, layout and functionality of the **Exchange Rates** page was revamped to support increased usability and performance.

What's New

1. The layout of the **Exchange Rates** page was changed from that seen in previous versions of ArcReporting.
 - a. An *Add item to grid* button was added at lower-left of the grid to allow the user to add *From Currency, To Currency* and *Exchange Rate* values to the grid via a new **Add/Edit Exchange Rate** pop-up dialogue.
 - b. An *Edit selected record* button was added at lower-left of grid, which allows the user to edit any existing exchange rate entries.
 - c. A *Remove item from grid* button was added at lower-left of grid, which allows the user to remove any existing exchange rate entries.
 - d. A *Type* drop-down list was added to the *Search Criteria* section of the page, which allows the user to filter exchange rates displayed in the grid by *Closed/Open* or *Average* exchange rate types.
 - i. Values of type *Closed/Open* will be used to calculate any horizontal total calculation sheet items with a *Horizontal Total Exchange Rate* type of *Closed* or *Open*.

Note:

Upon database update to version 2.5.0, previously-entered exchange rates will be automatically be set to the *Closed/Open* type.

- ii. Values of type *Average* will be used to calculate any horizontal total calculation sheet items with a *Horizontal Total Exchange Rate* type of *Average*, when the *Use user-defined Average exchange rates for calculations* check box is selected for a given financial workbook template; the system-calculated average will be ignored.

iii. An informational text icon was added next to the **Type** drop-down list.

A. The following tool tip text displays when a user hovers over the icon:

When the 'Use user-defined Average exchange rates for calculations' check box is selected via the 'Horizontal Totaling' tab of the Financial Workbook Templates page, values entered into the grid for 'Average'-type rates will be used to calculate horizontal totals. The system-calculated average (sum of all rates / number of days with a rate) will be ignored.

Note:

The **Export data** and **Import data** buttons are disabled if **Average** is the specified **Type** selection when the **Search** button is clicked.

e. The existing **Sample Conversion** section was moved to lower-right of the page.

2. A **Use user-defined Average exchange rates for calculations** check box was added to the **Horizontal Totaling** tab of the **Financial Workbook Templates** page.

a. By default this check box option will be cleared.

b. When the check box is selected, this option will utilize **Average**-type exchange rates entered within the grid of the **Exchange Rates** page; the internal application logic that calculates the Average exchange rate will be ignored.

c. An informational text icon was added next to the **Use user-defined Average exchange rates for calculations** check box.

i. The following tool tip text displays when a user hovers over the icon:

When the 'Use user-defined Average exchange rates for calculations' check box is selected via the 'Horizontal Totaling' tab of the Financial Workbook Templates page, values entered into the grid for 'Average'-type rates will be used to calculate horizontal totals. The system-calculated average (sum of all rates / number of days with a rate) will be ignored.

3. An **Exchange Rates** link was added to the **Horizontal Totals** tab of the **Financial Workbook** page, which when clicked provides the user with the following information on the **Exchange Rates Detail** dialogue that displays:
 - a. **Fund(s) Using Fund-level Exchange Rates Override** label
 - i. Displays a comma-delimited list of funds that are utilizing the new **Exchange Rates Override** feature. See the **Ability to specify fund-level exchange rate overrides for horizontal totaling** section of this document for more information.
 - b. **Fund Report Settings** link
 - i. Clicking the link takes the user to the **Fund Report Settings** page.
 - c. The **From** and **To** columns in the grid on the dialogue display the **From** and **To** currency values represented within the calculation with corresponding calculated values for **Open**, **Closed**, **Average (calculated)** (which represents the internal FundSuiteArc calculation for Average) and **Average (user-defined)** (which represents the manually-entered Average type values via the **Exchange Rates** page).
4. An informational text icon was added next to the **Exchange Rates** link on the **Horizontal Totals** tab of the **Financial Workbook** page.
 - a. The following tool tip text displays when a user hovers over the icon:

When the 'Use user-defined Average exchange rates for calculations' check box is selected via the 'Horizontal Totaling' tab of the Financial Workbook Templates page, values entered into the grid for 'Average'-type rates will be used to calculate horizontal totals. The system-calculated average (sum of all rates / number of days with a rate) will be ignored.

Additional Information

In order to view recalculated horizontal total values following the implementation of the horizontal totaling enhancements enumerated above, users must recalculate all funds used within a given financial statement, or alternatively preview the statement to prompt the recalculation.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

15. Ability to specify fund-level exchange rate overrides for horizontal totaling

RRD ID: 100974

Overview

Users can now specify exchange rate overrides at the fund level, allowing greater flexibility when determining exchange rate values.

What's New

1. An **Exchange Rates Override** check box option is now available on the **Fund Report Settings** page.
 - a. When the check box is selected, the user can specify an **Exchange Rate Source**, **Exchange Rate Time** and **Exchange Rate Time Zone** via corresponding fields that display on the page.

Note:

All three values must be specified.

- b. When the check box is selected, the exchange rates that correspond to the specified settings will be used to source horizontal calculation values, rather than the settings defined within the financial workbook template.
2. A **Fund(s) Using Fund-level Exchange Rates Override** label on the new **Exchange Rate Detail** dialogue (invoked via the **Horizontal Totals** tab of the **Financial Workbook** page) displays a comma-delimited list of codes for funds having the **Exchange Rates Override** settings specified, to inform users as to which funds are utilizing the functionality.
 3. Logic on the **Horizontal Totals** tab of the **Financial Workbook** page was enhanced to use the **Exchange Rates Override** settings, if specified/enabled, in horizontal total calculations for a given fund.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

16. Ability to map specific aggregation criteria fields to portfolio statement template output settings

RRD ID: 101383

Overview

In previous versions of ArcReporting, certain fields could be added to the **Aggregate** tab of the **Portfolio Statement Templates** page for any given template, however in some cases were not available for mapping via the **Portfolio Statement Template Output Settings** page for project preview and output purposes. These fields are now available for mapping in a template's output settings.

What's New

The following fields are now available for mapping to *Aggregated Securities* line types via the **Data Points** tab on the **Portfolio Statement Template Output Settings** page:

- *144A*
- *Class*
- *Counterparty*
- *Fair Value Level*
- *Fair Value Type*
- *Fair Valued*
- *In Default*
- *On Loan*
- *Pay Type*
- *Perpetual*
- *Receive Type*
- *Security Rating*
- *Series*
- *Step-up Bond*
- *Strips*

Additional Information

Please note that, per the existing process, any field added to the output settings mapping grid for an *Aggregated Securities* node must also be added to the *Aggregate* tab of the **Portfolio Statement Templates** page.

Process Changes

No changes to current processes are required.

17. Statement output rule available to facilitate disclosure of top 20 purchases and sales

RRD ID: 101699

Overview

A portfolio statement output rule is now available to clients to facilitate the disclosure of "Top 20 Purchases and Sales", in support of UCITS regulation changes.

What's New

A new portfolio statement rule was provided that allows users to filter the securities that display in statement output according to a series of defined parameter values. The parameter values are applied at a global level by default (*i.e.*, to all statements for a given complex), but each can be overridden on statement-by-statement basis, as required.

The rule parameters allow users to:

1. Specify the field of securities to sum/total (*e.g.*, *Proceeds* or *Purchase Cost*).
2. Designate the percentage of the sum/total, as defined in the point above, to which securities should be greater or equal (*e.g.*, *1%*).
3. Specify the minimum number of securities to be shown in statement output (*e.g.*, *20* records/securities).
4. Optionally indicate the maximum number of securities to be shown in statement output (*e.g.*, *25*).

Additional Information

- All settings defined for a given security type via the **Portfolio Statement Template Output Settings** page (*i.e.*, number of columns, mapped data points, etc.) are respected when employing the output rule.
- To utilize the new output rule, users are advised to contact their local RR Donnelley representative and have the rule deployed to their database.

Process Changes

No changes to current processes are required.

18. Ability to specify custom column names for "Multiple Columns" calculation sheets

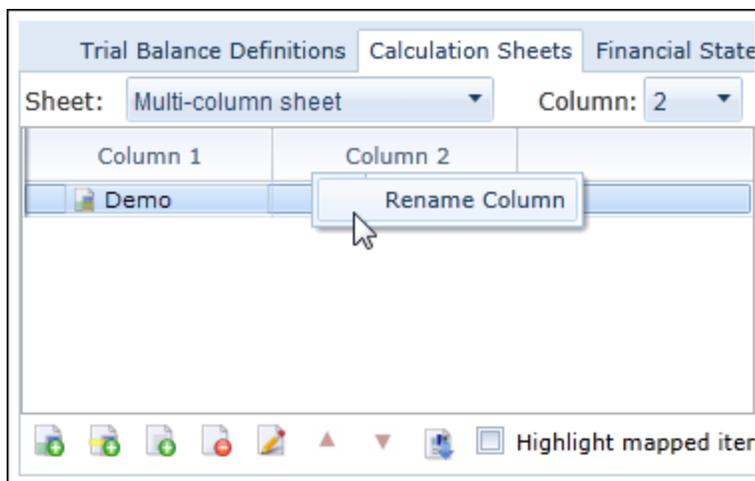
RRD IDs: 102413, 102427

Overview

Users can now specify custom column names for calculation sheets of type *Multiple Columns*.

What's New

1. A *Rename Column* right-click context menu item was added to the *Calculation Sheets* tab of the **Financial Workbook Templates** page, for column headers in calculation sheets of type *Multiple Columns*.

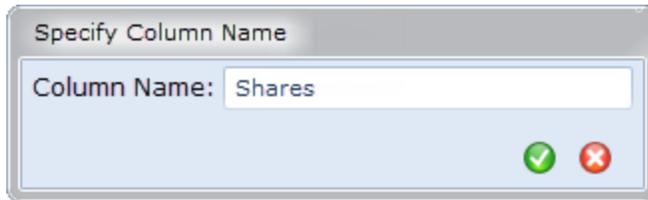


Note:

The new *Rename Multi-column Calculation Sheet Columns* user right (a child of the existing *Open Financial Workbook Templates Page* right must be assigned in order for a user to specify a custom column name; if a user does not have this right, the right-click option is disabled.

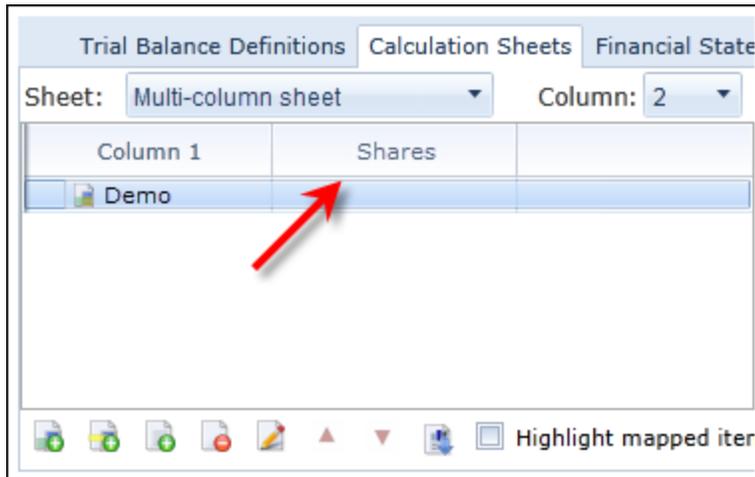
- a. The option exists when right-clicking *Column 1*, and users can rename columns 2-10 by selecting the corresponding column number in the *Column* drop-down list.

- b. When the user selects the option, a **Specify Column Name** dialogue is displayed.

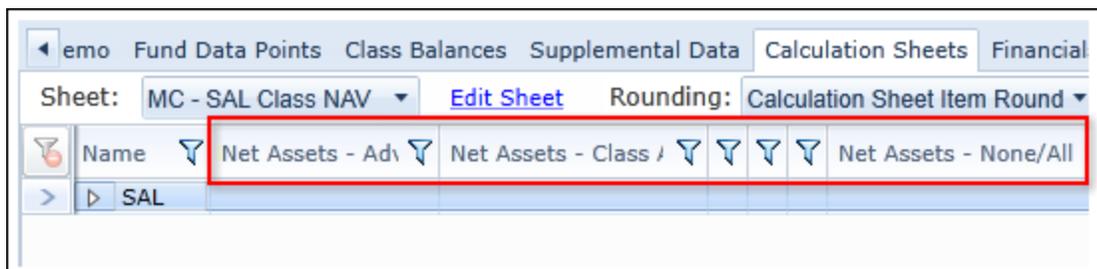


- i. Users can enter letters, numbers and special characters in the **Column Name** text box on the dialogue.
- A. The custom column name is limited to 30-characters.
 - B. Not all special characters are supported.
 - 1. If the **Column Name** value specified by the user contains one or more invalid characters, a pop-up message displays to indicate as much, preventing the **Specify Column Name** dialogue from closing.
 - C. The **Column Name** string must be unique among columns in the current calculation sheet.
 - 1. If the **Column Name** value specified by the user is not unique among columns in the current calculation sheet, a pop-up message displays to indicate as much, preventing the **Specify Column Name** dialogue from closing.
 - D. If the **Column Name** value specified by the user is **Column Total** (a value reserved for system use), a pop-up message displays to indicate as much, preventing the **Specify Column Name** dialogue from closing.

- c. Once the user provides a name and clicks the **Accept** button on the dialogue, the specified name will display as the column header text on the **Calculation Sheets** tab.



- d. If the user wishes to return to the default column name (i.e., *Column 1*, *Column 2*, etc.), he/she must right-click the column header and remove the custom name from the **Column Name** text box on the **Specify Column Name** dialogue, leaving the text box blank. Upon clicking the **Accept** button on the dialogue, the column header will display the default text.
2. Column headers in the grid on the **Calculation Sheets** tab of the **Financial Workbook** page now display the column number or user-defined name (as applicable) from the associated financial workbook template, for sheets of type *Multiple Columns*.
- a. The column name is applied to each class column, if applicable, and the **None/All** column.



3. The following exports and audit reports were enhanced to capture the custom column name functionality:
 - a. Calculation Sheet Account Mapping Audit Report
 - b. Calculation Sheet Template Audit Report
 - c. Financial Workbook Consolidation Report
 - d. Financial Workbook Export

Additional Information

- Custom column name functionality is only available on the **Calculation Sheets** tabs of the **Financial Workbook** and **Financial Workbook Templates** pages.
- Custom column names cannot be used if a **Multiple Columns** calculation sheet is linked to a financial statement template.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

19. Ability to filter "Classes Down" calculation sheets by class via Financial Workbook page

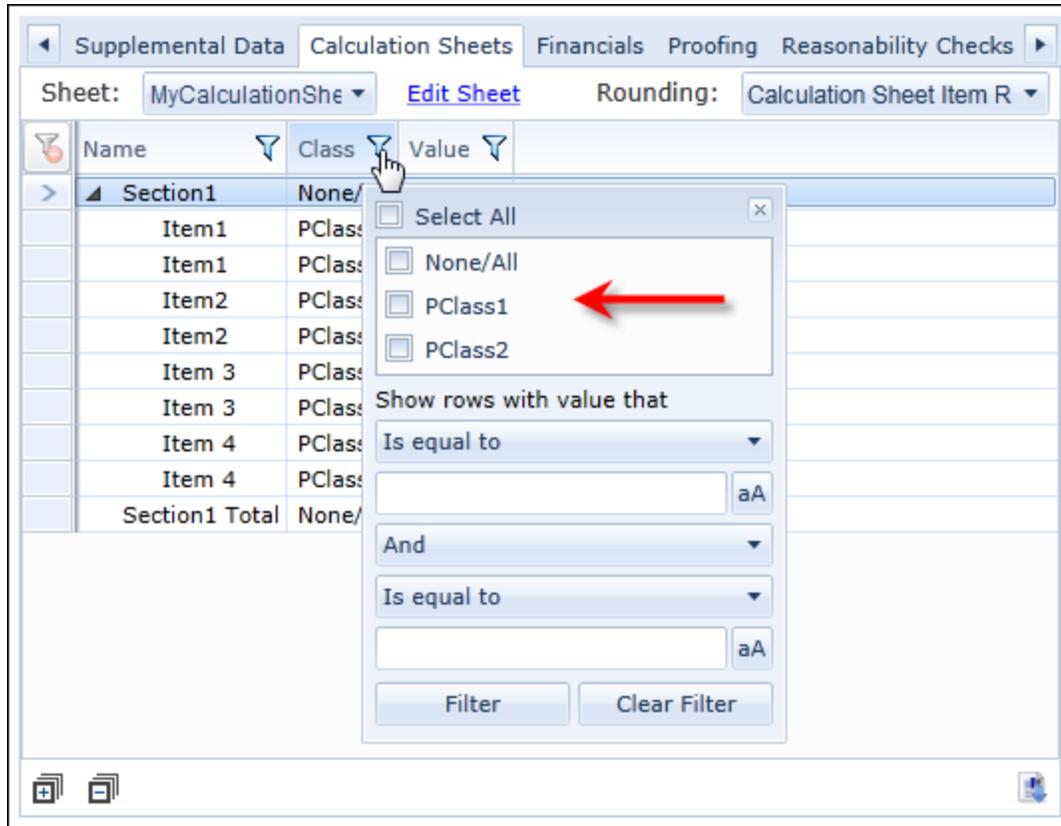
RRD ID: 102415

Overview

Users can now filter line items for a *Classes Down* calculation sheet by class via the **Class** column header filter on the **Calculation Sheets** tab of the **Financial Workbook** page.

What's New

The column header filter controls on the **Calculation Sheets** tab of the **Financial Workbook** page now display distinct values for both parent and child rows in hierarchical grids (e.g., for calculation sheets of type *Classes Down*), allowing for multi-level data filtering.



Process Changes

No changes to current processes are required.

 [Demonstration video](#)

20. Drag-and-drop mapping for multi-column calculation sheets

RRD ID: 102416

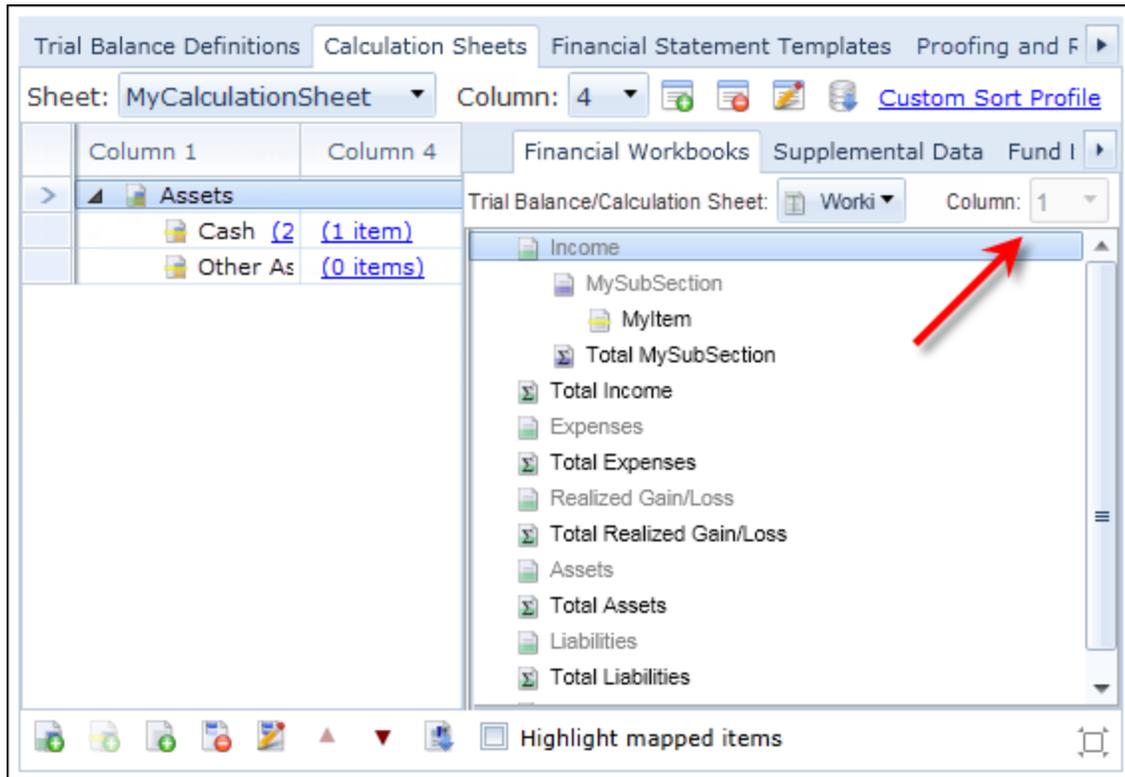
Overview

Users now have the ability to drill down to specific columns when mapping to multiple-column calculation sheets using drag-and-drop functionality on the **Financial Workbook Templates** page.

What's New

1. The existing *Trial Balance/Calculation Sheet* drop-down list on the *Financial Workbooks* sub-tab of the **Financial Workbook Templates** page now displays **all** calculation sheets of type *Multiple Columns* (not just the currently-selected one) when a calculation sheet of type *Multiple Columns* is specified in the *Sheet* drop-down list. Calculation sheets of type *Multiple Columns* are also now displayed in the drop-down list when a sheet of type *Classes Across*, *Classes Down* or *N-SAR* is specified in the *Sheet* drop-down list.

2. A **Column** drop-down list was added to the **Financial Workbooks** sub-tab of the **Financial Workbook Templates** page, at right of the existing **Trial Balance/Calculation Sheet** drop-down list.



- a. The drop-down list is enabled only when a calculation sheet of type **Multiple Columns** is specified in the **Trial Balance/Calculation Sheet** drop-down list (it is disabled when any other type of calculation sheet or a trial balance is specified).
- b. Available selections for calculation sheets of type **Multiple Columns** are from **1** to **n**, based upon the value specified in the **Number of Columns** spinner for the currently-selected calculation sheet.
 - i. If the **Display total column** check box is selected for the currently-selected sheet, the maximum value displayed in the drop-down list will be **9**.
 - ii. When the **Financial Workbooks** sub-tab is clicked/opened, or when the **Trial Balance/Calculation Sheet** drop-down list selection is changed by the user, the default **Column** selection is **1**.

- c. The specified **Column** value is only relevant when mapping items to an existing calculation sheet item formula; not when copying an entire item to a calculation sheet section.
- i. The **Column** drop-down list specification determines which column's formula definition is mapped to an item formula in the target calculation sheet.
 - ii. The **Column** drop-down list specification has no bearing on which columns' formula definitions are copied to a section in the target calculation sheet; the number of available columns in the target calculation sheet determines how many/which columns can be copied.

Examples:

- Target sheet is of type *Multiple Columns* and has 3 columns; source sheet is of type *Multiple Columns* and has 4 columns.
 - Only columns 1, 2 and 3 of the source sheet are copied to the respective columns in the target sheet.
- Target sheet is of type *Multiple Columns* and has 3 columns; source sheet is of type *Multiple Columns* and has 2 columns.
 - Columns 1 and 2 of the source sheet are copied to the respective columns in the target sheet; column 3 of the target sheet contains no formula definition.
- Target sheet is of type *Multiple Columns* and has 3 columns; source sheet is of type *Classes Across* (or any other single-column type) and has 1 column.
 - Column 1 of the source sheet is copied to the respective column in the target sheet; columns 2 and 3 of the target sheet contain no formula definition.
- Target sheet is of type *Multiple Columns* and has 3 columns; source sheet is of type *Multiple Columns* and has 3 columns.
 - Columns 1, 2 and 3 of the source sheet are copied to the respective columns in the target sheet.
- Target sheet is of type *Classes Across* (or any other single-column type) and has 1 column; source sheet is of type *Multiple Columns* and has 2 columns.
 - Only column 1 of the source sheet is copied to the respective column in the target sheet.

- Target sheet is of type *Classes Across* (or any other single-column type) and has 1 column; source sheet is of type *Classes Across* (or any other single-column type) and has 1 column.
 - Column 1 of the source sheet is copied to the respective column in the target sheet.

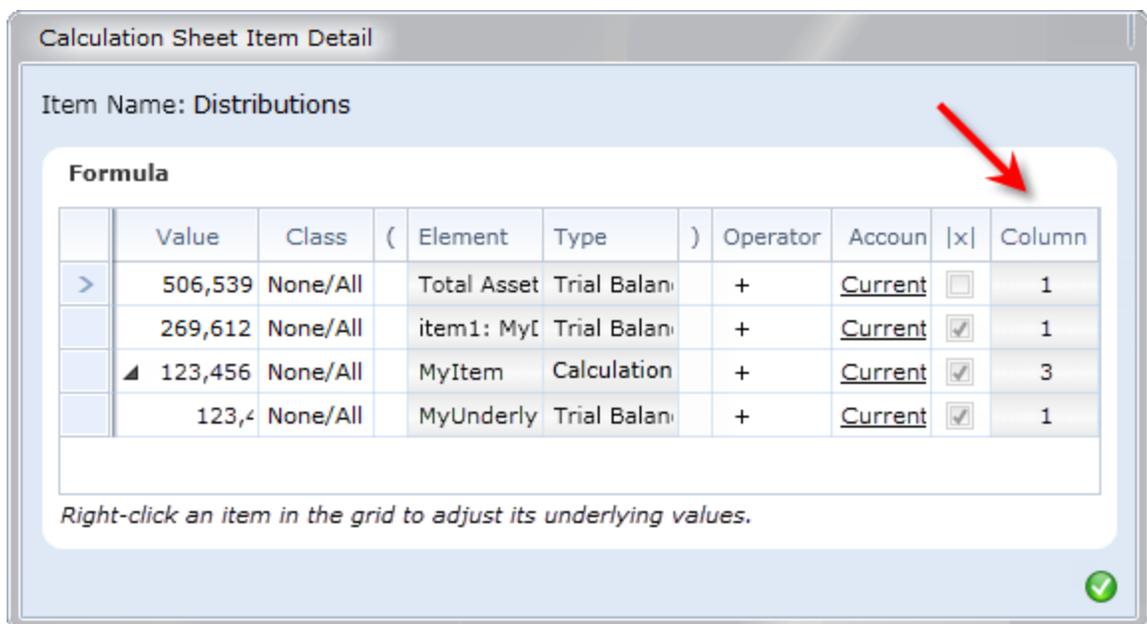
3. A **Column** column was added to the **Formula** grid on the **Add/Edit Calculation Sheet Item** dialogue (invoked via the **Calculation Sheets** tab of the **Financial Workbook Templates** page), for items of a type other than *Conditional Value*.

Formula		Trial Balance Value Type: Footed							
	(Element	Type)	Operator	Account Period Cycle	Const	x	Column
>		Total Assets: M	Trial Balan		+	Current Account Period		<input type="checkbox"/>	1
		item1: MyDefini	Trial Balan		+	Current Account Period		<input checked="" type="checkbox"/>	1

- a. Cells in the column are read-only.
 - b. For calculation sheet items of type *Financial Workbook*:
 - i. For rows in the grid that represent calculation sheet items, the column displays a value from **1** to **10**, which represents the column number whose numeric value that is considered in the formula's calculation.
 - A. If the mapped item is from a calculation sheet of type *Multiple Columns*, the column displays the **Column** value specified when the item was mapped.
 - B. If the mapped item is from a calculation sheet not of type *Multiple Columns* (i.e., *Classes Across* or *Classes Down*), the column always displays **1** (since sheets of these types only have one column).
 - ii. For rows in the grid that do not represent calculation sheet items, the column is always blank.
 - c. For calculation sheet items **not** of type *Financial Workbook* (i.e., *Holdings* or *Portfolio Statement Definition*), the column is always blank.
4. Logic associated with the **Highlight mapped items** check box option on the **Calculation Sheets** tab of the **Financial Workbook Templates** page now considers the specified **Column** drop-down list value as regards

mapped items on the **Financial Workbooks** sub-tab (*i.e.*, if the formula definition associated with Column 2 is mapped, the calculation sheet item will only be highlighted if 2 is the specified **Column** drop-down list value).

5. Calculation sheet, import, export and copy functionality was updated to retain column number information, where applicable.
6. A **Column** column was added to the **Formula** grid on the **Calculation Sheet Item Detail** dialogue (invoked via the **Calculation Sheets** tab of the **Financial Workbook** page).



- a. Cells in the column are read-only.
- b. For calculation sheet items of type **Financial Workbook**, and for rows in the grid that represent calculation sheet items, the column displays a value from 1 to 10, which represents the column number whose numeric value that is considered in the formula's calculation. The value displayed is based on the **Column** value specified when the item was mapped via the **Calculation Sheets** tab of the **Financial Workbook Templates** page.
- c. For calculation sheet items **not** of type **Financial Workbook** (*i.e.*, **Holdings** or **Portfolio Statement Definition**), the column is always blank.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

21. Access to column-specific formulas for multi-column calculation sheets from Financial Workbook page

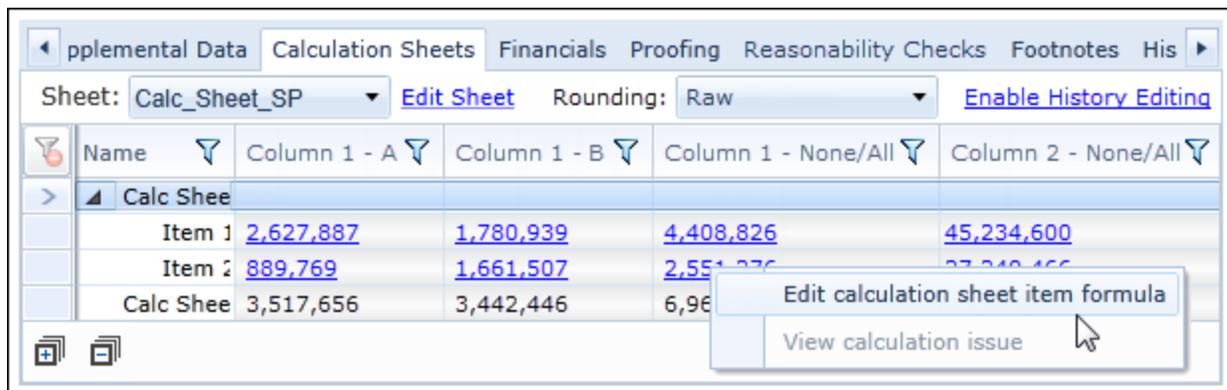
RRD ID: 102425

Overview

Users will now be brought to the appropriate (*i.e.*, column-specific) formula definition when they right-click a value in a multi-column calculation sheet on the **Calculation Sheets** tab of the **Financial Workbook** page and select the **Edit calculation sheet item formula** option.

What's New

When users right-click a value in the grid on the **Calculation Sheets** tab of the **Financial Workbook** page and select **Edit calculation sheet item formula** for a calculation sheet of type **Multiple Columns**, the selection of the **Column** drop-down list on the **Edit Calculation Sheet Item** dialogue that displays will correspond with the grid column in which the user right-clicked to invoke it (e.g., if the user right-clicked a value in **Column 2**, the **Column** drop-down selection on the dialogue will be **2**).



Name	Column 1 - A	Column 1 - B	Column 1 - None/All	Column 2 - None/All
Item 1	2,627,887	1,780,939	4,408,826	45,234,600
Item 2	889,769	1,661,507	2,551,276	27,240,455
Calc Shee	3,517,656	3,442,446	6,960,102	72,475,055

1. If a given calculation sheet is repeating by class, the drop-down list selection on the **Edit Calculation Sheet Item** dialogue will reflect the column on which the class is repeating.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

22. User right to allow for view-only access of Fund Holdings page

RRD ID: 102848

Overview

User rights governing access to the **Fund Holdings** page were made more granular in nature, allowing FundSuiteArc administrators to grant certain users the ability to add/edit/delete holdings information, while limiting most users to the ability to simply open and view the page.

What's New

1. The existing *Open Fund Holdings Page (ArcReporting)* user right now restricts page access to view-only. Prior to version 2.5.0, this right allowed full access to all available functionality on the **Fund Holdings** page.
2. An *Add/Edit/Delete Fund Holdings* user right was added as a child right to the existing *Open Fund Holdings page (ArcReporting)* user right.
 - a. Users assigned this right will have full edit access to the **Fund Holdings** page and its associated task options.

Note:

Upon database update to version 2.5.0, users assigned the existing *Open Fund Holdings Page (ArcReporting)* user right will automatically be assigned the *Add/Edit/Delete Fund Holdings* right, to maintain their current level of access to functionality on the **Fund Holdings** page. Access can be edited as needed for new or existing users following the update.

Process Changes

No changes to current processes are required.



[Demonstration video](#)

23. Enhancements to Project page "Edit Mode" tables and exports

RRD ID: 103093

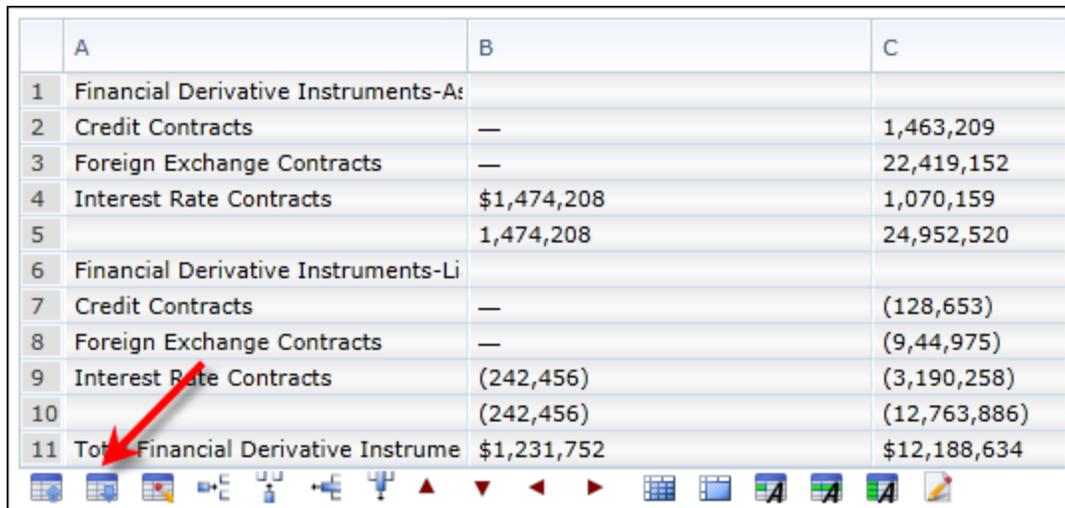
Overview

Several enhancements were made to functionality on the **Project** page for the "Edit Mode" of unlinked tabular data components, portfolio statements and financial statements. These enhancements improve users' ability to edit unlinked tables and to export, make changes and re-import a given table without having to re-format or re-style it.

What's New

1. An **Export table preview with number formats** button (📄) was to the **Components** tab of the **Project** page, when in "Edit Mode" for unlinked financial and portfolio statements or tabular data components.

	A	B	C
1	Financial Derivative Instruments-A:		
2	Credit Contracts	—	1,463,209
3	Foreign Exchange Contracts	—	22,419,152
4	Interest Rate Contracts	\$1,474,208	1,070,159
5		1,474,208	24,952,520
6	Financial Derivative Instruments-Li		
7	Credit Contracts	—	(128,653)
8	Foreign Exchange Contracts	—	(9,44,975)
9	Interest Rate Contracts	(242,456)	(3,190,258)
10		(242,456)	(12,763,886)
11	Total Financial Derivative Instrume	\$1,231,752	\$12,188,634



- a. Clicking the button prompts the user to confirm they wish to submit a request to the Output Queue for an Excel (XLS) file containing the information and number formats contained in the current table.
 - i. Clicking the **Yes** button on the dialogue submits the request to the Output Queue.

- b. The exported file will display all numeric values in the same format displayed in the "Edit Mode" preview on the **Project** page (*i.e.*, comma separation, currency symbols, decimal places, negative and zero display, etc.).

Note:

To maintain displayed number formats, numeric values in the table are converted to *Text* format in the generated Excel file.

	A	B	C
1	Financial Derivative Instruments-Assets††		
2	Credit Contracts	—	1,463,209
3	Foreign Exchange Contracts	—	22,419,152
4	Interest Rate Contracts	\$1,474,208	1,070,159
5		1,474,208	24,952,520
6	Financial Derivative Instruments-Liabilities††		
7	Credit Contracts	—	(128,653)
8	Foreign Exchange Contracts	—	(9,44,975)
9	Interest Rate Contracts	(242,456)	(3,190,258)
10		(242,456)	(12,763,886)
11	Total Financial Derivative Instruments	\$1,231,752	\$12,188,634

2. A series of grid editing buttons were added to the **Components** tab of the **Project** page, when in "Edit Mode" for unlinked financial and portfolio statements.
 - a.  **Insert column at left**
 - i. To insert a column, click anywhere in the column to the right of which the new column is to be added, and then click the button.
 - b.  **Remove column**
 - i. To remove a column, click any cell therein, and then click the button.

- c.  **Insert row above**
 - i. To insert a row, click anywhere in the row under which the new row is to be added, and then click the button.
 - d.  **Remove row**
 - i. To remove a row, click any cell therein, and then click the button.
3. All cell style settings are now maintained when importing an Excel file into an unlinked table (portfolio, financial or tabular data) via the **Component Data Import** dialogue.

Process Changes

No changes to current processes are required.

24. Paragraph Styles library

RRD ID: 109590

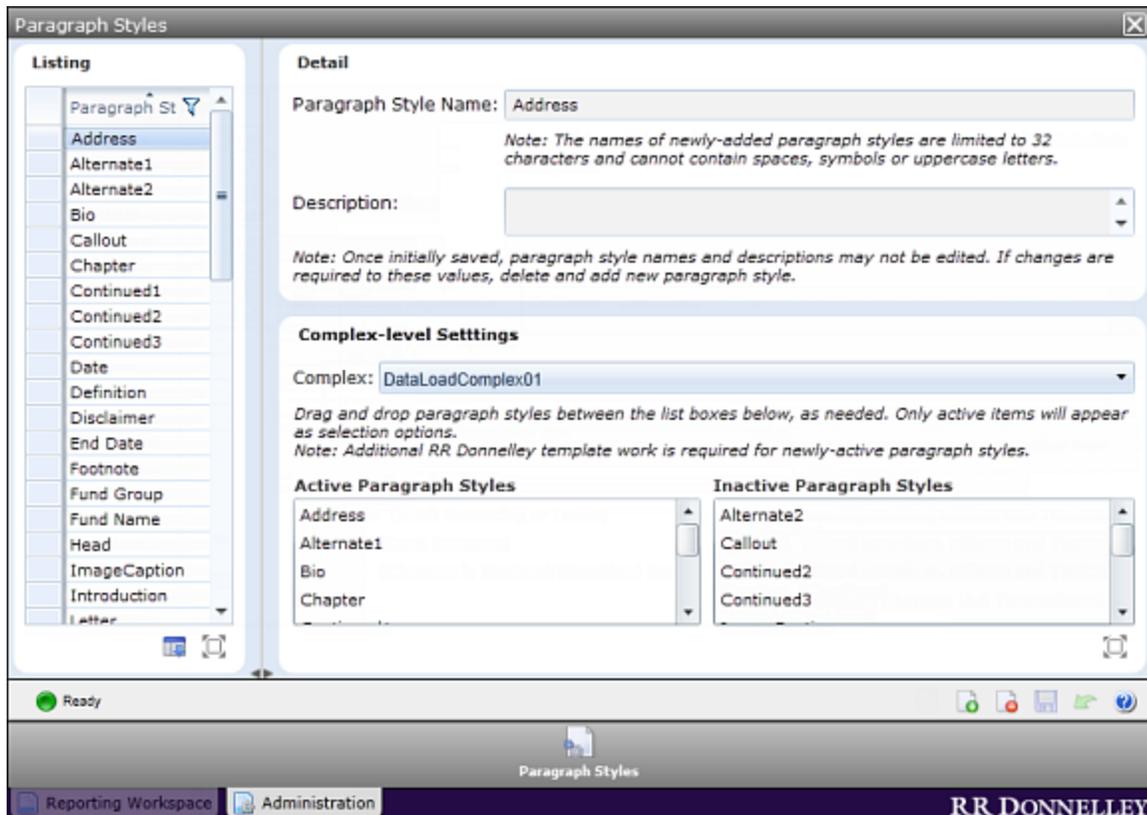
Overview

Users are now able to maintain a library of paragraph styles for use in project content, and designate which styles are "active" or "inactive" for a given complex. Only styles flagged as "active" will be available for selection the **Paragraph Style** drop-down list when applying styles to content via ArcReporting's text and footnote libraries.

What's New

1. Two new user rights were added to the **Roles** page in the **Platform Administration** area.
 - a. *Open Paragraph Styles Page*
 - i. A user assigned this right can open the new **Paragraph Styles** page (described below), but not make any changes to settings thereon.
 - b. *Add/Edit/Delete Paragraph Styles*
 - i. A user assigned this right can add, edit and delete records on the new **Paragraph Styles** page (described below).

2. A *Paragraph Styles* item was added under the **Libraries** menu section on the *Administration* tab of the ArcReporting product. When the *Paragraph Styles* menu item is clicked, the new **Paragraph Styles** page displays.



- a. The left side of the page displays an alphabetical listing of all paragraph styles and corresponding descriptions currently available.

Note:

When updating to version 2.5.0, all previously-existing paragraph styles will be migrated to the Paragraph Styles library.

- b. Selecting a paragraph style from the *Listing* grid at left will display its name and description in the *Detail* section at upper-right of the page.

- c. A **Complex-level Settings** section displays at lower-right of the page.
- i. The **Complex** drop-down list contains the names of all complexes to which the current user has access.
 - ii. The **Active Paragraph Styles** list box displays all paragraph styles that are considered "active" for the selected complex, and that will therefore display in the respective **Paragraph Style** drop-down lists of text editors on the **Footnote Libraries - General Ledger**, **Footnote Libraries - Holdings** and **Text Libraries** pages.
 - A. Users can drag-and-drop paragraph styles from the **Inactive Paragraph Styles** list box to the **Active Paragraph Styles** list box to designate them as active for the complex.

Note:

If an already-applied paragraph style is moved from the **Active Paragraph Styles** list box to the **Inactive Paragraph Styles** list box, the style name will continue to display in the **Paragraph Style** drop-down list when the content to which it was applied is selected in the text editor. However, the now inactive style will **not** display as an available selection in the drop-down list if a user attempts to edit the style of that content; the user must choose an active paragraph style.

- iii. The **Inactive Paragraph Styles** list box displays all paragraph styles from the Listing table which are not already considered active for the selected complex (*i.e.*, not already in the **Active Paragraph Styles** list box).

Note:

When updating to version 2.5.0, a script will be provided to the RR Donnelley Support team, which when run will make active only those paragraph styles that are currently applied to content associated with a specified complex.

- d. To add a new paragraph style to the library, a user with appropriate rights clicks the **Add new record** button (📄) at lower-right of the page.
- i. The user specifies a **Paragraph Style Name** and **Description** (optional) in the corresponding fields of the **Details** section, and then clicks the **Save** button (💾) at lower-right of the page.
 - A. The newly-added paragraph style will display in the **Listing** grid at left of the page and in the **Inactive Paragraph Styles** list box, in association with each complex.

Note:

- Paragraph style names are limited to 32 characters and must be lowercase and/or numeric only.
- Paragraph style names are not case-sensitive and must be unique.
- Once added to the listing table, paragraph styles may not be edited. If changes are needed to an existing paragraph style, the style must be deleted and a new style added.

- e. To delete a paragraph style from the library, a user with appropriate rights selects the style to be removed in the *Listing* grid, and then clicks the *Remove current record* button (🗑️) at lower-right of the page.
 - i. Only styles that are inactive for **all** complexes in the current environment may be removed. If the paragraph style is active for one or more complexes, a warning message to that effect will display on attempt to remove it.

Note:

If a deleted paragraph style was previously applied to a given piece of textual content, the style name will continue to display in the left margin of the text editor when that footnote/text snippet is viewed in the corresponding library. However, upon clicking the text to which the now deleted style is applied, the *Paragraph Style* drop-down list will display *Normal* and the deleted style will **not** display as an available selection in the drop-down list.

3. The *Paragraph Style* drop-down list in the following application locations was updated to display an alphabetical list of "active" paragraph styles for the current complex, as defined in the new Paragraph Styles library:
 - a. **Text Libraries** page, *Snippets* tab, text editor control
 - b. **Footnote Libraries - Holdings** page, *Footnotes* tab, text editor control
 - c. **Footnote Libraries - General Ledger** page, *Footnotes* tab, text editor control
 - d. **Project** page, *Components* tab (for a text snippet of type *Ad Hoc*)
 - e. **Project** page, *Components* tab (for an unlinked text snippet)

Process Changes

Prior to this update, the list of paragraph styles was hard-coded and standard across all ArcReporting databases. With this change the paragraph style list may now be customized per database and must be maintained. After database update to version 2.5.0, new paragraph styles or newly-active styles within the library will require updates to the style template (by RR Donnelley personnel) for the output to be appropriately affected.

25. Style guide reference

RRD ID: 109591

Overview

Users can now upload files of type *Style Guide* (PDF, Word, Excel, TXT, etc.) via the **Supporting Files** tab of the **Style Sheets** page. Hyperlinks to the uploaded style guide(s) were also added to various application pages, allowing users to easily reference them, as needed, to better understand how project output can be impacted by leveraging different styles, table types and custom tags.

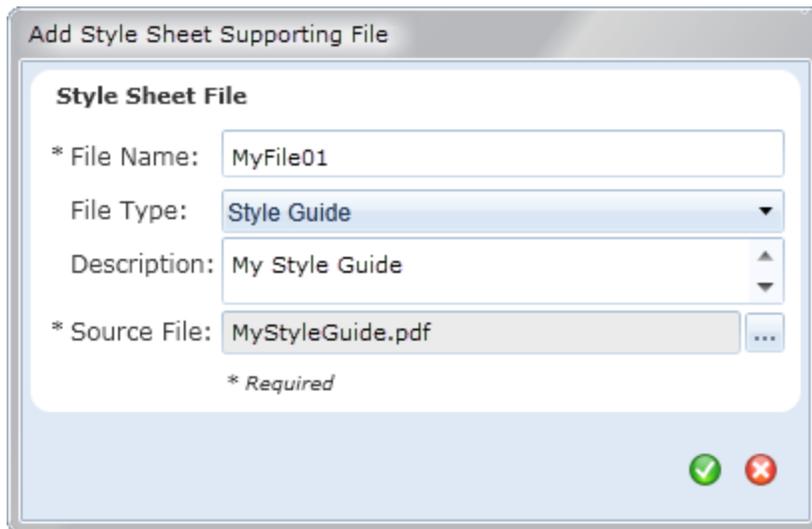
What's New

1. An *Add/Edit/Delete Style Sheets* user right was added as a child to the existing *Open Style Sheets Page* right. This new right governs users' ability to add/edit/delete style sheets and their associated settings via the **Style Sheets** page.

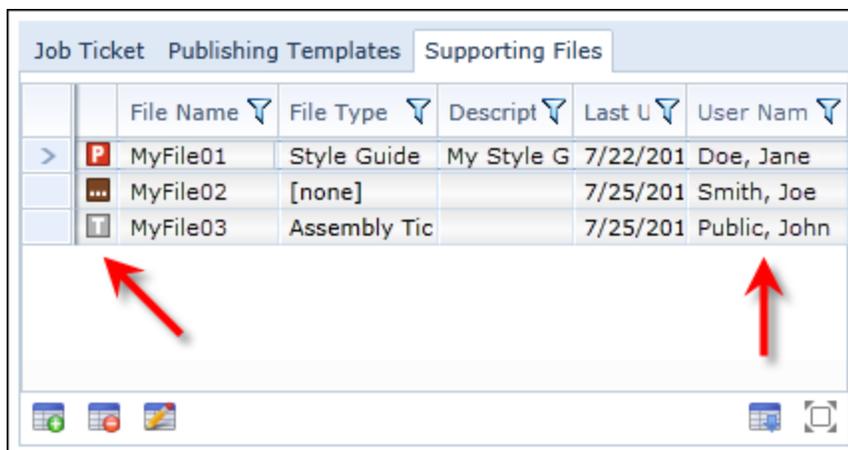
Note:

Upon database update to version 2.5.0, any users already assigned the *Open Style Sheets Page* right will not automatically be assigned the *Add/Edit/Delete Style Sheets* right; FundSuiteArc administrators must assign this right to appropriate application users.

2. A **Style Guide** selection was added to the existing selections in the **File Type** drop-down list on the **Add Style Sheet Supporting File** dialogue (invoked via the **Supporting Files** tab of the **Style Sheets** page).



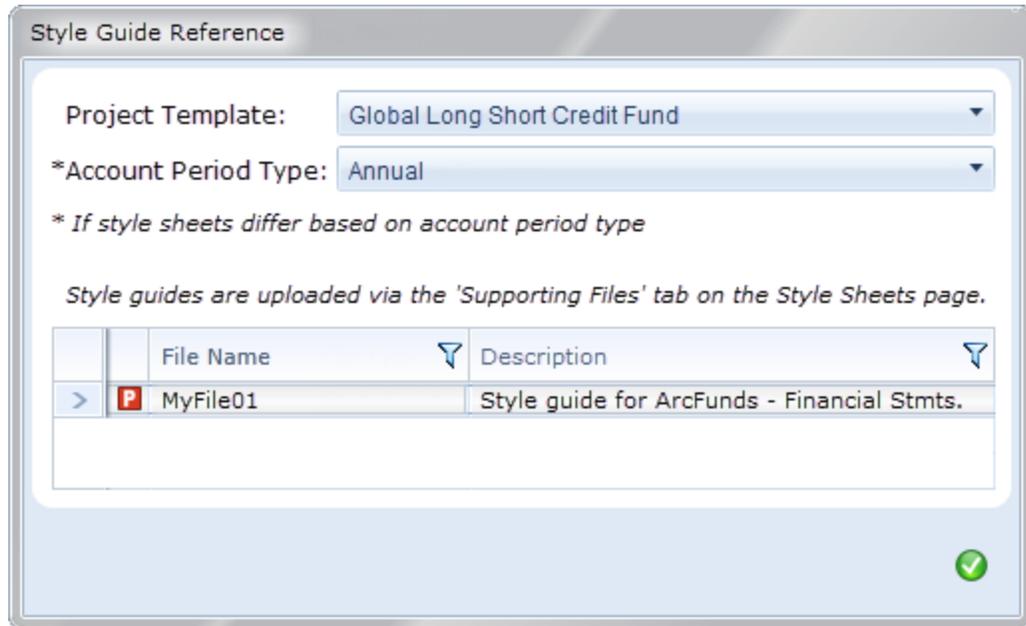
- a. Users can specify a **Source File** of any format (typically PDF, Word, Excel, TXT, etc.), up to 10 Mb in size, that represents a style guide associated with the current complex.
 - b. Multiple files of type **Style Guide** may be uploaded in association with any given complex.
3. Two new columns were added to the grid on the **Supporting Files** tab of the **Style Sheets** page.



	File Name	File Type	Description	Last U	User Nam
>	MyFile01	Style Guide	My Style G	7/22/201	Doe, Jane
	MyFile02	[none]		7/25/201	Smith, Joe
	MyFile03	Assembly Tic		7/25/201	Public, John

- a. **View/Save file**
 - i. Displays an icon representing the type of uploaded supporting file.
 - A.  - PDF document
 - B.  - Word (.doc or .docx) document
 - C.  - Excel (.xls or .xlsx) document
 - D.  - Text (.txt) file
 - E.  - XML file
 - F.  - File of any other file type
 - ii. Users can click the icon to view or download the file to a local or network drive.
 - b. **User Name**
 - i. Displays the name of the user who uploaded the supporting file for the style sheet, in *Last Name, First Name* format.
4. Several application pages were updated to include a **Style Guide** hyperlink, which provides quick access to the style guide(s) associated with a given complex.
- a. The link was added to the following locations:
 - i. **Document Structure Templates** page
 - ii. **Financial Statement Template Output Settings** page
 - iii. **Project** page
 - iv. **Portfolio Statement Template Output Settings** page
 - v. **Shared Legend Template Output Settings** page
 - vi. **Tabular Data Template Output Settings** page
 - vii. **Text Libraries** page

- b. When a user clicks the link, the **Style Guide Reference** pop-up dialogue displays.



Style Guide Reference

Project Template: Global Long Short Credit Fund

*Account Period Type: Annual

* If style sheets differ based on account period type

Style guides are uploaded via the 'Supporting Files' tab on the Style Sheets page.

File Name	Description
MyFile01	Style guide for ArcFunds - Financial Stmtts.

- i. **Project Template** and **Account Period Type** drop-down lists display on the dialogue.
- A. If the **Style Guide** link is clicked via the **Project** page, the initially-selected **Project Template** will be the template with which the current project is associated.
 - B. If the link is clicked via an **Output Settings** or **Templates** page, available **Project Template** drop-down list selections include only those templates in whose project(s) the current template/structure is assigned.
 - C. The **Account Period Type** drop-down list selections include the account period type(s) for which a given style sheet has been assigned by way of the **Output Management** tab of the **Project Templates** page.
 1. If all account period types for the specified project template have the same style sheet assigned, the **Account Period Type** drop-down list is disabled.

- ii. A grid on the dialogue displays the style guide(s) uploaded via the **Style Sheets** page in association with the current complex, for the style sheet that is assigned to the specified *Project Template* and *Account Period Type*.
 - A. Users can click the icon in the leftmost column of the grid to view or download any of the files listed to a local or network drive.

Process Changes

No changes to current processes are required.

26. Unique project identifier available for workflow component

RRD ID: 126960

Overview

The workflow component of FundSuiteArc is now integrated with ArcReporting, which will allow users of other products to generate output for a specific ArcReporting project by referencing an identifier that is unique to that project (known as a "Project Instance ID").

What's New

A read-only **Project Instance ID** field was added to the **Components** tab of the **Project** page, when the project (topmost) node of the project structure is selected. Users can utilize the unique identifier number of a given project to reference it when calling for ArcReporting project output via the FundSuiteArc workflow component.

Process Changes

No changes to current processes are required.

27. Workflow component integration and project renditions

RRD ID: 114912

Overview

As part of the initial steps to introduce the FundSuiteArc workflow component to ArcReporting, a Renditions library and associated functionality were added. Renditions (named publishing options) were integrated with existing project output management functionality, and allow the workflow to make a call to ArcReporting to initiate output. With the introduction of renditions, the **Output Management** tab of the **Project** page was redesigned to be more user-friendly.

What's New

1. Design changes were made to the upper portion of the **Output Management** tab of the **Project** page.

Components Supporting Schedules Supporting Documents Production Procedures **Output Management** Administration

Project: Global Long Short Credit Fund

Output Document Types

PDF Word EDGAR (HTML) Excel

Publish [Select all](#) [Clear all](#)

Output Blackline Types

PDF Blackline (Financial)
 PDF Blackline (Strikethrough)
 PDF Change Pages Blackline Clean
 PDF Change Pages Blackline (Financial)

From revision: 3
To revision: 2

Output Validation Reports

Missing Output Settings Report (Excel)
 Project Output Validation Report (Excel)

Output Options

Include Bannerline (PDF only)
 Hide Bleeds (PDF only)
 Highlight Variable Data Points

- a. The **Output Document Types** section is now surrounded by a border, and each option therein displays one or more associated icons.
- b. The **Output Blackline Types** section is now surrounded by a border, with the **From revision** and **To revision** drop-down lists beneath the check box options.
 - i. This section only displays if the **PDF** check box is selected for the project's template via **Output Management** tab of the **Project Templates** page and a corresponding style sheet is

assigned.

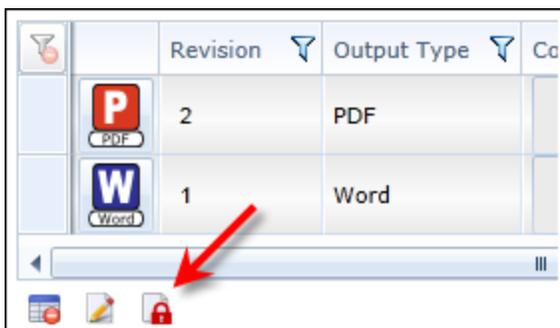
- c. The **Output Validation Reports** section is now surrounded by a border, and is horizontally aligned with the **Output Blackline Types** section.
 - i. If the **PDF** check box is not selected for the project's template via **Output Management** tab of the **Project Templates** page, the **Output Validation Reports** section will shift left within the page.
- d. The **Output Options** section is now surrounded by a border, and is horizontally aligned with the **Output Blackline Types** section.
- e. The **Generate output** button was changed to a **Publish** button, and was moved below the **Output Document Types** section.
- f. The **Select all** and **Clear all** hyperlinks were moved below the **Output Document Types** section.
- g. Functionality on the **Output Management** tab remains the same. The user selects the desired option (s) and clicks the **Publish** button to initiate output.
 - i. If the **EDGAR (HTML)** check box option is displayed and selected, **Source** and **Revision cycle** drop-down lists are displayed within the **Output Document Types** section.

Output Document Types

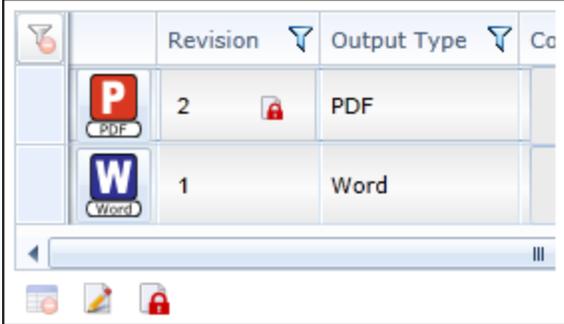
PDF
 Word
 EDGAR (HTML)
 Excel

Source:
 Revision cycle:

- 2. A **Prevent revision deletion** button was added beneath the existing revisions grid.



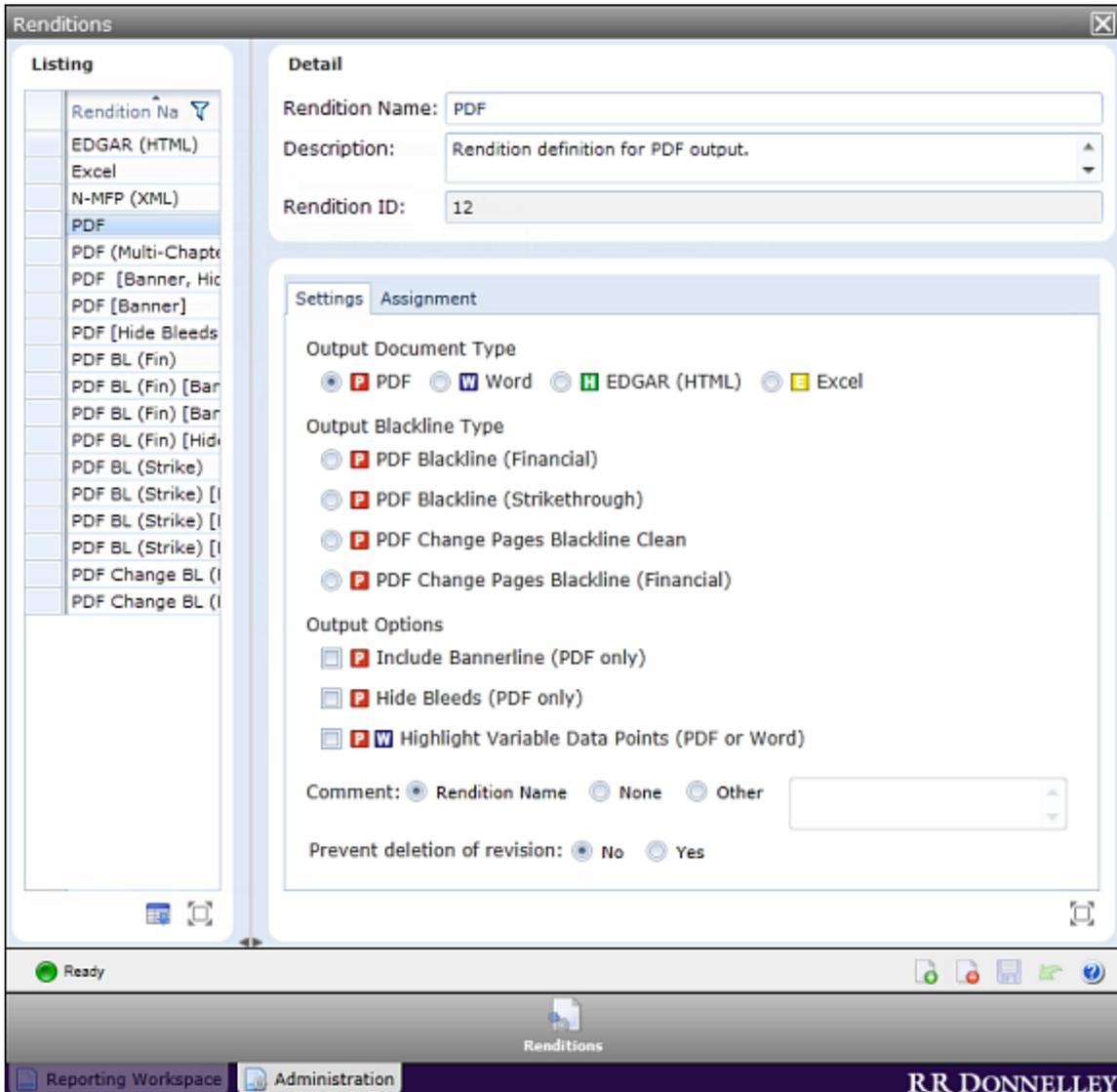
- a. Selecting any given revision row and then clicking the **Prevent revision deletion** button will display a corresponding icon to the right of the revision number for that row.



	Revision	Output Type	Co
	2	 PDF	
	1	Word	

- With the **Prevent revision deletion** behavior applied to a given row, the **Remove item from grid** button will remain disabled when that row is selected, preventing the user from removing that revision.
 - Revisions for which the **Prevent revision deletion** behavior is applied will be ignored (*i.e.*, not removed) when purging of revisions is carried out, per settings on the **System** page.
- b. Selecting any revision row that has the **Prevent revision deletion** behavior applied, and then clicking the button again will remove the icon from the row, re-enabling users' ability to remove the revision.

3. A *Renditions* item was added under the **Libraries** menu section on the *Administration* tab of the ArcReporting product. When the *Renditions* menu item is clicked, the new **Renditions** page displays.



- a. Two new user rights were added in association with this page:
 - i. *Open Renditions Page*
 - A. A user assigned this right can open the **Renditions** page, but cannot make any changes to settings thereon.
 - ii. *Add/Edit/Delete Renditions*
 - A. A user assigned this right can add, edit and delete records on the **Renditions** page.
- b. The left side of the page displays an alphabetical listing of all defined renditions, their corresponding descriptions and unique rendition identification numbers.

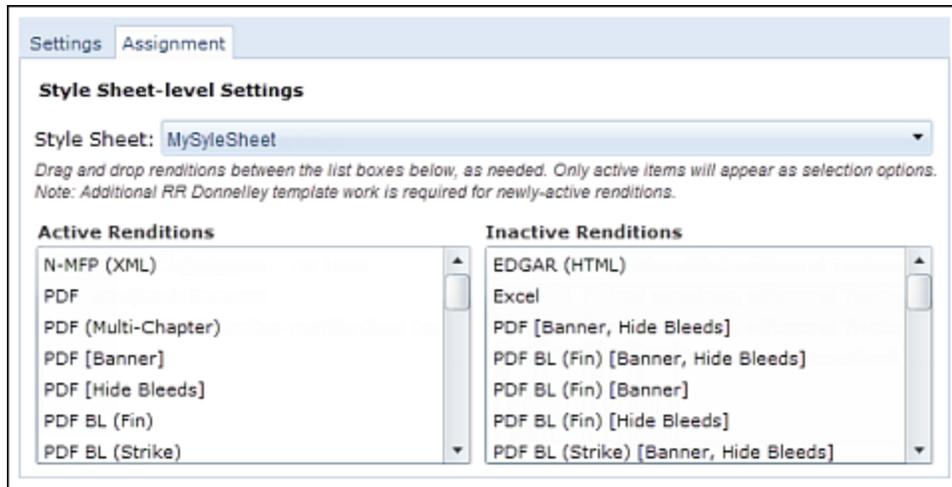
Note:

Following database update to version 2.5.0, this table will be empty.

- c. Selecting any given rendition from the *Listing* grid at left of the page will display its name, description and rendition ID in the *Detail* section at upper-right of the page.
- d. Two tabs are displayed beneath the *Detail* section:
 - i. *Settings* (initial selection when the page is opened)
 - A. All possible output options are displayed on the tab, with corresponding radio buttons/check boxes.
 - B. A *Comment* section is displayed beneath the output, in which the user can specify that the comment associated with the rendition's output be either the rendition's name, no comment, or some other specified text. If a comment is added as part of a rendition, the term (*Rendition*) will also display after the comment.
 - C. A *Prevent deletion of revision* option button set is displayed at the bottom of the tab, with which the user can turn the *Prevent revision deletion* behavior on by default for any output generated using the rendition definition.
 - 1. If the *Yes* option is selected, the *Prevent revision deletion* icon will be displayed next to the revision number of a successfully-published rendition in the revision grid of the *Output Management* tab on the **Project** page, and thus the *Remove item from grid* button will be disabled when that revision is selected within the grid.

2. If the *No* option is selected (default), users with appropriate rights will not be prevented from removing a successfully-published rendition, if they so desire.

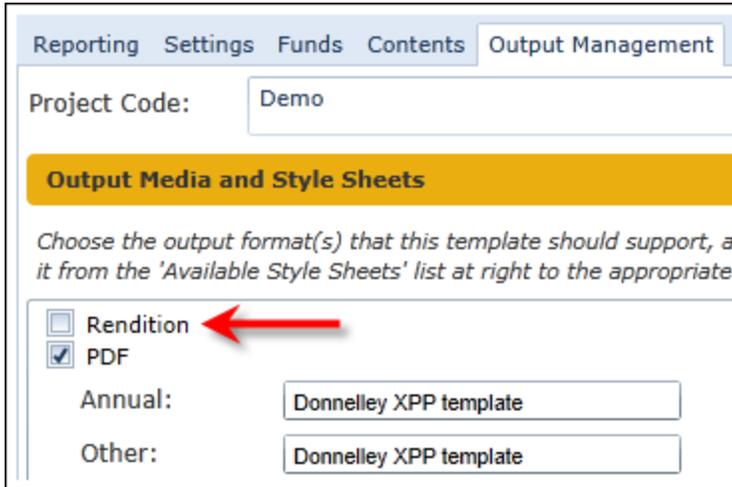
ii. **Assignment**



- A. A **Style Sheet-level Settings** section displays at the top of the tab. Users can specify the rendition(s) that will be considered "active" (*i.e.*, available for use) for any given style sheet.
 1. A **Style Sheet** drop-down list contains the names of all style sheets within the environment.
 2. The **Active Renditions** list box displays all renditions that are considered "active" for the selected style sheet.
 3. The **Inactive Renditions** list box displays all renditions from the Listing table that are not already considered "active" for the selected complex.
 4. Users may drag-and-drop any number of renditions to/from the **Inactive Renditions** list box to/from the **Active Renditions** list box.
- e. To add a new rendition definition to the library, a user with appropriate rights clicks the **Add new record** button (📄) at lower-right of the page.
 - i. The user specifies a **Rendition Name** and **Description** (optional) in the corresponding fields of the **Details** section.

- A. Rendition names must be unique and are not case-sensitive (e.g., *PDF* is considered a duplicate of *pdf*).
 - B. Rendition name character limit is 50.
 - C. Rendition description character limit is 150.
- ii. The user defines the rendition's output settings via the **Settings** tab.
- A. The user selects one of the option buttons within the **Output Document Type** or **Output Blackline Type** sections.
 - 1. If *PDF* is selected, the user may also select an option in the **Output Options** section.
 - 2. If *Word* is selected, the user may also select *Highlight Variable Data Points* from the **Output Options** section.
 - B. The user specifies one of the available **Comment** options.
 - C. The user specifies the desired **Prevent deletion of revision** option.
- iii. With the desired settings specified, clicking the **Save** button at lower-right of the page will cause the rendition to be added to the library, and an associated rendition ID will be auto-generated. The rendition name will also display in the **Inactive Renditions** list box on the **Assignment** tab, in association with all style sheets.
- iv. The user goes to the **Assignment** tab, selects the appropriate style sheet from the corresponding drop-down list, and then drags-and-drops the new rendition from the **Inactive Renditions** list box to the **Active Renditions** list box and saves the changes.
- A. The user repeats this step for each style sheet with which the rendition is to be considered "active".

4. A **Rendition** check box was added to the **Output Management** tab of the **Project Templates** page.



Reporting Settings Funds Contents **Output Management**

Project Code: Demo

Output Media and Style Sheets

Choose the output format(s) that this template should support, a it from the 'Available Style Sheets' list at right to the appropriate

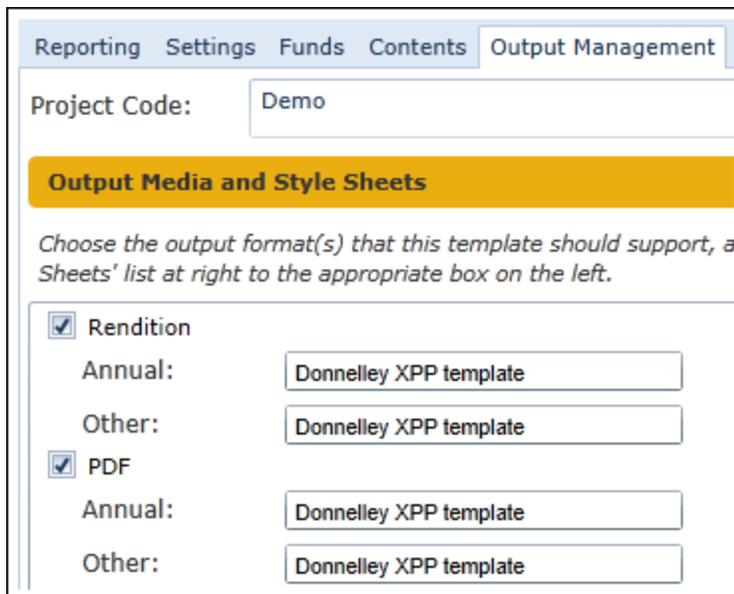
Rendition 

PDF

Annual: Donnelley XPP template

Other: Donnelley XPP template

- a. Selecting the check box causes one or more account period types to display, for which the user can apply a style sheet by dragging-and-dropping from those listed in the **Available Style Sheets** list box.



Reporting Settings Funds Contents **Output Management**

Project Code: Demo

Output Media and Style Sheets

Choose the output format(s) that this template should support, a Sheets' list at right to the appropriate box on the left.

Rendition

Annual: Donnelley XPP template

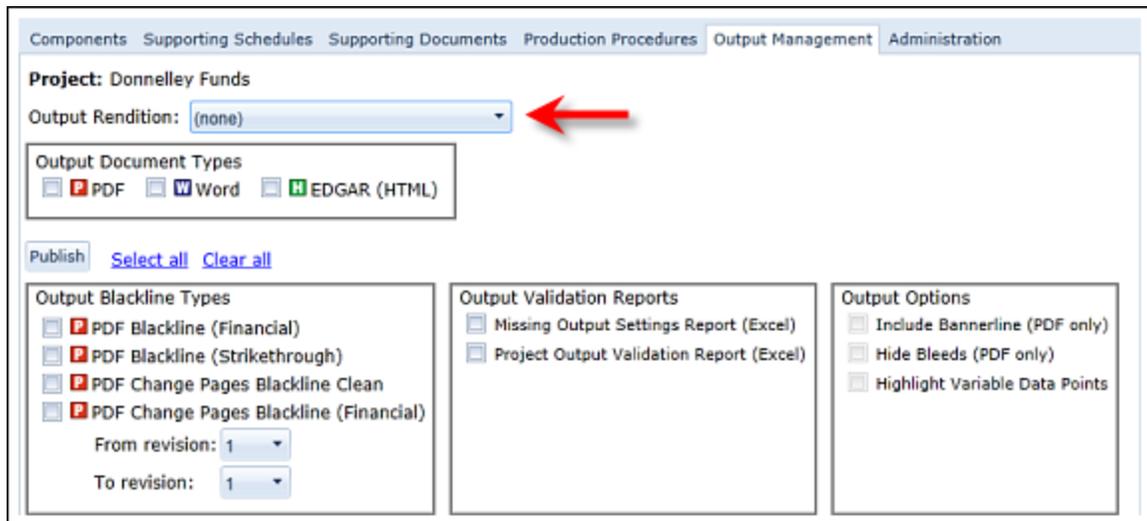
Other: Donnelley XPP template

PDF

Annual: Donnelley XPP template

Other: Donnelley XPP template

5. An **Output Rendition** drop down list now displays on the **Output Management** tab of the **Project** page, if the **Rendition** check box is selected for the project's template via the **Output Management** tab of the **Project Templates** page, and a style sheet is assigned.



- a. Available selections in the drop-down list are *(none)* (default selection) and all "active" renditions from the Renditions library for the style sheet assigned to the project template.
- b. Upon selecting an output rendition from the drop-down list, all other options on the tab become disabled (since the options defined for the specified rendition will be used for output).
- c. With an output rendition specified, the user clicks the **Publish** button.
 - i. A note indicates output request has been successfully submitted.
 - ii. Upon successful completion of output, the resulting revision will populate the revision table.
 - A. The rendition revision output will be based on the settings defined to the rendition within the Renditions library.
 - B. The **Output Type** in the revision grid will be prefixed with *R-*, to denote that the output was generated using a rendition definition (e.g., *R-PDF*, *R-EDGAR (HTML)*, etc.).
 - C. If a **Comment** option other than *None* was specified for the rendition definition, the comment will display in the **Comments** field followed by the term *(Rendition)*.

Example:

- Rendition Settings:

Detail

Rendition Name:

Description:

Rendition ID:

Settings **Assignment**

Output Document Type

PDF
 Word
 EDGAR (HTML)
 Excel

Output Blackline Type

PDF Blackline (Financial)
 PDF Blackline (Strikethrough)
 PDF Change Pages Blackline Clean
 PDF Change Pages Blackline (Financial)

Output Options

Include Bannerline (PDF only)
 Hide Bleeds (PDF only)
 Highlight Variable Data Points (PDF or Word)

Comment:
 Rendition Name
 None
 Other

Prevent deletion of revision:
 No
 Yes

- Resulting revision in grid of **Output Management** tab:

	Revision	Output Type	Comments (click row, the
	3 	R-PDF	PDF (Rendition)
	2	PDF	
	1	Word	

Process Changes

Upon database update to version 2.5.0, the only change for users, besides updates to the **Output Management** tab's look and feel, will be using the new **Publish** button to request output versus using the **Generate output** button. The **Output Rendition** option will not display on the tab unless renditions are defined and then added to the project template. Note that the location of the **Publish** button is higher on the **Output Management** tab so that it's never hidden from view.



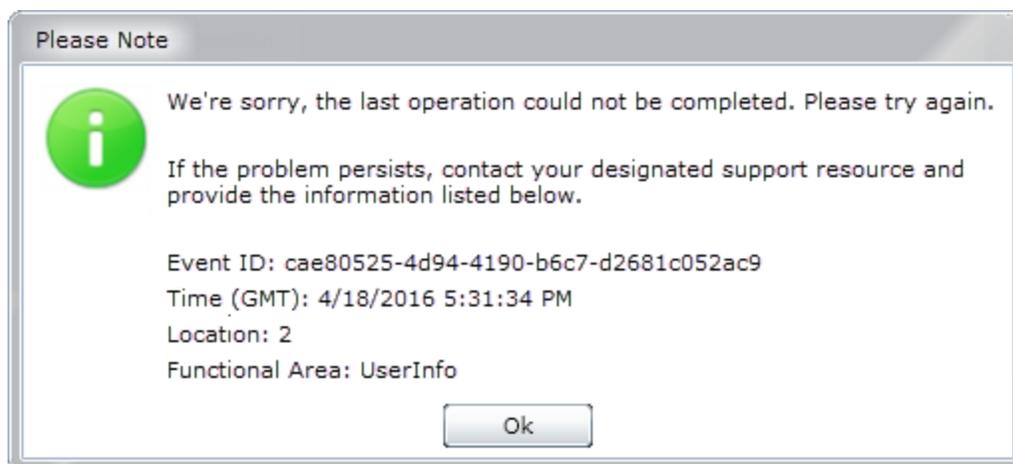
Appendix A: FundSuiteArc Error Messaging

Overview

Enhancements were made to FundSuiteArc's user interface error messaging. All error messages will be uniform in presentation, and will have additional information that users can send to RRD support staff to help expedite error resolution.

What's New

A new, common error messaging dialogue will now be displayed for error messages.



1. Messages will indicate that the specific operation that caused the error condition could not be completed, and will prompt the user to try again.

2. If the problem persists, users are advised to contact their designated RRD support resource and provide the technical information pertaining to the error, as displayed in the message dialogue:
 - a. The **Event ID** value is a unique key for the error that has occurred.
 - b. The **Time (GMT)** value is the date and time at which the error occurred.
 - c. The **Location** value is a reference number representing the area of the application in which the error occurred.
 - d. The **Functional Area** value indicates the application function/feature in which the error occurred.



Appendix B: Multi-User Calculation Logic

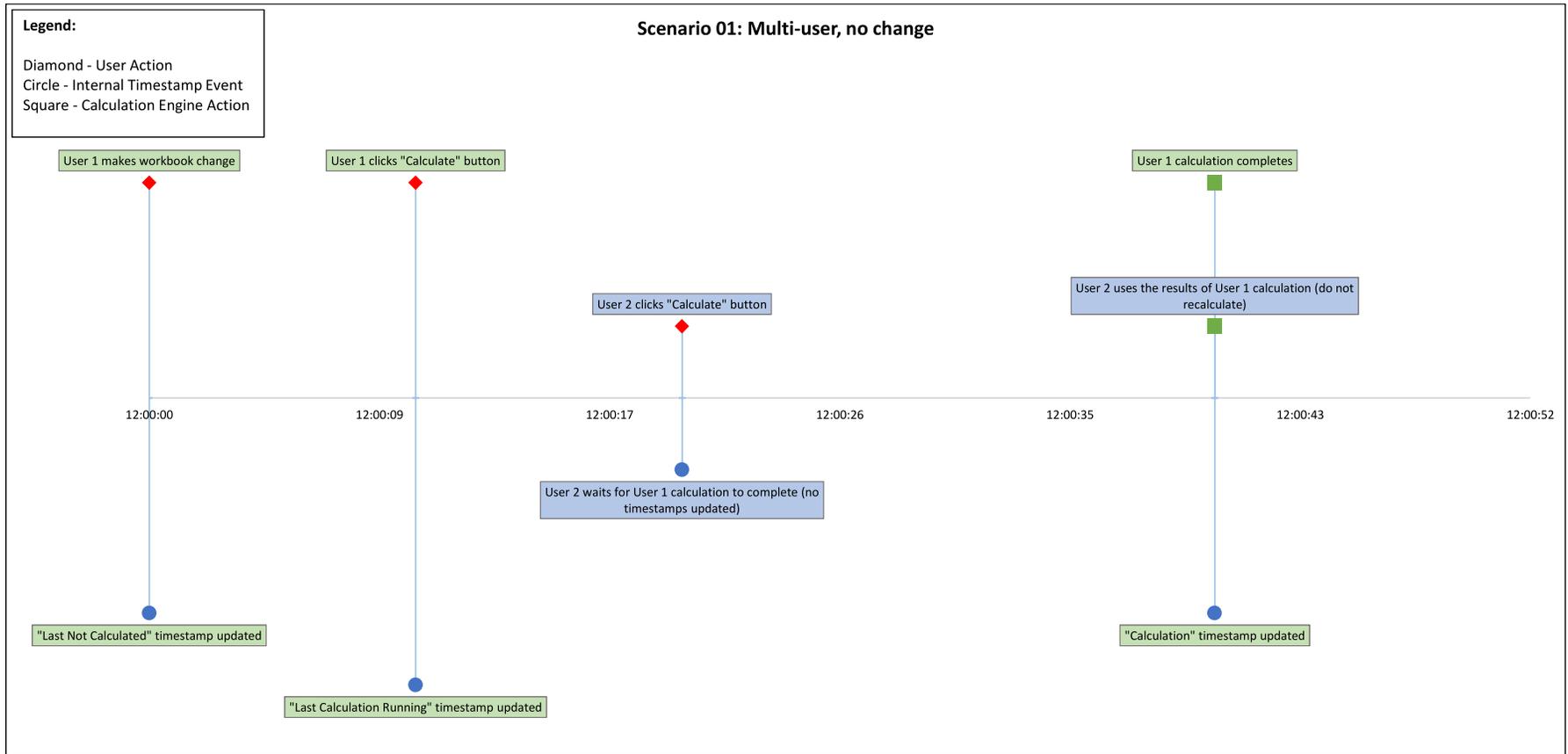
When a user initiates a calculation in FundSuiteArc, the master calculation engine performs a check to see if there are any other calculations currently running for the same period, fund and balance type.

- If there is already a calculation underway, then the second request will wait for the previous calculation to finish.
 - The second request will wait for up to 5 minutes.
 - If the first request does not complete calculating within 5 minutes, the engine will consider that calculation "timed-out" and will proceed with the second calculation.
 - If the first request completes in less than the 5-minute timeout period, then the second request may or may not start calculating, depending on the logic outlined in any of the following scenarios.

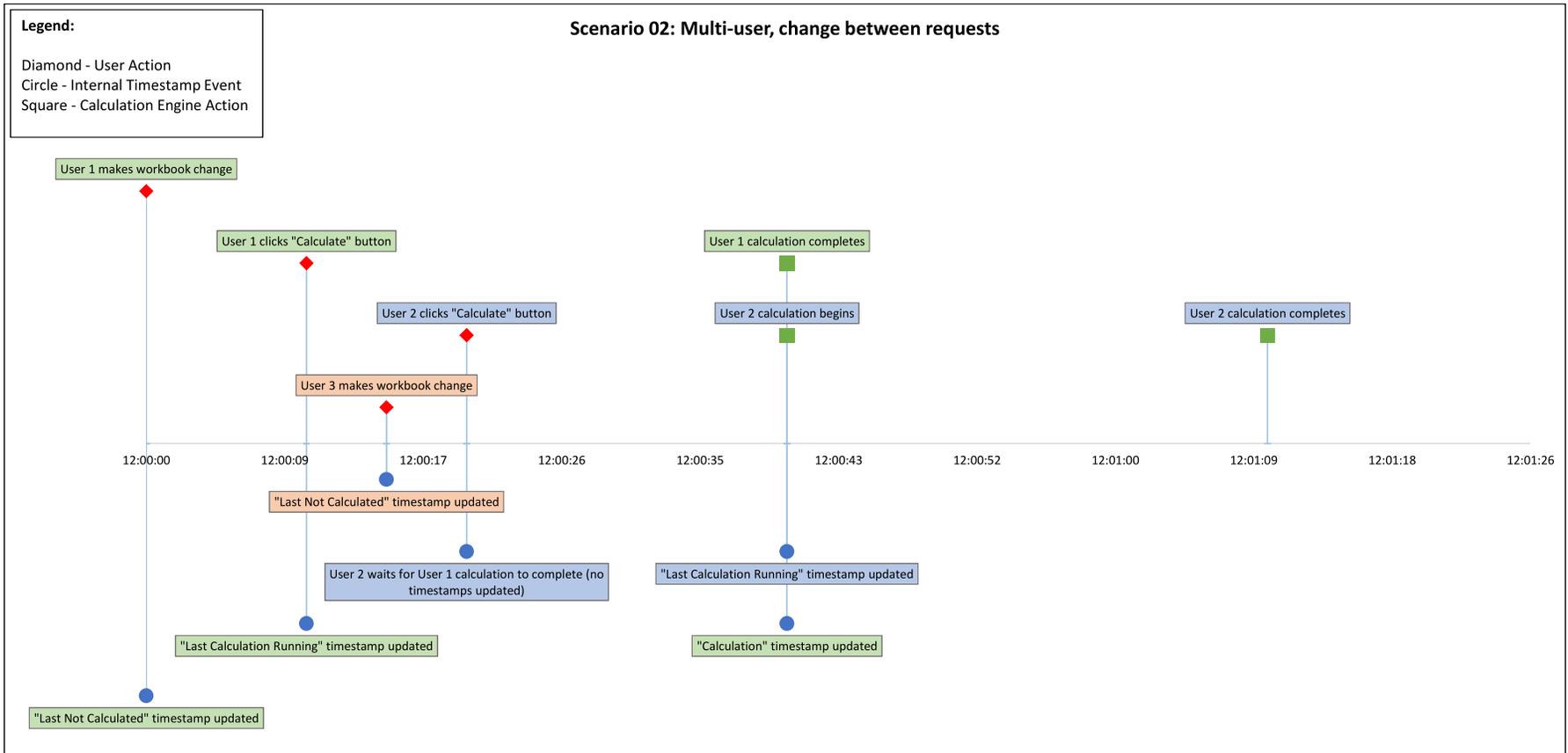
Note:

If it is determined that the second request can use the results of the first request, then the second request will use the results of the first without triggering another calculation.

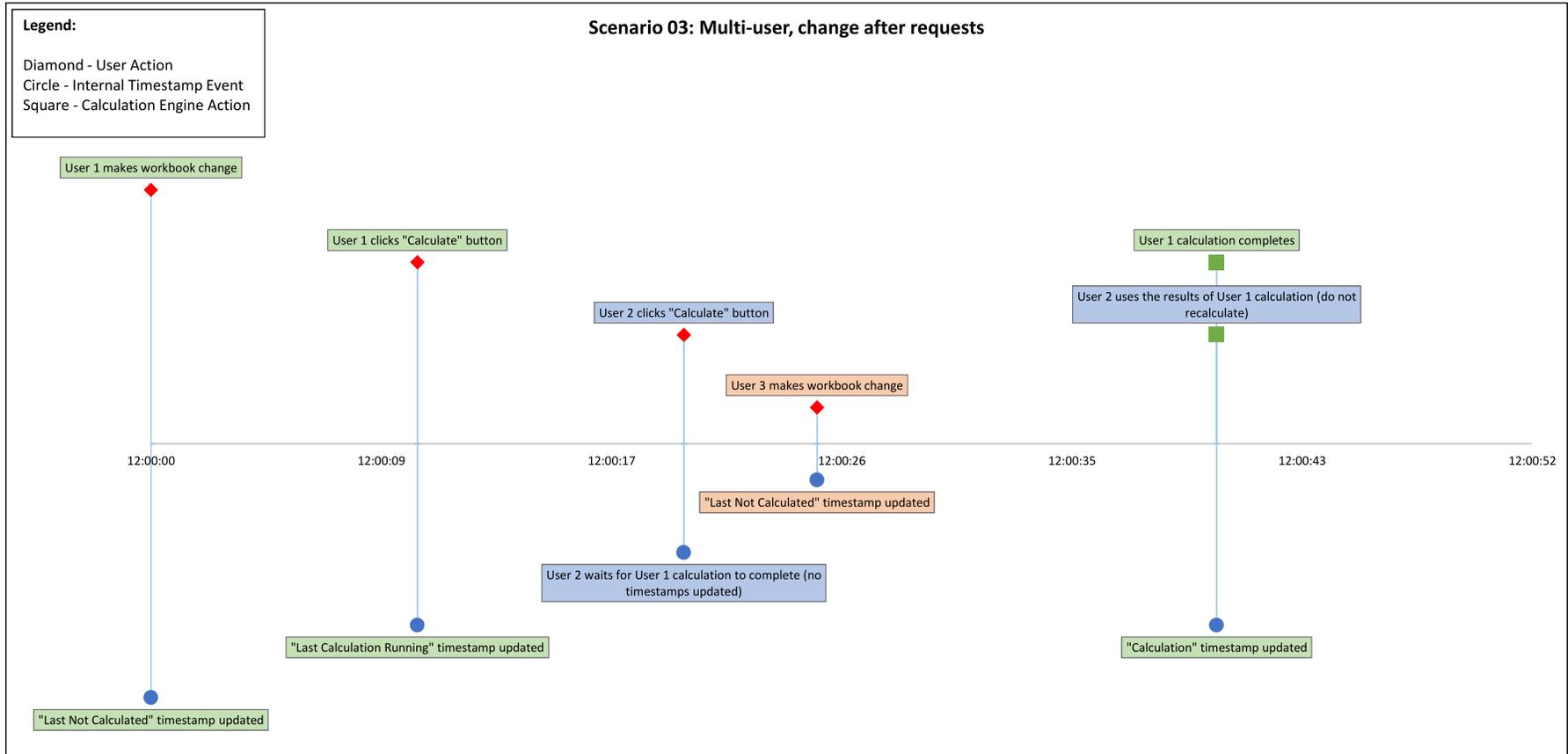
1. Scenario 01: Multi-user, no change



2. Scenario 02: Multi-user, change between requests



3. Scenario 03: Multi-user, change after requests





Closed Defects

The following issues were addressed in this release of FundSuiteArc products.

Product	RRD ID	Module/Location	Description
ArcReporting	14995	Portfolio	Fixed a defect that caused column header output settings to not appear in project preview if only literals were mapped.
ArcReporting	30802 (IM14-173784)	Financial	Corrected an issue that showed the wrong messages during dataloads.
ArcReporting	49028	Text/Tabular	Corrected issues wherein Inception Date data point format was not being evaluated per user specification.
ArcReporting	55907 (IM15-095231)	Financial	Corrected Append caption based on children logic to prevent financial statement line item captions from displaying duplicate text for some item children.
ArcReporting	60126 (IM15-182208)	Financial	Fixed issue that prevented the mouse cursor from moving to the start of constant values when entering them via the user interface.
ArcReporting	65393 (IM15-259726)	Project/Output	Corrected logic on the Spread Settings tab of the Project Templates page to ensure that only the fund(s) specified in the Funds to Display section of the Item Detail tab are displayed.
ArcReporting	66416 (IM15-251990)	Financial	Corrected logic on the Add/Edit Calculation Sheet Item dialogue to ensure that the Rounding Level drop-down list is enabled when the Calculation Sheet Item Type selection is changed to a type that supports rounding level specification.
ArcReporting	68141 (IM15-295138)	Project/Output	Updated logic for the Project page to prevent display of the "Dictionary '2get_item: The given key was not present in the dictionary." error message.
ArcReporting	84327 (IM15-343637)	Project/Output	Rectified issues that prevented users from editing unlinked tables via the Project page.

Product	RRD ID	Module/Location	Description
ArcReporting	92321 (IM15-432630)	Financial	Updated logic on the Proofing tab of the Financial Workbook page to ensure that all class balance fields are available for use in the proofing statement.
ArcReporting	96681 (IM15-455911)	Financial	Fixed a defect in the Financial Statement Template Output Settings page that prevented users from saving advanced suppression settings.
ArcReporting	97143 (IM15-457915)	Financial	Corrected an issue that prevented the Value column of the Supplemental Data tab on the Financial Workbook page from updating for date-type items following data import.
ArcReporting	98707 (IM15-465011)	Financial	Corrected a defect that prevented edits to historical Ending Balance (Raw) values on a trial balance tab of the Financial Workbook page from affecting both Primary and Secondary rounding level values.
ArcReporting	99668 (IM15-483698)	Financial	Rectified issues with financial workbook template imports.
ArcReporting	99784 (IM15-486254)	Financial	Fixed an issue wherein parentheses did not display on the Financial Statement Template Output Settings page when a given mapped data point was rounded and evaluated to a negative value.
ArcReporting	102550 (IM15-555909)	Financial	Corrected logic for the Chart and Financial Footnote Library drop-down lists on the Settings tab of the Financial Workbook Templates page to ensure that selections remain intact when switching between tabs on that page.
ArcReporting	102938 (IM15-645103)	Financial	Fixed issues that prevented the calculation and cache settings update for all funds.

Product	RRD ID	Module/Location	Description
ArcReporting	103088 (IM15-638073)	Financial	Made performance upgrades to calculation sheet calculations.
ArcReporting	103301 (IM15-654353)	Portfolio	Updated calculation logic to ensure that when a security held in multiple funds is recategorized, the calculation status of all funds will be set to <i>not calculated</i> .
ArcReporting	103408 (IM15-638150)	Shared	Corrected logic on the Users page, so that once a role is assigned to a given user, that user can apply the same role to any other user.
ArcReporting	109818 (IM16-026351)	Portfolio	Total values of portfolio statements now respect fund exceptions.
ArcReporting	112474	Financial	Fixed a defect wherein in a calculation sheet mapped to a holdings data set did not respect the <i>equal to</i> operator, if specified in the settings to group by a particular category.
ArcReporting	112753 (IM16-052127)	Financial	Display logic on the Calculation Sheets tab of the Financial Workbook Templates page was updated to prevent the tab contents from "jumping" to the top when a new section is added to a given calculation sheet.
ArcReporting	112936 (IM16-053117)	Text/Tabular	Fixed various spacing issues in text snippets.
ArcReporting	113912 (IM16-076061)	Financial	Updated financial statement template copy logic to ensure that all output column formatting settings are copied.

Product	RRD ID	Module/Location	Description
ArcReporting	114517 (IM16-087311)	Financial	Rectified several usability issues with respect to deleting custom literals from financial statements.
ArcReporting	114601 (IM16-030639)	Financial	Updated multi-column calculation sheet sort order logic to prevent the display of erroneous <i>"Duplicate sort order in formula element"</i> warning messages.
ArcReporting	114701 (IM16-084798)	Financial	Corrected logic on the Calculation Sheets tab of the Financial Workbook page to prevent duplicate records from displaying in the grid of the Calculation Sheet Item Detail dialogue.
ArcReporting	114813 (IM16-057253)	Financial	Updated sort order logic for financial statement preview on the Project page to prevent duplicate records from displaying.
ArcReporting	126451 (IM16-096639)	Financial	Enhanced database validation logic to prevent duplicate values being entered into the calculation sheet value table.
ArcReporting	129094	Financial	Updated the Class Information data import to ensure that all class fields specified for import will be loaded.
ArcFiling/ ArcReporting	84801 (IM15-319259)	Portfolio	Fixed XML output issues when combined portfolio options are specified in conditional output settings.
ArcFiling/ ArcReporting	88844 (IM15-375256)	Project/Output	Corrected an issue that prevented the value <i>0.0</i> from being included in XML output, if that value was specified for Row Space Above via the Format Row dialogue.
ArcFiling/ ArcReporting	90639 (IM15-400459)	Text/Tabular	Text library export logic was updated to ensure that the ordering and format of ordered and unordered lists in snippet content is correct.

Product	RRD ID	Module/Location	Description
ArcFiling/ ArcReporting	90675	Portfolio	Fixed a defect in portfolio statement item suppression, wherein if the operator <i>not equal to</i> was specified, multiple suppression conditions were considered as AND instead of OR statements.
ArcFiling/ ArcReporting	92075 (IM15- 416280)	Portfolio	Corrected logic used when navigating from the Calculation Sheets tab of the Financial Workbook page to the Fund Holdings page via the Adjust underlying value option to ensure that holdings are filtered based on selected category.
ArcFiling/ ArcReporting	96891 (IM15- 442313, IM16- 101746)	Portfolio	Updated shared legend logic to ensure that correct XML is output.
ArcFiling/ ArcReporting	102070 (IM15- 515743)	Portfolio	Corrected portfolio statement Total Investments formula to ensure that the value displayed is based on the sum of all footed market values of each security.
ArcFiling/ ArcReporting	103097 (IM15- 478678)	Funds	Modified class record synchronization logic to prevent changes to properties of a given class from affecting those of any other classes that share the same load code(s).
ArcFiling/ ArcReporting	108437 (IM15- 665952)	Project/Output	Fixed issues that existed in the spacing between footnote symbols and the associated footnote text.
ArcFiling/ ArcReporting	109525 (IM16- 006491)	Portfolio	Fixed issues that existed in the spacing between footnote symbols and the associated footnote text.
ArcFiling/ ArcReporting	112209 (IM15- 241933)	Project/Output	Corrected XML output to contain page breaks before sections, as required.

Product	RRD ID	Module/Location	Description
ArcFiling/ ArcReporting	112661 (IM16- 051151)	Project/Output	Corrected synchronization issues between project templates and their associated projects, which in some cases resulted in duplicate Output Media types displaying on the Components tab of the Project page.
ArcFiling/ ArcReporting	113226 (IM15- 431780)	Text/Tabular	Fixed issues that existed in the spacing between custom data points and colored text in text snippets.
ArcFiling/ ArcReporting	114375 (IM16- 082207)	Text/Tabular	Enhanced database validation logic to prevent duplicate values being entered into the tabular data table.
ArcFiling/ ArcReporting	115498 (IM15- 419145)	Project/Output	Corrected issues in the Calculation Sheet Mapping Audit Report where the item order did not accurately reflect a given calculation sheet's item order, as seen in the user interface.



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