ArcReporting

FundSuiteArc Version 1.9.0 Release Notes

ArcReporting 1.9.0

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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

1. In order to run FundSuiteArc version 1.9.0, the user must download and install Silverlight 5 or higher. When attempting to first log into a FundSuiteArc environment at version 1.9.0, the application verifies that the Silverlight browser plug-in is up-to-date and if not, begins the download and install process.

   Note:
   Typically, only a user with administrative rights to his/her workstation may install browser plug-ins and this may require support from their local IT personnel.

2. The Class Information data import was upgraded to accept modern Excel (XLSX) source files. After upgrading to FundSuiteArc version 1.9.0, users will be required to use the new Class Information data source file format (XLSX) when importing class information via the **Class Information Import** dialogue. The new Excel import template can be downloaded via the *Class Balances* tab of the **Financial Workbook** page.

   Note:
   This change does not impact loading of class information using FTP; no changes to TXT or XML source files are required in order to load data by that means.

3. After upgrading to FundSuiteArc version 1.9.0, users may notice that data points within text library snippets will lose some previously-applied formatting (*e.g.*, bold, italic, underline, etc.). If a given data point loses its formatting after upgrading, the formatting can be re-applied in version 1.9.0 and it will remain. This is a one-time issue pertaining to the upgrade to version 1.9.0. This issue only impacts data points; all other text formatting will remain as applied.

Enhancements Requiring User Decisions

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

Known Issues in ArcReporting

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

1. Adding literals to Tabular Data Template Output Settings, users must also set a "Caption" value

Overview

Version 1.9.0 of FundSuiteArc added a new feature to support tabular data tables for multiple languages. Historically, when users added a new literal value to a table, the literal's information was automatically displayed in project preview and output. In version 1.9.0, a user must also set the *Caption* value for each language associated with the table when adding new literals. In a future product release, a *Caption* value matching the literal information will automatically be set for each language.

Process Changes

1. Add a literal value to a table on the **Tabular Data Template Output Settings** page.

	Row Type	Column 1	
Row 1	(none)	Total Expenses	

2. After adding the literal, set the *Caption* value for each language on the *Format Items* tab.

Data Points Literals Financial Workbook | Format Items |

Selected Item Detail

Column: 1   **Row: 1**

Total Expenses

Selected Item Options

Custom Literal:

	Language	Caption
>	English (U.S.)	Total Expenses
	French	Total des depenses
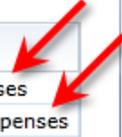
Note:

If the user does not specify a caption for a given literal, no information will be shown in project preview and output for that literal.

2. Tabular Data Template Output Settings: Upgrade to 1.9.0 creates "English (U.S.)" captions only

Overview

Version 1.9.0 of FundSuiteArc added a new feature to support tabular data tables for multiple languages. As part of the upgrade process to version 1.9.0, all tabular data templates will have *English (U.S.)* added as a language and information for any literal values found in the tables' output settings will be added as the *Caption* value for the *English (U.S.)* language. Clients that generate output in other languages will need to add those languages to the *Languages* tab of the **Tabular Data Templates** page and specify the corresponding *Caption* values for each literal via the *Format Items* tab of the **Tabular Data Template Output Settings** page.

Process Changes

1. If a tabular data template needs to be output in a language other than *English (U.S.)*, the language(s) must be added to the template via the *Languages* tab of the **Tabular Data Templates** page.

2. After adding the language(s), the caption(s) can be specified on the *Format Items* tab of the **Tabular Data Template Output Settings** page.

3. "Balance Type" field on Fund Holdings page is disabled after "Save"

Overview

Version 1.9.0 of FundSuiteArc added functionality to enable the loading and display of multiple fund holdings balance sets for a given fund and account period. As part of this functionality, a *Balance Type* field was added to the **Fund Holdings** page to allow users to switch between balance types. If a user makes and saves a change to information on the **Fund Holdings** page, the *Balance Type* field becomes disabled and users cannot change its value. To re-enable the *Balance Type* field, the user must close and re-open the **Fund Holdings** page.

Process Changes

1. The *Balance Type* field, initially enabled, becomes disabled after a change to holdings information is saved.
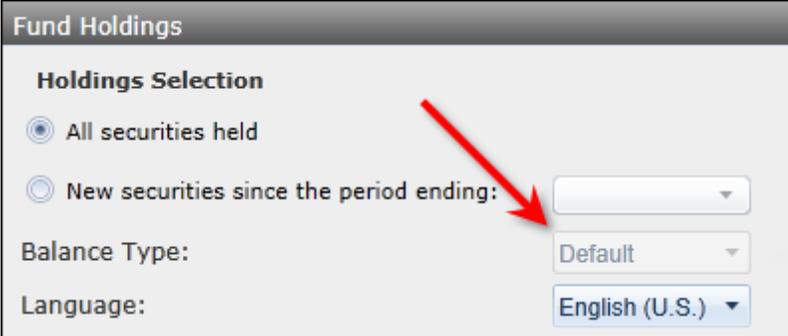
2. Close and re-open the **Fund Holdings** page to enable the *Balance Type* drop-down list.

4. Unlinked table cells become read-only after scrolling

Overview

Version 1.9.0 of FundSuiteArc added restrictions to the *Unlink component* functionality of the **Project** page in order to retain user-applied formatting (*e.g.*, bold, italic, superscript, etc.). If formatting has been applied to an item in a cell, that cell is not editable when unlinked. In some situations cells with a gray-colored background, that should be editable, are not editable when the preview pane is scrolled. When this situation occurs, the user can close and re-open the editing window in order to edit the cells.

Process Changes

1. Open the **Project** page and select an unlinked component to edit.

	A	B
		For the Six Months Ended 2013 (Unaudited)
1	Per Share Operating Performance:	
2	Net asset value, beginning of period	9.41
3	Net investment income	0.47
4	Net realized and unrealized gain (loss) on investment transactions	(0.06)
5	Net increase (decrease) in net asset value resulting from operations	0.41
6	Dividends from net investment income	(0.38)
7	Return of capital distributions	0.00
8	Total dividends and distributions paid	(0.38)
9	Net asset value, end of period	9.44
10	Market price, end of period	8.52
11	Total Investment Return†	—2
12	Ratios to Average Net Assets/<softreturn>Supplementary Data:	
13	Net assets, end of period (000s)	61,835

2. Scroll the table in the editing window to view cells that are outside the current viewing area. Note that some cells are now disabled/uneditable.

	A	B
		For the Six Months Ended
		2013 (Unaudited)
1	Per Share Operating Performance:	
2	Net asset value, beginning of period	9.41
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13	Net assets, end of period (000s)	61,835

3. Close and re-open the editing window to edit previously-disabled cells, as needed.

5.   Ability to insert tables in portfolio output: Column headers don't appear in preview

Overview

Version 1.9.0 of FundSuiteArc added functionality that allows users to insert additional tables within portfolio statement templates. If an inserted table contains a column header element, the column header may not appear in the statement preview on the **Project** page. The column header information is contained within the project data, however, and will appear in the generated PDF or Word document.

Process Changes

No changes to current processes are required.

6. Ability to insert tables in portfolio output: Inserted financial statement template values may not update

Overview

Version 1.9.0 of FundSuiteArc added functionality that allows users to insert additional tables within portfolio statement templates. Users can therefore insert a financial statement template within a portfolio statement. If a financial statement template has been inserted and a change is made which would force the financial statement values to change, the values will not refresh until the financial workbook is recalculated. Clicking the *Refresh* button ( ) for a portfolio statement preview on the Project page will not force financial statement values to refresh. Instead, the user must force the financial workbook to calculate either by opening it, or by clicking the *Calculate workbook* button ( ) if it's already open but has a status of *Not Calculated*.

Process Changes

No changes to current processes are required.

7. Footnote Preview and Assignment page: Export of preview not available

Overview

The new **Footnote Preview and Assignment** page includes an *Export data* button at lower-right of the page. This button currently will not generate an export file; clicking the button has no effect. In a future release, this button will provide the user with an export of the preview pane data in Excel format.

Process Changes

No changes to current processes are required.

8. Text and footnote library pages display a "modified" state following database upgrade

Overview

Version 1.9.0 of FundSuiteArc included several enhancements to the text editor on the **Text Libraries**, **Footnote Libraries - General Ledger** and **Footnote Libraries - Holdings** pages. The first time any snippet is accessed in one of these libraries after upgrading to version 1.9.0, the library page will change to a *modified* state. This is normal behavior and is needed to save certain programmatic changes made during the upgrade. The user can simply click the *Save* button (🖫) at lower-right of the page in this situation. After the snippet is saved, this behavior will not be seen again. If one user performs this step on a snippet, it will not appear for other users that subsequently access the snippet.

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. **Files saved from Output Queue provide appropriate file extensions**

   The Output Queue allows users to view or save files that have been generated by FundSuiteArc. When saving specific output files to a local or network drive, FundSuiteArc now provides the appropriate file extension.

2. **User rights to govern opening or deletion of FundSuiteArc templates**

   In previous versions of FundSuiteArc, a user with access to a given template page was not restricted from deleting templates of that type. User rights were added to control a user's ability to open or delete specific templates based on the assignment of such rights.

3. **Ability to batch print portfolio statements, financial statements and tabular data tables to Excel**

   Users need to review various statements contained in the Shareholder Report and often perform this review in Excel. FundSuiteArc now supports batch exporting of all statement data into Excel. The batch export feature is accessible from multiple areas of FundSuiteArc.

4. **Output request performance improvements**

   FundSuiteArc document processing logic was enhanced to more quickly move output requests to the Output Queue.

5. **Enhancements to Users page**

   The **Users** page in the Platform Administration area was enhanced to create a more controlled environment within FundSuiteArc, ensuring the security of user information.

6. **Ability to add a default language to a complex**

   A *Default Language* field was added to the Complex level of the **Funds** page. Once the default language is specified on the **Funds** page, any newly-created templates or libraries automatically have that language added as their default, based on the complex with which they are associated.

7. **Holdings data import/dataload: Ability to increment numeric values**

   FundSuiteArc was enhanced to allow the loading of individual transactions and have FundSuiteArc add or subtract the value from the value that already exists. For example, if the fund has an as of trade that needs booked to the holdings, the user can load a file with the additional shares, cost and market value and the

Holdings load adds or subtracts those values to/from the existing values. This functionality exists only for the Holdings FTP dataload and Holdings data import.

8. **Holdings data import/dataload: Option to ignore blanks during import**

   Prior to this enhancement if a blank value was provided in a Holdings import source file and the overwrite settings were set to *True*, any data in FundSuiteArc for that field was cleared. FundSuiteArc now allows the user to choose whether or not to ignore blanks or to update existing values with blanks during a fund holdings dataload (FTP) or Excel push-button data import.

9. **Holdings data import: Ability for multiple users to import simultaneously**

   Previously, only a single file could be in the Holdings data import/dataload process and other load requests were forced to wait until the existing load was completed to begin. This limitation was removed. FundSuiteArc now allows multiple users to import fund holdings data without conflict.

10. **Class Information data import/dataload enhancements**

    The goal of this functionality is to allow users to load Class Information data with a source file that only contains the fields the user wants to update. Similar to the Holdings data import/dataload, only the required fields must be present in the file and the fields can be in any order.

11. **Category Captions data import enhancements**

    The Category Captions push-button data import was enhanced to support a maximum of 1024 characters in the *CategoryCode* field.

12. **Ability to export/import/copy project templates**

    The goal of this feature is to allow users to copy or import existing project templates to create new templates. A project template can be exported to a file of XML format, saved to a local or network drive and then imported (into the same or a different database) to create a new project template. This functionality mimics that of the current export/import/copy functionality for financial workbook templates and portfolio statement templates.

13. **Support for Internet Explorer 9 and 10; Windows 7 and 8**

    FundSuiteArc now supports the use of Internet Explorer 9 and Internet Explorer 10 web browsers and the Windows 7 and Windows 8 operating systems.

14. **Ability to view other funds that hold same security: Global Holdings Review**

    Users can now easily view any given security record that is held in other funds and complexes within an environment by means of a new **Global Holdings Review** page.

15. **Holdings data import/dataload: Additional description fields**

The number of *Description* fields available for use with fund holdings data in FundSuiteArc was increased.

16. **More rows supported in tabular data output settings**

Tabular data templates in FundSuiteArc now support significantly more rows for data entry.

17. **New Securities Report**

A New Securities Report was added to FundSuiteArc to alert users when new securities are added to a given security library. The report can be run for a single account period across one or more complexes, one or more fund groups, or one or more funds.

18. **Class Information data import/dataload: Additional fields**

New fields were added to the Class Information push-button data import/FTP dataload source files. These fields are also displayed/supported on the **Financial Workbook** page and the *Financial Statement Templates* tab of the **Financial Workbook Templates** page.

19. **Ability to specify multiple conditions for a "Conditional Value" data point in a text library snippet**

Enhancements were made to existing conditional text mapping via the **Text Libraries** page to allow for multiple conditions within a text snippet. A user can now specify up to 10 conditions.

20. **Additional output style user controls**

User controls affecting the output style of text snippets were enhanced within FundSuiteArc. These updates can be seen in the text editor of the **Text Libraries** page, **Footnote Libraries - General Ledger** page and **Footnote Libraries - Holdings** page.

21. **Upgrade to Silverlight 5**

FundSuiteArc was upgraded to use Silverlight 5 in order to support Windows 7 and 8 and Internet Explorer 9 and 10.

22. **Ability to load and display multiple fund holdings balance sets for a fund/account period**

A user can now load holdings multiple times for the same fund and account period. In these cases the security library and category library information is the same, but the security balance information (*e.g.*, Cost, Shares, Market Value, etc.) is different. A user can view and adjust both sets of data on the **Fund Holdings** page and create projects for each set.

23. **Updates to user rights names**

The text that displays for user rights on the **Roles** and **Users** pages was updated in the interest of clarity and naming consistency, both across the user rights themselves and with regard to the respective application pages associated with the rights. These updates do not affect existing rights/roles associations nor existing role assignments to users.

24. **Training videos available via online Help system**

A series of self-paced training videos was made available to users as part of the FundSuiteArc online Help system. The videos in the collection offer tips on efficient use of application pages, best practices, common tasks, etc. The entire collection of videos can be found in the *Self-paced Training Videos* topic and individual videos appear within various other Help topics, as appropriate.

25. **Statement preview caching: Behavioral change to financial and portfolio statement previews in projects**

In order to enhance the performance of financial and portfolio statement previews on the **Project** page, FundSuiteArc will now cache the preview data once the user has viewed a statement. If the user navigates away from the statement and subsequently returns, the preview will not regenerate statement values, but instead will use the cached preview data, thus making the preview display much more quickly. The cached preview data will also be used when generating output, which will also decrease the time in which output requests are returned to the user.

2. Enhancements to ArcReporting

1. **Enhancements to calculation sheets when calculating section totals**

   FundSuiteArc added functionality that changes the way calculation sheet section totals are calculated. This new functionality allows totals to be calculated by class or currency on calculation sheets. Existing sections that currently calculate a section total will use the same rounding level to ensure the section total foots.

2. **Ability to copy row mappings on Financial Statement and Portfolio Statement Template Output Settings pages**

   Managing output settings for both financial statements and portfolio statements requires efficiencies in the mapping process. Previous versions of FundSuiteArc required mapping each statement line item independently. The ability to map one line item and apply the same mapping to other lines of the same type was added to save time and eliminate mapping inconsistencies between line items of the same type.

3. **Additional prior period options for document structure template sections**

   The **Document Structure Templates** page was enhanced to allow selection of several additional prior period account periods, whose corresponding data will display in the project. A user can now choose to display data for the second prior fiscal year-end, third prior fiscal year-end and first prior fiscal year-end semi-annual period.

4. **More characters allowed for general ledger and holdings footnote symbols**

   Financial and portfolio statements can contain many footnotes, all of which are indicated by a footnote symbol. These symbols can be of varying length. Prior versions of FundSuiteArc only allowed users to enter a one character symbol for both general ledger and holding footnotes. This character limit is now twenty characters.

5. **Ability to apply auto-sequencing symbols to financial footnotes**

   Financial statements can contain footnote legends with multiple footnotes. The ability to dynamically assign symbols is imperative to the statement preparation process. Functionality was introduced for all financial statements allowing users to identify the symbol pattern and order of the footnotes within the statement.

6. **Ability to apply auto-sequencing symbols to financial and portfolio statement column header footnotes**

   FuncSuiteArc now supports using the auto-sequence functionality on column headers in financial and portfolio statements.

7. **Ability to render one or more individual chapters from a project**

Previously, ArcReporting only allowed users to render output for entire projects. Now, users can render a single chapter (or multiple chapters) within a project to PDF or Word format.

8. **Ability to import custom footnotes**

Users can now import custom portfolio footnotes and assign them to holdings fields through the Holdings dataload/data import process.

9. **User right to allow unlinking of project components**

Previous versions of FundSuiteArc allowed a user to unlink portfolio statements, financial statements and tabular data tables within the project. More granular user rights were added for these actions, preventing users from inadvertently unlinking these components while working in a project.

10. **Ability to provide captions in different languages on tabular data templates**

Prior versions of FundSuiteArc only supported a single language on tabular data templates. FundSuiteArc now allows a user to add multiple languages and different captioning for each language.

11. **Ability to apply footing exceptions to trial balance items**

Within ArcReporting financial workbooks, the trial balance adjusts rounded values to ensure the section and the sub-section total foot correctly. The footing logic adjusts the value with the least impact (closest to $0.50). In some situations, the user may want to identify specific trial balance items that should not participate in footing and thereby prevent the footed value for those line items from being adjusted during the footing process.

12. **Ability to sort financial statement sections based on caption or value**

The preparation of financial statements may require the sorting of line items within a section. Enhancements were made to the financial statement template to allow assignment of a specific sort order.

13. **Historical data import template pre-populates with values from existing statement**

Prior versions of FundSuiteArc provided a generic historical data import template. Users were therefore required to populate the template with all necessary changes prior to importing data into FundSuiteArc. Enhancements to the import template now provide a template with accurate captions and values, based on an existing statement.

14. **Ability to display positive/negative captions for sections and sub-sections in financial statements based on children in the section**

The caption displayed for section or sub-section headers/totals in financial statements may be dependent on the components of the section or sub-section. If all the components are either positive or negative, the section captions may need to change accordingly. Enhancements to FundSuiteArc provide logic that reviews all components in a given section or sub-section to determine which user-defined caption should display.

15. **Ability to define advanced captions for section headers/totals in financial statements based on children in the section**

FundsuiteArc was enhanced to allow advanced financial statement section header/total captions to be defined, based on children items in a given section. This functionality appends the section header/total caption with additional text when the children items in the section are not equal to zero.

16. **Ability to create a table of maturity date ranges**

Enhancements were made to the *Calculation Sheets* tab of the **Financial Workbook Templates** page, allowing the grouping of holdings information by maturity date ranges.

17. **Ability to assign/display currency for a specific class**

ArcReporting was enhanced to allow the addition of a currency-level field to a class-level setup. The currency assigned to a class can display in financial statement templates.

18. **Ability to exclude categories from footing within a portfolio statement template**

Previously, when calculating category totals on a portfolio statement, FundSuiteArc took the "bottom-up" approach and calculated the category total from raw values then footed. Now, a "top-down" approach is available. The rounded values can be used to calculate category totals on the statement. Selecting the option for a category of securities forces rounding adjustments to other securities within the portfolio statement.

19. **Ability to calculate "Market Value Ask/Bid" based on shares held and "Price Ask/Bid" value**

FundSuiteArc was enhanced to allow upload of the Bid/Ask price for a security and to have the market value and unrealized value automatically calculated for each security, based on the shares held and the cost of the security. These values can be added to calculation sheets to adjust final statements and perform analysis, as needed.

20. **Fewer fields required for General Ledger Transactions data import/dataload**

The number of required fields in the import source file was reduced for the General Ledger Transactions push-button data import/FTP dataload.

21. **Calculation sheet formula detail included in financial workbook export**

The financial workbook export document was enhanced to display additional detail for calculation sheet formulas included therein. In addition, a new calculation sheet mapping report (called the "Calculation Sheet Audit Report") was added.

22. **Enhancements to support portfolio output requirements for long/short funds**

Enhancements were made to ArcReporting to allow the specification of captions for long and short categories. The user can now manually update the new caption fields and/or import updates to the captions. Also, single security caption logic was enhanced and is supported in project preview and output.

23. **Ability to calculate quarterly information in calculation sheets**

Financial workbook calculation sheet formulas were enhanced to allow the calculation and display of quarterly financial values (Q3 YTD - Q2 YTD = Q3) in financial statement output.

24. **Section and currency totals supported in "Currency" calculation sheets**

Functionality was added to calculation sheets of type *Currency* to calculate section totals by currency. The total of all currencies and portfolio holdings data is filtered by currency code.

25. **Enhancements to account for "global" charts of accounts during copy/import of financial workbook templates**

Previously, when a user copied/imported a financial workbook template that was assigned "global" chart of accounts within the same complex or from one complex to another, FundSuiteArc created a duplicate chart of accounts and assigned it to the new template in the destination complex. Now, upon copy or import of a financial workbook template that has a global chart of accounts assigned, the same global chart of accounts is assigned to both templates.

26. **"Cost" and "Unrealized" calculated fields to facilitate vertical and horizontal footing on portfolio statements**

FundSuiteArc was enhanced to ensure that certain sections foot horizontally in addition to footing vertically. This functionality is typically used on derivative section output when displaying *Market Value*, *Cost* and *Unrealized Value* fields that are summed vertically and horizontally.

27. **Ability to calculate all funds when previewing financial statements on the Financial Workbook page**

Functionality was added to ensure that values for all funds, and the associated horizontal totals, are refreshed when previewing financial statements on the **Financial Workbook** page. Previously, only the current fund's information was refreshed.

28. **Ability to sum values contained in portfolio footnotes**

FundSuiteArc now allows the calculation of values contained in portfolio footnotes. This functionality sums the specified holdings field for all securities assigned a given footnote. To enable this functionality, the ability to insert data points in footnote text was added on the **Footnote Libraries - Holdings** page.

29. **Ability to create page and note references**

FundSuiteArc supports the creation of automated "Notes to Financials" links to reference numbers and page numbers. A user can add these links to financial statements, text library snippets and footnote library snippets in which the note or page number automatically populates during project output.

30. **Ability to enable stacking functionality for portfolio statements**

FundSuiteArc was enhanced to allow utilization of stacking functionality for portfolio statements. A user can now stack securities at the category level for display in project preview and output.

31. **Ability to specify different rounding settings for the same value within a portfolio statement template**

New functionality allows the setup of different rounding parameters for the same numeric value in a portfolio statement. This requirement integrates the concept of multiple rounding levels within a single statement.

32. **Portfolio single security output logic**

FundSuiteArc was enhanced to allow the specification of different output settings for a security line item in situations where the security is the only one in a given category. This functionality will typically be used in conjunction with the existing logic for category total suppression when a single security is displayed.

33. **N-SAR calculation sheet and Excel export for use in FundSuite ComFiler**

Functionality was added to create a standard N-SAR calculation sheet. A user can create formulas just like any other calculation sheet to determine the N-SAR values. This calculation sheet can be exported from ArcReporting and imported into FundSuite ComFiler.

34. **New interface to assign and preview footnotes for portfolio statements**

FundSuiteArc now allows manual assignment of footnotes to portfolio statement category header and category total line items, the "Total Investments", "Other Assets" and "Net Assets" lines and statement column headers. Footnote assignment is carried out on a new page in ArcReporting, where users can also preview the appearance of footnotes on the statement.

35. **"Rounded to Zero" value display options**

Functionality was added to allow for a distinction in display type between values that were rounded to zero and values that are actually zero. For example, if a value is set to display to 2 decimals, but the underlying value is *0.004*, the user may want the value to display as *0.00* instead of *-* (a dash) to distinguish it from values that are actually zero.

36. **Ability to change "Calculation Sheet Item Type" setting for existing calculation sheet items**

FundSuiteArc now allows the editing of the *Calculation Sheet Item Type* setting on any previously-created calculation sheet item.

37. **Pivoted financial statement setup and output**

ArcReporting was enhanced to allow users to create pivoted financial statement templates. These pivoted statement templates will allow users to set up columns of data (vs. rows of data in a standard template) and repeat rows by fund, class and/or account period.

38. **Ability to exclude reversed adjustments from the General Ledger Transactions report**

Users can now exclude an entry and its reversal from the General Ledger Transactions report. New functionality allows any given entry to be reversed only once and prohibits a user to reverse a reversal. In addition, the functionality allows a user to create a "new" entry based on a reversal and book the exact opposite of the original entry.

39. **Ability to move trial balance account mappings from one item to another**

FundSuiteArc now supports the relocation of previously-mapped general ledger accounts directly to another item within a given trial balance definition. New functionality also allows a user to select multiple accounts when dragging and dropping from the *Non-Participating Accounts* grid to trial balance items.

40. **Automated Charting**

ArcReporting was enhanced to allow the creation of charts using an automated charting engine known as ArcCharting. ArcReporting can communicate chart information to ArcCharting and return a JPG preview of

the chart on the **Project** page. An EPS image of the chart is also generated and is inserted into project output. ArcReporting supports previewing chart data for portfolio statements, financial statements and tabular data.

41. **Ability to promote footnotes from securities to category header in portfolio statement output**

FundSuiteArc now supports the promotion of footnotes to the category header when all securities in the category are assigned the same footnote.

42. **Multiple conditions allowed within a "Conditional Value" calculation sheet item formula**

Calculation sheet items of type *Conditional Value* were enhanced to allow for the specification of multiple conditions. Previously, a user could only define one condition for such calculation sheet items.

43. **New numeric output display options: Round to thousands and show 1, 2 or 3 decimals**

New rounding types were added for portfolio statement templates and financial workbook templates. The rounding types divide the original number by 1,000 and show 1, 2 or 3 decimal places, respectively.

44. **Ability to add portfolio statement subtotal values to a calculation sheet**

FundSuiteArc now supports mapping from *Subtotal* line types from portfolio statement templates into calculation sheets. The most common example of where this functionality is useful is in derivatives where subtotals are used to derive the gain/loss values, which in turn need to be brought through to the balance sheet.

45. **Ability to insert external PDF documents in FundSuiteArc PDF output**

FundSuiteArc document management functionality was enhanced to allow the upload of a PDF document into a FundSuiteArc project. The content of the attached PDF document is inserted into the overall PDF document generated by FundSuiteArc.

46. **Ability to find/replace security library text**

This functionality allows a user to search for and replace text in the **Security Caption** field for securities that meet specified criteria. In a future release users will have the ability to find/replace text within any security text field. This functionality does not support replacement of values in Boolean fields (those with true/false values) or those that are edited in the FundSuiteArc user interface by means of clickable blue links.

47. **Ability to display values as negative in project preview and output**

Shareholder reports are comprised of a variety of statements, tables and textual items. In some situations, the user's preference is to display numbers as negative even though the original data was loaded as a positive number. Features were added that support display of these values in both project preview and output.

48. **Ability to provide dynamic text for "Total Investments", "Other Assets" and "Net Assets" portfolio statement line items**

   Different account period cycles may require different captions for the "Total Investments", "Other Assets" and "Net Assets" line items on a portfolio statement. Enhancements in FundSuiteArc now allow users to provide distinct captions and have the correct caption render in project preview and output.

49. **Ability to insert tables in portfolio output**

   A user can now place a second table (financial, tabular data or portfolio) within a portfolio statement template that would typically be placed prior to the footnote legend and after the primary portfolio statement.

50. **Ability to define security types to use Unrealized Value (instead of Market Value) when calculating total investments**

   For many funds, the market value of derivative securities is not included in the portfolio's total investment calculation. Typically these derivatives display the unrealized value for securities, category totals and percentage of net assets and are disclosed in tables after total investments in the statement.

51. **ArcProspectus content integration**

   FundSuiteArc now allows completed project content to be pushed to ArcProspectus.

Enhancements Common to Multiple Products

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

1. Files saved from Output Queue provide appropriate file extensions

Overview

The Output Queue allows users to view or save files that have been generated by FundSuiteArc. When saving specific output files to a local or network drive, FundSuiteArc now provides the appropriate file extension.

What's New

When a user clicks the *Save* link for a file in the Output Queue, the appropriate file extension displays in the *Save as type* field of the **Save** dialogue. The output types and associated file extensions are listed in the following table:

Output Type	File Extension	Product
Project: PDF	.PDF	ArcReporting/ArcFiling
Project: PDF Blackline (Financial)	.PDF	ArcReporting
Project: PDF Blackline(Strikethrough)	.PDF	ArcReporting
Project: PDF Change Pages Clean	.PDF	ArcReporting
Project: PDF Change Pages Blackline(Financial)	.PDF	ArcReporting
Project: Word	.DOC	ArcReporting/ArcFiling
Project: Excel	.XLS	ArcReporting/ArcFiling
Project: Financial Statement Preview	.XLS	ArcReporting
Project: EDGAR HTML - PDF	.ZIP	ArcReporting/ArcFiling
Project: EDGAR HTML -PDF Blackline	.ZIP	ArcReporting

Process Changes

No changes to current processes are required.

2. User rights to govern opening or deletion of FundSuiteArc templates

Overview

In previous versions of FundSuiteArc, a user with access to a given template page was not restricted from deleting templates of that type. User rights were added to control a user's ability to open or delete specific templates based on the assignment of such rights.

What's New

A user can now delete templates in FundSuiteArc only when a specific user right is assigned. If a user is not assigned the corresponding user right for a certain template type, the *Delete* button () on the template page is disabled. If a user does not have the right to open a specific template type, the associated menu item in FundSuiteArc is disabled.

User rights added or amended

1. Open Document Structure Templates Page

    a. Allows a user to open/edit the **Document Structure Templates** page.

2. Delete Document Structure Templates

    a. Allows a user to delete a document structure template.

    b. Located as a child of the *Open Document Structure Templates Page* right.

3. Open Portfolio Statement Templates Page

    a. Allows a user to open/edit the **Portfolio Statement Templates** page.

    b. For ArcReporting, the existing user right name was changed from *Open Statement Templates (Holdings)*.

4. Delete Portfolio Statement Templates

    a. Allows a user to delete a portfolio statement template.

    b. Located as a child of the *Open Portfolio Statement Templates Page* right.

5. Open Project Templates Page

    a. Allows a user to open/edit a project template.

    b. For ArcReporting, the existing user right name was changed from *Open Book Templates*.

6. Delete Project Templates

    a. Allows a user to delete a project template.

    b. Located as a child of the *Open Project Templates Page* right.

7. Open Tabular Data Templates Page

    a. Allows a user to open/edit a tabular data template.

    b. For ArcReporting, the existing user right name was changed from *Open Tabular Data Template*.

8. Delete Tabular Data Templates

    a. Allows a user to delete a tabular data template.

    b. Located as a child of the *Open Tabular Data Templates Page* right.

9. Open Financial Workbook Templates Page (ArcReporting only)

    a. Allows a user to open/edit a financial workbook template.

    b. The existing user right name was changed from *Open Working Trial Balance Definition*.

10. Delete Financial Workbook Templates (ArcReporting only)

    a. Allows a user to delete a financial workbook template.

    b. Located as a child of the *Open Financial Workbook Templates Page* right.

11. Delete Financial Statement Templates (ArcReporting only)

    a. Allows a user to delete a financial statement template.

    b. Located as a child of the *Open Financial Workbook Templates Page* right.

12. Open Notes Structure Templates Page (ArcReporting only)

    a. Allows a user to open/edit a notes structure template.

13. Delete Notes Structure Templates (ArcReporting only)

    a. Allows a user to delete a notes structure template.

    b. Located as a child of the *Open Notes Structure Templates Page* right.

14. Open Notes Document Templates Page (ArcReporting only)

    a. Allows a user to open/edit a notes document template.

    b. The existing user right name was changed from *Open Note Document Templates*.

15. Delete Notes Document Templates (ArcReporting only)

    a. Allows a user to delete a notes document template.

    b. Located as a child of the *Open Notes Document Templates Page* right.

Process Changes

No changes to current processes are required.

3. Ability to batch print portfolio statements, financial statements and tabular data tables to Excel

Overview

Users need to review various statements contained in the Shareholder Report and often perform this review in Excel. FundSuiteArc now supports batch exporting of all statement data into Excel. The batch export feature is accessible from multiple areas of FundSuiteArc.

What's New

The menu section on the *Reporting Workspace* tab was updated to accommodate the export of statement data in Excel format.

1. The **Data Extract** menu section and its associated menu items were moved from the *Administration* tab to the *Reporting Workspace* tab and the menu section name was changed to *Production Utilities*.
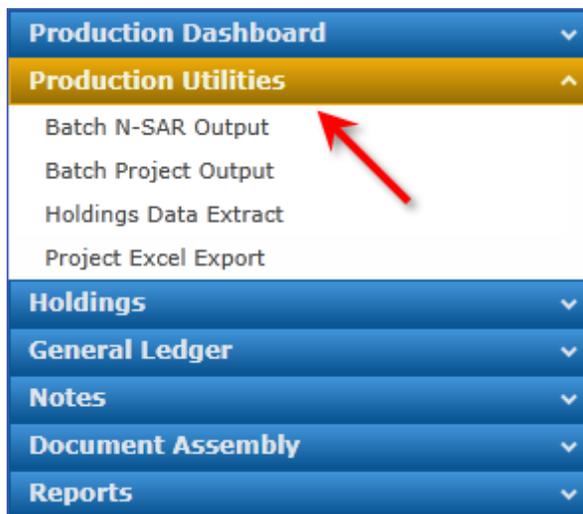
2. A *Project Excel Export* item was added to the **Production Utilities** menu section.
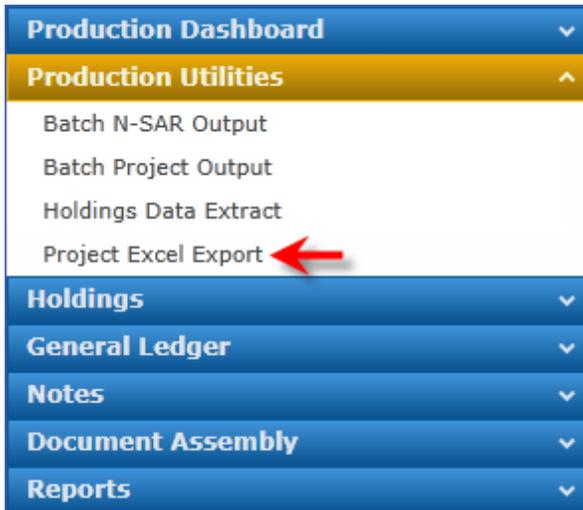
   a. Clicking the menu item opens the **Project Excel Export** page.

   b. **The Project Excel Export** page can also be opened by various means via the **Project** page:

      i. Right-clicking on any portfolio statement, financial statement or tabular data component on the **Project** page provides the user an *Export To Excel* context menu option. This option pre-selects the component that was right-clicked as the **The Project Excel Export** page opens so it alone can be exported. Once on the **The Project Excel Export** page, users may also select other statement components to print at the same time.

      ii. Selecting a table or portfolio or financial statement on the **Project** page and clicking the *Export multiple project items* button ( ) allows the user to export multiple project items.

      iii. Clicking the *Project Excel Export* link at the lower-right of the *Output Management* tab on the **Project** page allows the user to export all items from the particular project.

   c. The assignment of the *Open Project Excel Export Page (ArcReporting)* user right is required to open the **Project Excel Export** page.

      i. If the user right is not assigned to a user in the Platform Administration area, the menu item is disabled.

3. A **Project Excel Export** page was added to FundSuiteArc.

   a. The user can select the project and language for which data will be exported.

      i. The *Project* drop-down list contains projects specific to the account period and fund specified in the fund selection bar.

         A. Opening the page via the menu item in the **Production Utilities** menu section defaults the *Project* value to the first project listed in the drop-down list.

         B. Opening the page by clicking the link on the *Output Management* tab of the **Project** page defaults to the project being viewed.

      ii. The display of the *Language* drop-down list is dependent on the multi-language behavior set on the **Project Templates** page (ArcReporting).

         A. If the project template is set to *Separate Outputs for Each Language*, the *Language* drop-down list displays.

            1. The *Language* drop-down list contains languages assigned to the project template, listed in ascending order.

               a. Opening the page via the menu item in the **Production Utilities** menu section defaults the *Language* value to the first language listed in the drop-down list.

               b. Opening the page by clicking the link on the *Output Management* tab of the **Project** page defaults to the language being viewed.

         B. If the project template is set to *One Output Containing Multiple Languages*, the *Language* drop-down list does not display.

   b. After specifying the *Project* and *Language*, a grid on the page populates with data that is specific to the specified project and language.

      i. One row for each associated portfolio statement, financial statement and tabular data component displays in the grid.

      ii. The following information is contained in the grid:

         A. Item Name - Displays the name of the item as it appears in the tree view of the selected project.

B. Fund Code - Displays the fund code associated with the item and is dependent on the chapter behavior assigned in the document structure template.

1. *Common Content* or *No Repeat* - No fund code displays (as it is not specific to a fund).

2. *All Funds - Repeat* - The fund code specific to the item displays.

3. *All Funds - Single* - The text *multiple funds* displays.

C. Fund Name - Displays the fund name associated with the item and is dependent on the chapter behavior assigned in the document structure template.

1. *Common Content* or *No Repeat* - Fund name is blank (as it is not specific to a fund).

2. *All Funds - Repeat* - The fund name specific to the item displays.

3. *All Funds - Single* - The text *multiple funds* displays.

D. Type - Displays the type of project component (financial statement, portfolio statement or tabular data).

E. Chapter - Displays the name of the chapter and fund code and is dependent on the chapter behavior assigned in the document structure template.

1. *Common Content* or *No Repeat* - Only the chapter name displays (as it is not specific to a fund).

2. *All Funds - Repeat* - The chapter name and fund code specific to the item display.

3. *All Funds - Single* - The chapter name and the text *multiple funds* display.

F. Section - Displays the name of the project section and fund code and is dependent on the section behavior assigned in the document structure template.

1. *No Repeat* - Only the section name displays (as it is not specific to a fund).

2. *All Funds - Repeat* - The section name and fund code specific to the item display.

3. *All Funds - Single* - The section name and the text *multiple funds* display.

4. If the item only resides in a chapter (and not a section), the cell is blank.

c. Each project component row in the grid has an associated check box that allows the user to select which component(s) to output.

    i. Opening the page via the menu item in the **Production Utilities** menu section or by clicking the link on the *Output Management* tab of the **Project** page causes all check boxes to be cleared by default.

    ii. Opening the page by right-clicking a component in the project tree view or clicking the *Export multiple project items* button ( ) causes the check box(es) associated with the selected component(s) to be selected.

d. After selecting all appropriate components, clicking the *Generate output* button ( ) at lower-right of the **Project Excel Report** page sends the report request to the Output Queue.

    i. Once report processing is complete, the user can view the output document or save it to a local or network drive.

    ii. If no data exists for the selected project component(s), the resulting report is blank.

    iii. The Project Excel Report is only accessible through the Output Queue; it is not stored on the *Drafts* tab of the **Project** page.

Process Changes

No changes to current processes are required.

4. Output request performance improvements

Overview

FundSuiteArc document processing logic was enhanced to more quickly move output requests to the Output Queue.

What's New

1. A user can output multiple media types simultaneously from the **Project** page.

   a. If no issues exist that would prevent a request for output from being submitted, the following occurs once the *Generate Output* button is clicked.

      i. If one or more *Output Document Types* are selected:

         A. The following message displays as soon as the request is added to the Output Queue:

         "Output request submitted successfully. You may go to the Output Queue to check request status."

            1. Clicking the *OK* button closes the dialogue.

         > **Note:**
         > Only one such message displays, even when multiple output document types are selected for output.

      ii. If one or more *Output Blackline Types* are selected:

         A. The following message displays as soon as the blackline request is added to the Output Queue (*i.e.*, once the PDF request has completed processing and the resulting PDF is returned).

         "Blackline output request submitted successfully. You may go to the Output Queue to check request status."

            1. Clicking the *OK* button closes the dialogue.

         > **Note:**
         > Only one such message displays, even when multiple output blackline types are

selected for output.

2. The *Request Time* value in the Output Queue reflects the moment the request was added to the Output Queue.

Process Changes

No changes to current processes are required.

5.   Enhancements to Users page

Overview

The **Users** page in the Platform Administration area was enhanced to create a more controlled environment within FundSuiteArc, ensuring the security of user information.

What's New

1. The **Users** page now displays a new *Last Login* label.

a. The read-only text displays the data/time the currently-selected user last logged into FundSuiteArc.

   i. The date displays according to the regional/localization settings of the local workstation into which the current user (administrator) is logged.

b. The time is reflected according to the time zone settings of the local workstation into which the current user (administrator) is logged.

> **Example:**
>
> 1. The currently-selected user works in New York and last logged into FundSuiteArc at 8:00 pm EST on a given date.
>
>   a. An administrator in Boston viewing the user record would see a *Last Login* time of *8:00 pm* EST on that date (since the two users' time zones are the same).
>
>   b. An administrator in Los Angeles viewing the user record would see a *Last Login* time of *5:00 pm* on that date (since the two users' time zones differ by 3 hours).

2. The *Add/Edit/Delete all Users* user right had its caption changed to *Add/Edit All Users*.

    a. This user right is required to set values for the editable controls for new users or edit values for existing user on the **Users** page.

        i. The following controls are disabled if the right is not assigned to the current user.

            A. *User Name*, *First Name*, *Last Name*, *Title*, *Email*, *Phone Number* and *Password* fields.

            B. *System Administrator*, *Must Change Password*, *Disable User* and *This user is a manager* check boxes.

            C. All controls on the *Complexes*, *Roles*, *Rights*, *Business Units*, *Production Teams* and *Staff* tabs.

        ii. The *Add new record* button ( ) is disabled without the user right.

3. The *Delete All Users* user right was added (this user right was separated from the original *Add/Edit/Delete all Users* user right).

    a. This user right is required to enable the *Delete* button ( ).

4. The *Change User Passwords* user right is required in addition to the *Add/Edit All Users* user right to change the passwords of existing users.

    a. The *Password* text box is disabled if the right is not assigned to the current user.

        i. The password for a new user record can be set by an administrator without the *Change User Passwords* right.

        ii. An administrator with only the *Open Users Page* and *Changes User Passwords* rights can change the password of any existing user, but cannot edit any other properties of user records.

Process Changes

No changes to current processes are required.

6. Ability to add a default language to a complex

Overview

A *Default Language* field was added to the Complex level of the **Funds** page. Once the default language is specified on the **Funds** page, any newly-created templates or libraries automatically have that language added as their default, based on the complex with which they are associated.

What's New

1. A *Default Language* drop-down list was added to the **Funds** page (Complex level).

   a. Available selections include all languages contained in the Languages library.

   b. The default selection is *English (U.S.)* when adding a new complex on the **Funds** page.

2. The default language specified for a given complex is added to the *Languages* tab of the following pages (ArcReporting only), and therefore set as the default language when a new template or library record is created:

   a. Abbreviation Libraries (ArcReporting only)

   b. Category Libraries

   c. Financial Workbook Templates, *Financial Statement Templates* tab (ArcReporting only)

   d. Footnote Libraries - General Ledger (ArcReporting only)

   e. Footnote Libraries - Holdings

   f. Portfolio Statement Templates

   g. Project Templates

   h. Security Libraries

   i. Tabular Data Templates

   j. Text Libraries

Process Changes

No changes to current processes are required.

7. Holdings data import/dataload: Ability to increment numeric values

Overview

FundSuiteArc was enhanced to allow the loading of individual transactions and have FundSuiteArc add or subtract the value from the value that already exists. For example, if the fund has an as of trade that needs booked to the holdings, the user can load a file with the additional shares, cost and market value and the Holdings load adds or subtracts those values to/from the existing values. This functionality exists only for the Holdings FTP dataload and Holdings data import.

What's New

A new *Add to existing numeric values (values are overwritten when not selected)** check box option was added to the *Security Balance* tab of the **Holdings Import** dialogue and the **Holdings Load Options** page.

1. The check box is cleared by default when the tab is clicked/opened for both push-button data imports and FTP dataloads.

2. When the check box is cleared, the respective database values of certain numeric fields are overwritten with the value contained in the data source file for that field.

3. If the user selects this check box, the respective database values of certain numeric fields are increased/decreased by the amount contained in the data source file for that field.

   Note:

   The following is true only if the overwrite check box for any given security balance field is selected:

   1. Multiple adds to values for the same fund, account period, Master Identifier and balance instance from data in a single source file is supported.

   2. Data for multiple funds and account periods in a single file is supported.

4. Fields affected by the *Add to existing numeric values* check box being selected are as follows:

   Accrued Interest, *Base Currency Bought*, *Base Currency Sold*, *Bought*, *Cost*, *Exclude Capital Support Value*, *Include Capital Support Value*, *Local Cross Trade*, *Local Currency Bought*, *Local Currency Sold*, *Market Value*, *Market Value Ask*, *Market Value Bid*, *Notional Amount*, *Proceeds*,

Purchase Amount Base, *Purchase Amount Local*, *Purchase Cost*, *Shares*, *Sold*, *Sold Amount Base*, *Sold Amount Local*, *Unrealized Value*

Note:

The database values of all other fields whose check boxes are selected are overwritten by values in the data source file.

Example:

If the *Cost* value for a specific security was equal to *10* (assume the total value for *Cost* is *100*), and a user imports another file where the *Cost* value for that same security is equal to *20*; The total value for *Cost* in project preview and output is now *120*.

Process Changes

No changes to current processes are required.

8. Holdings data import/dataload: Option to ignore blanks during import

Overview

Prior to this enhancement if a blank value was provided in a Holdings import source file and the overwrite settings were set to *True*, any data in FundSuiteArc for that field was cleared. FundSuiteArc now allows the user to choose whether or not to ignore blanks or to update existing values with blanks during a fund holdings dataload (FTP) or Excel push-button data import.

What's New

An *Overwrite values with blanks* check box option was added to the *Security Captions* tab of the **Holdings Import** dialogue and the **Holdings Load Options** page.

1. The check box is cleared by default.

2. If a user selects the *Overwrite values with blanks* check box option, a blank value in the data source file overwrites existing security caption values in the database for any field whose corresponding *overwrite* check box is selected.

3. If the *Overwrite values with blanks* check box is cleared, blank values that may exist in the data source file do not overwrite existing values in the database for any fields whose corresponding *overwrite* check box is selected.

Process Changes

The user should verify the state of the *Overwrite values with blanks* check box on the **Holdings Load Options** page prior to performing an FTP dataload to ensure it is set to meet his/her needs.

9. Holdings data import: Ability for multiple users to import simultaneously

Overview

Previously, only a single file could be in the Holdings data import/dataload process and other load requests were forced to wait until the existing load was completed to begin. This limitation was removed. FundSuiteArc now allows multiple users to import fund holdings data without conflict.

What's New

1. **Holdings Import dialogue**

   a. **"Process" tab**

      i. The *Process* button is no longer disabled if a load batch exists with a status of *In Process* at the time the *Import data* button is clicked.

      > **Note:**
      >
      > Data that was loaded for preview purposes on the **Holdings Import** dialogue, but was not accepted or rejected before the dialogue was closed, must be subsequently accept/rejected via the **Holdings Load Preview** page.

   b. Logic was updated to allow a batch's status to be set as *Accepted*, even if other batches are in process at that time; data for the current load operation is moved to the production database when it reaches the front of the processing queue.

2. **Holdings Load Preview page**

   a. A new *Dataload Batch* drop-down list was added.

      i. Available selections include all load batches that have a status of *Awaiting Processing* (*i.e.*, that have not yet been either accepted or rejected).

         A. Each selection in the drop-down list reflects the date and time a given load batch was created, displayed in *mm/dd/yyyy hh:mm:ss AM/PM* format.

B. Selections are sorted by dataload batch creation date/time, ascending (*i.e.*, the oldest submission first).

ii. When a dataload batch selection is made, the grid on the page refreshes to display information pertaining to the selected batch.

3. **Archive page**

a. A new *Submitter* column was added to the grid on the page.

i. The user can sort and filter grid contents by this column.

ii. The value in the column refers to the user that submitted the load request.

A. The user's name displays *Last Name, First Name*.

B. If the load was submitted via FTP, the value displayed is *N/A*.

b. An *Export data* button was added to the *Search Results* grid.

i. The user can save the file in XML, DOC, CSV, HTM or TXT format.

Process Changes

In some cases, the user may be forced to try a given data import again if another user edited/imported similar data and caused a collision.

10. Class Information data import/dataload enhancements

Overview

The goal of this functionality is to allow users to load Class Information data with a source file that only contains the fields the user wants to update. Similar to the Holdings data import/dataload, only the required fields must be present in the file and the fields can be in any order.

What's New

1. Fields in the Class Balance source file now can be in any order which suits the user's needs.

2. When a user clicks the *Get Import Template* button (▤) on the *Class Balances* tab of the **Financial Workbook** page, the Excel template file that the user receives now has the following characteristics:

    a. The template has a file extension of *XLSX* (in previous versions, the file's extension was *XLS*).

    b. The following required fields are located in the leftmost columns of the file and have an identifying green background color:

        i. AccountPeriodEnd

        ii. FundCode

        iii. ClassName

    c. The remaining (non-required) fields are listed in alphabetical order at right of the required fields.

        i. If no data is loaded for any given non-required data point, the corresponding fields may be left blank in the source file, or the column may be omitted altogether.

Process Changes

Users must use the new XLSX file format for push-button data imports.

11. Category Captions data import enhancements

Overview

The Category Captions push-button data import was enhanced to support a maximum of 1024 characters in the *CategoryCode* field.

What's New

The *CategoryCode* column of the data import source file now supports up to 1024 characters (including commas), with 32 characters allowed per code in the comma-delimited list.

> **Note:**
> FundSuiteArc now supports this logic when a user imports categories to the libraries, as well.

Process Changes

No changes to current processes are required.

12. Ability to export/import/copy project templates

Overview

The goal of this feature is to allow users to copy or import existing project templates to create new templates. A project template can be exported to a file of XML format, saved to a local or network drive and then imported (into the same or a different database) to create a new project template. This functionality mimics that of the current export/import/copy functionality for financial workbook templates and portfolio statement templates.

What's New

1. An *Export project template* button ( ) was added to the **Project Templates** page.

    a. Clicking this button submits a request to the Output Queue to produce an XML file containing information associated with the current template.

        i. The Output Queue *Type* for the request is *Project Template Export (XML)*.

        ii. The Output Queue *For* value for the request is the name of the current project template.

2. When a user clicks the existing *Add* button ( ) on the **Project Templates** page, a new **Create Project Template** dialogue displays and presents several options for creating a new template.

a. Template-creation options are as follows:

    i. Blank Template

        A. Default selection.

        B. When the user selects and accepts this option, FundSuiteArc creates a new, blank template.

    ii. Copy Existing Template

        A. Selecting this option allows the user to specify an existing project template to copy, and the complex with which the new template will be associated.

iii. Import

A. Selecting this option allows the user specify a source file containing the properties/settings of an existing project template to copy, and the complex with which the new template will be associated.

1. Clicking the *Source File* field's *Browse* button (🔲) causes the Windows **Open** dialogue to display, through which a file of type *XML* is selected.

b. Clicking the *Accept* button (✅) closes the dialogue and creates the new (unsaved) project template.

i. If the user selects the *Blank Template* option, a new (unsaved) statement template is created.

ii. If the user selects the *Copy Existing Template* option, a new statement template is created based on the specified template.

A. The *Template Name* value of the newly-created project template follows the same format of the template that was copied.

iii. If the user selects the *Import* option, the following actions can occur:

A. If some issue exists for the selected file (*e.g.*, invalid XML code, etc.), the **Create Project Template** dialogue closes, and a message displays to indicate the issue.

B. If the specified data source file was created using another FundSuiteArc product than the one currently in use (*i.e.*, if ArcReporting is in use and the file was created by exporting an ArcFiling template, or vice versa), the following message displays:

"The selected source file was produced using a different FundSuiteArc product than the one into which you are attempting to import. Please select a compatible file for import, and retry."

C. If neither of the aforementioned issues occurs, a new statement template is created based on data in the specified source file.

1. The *Template Name* value of the newly-created project template follows the same format of the imported template.

c. When a new project template is created by copying or importing an existing template, all settings from the various tabs of the source project template are transferred to the new template, unless specified otherwise below.

    i. **"Reporting" tab**

        A. Fiscal Year Ending

        B. Cycles

        C. Prelims

    ii. **"Settings" tab**

        A. Assignment and Production Schedule

        B. Financial Workbook

            1. If the user specified the same source and target complex:

                a. FundSuiteArc assigns the same document structure from the source project template to the target project template.

            2. If the user specified different source and target complexes:

                a. If the target complex has a financial workbook of the same name as the source complex, FundSuiteArc assigns the financial workbook.

                b. If the target complex does not have a financial workbook of the same name as the source complex, FundSuiteArc does not create a copy of the financial workbook; the user must manually create a copy of the financial workbook and assign it to the newly-created project template.

        C. Document Structure Template

            1. If the user specified the same source and target complex:

                a. FundSuiteArc assigns the same document structure from the source template to the target project template.

2. If the user specified different source and target complexes:

   a. The combination of document structure template name and code are used to determine a match.

      i. If the source document structure template matches the target document structure template, FundSuiteArc assigns it to newly-created project template.

      ii. If the source document structure template does not match any target document structure template, FundSuiteArc creates a new document structure for the target complex (mimicking the source document structure template).

iii. **"Funds" tab**

   A. No funds will be carried over to the newly-created project template in the *Funds using this template* list box.

   B. Funds listed in the *Available Funds* list box will be all the funds in the target complex, based on the fiscal year end assignment on the *Reporting* tab and financial workbook assignment on the *Settings* tab.

   > **Note:**
   > The user must drag the funds from the *Available Funds* list box to the *Funds using this template* list box.

iv. **"Contents" tab**

   A. Reporting Cycle

      1. Cycles displayed in the new template correspond to those selected on the *Reporting* tab.

   B. Document Structure

      1. The structure displayed corresponds to the document structure template(s) defined on the *Settings* tab.

C. Assignments

1. All assignments match source template assignment names to the target complex.

a. When importing a template:

i. All items (*e.g.*, images, charts, financial and portfolio statements, tables, etc.) assigned in source template are not assigned for the newly-created project template in the target complex.

> **Note:**
> Whether or not the target complex is the same as the source complex, the assignments in the new template are always cleared.

b. When copying a template:

i. If the source complex is the same as the target complex, all items (*e.g.*, images, charts, financial and portfolio statements, tables, etc.) are assigned for the newly-created project template.

ii. If the target complex is different from the source complex, then no items are assigned for the newly-created project template.

2. Item Detail

a. All data from the assigned document structure template displays.

v. **"Output Management" tab**

A. Project Code

1. FundSuiteArc does not copy project code; the user must supply the code.

B. Output Selections

1. FundSuiteArc selects the same output options from the source template in the newly-created project template.

2. FundSuiteArc does not assign style sheets; the user must assign style sheets.

   a. Available style sheets only display if style sheets exist for the complex of the newly-created project template.

vi. **"Administration" tab**

   A. If a template is imported/copied from one complex to another, the user must add the appropriate account period(s) via the **Fund Report Settings** page and push the settings out.

vii. **"Production Procedures" tab**

   A. Exporting project templates does not export associated production procedures; the user must add the procedure(s) manually to the newly-created project template.

d. Once the template is successfully copied/imported, FundSuiteArc saves the template automatically.

Process Changes

No changes to current processes are required.

13. Support for Internet Explorer 9 and 10; Windows 7 and 8

Overview

FundSuiteArc now supports the use of Internet Explorer 9 and Internet Explorer 10 web browsers and the Windows 7 and Windows 8 operating systems.

Process Changes

The Internet Explorer 7 web browser will not be actively supported going forward. FundSuiteArc can be accessed using Internet Explorer 7; however the recommended minimum requirement is now Internet Explorer 8.

14. Ability to view other funds that hold same security: Global Holdings Review

Overview

Users can now easily view any given security record that is held in other funds and complexes within an environment by means of a new **Global Holdings Review** page.

What's New

A new *Global Holdings Review* menu item was added to the **Reports** menu section.

Note:

The *Open Global Holdings Review Page (ArcReporting)* user right is required to open the **Global Holdings Review** page (this menu item is disabled if the right is not assigned to the current user).

The **Global Holdings Review** page allows users to specify criteria and generate results for all securities that meet those criteria.
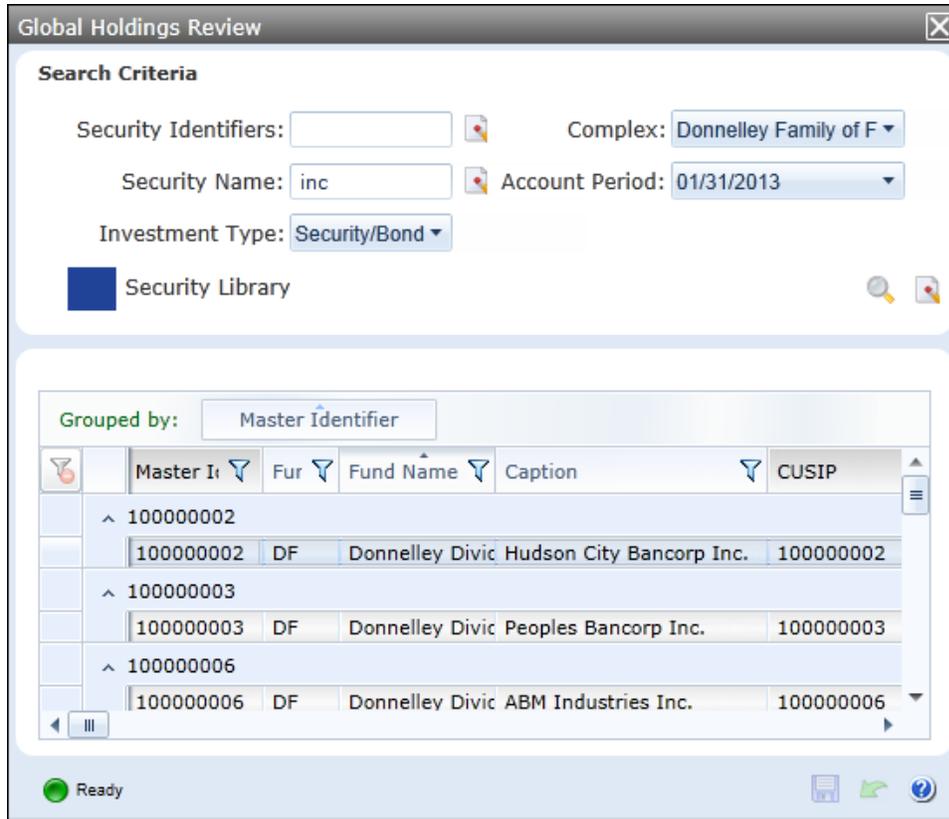
1. Available *Search Criteria* fields are as follows:

   a. **Security Identifiers**

      i. A text box is provided, into which a string may be entered.

      ii. When the page is first opened, the default value is blank.

      iii. The string represents a value for the query, which looks across all security identifier fields on the **Fund Holdings** page:

      Master Identifier, *CUSIP*, *SEDOL*, *ISIN*, *Werkpapier*, *Valoren* and *Custom Identifier*

      iv. An associated *Clear Selection* button ( ) clears the value in the field when clicked.

b. **Security Name**

    i. A text box is provided, into which a string may be entered.

    ii. When the page is first opened, the default value is blank.

    iii. This query searches the *Security Name* field, as stored via the **Security/Investment Master** page.

    iv. An associated *Clear Selection* button ( ) clears the value in the field when clicked.

> **Note:**
>
> This search can work in conjunction with a search using the *Security Identifiers* field.
>
> A search term is required for this field or the *Security Identifiers* field in order to run a report.

c. **Investment Type**

    i. A drop-down list is provided, with the following available selections:

        A. <All>

           1. Default selection when the page is opened.

        B. Contract for Difference

        C. Forward

        D. Fund

        E. Future

        F. Option

        G. Other

        H. Repurchase Agreement

        I. Reverse Repurchase

        J. Security/Bond

        K. Swap

        L.   Swaption

        M. Warrant

  d. **Complex**

      i. A drop-down list is provided, with the following available selections:

          A. <All>

             1. This selection allows searching across all complexes to which the current user has access.

          B. <All other complexes to which the current user has access, in ascending alphabetical order by complex name>

      ii. When this page is first opened, the default drop-down list selection is the complex specified in the fund selection bar at that time.

> **Note:**
> If the user changes the complex in the fund selection bar while on this page, the complex selected in this drop-down does not change (the user must change it manually).

  e. **Account Period**

      i. A drop-down list is provided, with the following available selections:

          A. <All>

          B. <All open account periods>

          C. <All account periods that exist in the database, in descending order by date>

      ii. When the page is first opened, the default drop-down list selection is the account period specified in the fund selection bar at that time.

> **Note:**
> If the user changes the complex in the fund selection bar while on this page, the account period selected in this drop-down does not change (the user must change it manually).

2. A legend displays at the lower-left of the *Search Criteria* pane, which serves to identify the columns in the search results grid (the library from which each column's data is derived).

3. A *Search* button (🔍) displays at lower-right of the *Search Criteria* pane.

    a. Database results display in the grid when this button is clicked.

4. A *Clear Search Criteria* button (🔍) displays at the far lower-right of the *Search Criteria* pane.

    a. When a user clicks this button, any values which were populated by the user in any of the clearable *Search Criteria* fields (those that have their own *Clear Selection* button (🔍)) are cleared.

5. A results grid displays in the lower portion of the page.

    a. The results returned include data that matches the specified criteria and is associated with the fund(s) to which the current user has access.

        i. For every security returned, every instance of the security held across all funds displays; results are not filtered to show just one instance per security library.

            A. The value of most fields in the grid is editable by the user.

                1. Changes to field values are reflected on the **Fund Holdings** page for the affected fund/account period.

            B. The grid contains the following fields:

                1. Fund Code

                2. Fund Name

                3. Account Period

                4. Security Library

                5. Language

                6. <All *Identifier* type fields from Security/Investment Master (except Security Master *Name* field)

                7. <All Security Library fields>

                8. <All Security Balance fields>

        ii. Results in the grid are grouped by *Master Identifier*.

        iii. Results are sorted by *Fund Name*, then by *Balance Instance*.

iv. A user can group, sort and/or filter results by any chosen field.

    A. A ***Clear all filters*** button (🔻) displays in the upper-left corner of the grid, which can be use to reset any column filters set by the user.

Process Changes

No changes to current processes are required.

15. Holdings data import/dataload: Additional description fields

Overview

The number of *Description* fields available for use with fund holdings data in FundSuiteArc was increased.

What's New

The *Description 11*, *Description 12*, *Description 13*, *Description 14*, *Description 15*, *Description 16*, *Description 17*, *Description 18*, *Description 19* and *Description 20* fields were added to FundSuiteArc for use in various areas.

1. The fields appear as columns in the grid on the *Holdings* tab of the **Fund Holdings** page.

2. The fields can now be mapped from the *Data Points* column to the grid on the **Portfolio Statement Template Output Settings** page.

3. The fields were added to the Excel source file template for the Holdings data import and can be populated in source files for either the push-button data import or the FTP dataload.

   > **Note:**
   >
   > The new fields appear as *Description 11*, *Description 12*, etc. in all areas of the user interface enumerated here, but as *SecurityBalanceDescription11*, *SecurityBalanceDescription12*, etc. in the Excel or tab-delimited text data source files.

4. The fields were added to the *Security Balance* tab of the **Holdings Import** dialogue and the **Holdings Load Options** page.

5. Formulas for calculation sheet items of type *Holdings* can now reference the new fields.

Process Changes

No changes to current processes are required.

16. More rows supported in tabular data output settings

Overview

Tabular data templates in FundSuiteArc now support significantly more rows for data entry.

What's New

1. The maximum number of rows that can be specified on the **Tabular Data Templates** page was increased from *50* to *500*.

2. A user can add data to table structures with up to 500 rows on the **Tabular Data Template Output Settings** page.

Process Changes

No changes to current processes are required.

17. New Securities Report

Overview

A New Securities Report was added to FundSuiteArc to alert users when new securities are added to a given security library. The report can be run for a single account period across one or more complexes, one or more fund groups, or one or more funds.

What's New

1. A *New Securities Report* menu item was added to the **Reports** menu section on the *Reporting Workspace* tab.
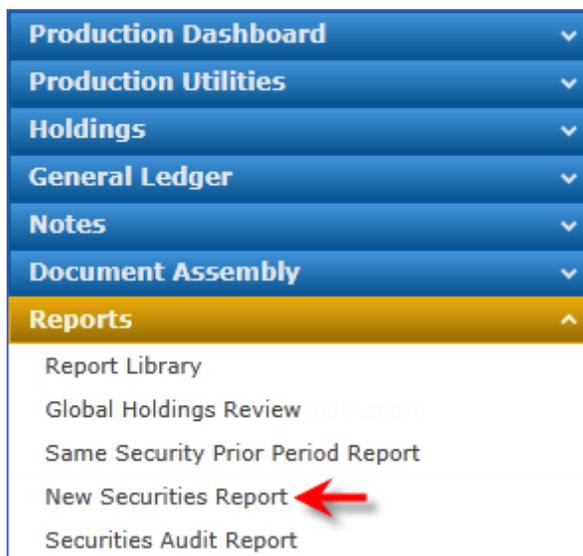
a. The *Open New Securities Report Page (ArcReporting)* user right must be assigned to a user in order to open the **New Securities Report** page (the *New Securities Report* menu item is disabled if the current user does not have the required right).

2. The **New Securities Report** page was added to FundSuiteArc.
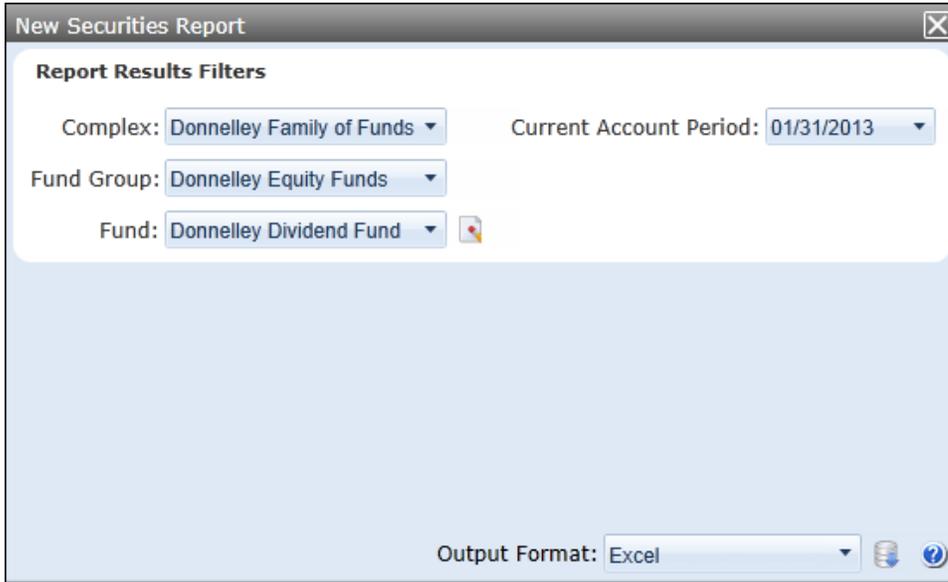
a. The report returns a list of securities that are "new" to one or more security libraries for a specified complex/fund group/fund in a given account period.

    i. A security is considered new (*New Security* field = *True*) if the security has never been held by the security library used by the specified fund (or *All Funds* or *All Fund Groups*) for an account period prior to the one(s) being viewed.

> **Note:**
>
> 1. Since all funds displayed in report output must use the same library, the *New Security* field displays the same value regardless of the fund selection bar setting (*i.e.*, a specific fund, *All Funds* or *All Fund Groups*).
>
> 2. If the security is loaded in a subsequent period, the *New Security* field only shows a *True* result in the oldest account period in which it was held.

    A. Every security will be a "New Security" the first time holdings are loaded to a new security library.

b. The *Report Results Filters* section of the page contains the following fields, whose selections filter the results of the report (the value of certain fields are defaulted to the selections made in the fund selection bar when the page is opened):

   i. Complex

      A. The complex specified in the fund selection bar at the time the page is opened is selected by default.

      B. Available selections are as follows:

         1. <All complexes to which the current user has access, listed alphabetically by complex name>

      C. Users must select a complex in order to generate a report.

   ii. Fund Group

      A. Available selections are as follows:

         1. [None]

         2. <All fund groups associated with the specified complex, listed alphabetically by fund group name>

      B. If the value of the *Complex* drop-down list is changed by the user, the *Fund Group* drop-down list will be updated to reflect selections that are associated with the newly-selected complex.

   iii. Fund

      A. Available selections are as follows:

         1. [None]

         2. <All funds associated with the specified fund group, listed alphabetically by fund name>

      B. If the value of the *Fund Group* drop-down list is changed by the user, the *Fund* drop-down list updates to reflect selections that are associated with the newly-selected fund group.

iv. ***Clear Selection*** button (🔍)

    A. Clicking this button sets the ***Complex***, ***Fund Group*** and ***Fund*** drop-down list selections to *[None]*.

v. Current Account Period

    A. Available selections include all account periods in the current environment, listed in descending order by year, then by month, then by day.

vi. Output Format

    A. Available selections are as follows:

        1. Excel (default selection)

        2. PDF

        3. Word

    B. A ***Generate Output*** button (🔵) displays next to the drop-down list.

        1. If all requirements to render a report are satisfied, clicking the button sends a request for report output to the Output Queue.

        2. The ***Type*** value in the Output Queue displays the format selected on the **New Securities Report** page (*i.e.*, Excel, PDF or Word).

        3. The ***For*** value for the output is *New Securities Report*.

4. The report the user obtains holds the following information (Excel output is shown in the example below):

a. Header Section:

    i. Report Date

    ii. Generated By

       A. Displays the *Username* value of the user who generated the report.

    iii. Complex

    iv. Fund Group

    v. Fund

    vi. Account Period

b. Data Section:

    i. Master Identifier

    ii. Security Caption

        A. Reflects the value stored in the security library.

    iii. Fund List

        A. Displays a list of funds that currently hold a given security.

> **Note:**
> If the list of fund names exceeds 1024 characters, the string "List of fund name too long to display" is returned.

    iv. Library Name

        A. Returns the *Library Name* value of the security library in which the security resides.

> **Note:**
> A given security (Master Identifier) may appear more than once in the report if it is new to two or more security libraries.

Additional Information

- The *Complex*, *Fund Group*, *Fund* and *Account Period* specified in the fund selection bar at the time the **New Securities Report** page is opened are the default values for those respective report filter fields.

- If the user changes the *Complex*, *Fund Group*, *Fund* and/or *Account Period* selections in the fund selection bar, the report result filter field values on the **New Securities Report** page do not update to reflect the new selection(s) in the fund selection bar; the user must update the report result filters manually.

Process Changes

No changes to current processes are required.

18. Class Information data import/dataload: Additional fields

Overview

New fields were added to the Class Information push-button data import/FTP dataload source files. These fields are also displayed/supported on the **Financial Workbook** page and the *Financial Statement Templates* tab of the **Financial Workbook Templates** page.

What's New

1. The following 65 fields were added to the Class Information data import/dataload source files:

   Average Shares Outstanding, *High NAV*, *Low NAV*, *Net Investment Income Per Share*, *Realized Gains Distribution Per Share (short term)*, *Redemption Fees Per Share*, *Bid Price*, *Share Price*, *Billable Accounts*, *Portfolio Change Date*, *Total Return 1 Month Include Sales Charge*, *Total Return 3 Month Include Sales Charge*, *Total Return 6 Month Include Sales Charge*, *Total Return 9 Month Include Sales Charge*, *Total Return 1 Year Annualized Include Sales Charge*, *Total Return 2 Year Annualized Include Sales Charge*, …, *Total Return 10 Year Annualized Include Sales Charge*, *Total Return Since Inception Annualized Include Sales Charge*, *Tax Rate*, *Thirty Day Yield*, *Taxable Yield (or Equivalent)*, *Seven Day Net Annualized Yield*, *Taxable Rate (or Equivalent)*, *Distribution Rate*, *Distributions Q1 Value*, …, *Distribution Q4 Value*, *Year End Distribution Value*, *Distributions Q1 CPU*, …, *Distributions Q4 CPU*, *Year End Distributions CPU*, *Reinvestments Q1*, …, *Reinvestments Q4*, *Year End Reinvestment*, *Class Field 1*, …, *Class Field 10*, *Management Fees Rate*, *Custody Fee Rate*, *Management Fees*, *Other Expenses (excluding Management Fees)*, *Distribution Charged*, *Distribution Charged*, *Distribution Paid*, *Average NAV*, *Expense Ratio 2*, *Expense Cap*

   a. Users can view values of all new fields on the **Class Information Import** dialogue.

2. All 65 new fields now display on the *Class Balances* tab of the **Financial Workbook** page.

   a. All fields are editable.

   b. FundSuiteArc supports the import/load of these fields.

3. All 65 new fields are supported on the *Calculation Sheets* sub-tab of the *Financial Statement Templates* tab on the **Financial Workbook Templates** page.

Process Changes

No changes to current processes are required.

19. Ability to specify multiple conditions for a "Conditional Value" data point in a text library snippet

Overview

Enhancements were made to existing conditional text mapping via the **Text Libraries** page to allow for multiple conditions within a text snippet. A user can now specify up to 10 conditions.

What's New

The single expression controls were removed from the *Formula* area of the **Insert Data Point** dialogue and replaced with a grid to allow the definition of up to 10 conditional expressions.

1. When a user clicks the *Add* button at lower-left of the grid, a new **Add Conditional Formula Element** dialogue displays.

Add Conditional Formula Element

Data Point

*Name   Acct. Period Type is Annual

*Required

Formula

If: Account Period Type

Operator: equal to

Value: Annual

Return Type: True

Return Value: 365
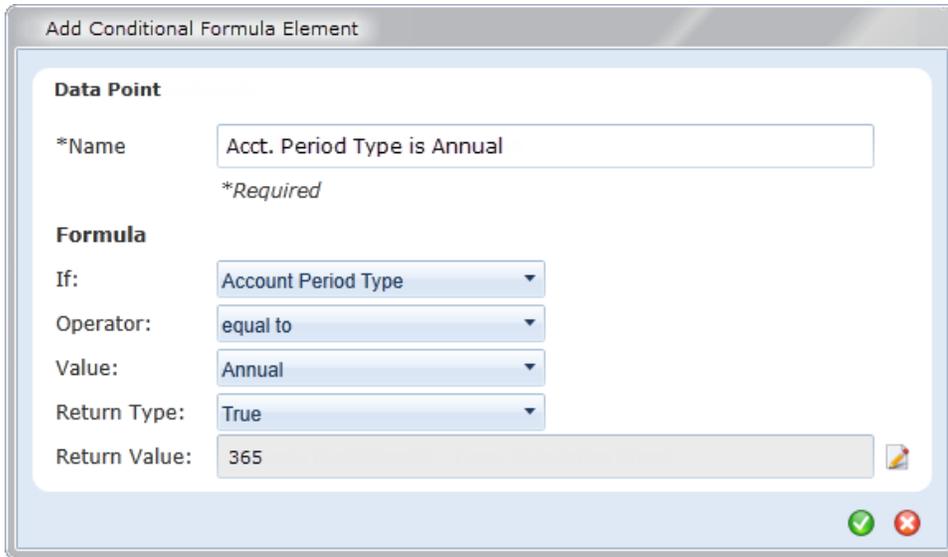
2. Once formula element settings are specified and the *Accept* button is clicked, the following information displays in the *Formula* grid of the **Insert Data Point** dialogue:

    a. Element

       i. Displays the *Name* value specified for the grid item via the **Add Conditional Formula Element** dialogue.

    b. Type

       i. Always displays the term *Conditional Value* for all grid items.

    c. Return Type

       i. Displays the *Return Type* value specified for the grid item via the **Add Conditional Formula Element** dialogue.

> **Note:**
> A user can choose the following values in this field via the **Add Conditional Formula Element** dialogue:
>
>   1. And
>
>   2. True

d. Return Value

i. Displays the *Return Value* value specified for the grid item via the **Add Conditional Formula Element** dialogue when the *Return Type* value specified is *True*.

Note:

The following conditions must be met when creating a formula for data points of type *Conditional Value*:

1. The last element/row of the formula grid must have a *Return Type* of *True*.

2. The a value must be specified for the *Return Value if no conditions are met* field.

Process Changes

No changes to current processes are required.

20. Additional output style user controls

Overview

User controls affecting the output style of text snippets were enhanced within FundSuiteArc. These updates can be seen in the text editor of the **Text Libraries** page, **Footnote Libraries - General Ledger** page and **Footnote Libraries - Holdings** page.

What's New

The following functionality was added to the text editor:

1. *Font Size* drop-down list

   a. A user can now adjust the font size of the text within a text snippet by using the new *Font Size* drop-down list.

      i. Available selections are as follows:

         5, *6*, *7*, *8*, *9* (default), *10*, *11*, *12*, *14*, *16*, *18*, *20*, *22*, *24*, *26*, *28*, *36*, *48*, *72*

      ii. When a font point is size is specified, the selected text displays in that size in the text editing pane and in output, superseding previous template settings.

2. *Clear font size* button (I_x)

   a. A user can click the button to cause any font size specification to be removed from the selected text. The selected text displays in the text editing pane in the default text editor font size (9 pt).

3. Page Break display

   a. When the *Toggle Format Symbols* button is selected, any page breaks that exist in the current text snippet are represented by a dotted line with the term *Page Break* in the middle (see example below).
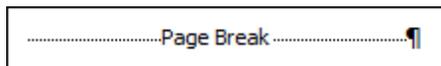
4. Horizontal Alignment

    a. The following buttons are associated with horizontal alignment.

        i. Align Text Left (▤)

            A. The user can either place the cursor somewhere within a single paragraph or highlight some amount of text within a single paragraph or multiple paragraphs and click the button to left-align the paragraph(s) in which the text is contained.

            B. Whenever the cursor is placed anywhere within a given paragraph that is left-aligned, the *Align Text Left* button appears "selected".

            C. The paragraph text appears left-aligned in the text editing page and in the **Project** page preview.

        ii. Center (▤)

            A. The user can either place the cursor somewhere within a single paragraph or highlight some amount of text within a single paragraph or multiple paragraphs and click the button to center-align the paragraph(s) in which the text is contained.

            B. Whenever the cursor is placed anywhere within a given paragraph that is center-aligned, the *Center* button appears "selected".

            C. The paragraph text appears center-aligned in the text editing page and in the **Project** page preview.

        iii. Align Text Right (▤)

            A. The user can either place the cursor somewhere within a single paragraph or highlight some amount of text within a single paragraph or multiple paragraphs and click the button to right-align the paragraph(s) in which the text is contained.

            B. Whenever the cursor is placed anywhere within a given paragraph that is right-aligned, the *Align Text Right* button appears "selected".

            C. The paragraph text appears right-aligned in the text editing page and in the **Project** page preview.

iv. Justify Text (▤)

A. The user can either place the cursor somewhere within a single paragraph or highlight some amount of text within a single paragraph or multiple paragraphs and click the button to justify the paragraph(s) in which the text is contained.

B. Whenever the cursor is placed anywhere within a given paragraph that is justified, the *Justify* button appears "selected".

C. The paragraph text appears justified in the text editing page and in the **Project** page preview.

5. *Keep lines together* button (▤)

a. The user can either highlight some amount of text within a paragraph, or simply place the cursor somewhere within a paragraph, and select the *Keep lines together* option.

b. Selecting this button prevents a page break from occurring within the lines of the current paragraph in output.

> **Note:**
> This setting does not impact the display of content in the text editing pane or in project preview; only output.

c. If a paragraph is set as *Keep lines together*, the button appears "selected" whenever the cursor is placed anywhere within the paragraph.

d. When the *Toggle Format Symbols* button is selected, the *Keep lines together* setting is denoted in the text editing pane with a square bullet at left of all impacted paragraphs (see example below).

▪ Expenses:¶

▪ The·Fund·allocates·expenses...¶
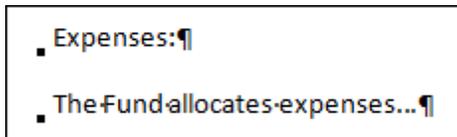
6. *Line Spacing* drop-down list

a. Available selections are as follows:

None (default), *1*, *2*, *3*, *4*,…, *12*

b. The line spacing selections represent "points per inch".

c. If the line spacing is set to anything other than *None*, the spacing setting supersedes the previous template settings in project output.

> **Note:**
> This setting does not impact the display of content in the text editing pane or in project preview; only in output.

7. Non-breaking Hyphen

   a. A user can insert a non-breaking hyphen in the text snippet by striking `<Ctrl>` + `<Shift>` + `Hyphen` on the keyboard.

   b. When the ***Toggle Format Symbols*** button is selected, the character is represented by a double-length hyphen (--) in the text editing pane.

> **Note:**
> The insertion of a non-breaking hyphen does not impact the display of content in the text editing pane or in project preview; only in output.

8. Non-breaking Space

   a. A user can insert a non-breaking space in the text snippet by striking `<Ctrl>` + `<Shift>` + `Space` on the keyboard.

   b. When the ***Toggle Format Symbols*** button is selected, the character is represented by a degree symbol (°) in the text editing pane.

> **Note:**
> The insertion of a non-breaking space does not impact the display of content in the text editing pane or in project preview; only output.

Process Changes

No changes to current processes are required.

21. Upgrade to Silverlight 5

Overview

FundSuiteArc was upgraded to use Silverlight 5 in order to support Windows 7 and 8 and Internet Explorer 9 and 10.

What's New

In order to run FundSuiteArc version 1.9.0, the user must download and install Silverlight 5 or higher. When attempting to first log into a FundSuiteArc environment at version 1.9.0, the application verifies that the Silverlight browser plug-in is up-to-date and if not, begins the download and install process.

Note:

Typically, only a user with administrative rights to his/her workstation may install browser plug-ins and this may require support from their local IT personnel.

Process Changes

Users must have Silverlight 5 installed to begin using FundSuiteArc version 1.9.0.

22. Ability to load and display multiple fund holdings balance sets for a fund/account period

Overview

A user can now load holdings multiple times for the same fund and account period. In these cases the security library and category library information is the same, but the security balance information (*e.g.*, Cost, Shares, Market Value, etc.) is different. A user can view and adjust both sets of data on the **Fund Holdings** page and create projects for each set.

What's New

1. A new *Balance Types* menu item was added to the existing **Settings** menu section in the Platform Administration area.
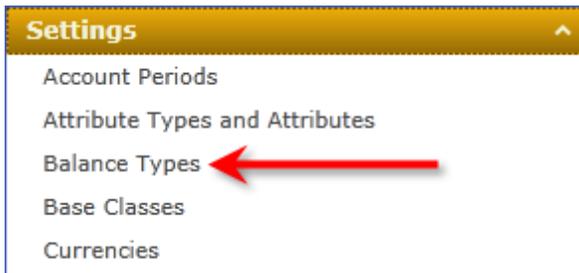
   a. The new *Open Balance Types Page* user right is required to open the **Balance Types** page; the *Balance Types* menu item is disabled if the right is not assigned to the current user.

b. When this item is clicked, the **Balance Types** page displays.
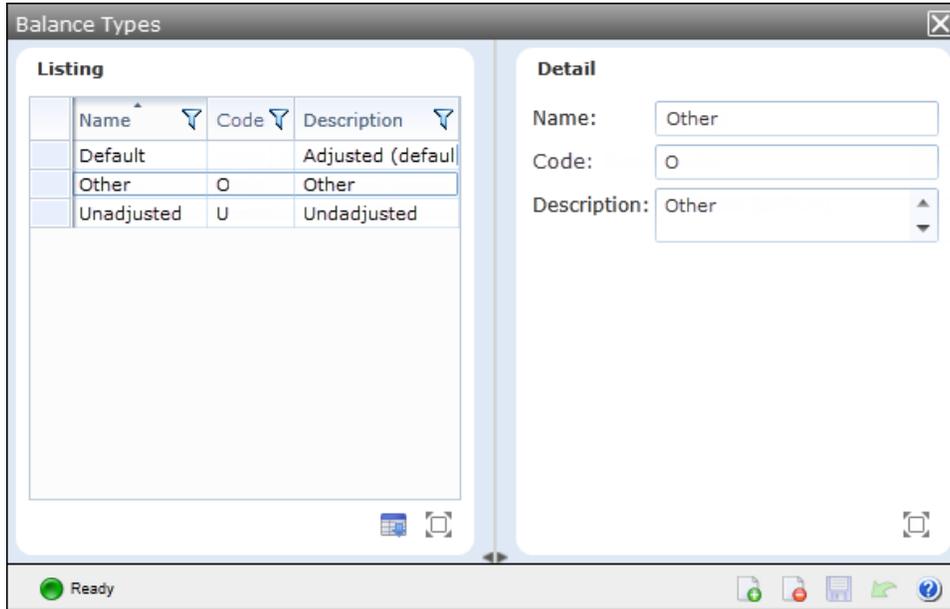
i. An *Add* button (🔘) displays at lower-right of the page.

   A. The new *Add/Edit/Delete Balance Types* user right is required to click this button; the button is disabled if the right is not assigned to the current user.

   B. Clicking this button adds a new record to the library. Details of the new balance type are provided via the controls in the *Detail* pane at right of the page.

ii. A *Delete* button (🔘) displays at the lower-right of the page.

   A. The new *Add/Edit/Delete Balance Types* user right is required to click this button; the button is disabled if the right is not assigned to the current user.

   B. Clicking this button deletes the currently-selected balance type record from the database.

2. A new *BalanceTypeCode* field was added to the Holdings data import Excel template.

   a. If a value is provided for the field in the import file, it is considered valid if it matches the *Code* value of any balance type that exists in the database and the data in the row is loaded to that balance type.

    i. If no value is provided in the import file, the value of *Default* is loaded for the balance type and no warnings or errors are logged.

    ii. If an invalid value is provided in the import file, the record is rejected (not loaded) and an error message is logged to indicate the failure of data for that row to load.

3. A new *Balance Type* drop-down list was added to the *Holdings Selection* section of the **Fund Holdings** page.
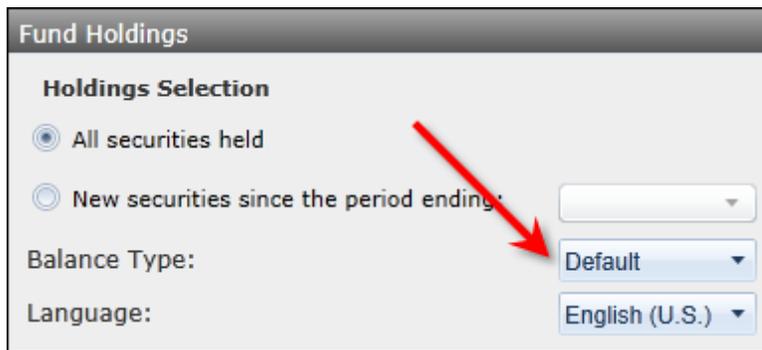
a. Available selections include all balance types that exist in the database, in ascending alphabetical order.

    i. The *Name* values of balance types display as selections in the drop-down list.

b. Data associated with the selected balance type display in the grid of the *Holdings* tab.

    i. If data for only one balance type loads for the specified fund and account period, then that balance type is selected by default when the **Fund Holdings** page opens.

    ii. If data loads for more than one balance type for the specified fund and account period, no balance type is selected in the drop-down list; the user must select one of the available balance types in the drop-down list.

    iii. Any changes made pertaining to library information (*i.e.*, Security Libraries, Category Libraries, Issuer Libraries) are reflected for all funds/balance types for the corresponding account period and library.

> **Examples:**
> 1. A footnote field attached via a link (*e.g.*, Non-Income) is based on the security library and is synced.

> 2. Footnotes that are manually attached are specific to the account period and balance type and are not synced.

    c. The drop-down list is disabled when the **Fund Holdings** page is in an unsaved state (preventing any change of the selection by the user).

4. A new *Balance Type* drop-down list displays on the *Reporting* tab of the **Project Templates** page.
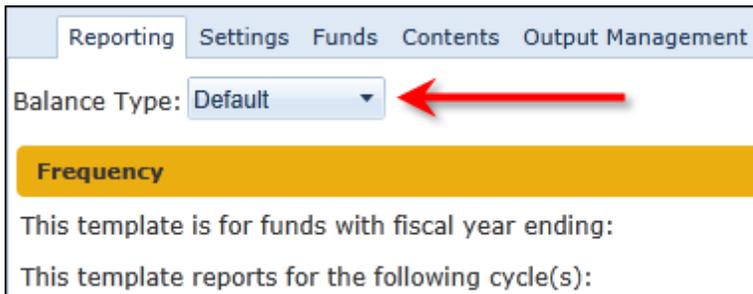
    a. Available selections include all balance types that exist in the database, in ascending alphabetical order.

        i. The *Name* values of balance types display as selections in the drop-down list.

    b. The drop-down list value can be changed at any time following creation of a project template.

        i. Following a drop-down list selection change and save, the balance type of the template and that of any projects based upon it are "out-of-sync".

            A. A user can sync the balance type with one or more projects via the synchronization link on the *Administration* tab.

    c. Any projects created on the basis of a given project template have a *Balance Type* specified for that project template at the time of project creation.

> **Example:**
> A project template of balance type *Unadjusted* is the only project of that type to be created (not *Default*, *Adjusted*, *Other*, etc.).

5. A read-only *Balance Type* value displays on the *Components* and *Administration* tabs of the **Project** page when the project node is selected in the tree view.

    a. When a portfolio statement component is selected in the tree view, the statement line item values display based on the project's specified *Balance Type*.

b. Financial statement line item values are not affected by *Balance Type*.

Process Changes

No changes to current processes are required.

23. Updates to user rights names

Overview

The text that displays for user rights on the **Roles** and **Users** pages was updated in the interest of clarity and naming consistency, both across the user rights themselves and with regard to the respective application pages associated with the rights. These updates do not affect existing rights/roles associations nor existing role assignments to users.

Additional Information

A complete listing of all user rights, their descriptions and associated functions can be found in the *Available FundSuiteArc User Rights* topic of the online Help system.

Process Changes

No changes to current processes are required.

24. Training videos available via online Help system

Overview

A series of self-paced training videos was made available to users as part of the FundSuiteArc online Help system. The videos in the collection offer tips on efficient use of application pages, best practices, common tasks, etc. The entire collection of videos can be found in the *Self-paced Training Videos* topic and individual videos appear within various other Help topics, as appropriate.

What's New

1. A *Self-paced Training Videos* topic was add to the online Help system.

    a. A link to the topic was added to the opening page of the Help system.
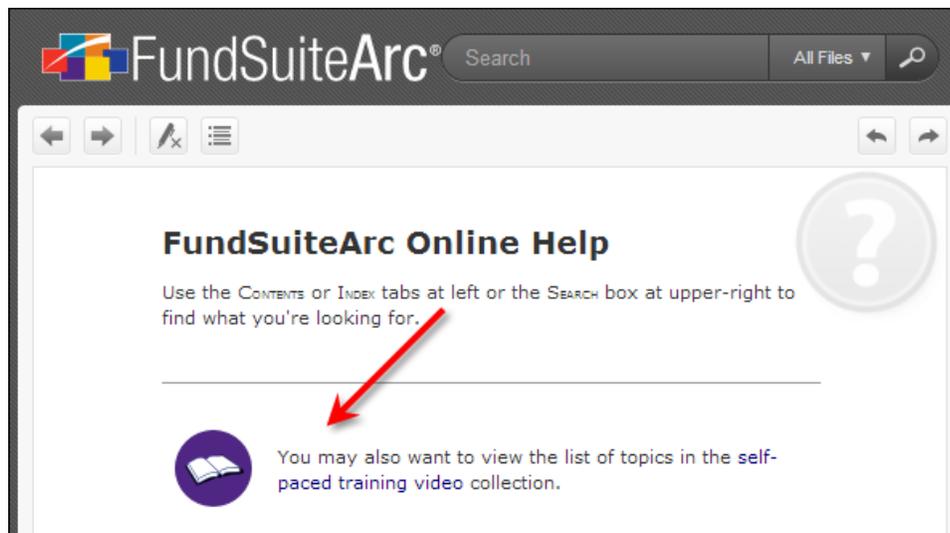
b. A link to the topic was also added to the *Table of Contents* pane.
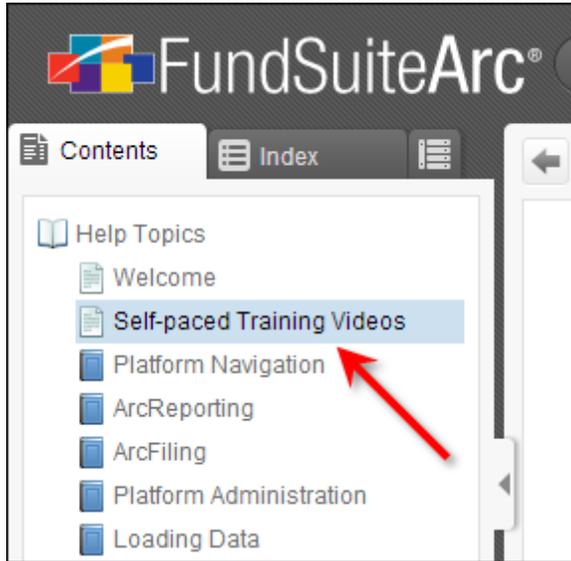
c. Clicking either of the links opens a "dashboard" for the video collection, where video courses and their related topics are grouped into functional tracks, represented by tabs on the page.

i. Clicking a course heading link on any given track tab causes the course listing to display, where a course topic link can be clicked to view the associated video segment.
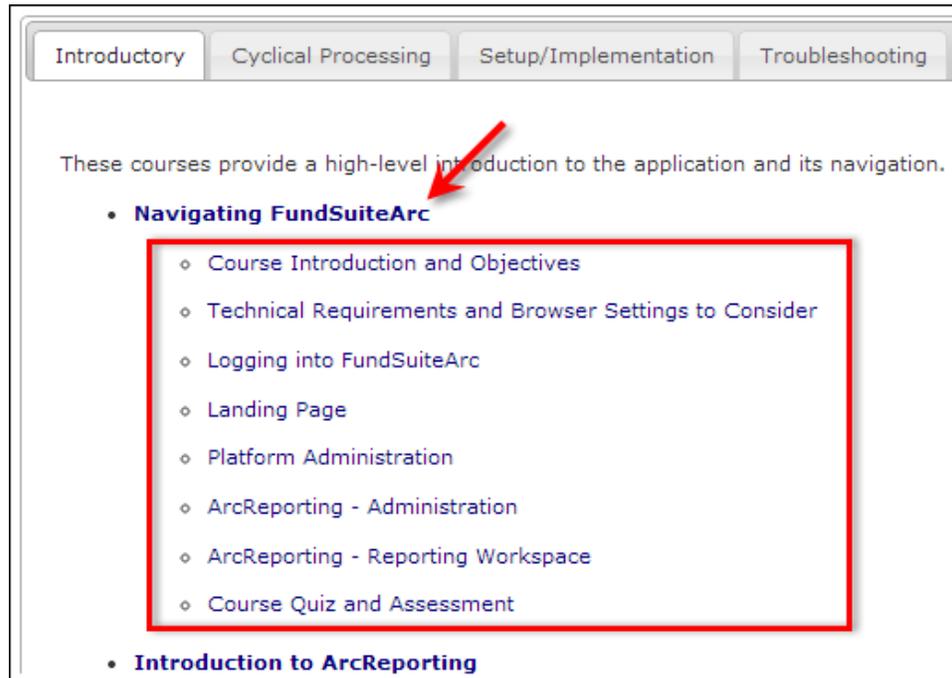
2. Links to associated video segments were added to specific online Help topics, as appropriate.
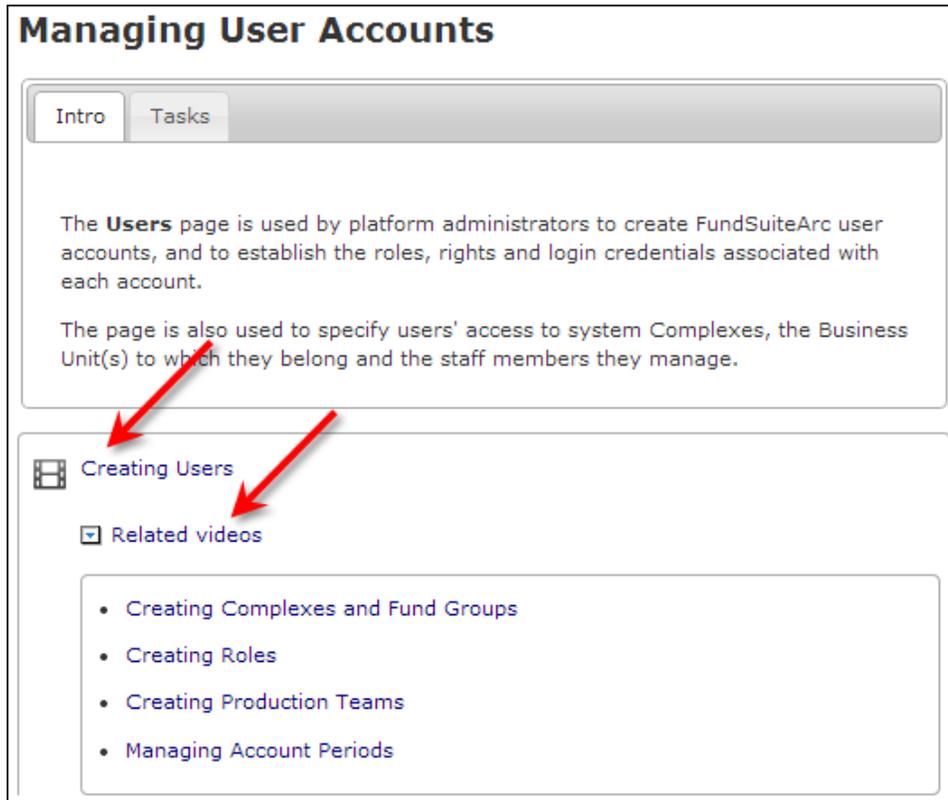
a. The title of the primary video segment(s) associated with any given Help topic will appear as a clickable link next to a new video icon (⊞) at lower-left of the topic content.

b. If any other related video segments exist a **_Related videos_** link also displays. Clicking the link causes the title of the related video(s) to display.

Additional Information

At present, not all planned video segments are available through the online Help interface; the titles of videos that are not currently available will appear as disabled (gray) text, rather than as clickable blue links. As these video segments are produced in the coming months, their respective links will become enabled/clickable.

Process Changes

No changes to current processes are required.

25. Statement preview caching: Behavioral change to financial and portfolio statement previews in projects

Overview

In order to enhance the performance of financial and portfolio statement previews on the **Project** page, FundSuiteArc will now cache the preview data once the user has viewed a statement. If the user navigates away from the statement and subsequently returns, the preview will not regenerate statement values, but instead will use the cached preview data, thus making the preview display much more quickly. The cached preview data will also be used when generating output, which will also decrease the time in which output requests are returned to the user.

What's New

Once a user previews any portfolio or financial statement on the **Project** page, the associated preview data is cached and reused unless another, related action in FundSuiteArc forces the cached preview to reset. The following user actions will automatically reset the statement preview to ensure the values displayed are current and accurate:

1. **Portfolio statements**

   a. Updates to fund holdings data via the **Fund Holdings**, **Holdings Batch Replace** or **Global Holdings Review** pages

   b. Holdings push-button data import or FTP dataload

   c. Purge of holdings balance data

   d. Updates to settings on the **Portfolio Statement Templates** or **Portfolio Statement Template Output Settings** pages

   e. Updates to the libraries associated with the current fund (*i.e.*, Security, Abbreviation, Portfolio Footnote, Issuer and Category)

   f. Updates to settings on the **Footnote Preview and Assignment** page

2. **Financial statements**

   a. Calculation of the associated financial workbook

   b. General Ledger FTP dataload

c. General Ledger Transactions push-button data import or FTP dataload

d. Purge of general ledger balance data

e. Updates to settings on the **Financial Workbook Templates** or **Financial Statement Template Output Settings** pages

f. Changes to footnote attachments

g. Updates to class data via the **Financial Workbook** page

h. Class Information push-button data import or FTP dataload

i. Updates to fund data via the **Financial Workbook** page

j. Fund Information push-button data import or FTP dataload

k. Changes to supplemental data via the Financial Workbook page

l. Updates to the libraries associated with the current fund (*i.e.*, Security, Abbreviation, Financial Footnote, Issuer and Category)

A user can manually force the cached preview of a portfolio or financial statement to refresh at any time by clicking the *Refresh* button ( ) at lower-right of the preview pane of the **Project** page.

Process Changes

No changes to current processes are required.

Enhancements to ArcReporting

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

1. Enhancements to calculation sheets when calculating section totals

Overview

FundSuiteArc added functionality that changes the way calculation sheet section totals are calculated. This new functionality allows totals to be calculated by class or currency on calculation sheets. Existing sections that currently calculate a section total will use the same rounding level to ensure the section total foots.

What's New

On the *Financial Statement Templates* tab of the **Financial Workbook Templates** page, a user can now calculate section totals.

1. The **Add Calculation Sheet Section** dialogue allows a user to *Calculate Total* and to specify a *Rounding Level*.
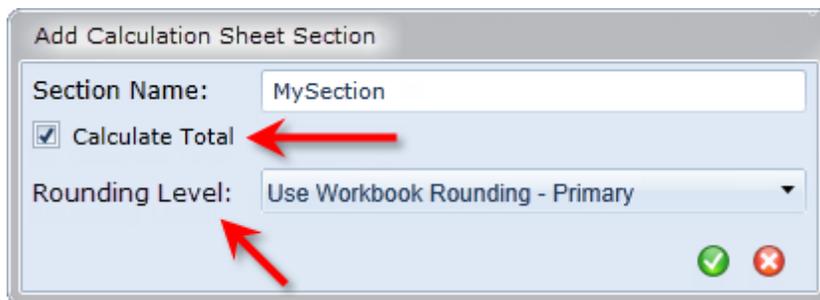
   a. Selecting the *Calculate Total* check box option provides a total for each class or currency.

   b. Selecting a *Rounding Level* assigns the same rounding level to each item within a given section.

        i. Rounding is set at the section level, not the item level, for items within a section that calculates a total.

        ii. Any new or existing item added to a section has the rounding level set to the rounding level of the section.

        iii. The item rounding level is disabled.

      iv. This feature ensures all items in a section are rounded to the same level should the user need a section total.

      v. If items within a section require a separate rounding level, the user must create a new section.

2. By default, the **_Calculate Total_** check box is not selected when adding a new section. If the user wants to calculate a section total, the user must designate a rounding level for the section; each item in the section respects the rounding level specified.

3. The **Financial Workbook** page displays a total line for each class or currency and utilizes the **_None/All_** column to display the total of all classes or currencies.

Name	Advisor Cl	Class A	Class B	Class C	Class R	None/All
⊿ Section						
Item 1	26,147,941	448,825,492	1,237,129	2,110,697	18,915,511	497,236,770
Item 2	9,560,562	95,486,417	1,598,719	8,530,325	2,632,952	117,808,975
Item 3	(32,992,893)	(711,806,683)	(20,242,759)	(25,381,285)	(24,226,934)	(814,650,554)
Section Total	2,715,610	(167,494,774)	(17,406,911)	(14,740,263)	(2,648,471)	(199,604,809)

4. Other calculation sheets can reference the individual class totals (*i.e.*, *Section Total*) or the total for each class (*i.e.*, **_None/All_** column). The display value depends on the **_Base Class Assignment/Behavior_** setting specified for the calculation sheet:

    a. Single Row/Column

        i. If the item referring to the section total is set to a base class of *All*, the **_None/All_** value is returned. In this example using the section totals above, any calculation sheet that references the section total displays *(199,604,809)*.

Name	None/All
⊿ Section	
Section Value	(199,604,809)
Section Total	(199,604,809)

ii. If the item referring to the section total is set to a specific class (*e.g.*, *Class A*), the specific class or currency total value is returned. In this example using the section totals above, any calculation sheet that references the section total for Class A displays *(167,494,774)*.

Name		Class A	
⊿ Section			
Section Value		(167,494,774)	
Section Total		(167,494,774)	

b. Multiple Rows/Columns (per class)

i. If the item referring to the section total is set to *multiple rows/columns*, the individual class or currency total is returned. In this example using the section totals above, any calculation sheet that references the section total for multiple rows/columns displays each class's total and the corresponding total for all classes in the *None/All* column.

Name		Advisor	Class A	Class B	Class C	Class R	None/All	
⊿ Section								
Section Value		2,715,610	(167,494,774)	(17,406,911)	(14,740,263)	(2,648,471)	(199,604,809)	
Section Total		2,715,610	(167,494,774)	(17,406,911)	(14,740,263)	(2,648,471)	(199,604,809)	

Process Changes

Any sections currently calculating a section total should be reviewed prior to upgrade to verify the rounding level setting correctly calculates the items in that section. The user may opt to remove the section total prior to upgrade if necessary. After upgrade to v1.9.0, sections should be reviewed and updated to apply the desired rounding level of the section, if needed. Going forward, all Items within a section utilizing a section total will be rounded to the same level.

2. Ability to copy row mappings on Financial Statement and Portfolio Statement Template Output Settings pages

Overview

Managing output settings for both financial statements and portfolio statements requires efficiencies in the mapping process. Previous versions of FundSuiteArc required mapping each statement line item independently. The ability to map one line item and apply the same mapping to other lines of the same type was added to save time and eliminate mapping inconsistencies between line items of the same type.

What's New

Changes to financial and portfolio statement template output settings involve the user interface and related functionality.

1. **User Interface**

    a. A new *Apply to* link was added below the mapping grid.

        i. **Financial Statement Template Output Settings** page
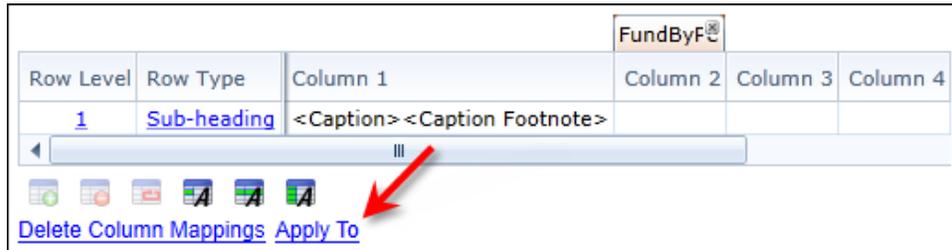
        ii. **Portfolio Statement Template Output Settings** page

b. The ***Apply to*** link is available for all items that can be added to a financial or portfolio statement template, with the exception of column header, legends and footnotes.

2. **Functionality**

   a. Clicking the ***Apply to*** link causes the Apply Settings to **Other Statement Items** dialogue to display.

      i. The expanded tree view structure for the financial or portfolio statement template is displayed.

      ii. The line item name and type are displayed at the top of the dialogue.

      iii. A check box is displayed at left of each item in the tree view structure that is of the same type as the currently-selected item.

      iv. Selecting any individual check box applies the output settings of the currently-selected item.

         A. Financial Statement Template Output Settings

> **Example:**
> Item within a sub-section selected.
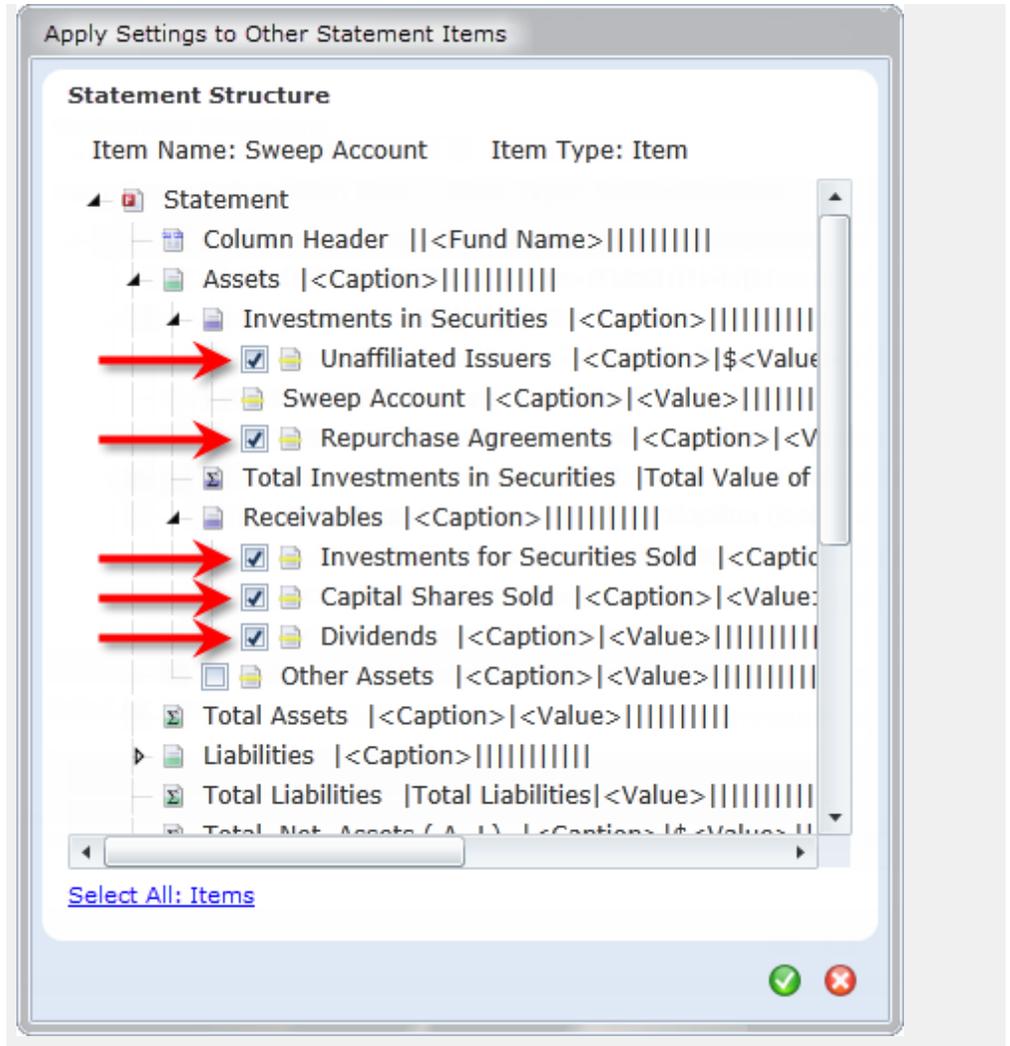
B. Portfolio Statement Template Output Settings

Example:
Security node selected.
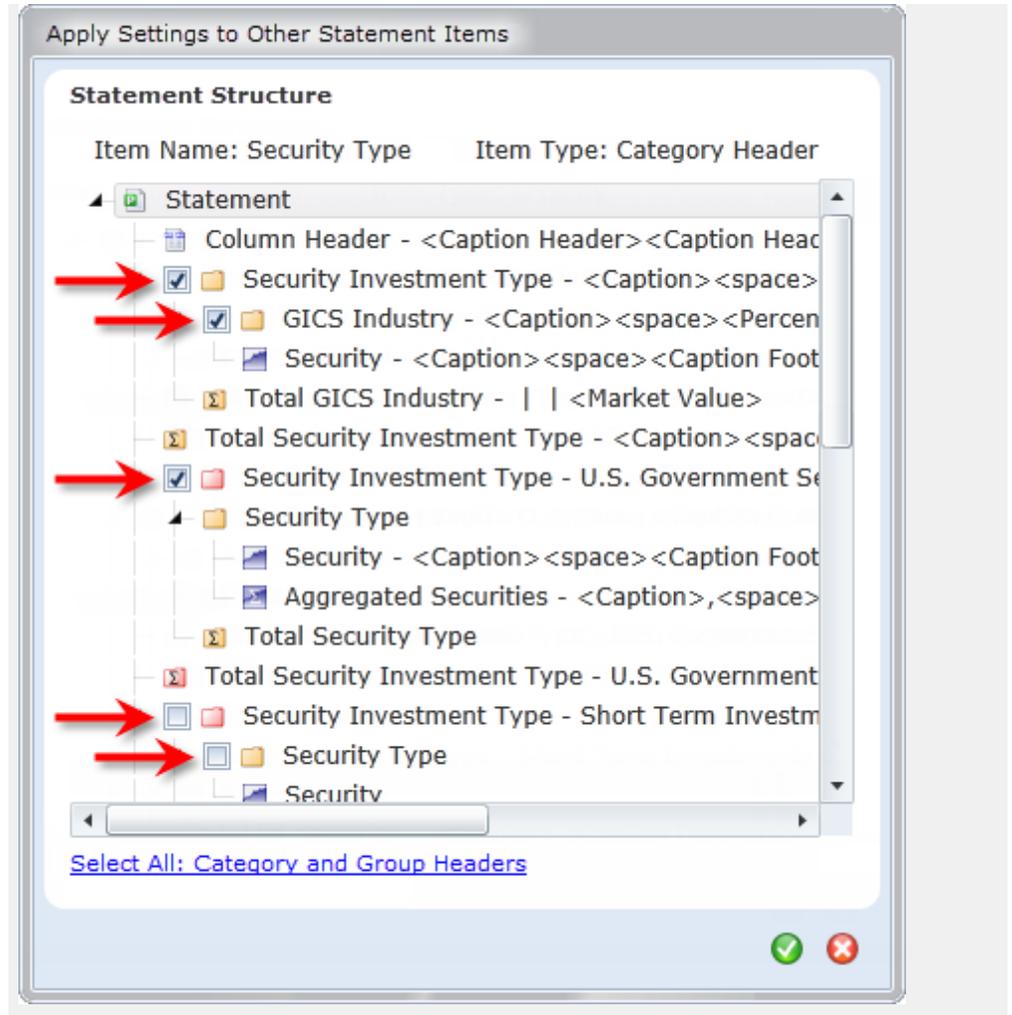
v. A *Select all* link is displayed at the bottom of the dialogue.

    A. Clicking the link selects the check boxes of all items of the same type.

        1. Financial Statement Template Output Settings

            a. This functionality is available for the line item types listed below.

                i. Section Headers

                ii. Section Totals

iii. Sub-Section Headers

iv. Sub-Section Totals

v. Items

vi. Custom Section Headers

vii. Custom Section Totals

2. Portfolio Statement Template Output Settings

    a. This functionality is available for the line item types listed below.

      i. Category Headers

      ii. Category Totals

      iii. Security Rows

      iv. Aggregated Security Rows

      v. Other Security Rows

      vi. Stack Headers

      vii. Stack Totals

      viii. Formulas

      ix. Total Investments, Other Assets and Net Assets

B. Eliminates the need to select each box independently.

vi. Clicking the *Accept* button (✓) accepts changes and changes the page to a *modified* state.

vii. Clicking the *Save* button (🖫) applies all output settings to the line item(s) corresponding to the check box(es) selected on the dialogue.

    A. Financial Statement Template Output Settings

      1. This includes row level, row type, column mappings, order of items in the cell, format of all items and zero suppression settings.

B. Portfolio Statement Template Output Settings

1. This includes column mappings, order of items in the cell, format of all items, item suppression settings and suppression settings.

Process Changes

No changes to current processes are required.

3. Additional prior period options for document structure template sections

Overview

The **Document Structure Templates** page was enhanced to allow selection of several additional prior period account periods, whose corresponding data will display in the project. A user can now choose to display data for the second prior fiscal year-end, third prior fiscal year-end and first prior fiscal year-end semi-annual period.

What's New

1. Additional account period options were added for use in document structure template sections.

    a. Fiscal Year-End 2nd Prior

        i. Returns data for the second prior fiscal year-end.

    b. Fiscal Year-End 3rd Prior

        i. Returns data for the third prior fiscal year-end.

    c. Fiscal Year Semi End 1st Prior

        i. Returns data for the semi-annual account period found in the first prior fiscal year.

2. The project respects the account period specified in the document structure and displays the appropriate data specific to the project cycle.

Process Changes

No changes to current processes are required.

4.   More characters allowed for general ledger and holdings footnote symbols

Overview

Financial and portfolio statements can contain many footnotes, all of which are indicated by a footnote symbol. These symbols can be of varying length. Prior versions of FundSuiteArc only allowed users to enter a one character symbol for both general ledger and holding footnotes. This character limit is now twenty characters.

What's New

Enhancements to the **Add/Edit General Ledger Footnote Details** dialogue include the following:

1. The symbol text box was increased to accommodate 20 characters.
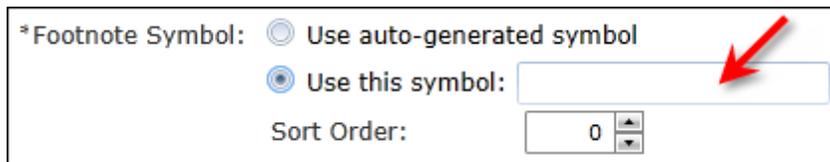
Note:

Sort order should be used if more than one footnote is using a defined symbol. This feature allows the user to identify the display order of these footnotes.

2. The maximum character limitation for symbols was increased from *1* to *20*.

3. Project preview and output supports the display of all footnote symbols within the data and in the footnote legend.

Process Changes

No changes to current processes are required.

5.   Ability to apply auto-sequencing symbols to financial footnotes

Overview

Financial statements can contain footnote legends with multiple footnotes. The ability to dynamically assign symbols is imperative to the statement preparation process. Functionality was introduced for all financial statements allowing users to identify the symbol pattern and order of the footnotes within the statement.

What's New

Adding the auto-sequence functionality to financial statement footnotes impacts both the user interface and related functionality.

1.   **User Interface**

   a.   Selecting the footnote legend on any given financial statement template yields an **Edit Item Details** pop-up dialogue. The user assigns settings to the footnotes using auto-symbol generation as well as those assigned a specific symbol.

i. Footnotes Using Auto-Symbol Generation

A. Financial footnotes using the auto-sequence functionality are identified on the **Footnote Libraries - General Ledger** page.

1. Auto-symbol pattern options include the following:

   a. 1,2,3

   b. (1),(2),(3)

   c. a,b,c

   d. (a),(b),(c)

   e. A,B,C

   f. (A),(B),(C)

2. Auto-symbol order allows the user to specify how auto-symbols are assigned to footnotes. Options include the following:

    a. By occurrence in statement

        i. The auto-sequencing logic associates symbols with footnotes according to the order in which the symbol appears on the financial statement.

    b. Alphabetical by footnote text

        i. The auto-sequencing logic associates symbols with footnotes according to the actual footnote text in alphabetical order.

  ii. Footnotes Not Participating in Auto-Symbol Generation

    A. Footnotes assigned a specific symbol do not use auto-symbol generation.

    B. The placement of these footnotes in preview/output is either *Above the auto symbol footnotes* or *Below the auto symbol footnotes*.

2. Functionality

  a. Column Headers

    i. Footnotes attached to column headers are always first and included in auto-sequencing (see the *Financial Statement and Portfolio Statement column header footnotes* section of this document).

  b. Caption, Value and Horizontal Total Footnotes

    i. Footnotes attached to captions, values and horizontal totals are included in auto-sequencing.

  c. Assignment of more than one footnote

    i. Any footnotes assigned to captions, values or horizontal totals display in alphabetical order by their symbol.

  d. Multiple Statements

    i. Display in project preview and output for each specific statement is dictated by the legend settings assigned to each statement.

e. Spreads

 i. Financial Statements that contain data for more than one fund and are assigned a spread setting in the associated project template are included in auto-sequencing.

 ii. Footnotes assigned to a caption display on every fund in project preview and output.

 iii. Footnotes assigned to a value only display on the fund assigned the footnote in project preview and output.

 iv. Footnotes assigned to a horizontal total display on the total.

 v. The footnote legend only displays each footnote once in project preview and output.

vi.   Auto-sequencing on spreads operates on one spread at a time. Footnotes are auto-sequenced from the topmost line, reading from left to right for both pages. This means the spread is viewed as one page. The process of assigning auto-symbols continues onto the next page and assigns the next symbol in order. See diagram below:
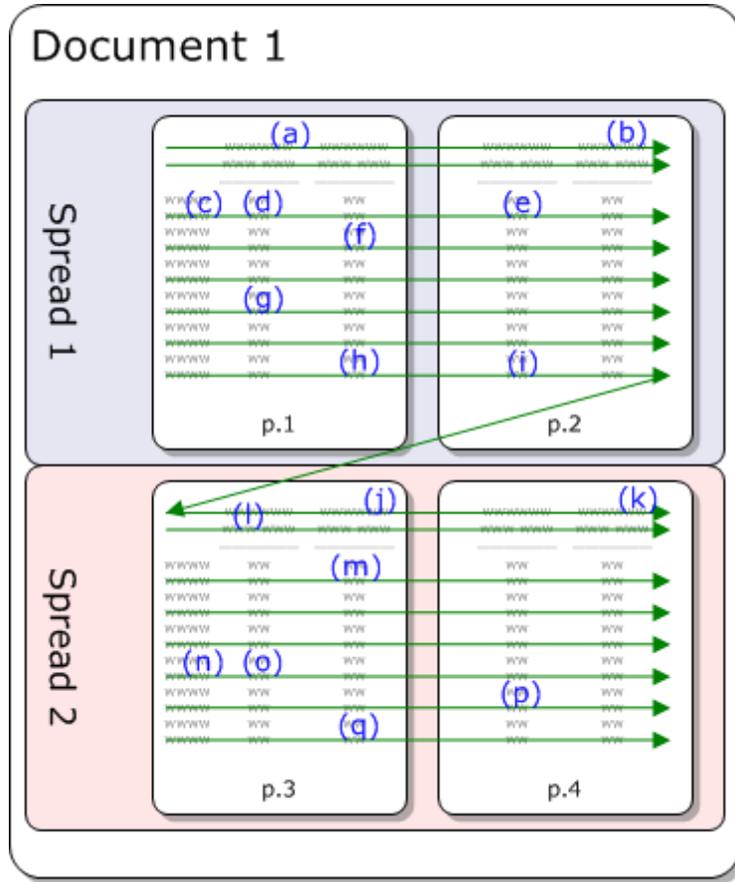
vii. If a footnote on one spread exists on a subsequent spread, the same symbol is assigned to both spreads.

f.   Preview/Output

i.   The display of footnotes is dependent on where the footnotes were mapped in the template's output settings.

Additional Information

- The financial statement *Copy* feature copies all footnote settings from the source template.

- The financial workbook *Copy* feature copies all footnote legend settings from the source template.

- The financial workbook *Import* feature imports all footnote legend settings from the source template.

Process Changes

No changes to current processes are required.

6. Ability to apply auto-sequencing symbols to financial and portfolio statement column header footnotes

Overview

FuncSuiteArc now supports using the auto-sequence functionality on column headers in financial and portfolio statements.

What's New

1. The *Footnotes* tab of the **Financial Workbook** page now allows a user to attach any available footnote to the *Column Header* row.
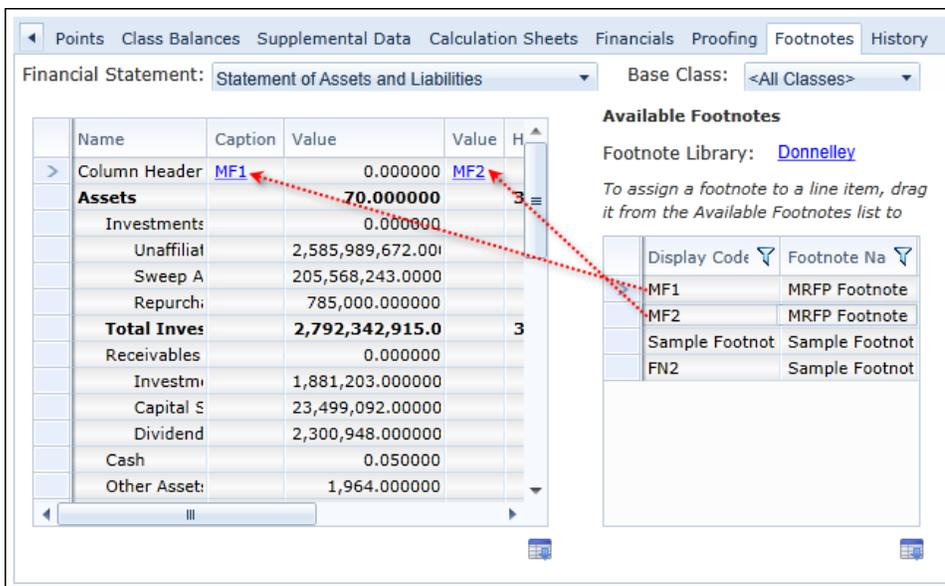
a. Any number of footnotes can be attached to any given column header data point. The display code associated with each footnote displays in a comma-delimited list within each respective column header data point; this includes caption, value and horizontal total.

> **Note:**
> A footnote must exist in the general ledger footnote library to display in the *Available Footnotes*

grid. Click the *Footnote Library* link at upper-right of the *Footnotes* tab to add one or more footnotes to the library. Footnote libraries are complex- and account period-specific and roll forward from the time the project is created.

b. Footnotes can be edited or removed from any given column header data point by clicking the corresponding display code link in the statement grid. Clicking a link causes the **Assigned Footnotes** pop-up dialogue to display.

   i. Footnotes can be reassigned to a different fund, applied to a different field, account period or base class by clicking the corresponding link in the assigned footnotes grid.

ii. A footnote can be removed by selecting its row in the grid, and then clicking the *Delete current record* button.
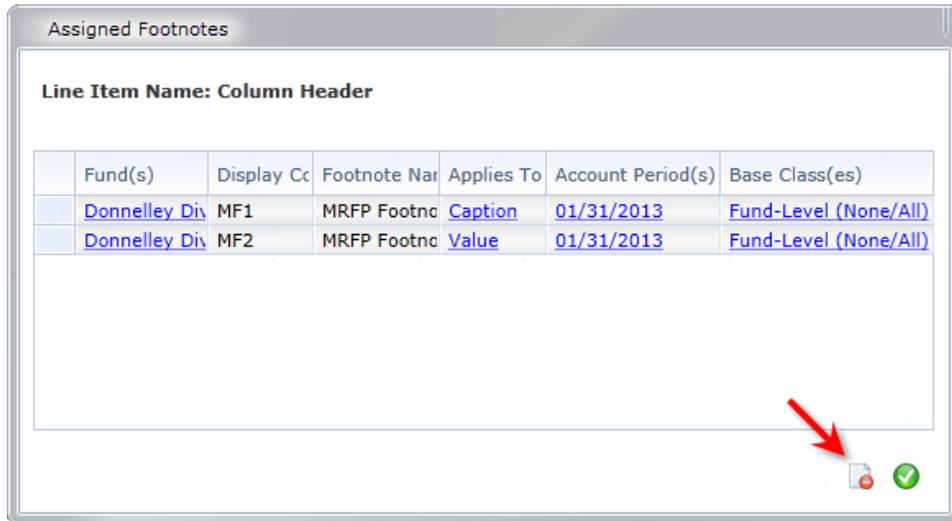
2. Footnote legends on financial statement templates were enhanced to allow identification of the appropriate auto-sequence pattern.

a. Select the *Footnote Legend* node in the financial statement template, and click the *Edit* button (📝) to display footnote options for both participating and non-participating footnotes.
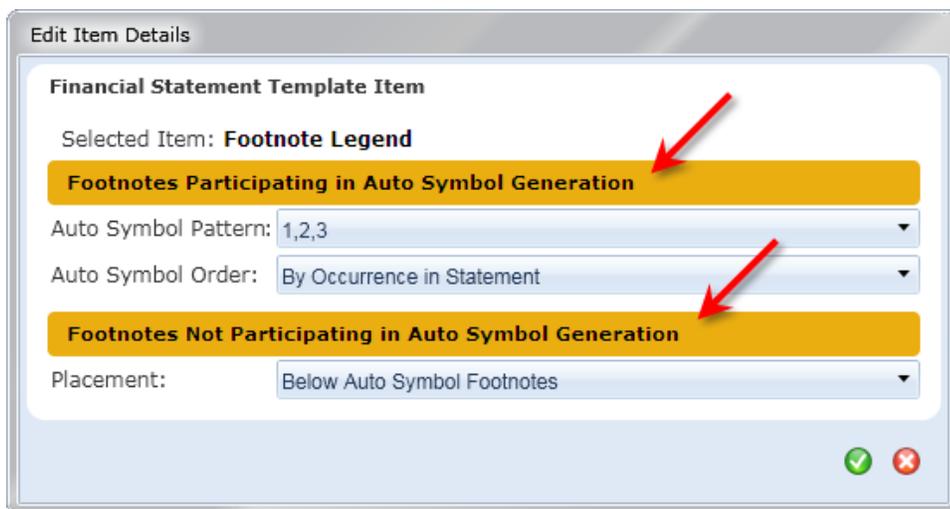
i. Auto-symbol pattern options include the following:

    A. 1,2,3

    B. (1),(2),(3)

    C. a,b,c

    D. (a),(b),(c)

    E. A,B,C

    F. (A),(B),(C)

ii. Auto-symbol order allows users to specify how auto-symbols are assigned to footnotes. Options include the following:

    A. By occurrence in statement

        1. The auto-sequencing logic associates symbols with footnotes according to the order in which the symbol appears on the financial statement.

    B. Alphabetical by footnote text

        1. The auto-sequencing logic associates symbols with footnotes according to the actual footnote text in alpha order.

iii. Footnotes Not Participating in Auto-Symbol Generation

    A. Footnotes assigned a specific symbol do not participate in auto-symbol generation.

    B. The placement of these footnotes in preview/output is either *Above the auto symbol footnotes* or *Below the auto symbol footnotes*.

3. The *Data Points* tab of the **Financial Statement Template Output Settings** page includes a *Footnote* list box used to map footnotes to the column header.

    a. To map a footnote data point to a column header, select the data point and drag and drop it in the appropriate column in the mapping grid.

4. Portfolio statement column header footnotes also participate in auto-sequencing.

Process Changes

No changes to current processes are required.

# 7. Ability to render one or more individual chapters from a project

Overview

Previously, ArcReporting only allowed users to render output for entire projects. Now, users can render a single chapter (or multiple chapters) within a project to PDF or Word format.

What's New

The **Project** page was enhanced and allows a user to render any chapter independent of the entire project.

1. Right-clicking on a chapter in the tree view causes the *Generate Output for Chapter(s)* option to display.
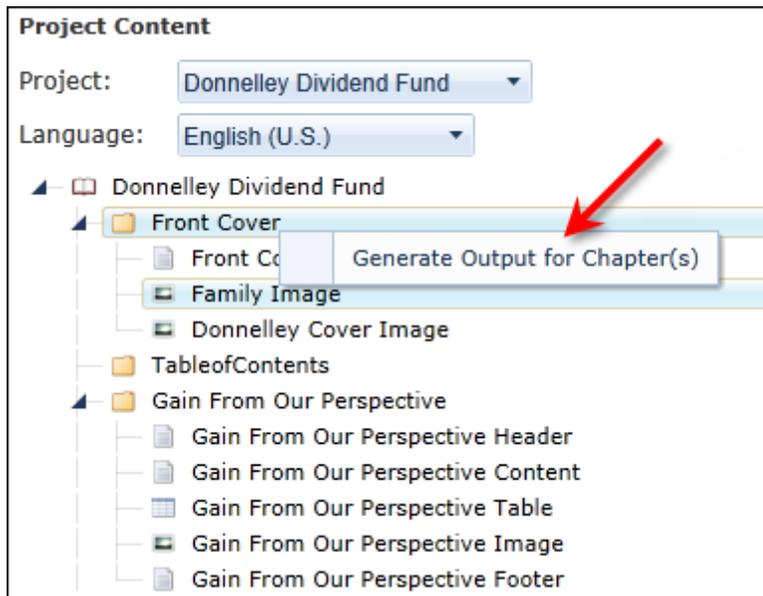
2. Selecting the *Generate Output for Chapter(s)* option generates a pop-up dialogue that lists all chapters in the current project, except chapters of type *Common Content* or *External Document*.
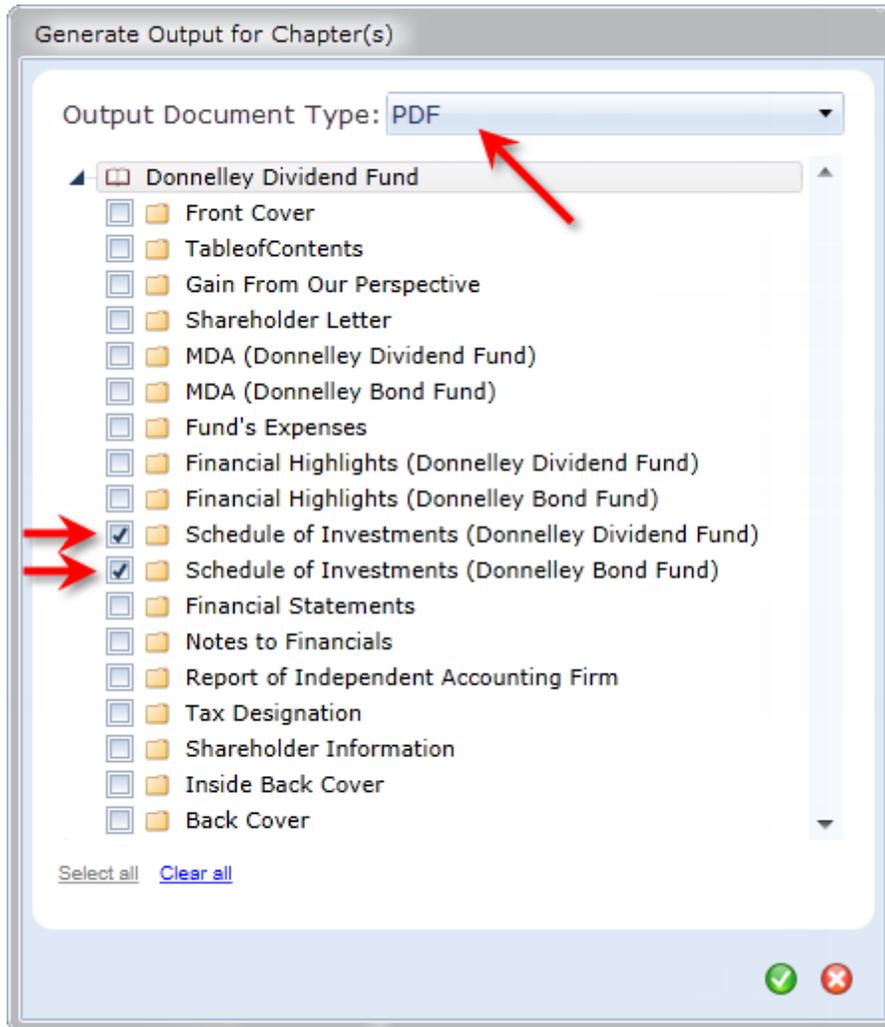
a. The pop-up dialogue lists the document's chapters with a check box next to each chapter name. The check box associated with the currently-selected chapter is automatically selected, indicating the chapter will render in the Output Queue.

b. The user can select the type of output to render, including PDF or Word. Available render options depend on the assignment of these outputs in the associated project template.

c. The *Select all* link selects the check box for all chapters in the tree view.

d. The *Clear all* link clears the check box for all chapters in the tree view.

e. After selecting the chapter(s) to be rendered, the user must accept (✅) or reject (❌) the chapter(s) selected to print.

   i. Clicking the *Accept* button (✅) closes the dialogue and sends the request to the Output Queue, from which the user can view/print the output.

   ii. Clicking the *Cancel* button (❌) closes the dialogue and cancels the render submission.

3. The Output Queue provides users the rendered output.

   a. All the content that was incorporated into the chapter(s) is provided in the output.

   b. All previously-generated chapters are retrievable from the Output Queue for 30 days, after which time the chapter requests are purged.

   c. Subsequent chapter requests display in the Output Queue as separate requests.

   d. The *For* column in the Output Queue grid displays the name of the project from which the chapter was rendered in the following format: *<name of project>: Selected Chapters*.

   e. For full project output, the *For* column now displays the name of the project.

Additional Information

▪ The chapter(s) rendered to the Output Queue do not display on the *Drafts* tab of the **Project** page. Only the user that requested the chapter(s) output is able to access the output.

- This feature only functions if output types are specified on the *Output Management* tab of the **Project Templates** page.

Process Changes

No changes to current processes are required.

8. Ability to import custom footnotes

Overview

Users can now import custom portfolio footnotes and assign them to holdings fields through the Holdings dataload/data import process.

What's New

The import source file template for the Holdings dataload/data import was updated with new columns to facilitate the import of footnotes and their application to specific holdings fields.

1. The following are the new columns in the import template:

   a. FootnoteCode

      i. This is a comma-delimited list of codes.

      ii. Each code in the list has a maximum length of 32 characters.

         A. Only alphanumeric characters are supported.

      iii. The entire string (including commas) has a maximum length of 1024 characters.

   b. FootnoteApplyTo

      i. This is a comma-delimited list of field names.

      ii. Each field name in the list has a maximum length of 32 characters.

      iii. Only the values below are valid entries for this field:

      Base Currency Bought, *Base Currency Sold*, *Base Unit Price*, *Bought*, *Caption*, *Cost*, *Coupon Rate*, *Cusip*, *Days to Maturity*, *Description 01*, …, *Description 10*, *Expiration Date*, *Local Cross Trade*, *Local Currency Bought*, *Local Currency Sold*, *Local Unit Price*, *Market Value*, *Maturity Date*, *Multiplier*, *Non Income*, *Notional Amount*, *Option Premium*, *Percent of Net Assets*, *Percent of Total Investments*, *Proceeds*, *Rating 01*, …, *Rating 06*, *Reset Date*, *Shares*, *Sold*, *Strike Price*, *TBA Description*, *Unrealized Value*, *Yield*, *Yield Date*

> **Note:**
> 1. If no value is provided in the data source file, a value of *Caption* loads, and no warnings or errors are logged.
>
> 2. If an invalid value is provided in the data source file, the default value (*Caption*) loads.

    iv. The entire string (including commas) has a maximum length of 1024 characters.

2. If the *FootnoteCode* value provided for a given row matches an existing *Code* value in the holdings footnote library associated with the fund being loaded, the footnote is assigned to the security for the fund and account period specified for the row and is assigned to the specified *FootnoteApplyTo* field.

Process Changes

No changes to current processes are required.

9. User right to allow unlinking of project components

Overview

Previous versions of FundSuiteArc allowed a user to unlink portfolio statements, financial statements and tabular data tables within the project. More granular user rights were added for these actions, preventing users from inadvertently unlinking these components while working in a project.

What's New

The new *Unlink Project Components* user right was added to ArcReporting. This right is a child of the existing *Open Project* user right.

1. A user assigned this right can unlink portfolio statements, financial statements and tabular data components on the **Project** page.

2. A user without this right cannot unlink portfolio statements, financial statements or tabular data components on the **Project** page; the corresponding *Unlink component* buttons are disabled.

Additional Information

This user right does not prevent a user from relinking any unlinked statements or tables; it only prevents a user from unlinking the statements/tables.

Process Changes

After upgrading to FundSuiteArc v1.9.0, the new *Unlink Project Components* right must be manually added to existing roles, as appropriate. The new user right is not automatically added to any roles during the upgrade process.

10. Ability to provide captions in different languages on tabular data templates

Overview

Prior versions of FundSuiteArc only supported a single language on tabular data templates. FundSuiteArc now allows a user to add multiple languages and different captioning for each language.

What's New

To allow utilization of multiple languages for tables, enhancements were made to the tabular data template and tabular data template output settings.

1. Tabular Data Templates

    a. A *Languages* tab was added to the user interface.

        i. A grid allows the addition or deletion of one or more languages that are supported in the selected template.

A. Click the **_Add_** button (⊞) and select the appropriate language to add a language to the grid.

B. Select a language in the grid and click the **_Delete_** button (⊞) to delete it from the template.

ii. When a new template is created, a row is added to the grid with the default language assigned to the associated complex.

A. The default language for all existing complexes upon upgrading to FundSuiteArc v1.9.0 is _English (U.S.)_.

B. The default language is added to the complex on the **Funds** page in the Platform Administration area.

1. Available selections include all languages contained in the Languages library.

2. Tabular Data Template Output Settings

a. If more than one language is associated with a tabular data template, the user specifies options to support each of the multiple languages. The value displayed for the *Affected Language* label is the language specified in the drop-down list on the **Multiple Language Options** dialogue.

i. Multiple Statements - same layout for all languages

A. This is the default selection.

B. When this option is selected, all cell mappings, span areas, row and column positions and item formatting are applied to all languages added to the tabular data template.

C. Mapping a literal to the output settings grid allows a user to specify a separate caption for each language on the *Format Items* tab. A grid is provided with one row for each language assigned on the template.

Note:

The output settings grid only displays the text that was mapped on the *Literals* tab and not the different captions assigned on the *Format Items* tab.

Example:

Tabular data template contains (2) languages: English and French. A user maps *Total Expenses* from the *Literals* tab.

The *Format Items* tab allows the user to specify a caption for both languages.

D. Project Preview/Output

1. All data points and financial workbook items render the appropriate value.

2. Custom literals render the appropriate caption for each supported language.

3. Text data points render the same text for each supported language.

ii. Multiple statements - different layout for each supported language

A. When this option is selected, all cell mappings, span areas, row and column positions and item formatting specified for the selected language apply only to that language.

B. This option allows a user to select any language associated with the tabular data template.
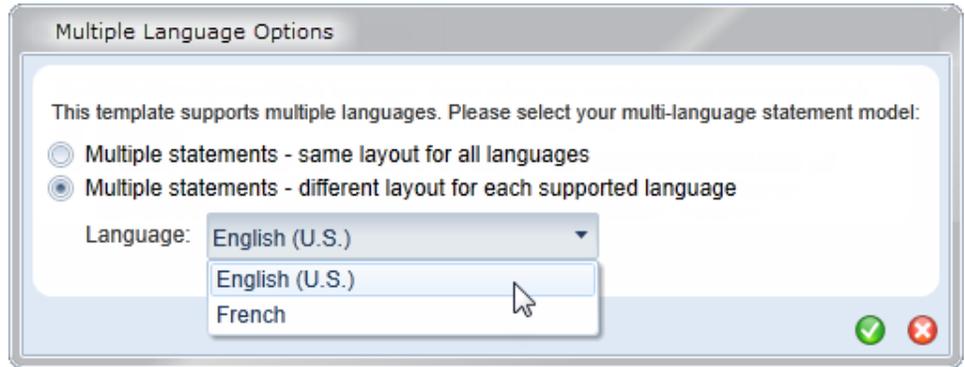
C. Mapping a literal to the output settings grid allows a user to specify a separate caption for each language on the *Format Items* tab. A grid is provided with only one row representing the language selected on the **Multiple Language Options** dialogue.

Note:
The output settings grid only displays the text that was mapped on the *Literals* tab and not the different captions assigned on the *Format Items* tab.

Example:
Tabular data template contains (2) languages: English and French. A user maps *Total Expenses* from the *Literals* tab.

The *Format Items* tab allows a user to specify a caption for both languages independently. The language displayed in the grid represents the *Affected Language*.
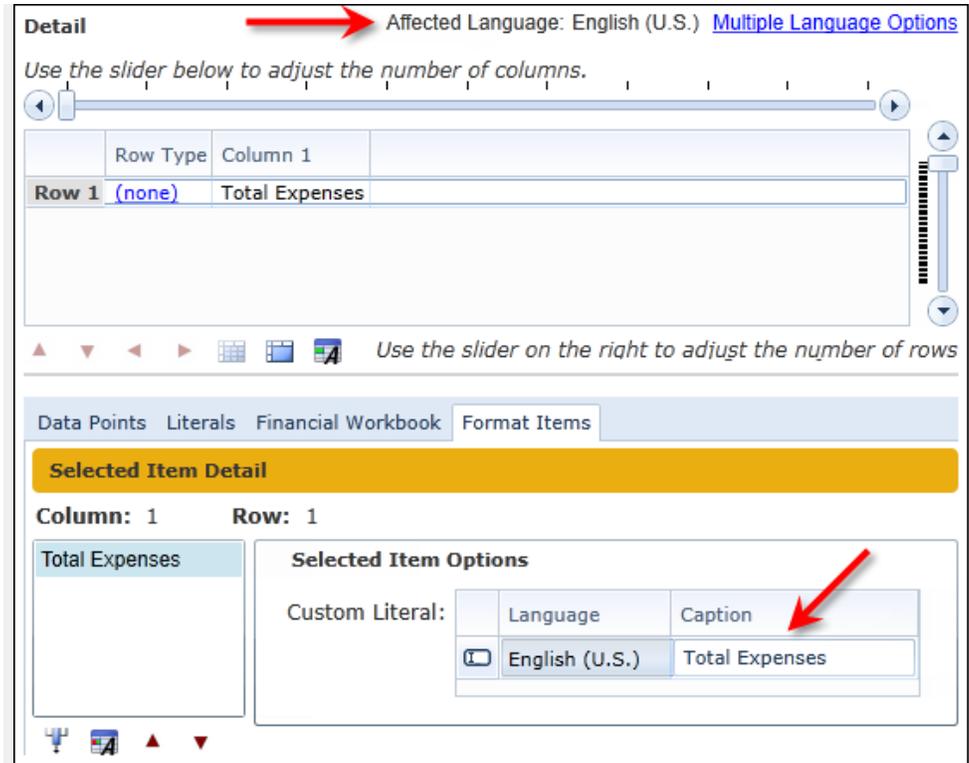
To provide a French caption, the user clicks the *Multiple Language Options* link and changes the language in the drop-down list.

Additional Information

The caption grid provided when mapping a custom literal does not contain the same functionality found in many other areas within FundSuiteArc; a user cannot sort, filter, reorder columns or group any items in the grid.

Process Changes

No changes to current processes are required.

11. Ability to apply footing exceptions to trial balance items

Overview

Within ArcReporting financial workbooks, the trial balance adjusts rounded values to ensure the section and the sub-section total foot correctly. The footing logic adjusts the value with the least impact (closest to $0.50). In some situations, the user may want to identify specific trial balance items that should not participate in footing and thereby prevent the footed value for those line items from being adjusted during the footing process.

What's New

A new *Allow this value to be adjusted by footing* check box was added to the **Add Trial Balance Definition Item** and **Edit Trial Balance Definition Item** dialogues.
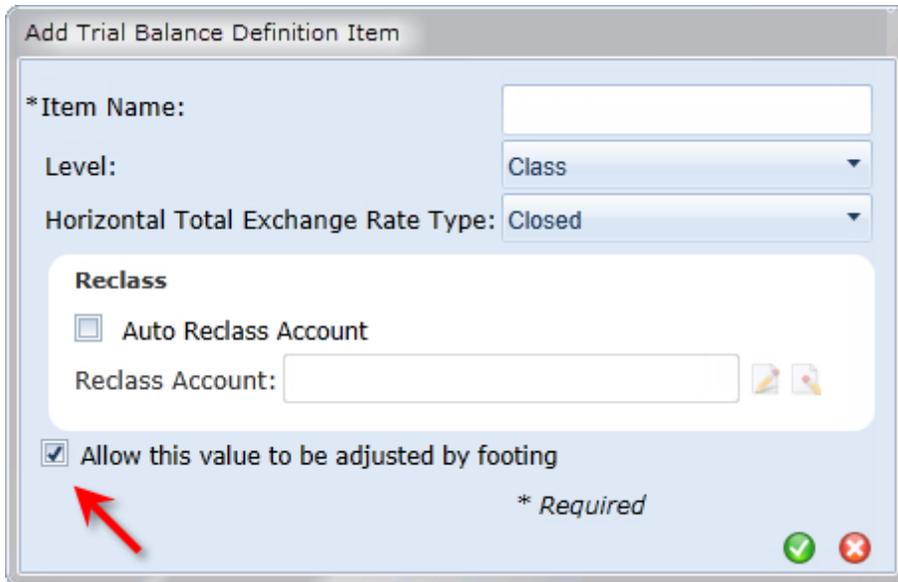
The check box is selected by default, indicating the item may be adjusted for footing.

Note:

- For all existing trial balance items, the check box will be selected as part of the upgrade to FundSuiteArc v1.9.0.

  ○ If any of these trial balance items should not be included in footing, the user must clear the check box.

- If the check box is selected, the item is included in the footing logic.

- If the check box is cleared, the footing engine skips the item when adjusting for footing.

- If the check box is cleared for all but one item within a section, the item whose check box is selected receives the footing adjustment.

- If the check box is cleared for every item within a section, the footing logic adjusts the item with the least variance to ensure the trial balance foots properly.

Process Changes

No changes to current processes are required.

12. Ability to sort financial statement sections based on caption or value

Overview

The preparation of financial statements may require the sorting of line items within a section. Enhancements were made to the financial statement template to allow assignment of a specific sort order.

What's New

In previous versions of FundSuiteArc, the sort order of a section was dependent on the order the line items were assigned when creating the financial statement template. A user can now control the sort order of each section.

1. A new *Sorting* tab was added for any section, sub-section, or item added to a financial statement template. Sorting settings can be accessed by clicking the *Edit* button (📝) for a selected template item.

> **Example:**
> *Assets* section of a trial balance.
>
> **Financial Statement Template Item**
>
> Selected Item : **Assets**
>
> Item Type : **Trial Balance Section**
>
> Item Origin : **Trial Balance**
>
> | Class Assignment/Behavior | Sorting |
> |---|---|
>
> ⦿ Single row
>
> *Choose this option to display a single row for a specific class. In 'Class-level' mode, selecting 'All' from the dropdown list will display the aggregate of all classes for trial balance data only.*
>
> Base Class All ▼
>
> ◯ Repeat by Class
>
> *Choose this option to display multiple sections representing each class on the financial statement.*

2. Functionality for (any) section added to a financial statement template:

Financial Statement Template Item

Selected Item : **Assets**

Item Type : **Trial Balance Section**

Item Origin : **Trial Balance**

Class Assignment/Behavior | Sorting

Sort By: Default (ordering per financial statement template layout) ▼

Sort Direction: ⦿ Ascending   ○ Descending

a. Users can specify a *Sort By* option.

    i. Default (sort financial statement by order defined in the associated template)

    ii. Caption

        A. Selecting the this option for a section with only one or more items contained therein causes the financial statement to sort by the item caption provided in the financial statement template.

        B. Selecting this option for a section with one or more sub-sections contained therein causes the financial statement to sort by the sub-section header caption provided in the financial statement template.

        C. Selecting this option for a section with both sub-sections and items contained therein causes the financial statement to sort by both the sub-section and item captions.

    iii. Value

        A. Selecting this option causes the statement to sort by the item value.

        B. Spreads sort by the item value of the first fund that appears in the spread.

        C. Sections containing sub-sections sort based on the sub-section total value.

b. Users can select a *Sort Direction*.

     i. Ascending

     ii. Descending

3. Functionality for (any) item added to a financial statement:

a. Users can exclude items from the designated sort and identify the position where these items should be displayed within a section or sub-section.

b. Individual items can display either above or below the sorted items.

c. If more than one item is identified as an override, these items sort based on their order in the financial statement template.

Process Changes

No changes to current processes are required.

13. Historical data import template pre-populates with values from existing statement

Overview

Prior versions of FundSuiteArc provided a generic historical data import template. Users were therefore required to populate the template with all necessary changes prior to importing data into FundSuiteArc. Enhancements to the import template now provide a template with accurate captions and values, based on an existing statement.

What's New

The *History* tab on the **Financial Workbook** page was enhanced to provide data specific to the statement selected in the drop-down list at the time an extract is performed.

1. Clicking the *Extract Data* button (▣) generates an Excel spreadsheet that can be retrieved from the Output Queue.

   a. The export file includes historical data for all funds and classes using the template for all closed account periods shown on the statement.

   > **Note:**
   >
   > If the statement doesn't include any closed account periods, the generic template is sent to the Output Queue.

	A	B
1		**Account Period**
2		**Fund Code**
3		Class Code
4		Value # (1-10)
5	**Caption**	Row Class Code

   b. The file is sent to the Output Queue for retrieval by the user.

2. Users can update the file and use it to import the data back into FundSuiteArc.

   a. Only data for closed account periods is imported.

   b. For more information on the importing historical data, see the FundSuiteArc v1.8.2 Release Notes document.

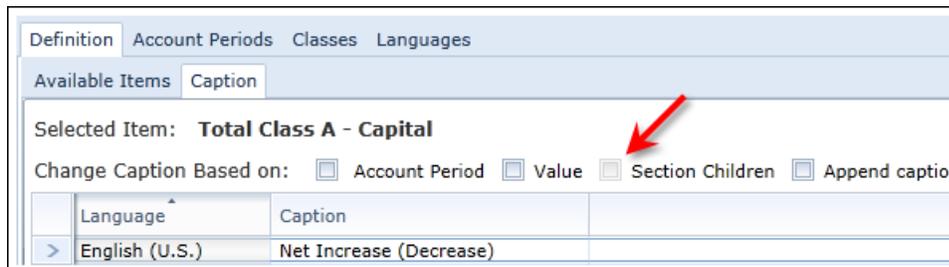## Process Changes

No changes to current processes are required.

14. Ability to display positive/negative captions for sections and sub-sections in financial statements based on children in the section

Overview

The caption displayed for section or sub-section headers/totals in financial statements may be dependent on the components of the section or sub-section. If all the components are either positive or negative, the section captions may need to change accordingly. Enhancements to FundSuiteArc provide logic that reviews all components in a given section or sub-section to determine which user-defined caption should display.

What's New

An additional *Section Children* check box was added to the *Caption* sub-tab of the *Financial Statement Templates* tab on the **Financial Workbook Templates** page.
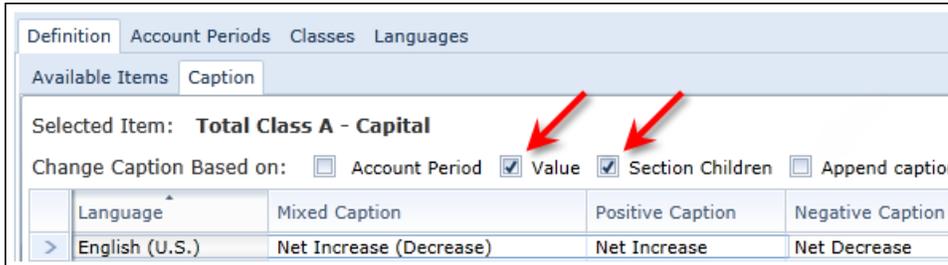

1. The check box is only visible when the following row types are selected in the statement tree view.

    a. Trial Balance Section Header

    b. Trial Balance Section Total

    c. Trial Balance Sub-Section Header

    d. Trial Balance Sub-Section Total

    e. Calculation Sheet Section Header

    f. Calculation Sheet Section Total

2. The check box is only enabled when the *Value* check box is selected.

a. Users can specify the captions for display in project preview and output, based on whether section/sub-section contents' values are mixed, positive or negative.

3. Selecting the *Section Children* check box causes the captioning logic to examine the value of all children items as well as the line selected (*i.e.*, section header or total) in the current section or sub-section to determine if the text displayed should be *Mixed Caption*, *Positive Caption* or *Negative Caption*.

a. The logic considers all values in the section or sub-section for all funds in a spread.

b. Caption display is based on the following logic:

i. If all values are negative, *Negative Caption* is returned.

ii. If all values are positive and or zero, *Positive Caption* is returned.

iii. If values are a mixture of positive and negative, *Mixed Caption* is returned.

4. Clearing the *Section Children* check box causes the captioning logic to examine only the value of the line item (*i.e.*, section total) to determine which caption to display.

Process Changes

No changes to current processes are required.

15. Ability to define advanced captions for section headers/totals in financial statements based on children in the section

Overview

FundsuiteArc was enhanced to allow advanced financial statement section header/total captions to be defined, based on children items in a given section. This functionality appends the section header/total caption with additional text when the children items in the section are not equal to zero.

What's New

1. An *Append caption based on children* check box was added to the *Caption* sub-tab of the *Financial Statement Templates* tab of the **Financial Workbook Templates** page.

    a. This check box is only visible when the following row types are selected in the statement tree view.

        i. Calculation Sheet Section Header

        ii. Calculation Sheet Section Total

b. This check box can be combined with the *Account Period*, *Value* and *Section Children* options.
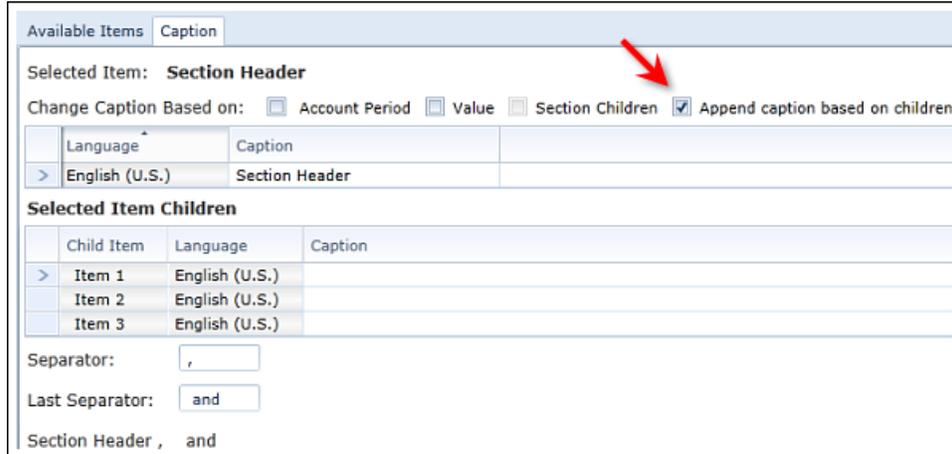
   i. *Section Children* functionality can be used conjointly with the *Value* option.

   ii. Users can specify the captions for display in project preview and output.

   iii. A separate caption can display for each language defined in the associated financial statement template.

2. A *Selected Item Children* grid and a series of associated text boxes were added to the sub-tab. These display when the *Append caption based on children* check box is selected. The settings specified for the selected item's children determine the value appended to the item's caption in project preview and output. The text of any given child item is linked to the selected item's caption only if the footed value of the item is not equal to zero (*i.e.*, if the value is positive or negative).

> **Note:**
>
> Zero suppression logic must be enabled in the financial statement template's output settings so the item does not appear in output.

   a. A *Separator* text box displays beneath the *Select Item Children* grid.

      i. The default value for the text box is *,* (*<comma><space>*).

      ii. The maximum character length for the text box value is *8*.

iii. The specified value is inserted between all the captions defined for each child of the selected item, except the last two.

    A. If only two children exist for the selected item, the value is not inserted/displayed at all.

    B. If only one child exists for the selected item, the value is not inserted/displayed at all.

b. A *Last Separator* text box displays beneath the *Separator* text box.

    i. The default value for the text box is *and* (*<space>and<space>*).

    ii. The maximum character length for the text box value is *8*.

    iii. The specified value is inserted between the captions defined for the last two children of the selected item.

        A. If only two children exist for the selected item, the value is inserted between the captions defined for those two children.

        B. If only one child exists for the selected item, the value is not inserted/displayed at all.

c. A read-only text string displays beneath the *Last Separator* text box, which dynamically reflects the settings designated for the *Separator* and *Last Separator* controls.

> **Note:**
> The separators between text elements are updated in real time as these settings are altered.

    i. The text on the tab displays in the following format.

        A. If more than two children exist for the selected item:

        <Mixed Caption or Caption value of selected item><space><Caption value of of child 1 (first language)><Separator value><Caption value of child 2 (first language)><Separator value><Caption value of child 3 (first language)>[etc.]<Last Separator value><Caption value of last child (first language)>

            1. Since child item values are not known in the environment of the template, the *Positive Caption* or *Caption* value of the selected ("parent") item is used, and the *Caption* values of all child items are shown.

B. If only two children exist for the selected item:

<Mixed Caption or Caption value of selected item><space><Caption value of of child 1 (first language)><Last Separator value><Caption value of child 2 (first language)>

C. If only one child existed for the selected item:

<Mixed Caption or Caption value of selected item><space><Caption value of of child 1 (first language)>

Example:

Definition and display of advanced captions for a Statement of Operations *Realized and Unrealized Gains (Losses)* line item.

1. A calculation sheet is created to display a section header with six corresponding items.

2. Sample data used:

    a. Children Values:

        i. Investments = 10

        ii. Swaps = 10

        iii. Foreign Currencies = 0

        iv. Futures = -5

        v. Options = 0

        vi. Forwards = 10

    b. Section Total = 25

3. In the financial statement template, the *Value*, *Section Children* and *Append caption based on children* check boxes are all selected.

   a. The figure below shows the financial statement with the section header and its child items.
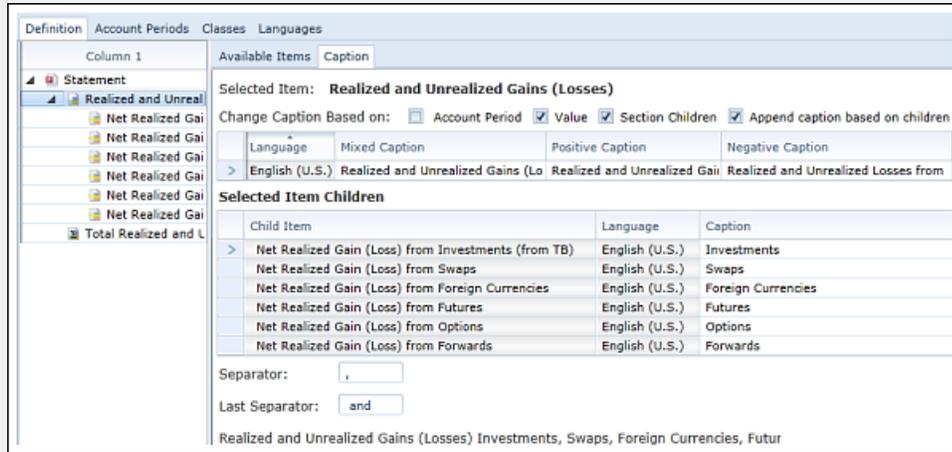
4. In the project preview, the section header displays the mixed section header caption (since the children have both positive and negative numbers) followed by the captions whose values are not zero (*i.e.*, Investments, Swaps, Futures and Forwards). The *Separator* and *Last Separator* display correctly (selected item has more than two children).

Additional Information

▪ Settings specified using this functionality are supported in template copy/import/export operations.

▪ This functionality supports captioning for spreads (multiple funds, classes and/or account periods).

   ● The logic reviews the values for all columns when determining the caption information.

Process Changes

No changes to current processes are required.

16. Ability to create a table of maturity date ranges

Overview

Enhancements were made to the *Calculation Sheets* tab of the **Financial Workbook Templates** page, allowing the grouping of holdings information by maturity date ranges.

What's New

For calculation sheet items of type *Holdings*, a new *Holdings Category Maturity Range* option was added to the *Type* drop-down list on the **Add Formula Element** dialogue.

1. This selection is applicable for all calculation sheet types (*i.e.*, *Classes Down*, *Classes Across* and *Currency*).

2. When this type is selected the following associated settings display on the dialogue.

   a. Category Library

      i. Lists all category libraries associated with the current complex.

b. Category by which to group

    i. Lists all categories in the selected category library.

c. Value to Sum

    i. The following list contains all the holding data points that can be selected in this field:

Accrued Interest, *Base Currency Bought*, *Base Currency Sold*, *Base Unit Price*, *Bid/Ask Spread Percent (calculated)*, *Bid/Ask Spread Value (calculated)*, *Bought*, *Contract Rate*, *Exchange Rate*, *Exclude Capital Support Value*, *Include Capital Support Value*, *Local Cross Trade*, *Local Currency Bought*, *Local Currency Sold*, *Market Value*, *Market Value Ask*, *Market Value Ask (calculated)*, *Market Value Bid*, *Market Value Bid*, *Market Value Bid (calculated)*, *Notional Amount*, *Option Premium*, *Percent of Net Assets*, *Percent of Par*, *Percent of Total Investments*, *Price Ask*, *Price Bid*, *Proceeds*, *Purchase Amount Base*, *Purchase Amount Local*, *Purchase Cost*, *Shares*, *Sold*, *Sold Amount Base*, *Sold Amount Local*, *Strike Price*, *Unrealized Value*, *Unrealized Value (calculated)*, *Unrealized Value Ask (calculated)*, *Unrealized Value Bid (calculated)*, *Yield*

d. Maturity Range (Days)

    i. The values specified in two associated spinner controls are used in the project output to define the range (from the reporting period cycle date) within which a holding's maturity date must fall to return a result.

        A. *From*

            1. The default value of the spinner when creating a new template is *0*.

            2. The spinner value can range from *0* to *50000*.

            3. The spinner value limits the search for securities to those with a Maturity Date greater than and up to the specified number of days from period end.

        B. *To*

            1. The default value of the spinner when creating a new template is *0*.

            2. The spinner value can range from *0* to *50000*.

            3. The spinner value limits the search for securities to those with a Maturity Date less than or equal to the specified number of days from period end.

Note:

1. If the value specified in the *From* spinner is higher than the value specified in the *To* spinner (invalid setup), no records are returned in project preview and output.

2. If a value of *0* is specified for both the *From* and *To* spinners, any security with no Maturity Date, or with a Maturity Date equal to the Account Period, is returned.

Example:

- On the *Calculation Sheets* tab of the **Financial Workbook Templates** page, a user sets up a calculation sheet to display the total market value of securities (*Security Type* = *Government Bonds*) whose date to maturity falls within multiple sets of maturity date ranges.
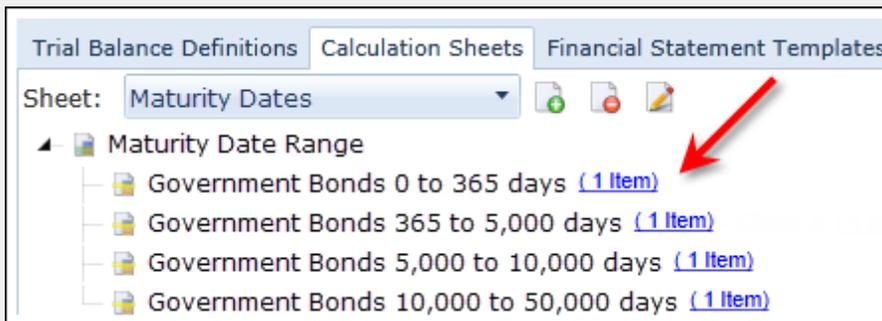
- The values display by maturity date range when the sheet is viewed on the *Calculation Sheets* tab of the **Financial Workbook** page.
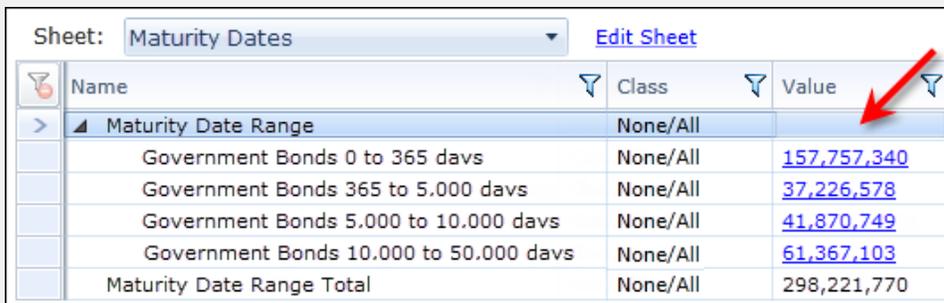
Process Changes

No changes to current processes are required.

17. Ability to assign/display currency for a specific class

Overview

ArcReporting was enhanced to allow the addition of a currency-level field to a class-level setup. The currency assigned to a class can display in financial statement templates.

What's New

1. **Funds** page (Class level)

    a. A *Currency Code* drop-down list was added to the page.

        i. The following selections are available in the drop-down list.

            A. None

            B. *Currency Code* values of all currencies defined in the Currencies library, listed alphabetically in ascending order.

> **Note:**
>
> When adding a new class, the default selection is the *Currency Code* value specified for the fund with which the class is associated (including when the fund's *Currency Code* value is *(none)*).

2. **Financial Statement Template Output Settings** page

    a. A *Class* list box is available for the following line item types:

    Column Header, *Section Header*, *Section Header, Section Total*, *Sub-Section Header*, *Sub-Section Total*, *Item*, *Custom Section Header*, *Custom Section Total*

        i. The following fields were added only for the line item types listed above:

            A. *Currency Caption (Class Repeat)*

            B. *Currency Code (Class Repeat)*

            C. *Currency Symbol (Class Repeat)*

ii. The aforementioned fields populate in project preview and output under any of the following conditions:

    A. When mapped inside a *Period by Class*, *Class by Period*, *Fund by Class* or *Class by Fund* repeat group.

    B. When mapped to a row set to a specific class.

    C. During a row repeat.

    D. During a section repeat.

Process Changes

No changes to current processes are required.

18. Ability to exclude categories from footing within a portfolio statement template

Overview

Previously, when calculating category totals on a portfolio statement, FundSuiteArc took the "bottom-up" approach and calculated the category total from raw values then footed. Now, a "top-down" approach is available. The rounded values can be used to calculate category totals on the statement. Selecting the option for a category of securities forces rounding adjustments to other securities within the portfolio statement.

What's New

The *Calculations* sub-tab on the **Portfolio Statement Templates** page and its associated *Calculate category totals using rounded values* check box were enabled for all category levels (not just the innermost level).

1. The check box is cleared by default.

2. When the check box is selected for any given category, the calculation engine switches from *Calculating category totals from raw values then footing* to *Calculating category total from rounded security values*.

   a. This functionality only affects category total calculations.

   > **Note:**
   > The *Total Investments* line continues to calculate using raw values and does not change based on use of this option.

   b. This functionality does not disable the footing engine.

      i. Footing logic adjusts securities in other categories/groups to make up for lost footing opportunities within the current category.

   c. Applies to all values set on the *Calculations* tab at the statement level, except for the following:

      i. *Percent of Net Assets*

      ii. *Percent of Par*

      iii. *Percent of Total Investments*

d. In scenarios when all categories/groups have this check box option selected, securities within them may be adjusted for footing.

e. The rounded value for each number is determined by the *Rounding* setting on the *Calculations* tab at the statement level.

Process Changes

No changes to current processes are required.

19. Ability to calculate "Market Value Ask/Bid" based on shares held and "Price Ask/Bid" value

Overview

FundSuiteArc was enhanced to allow upload of the Bid/Ask price for a security and to have the market value and unrealized value automatically calculated for each security, based on the shares held and the cost of the security. These values can be added to calculation sheets to adjust final statements and perform analysis, as needed.

What's New

1. **Fund Holdings page**

   a. *Price Ask* and *Price Bid* data points were added to the *Reporting - All* view of the grid on the *Holdings* tab.

   b. The following new six calculable fields were added to the *Reporting - All* view of the grid on the *Holdings* tab:

   Market Value Ask (calculated), *Market Value Bid (calculated)*, *Unrealized Value Ask (calculated)*, *Unrealized Value Bid (calculated)*, *Bid/Ask Spread Value (calculated)*, *Bid/Ask Spread Percent (calculated)*.

      i. All of the new calculated values return 0 if the numerator or denominator is zero/null.

      ii. If the *Bid/Ask Values* field is not added to the *Calculations* tab of the fund's primary portfolio statement, the value does not calculate and all Bid/Ask Values display as 0 on preview/output.

         A. The *Bid/Ask Values* field can be added to and calculate for a secondary statement, whether or not it is added to the primary portfolio statement.

2. **Data Import/Dataload**

   a. *Price Ask* and *Price Bid* fields were added to the following files:

      i. Fund Holdings data import source file (XLS format)

         A. When the user clicks the *Get Import Template* button (image) on the *Holdings* tab of the **Fund Holdings** page, the template now includes the *Price Ask* and *Price Bid* columns.

      ii. Fund Holdings FTP dataload source file (TXT format)

      iii. Fund Holdings export file (XML format)

   b. *Price Ask* and *Price Bid* were added (as check box options) to the *Security Balance* tab of the **Holdings Import** dialogue and the **Holdings Load Options** page (for overwriting values in Holdings FTP dataloads).

3. **Portfolio Statement Templates page**

   a. A new *Bid/Ask Values* calculation column was made available for selection on the *Calculations* sub-tab of the *Statement Detail* tab in ArcReporting.

      i. Adding the new column to the *Calculations* grid calculates all of the following fields if they are mapped on the **Portfolio Statement Template Output Settings** page.

> **Note:**
> The following items do not display as individual items in the *Calculations* tab).
>
>   1. Market Value Ask (calculated)
>
>   a. Formula = Shares * Price Ask
>
>   2. Market Value Bid (calculated)
>
>   a. Formula = Shares * Price Bid
>
>   3. Unrealized Value Ask (calculated)
>
>   a. Formula = [Market Value Ask (calculated)] - Cost
>
>   4. Unrealized Value Bid (calculated)
>
>   a. Formula = [Market Value Bid (calculated)] - Cost

5. Bid/Ask Spread Value (calculated)

    a. Formula = [Market Value Ask (calculated)] - [Market Value Bid (calculated)]

6. Bid/Ask Spread Percent (calculated)

    a. Formula = [Bid/Ask Spread Value (calculated)] / [Market Value Ask (calculated)]

4. **Project Preview/Output**

    a. When displaying totals for any of the new calculable values, the value is the sum of the footed values for the securities in that group.

5. **Portfolio Statement Template Output Settings page**

    a. *Price Ask* and *Price Bid* data points, along with the six new calculable fields, are available for mapping for the following row types.

    Category Headers/Totals, *Group Headers/Totals*, *Single Security row*, *Security row*, *Aggregated Securities rows*, *Stack rows*, *Other Securities rows*, *Sub-Totals*, *Formulas*, *Total Investments*

6. **Financial Workbook Calculation Sheets**

    a. **Price Ask**, **Price Bid** and the six new calculable field data points can be pulled onto a calculation sheet item of type *Holdings*.

    b. The **Bid/Ask Spread Value (calculated)** value can be used to calculate the Bid/Ask Spread for all of the securities.

      i. The spread value can be added to the *Profit and Loss* calculation sheet line item as needed.

      ii. Smart values can be used to determine if the spread work will be applied to the P&L or not via a fund attribute or supplemental data item.

Process Changes

No changes to current processes are required.

20. Fewer fields required for General Ledger Transactions data import/dataload

Overview

The number of required fields in the import source file was reduced for the General Ledger Transactions push-button data import/FTP dataload.

What's New

1. Only the following fields must be populated in the push-button data import/FTP dataload source files for the file to be accepted.

    a. Account Period End

    b. Fund Code

    c. GL Code

2. When a user downloads the General Ledger Transactions push-button import template from FundSuiteArc, the header row cells for required fields have a background color of green:

	A	B	C	D	E	F	G	H	I	J	K
1	AccountPeriodEnd	FundCode	GLCode	GLText	ClassCode	CurrencyCode	Debit	Credit	Memo	BatchGroup	AccountTypeCode
2											

Process Changes

No changes to current processes are required.

21. Calculation sheet formula detail included in financial workbook export
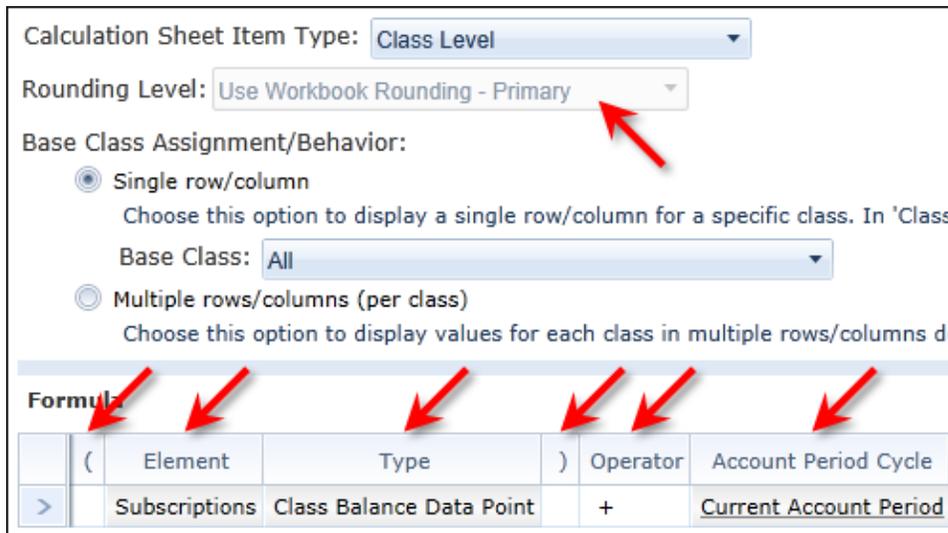
Overview

The financial workbook export document was enhanced to display additional detail for calculation sheet formulas included therein. In addition, a new calculation sheet mapping report (called the "Calculation Sheet Audit Report") was added.

What's New

1. **Financial Workbook Export**

   a. The export file now includes all component information for calculation sheet item formula elements, including trial balances, calculation sheets, portfolios, constant values, conditional values, and much more. The figure below highlights the various formula elements now included in the export file.

   i. The following columns were added to the export file to convey information related to calculation sheet item formulas in calculation sheets of type *Classes Down*:

A. Class

B. Value

C. LeftParen

D. Element

E. Type

F. RightParen

G. Operator

H. Account Period Cycle

I. Rounding Level

ii. The following columns were added to the export file to convey information related to calculation sheet item formulas in calculation sheets of type *Classes Across*:

A. <ClassName> Value

1. This field repeats for all classes.

B. None/All

1. Displays total of all classes combined.

C. LeftParen

D. Element

E. Type

F. RightParen

G. Operator

H. Account Period Cycle

I. Rounding Level

iii. The following columns were added to the export file to convey information related to calculation sheet item formulas in calculation sheets of type *Currency*.

    A. <CurrencyCode> Value

        1. This field repeats for all currencies.

    B. None/All

        1. Displays total of all currencies combined.

    C. LeftParen

    D. Element

    E. Type

    F. RightParen

    G. Operator

    H. Account Period Cycle

    I. Rounding Level

2. Calculation Sheet Audit Report

    a. A *Generate calculation sheet audit report* button (⬛) displays at lower-right of the grid on the *Calculation Sheets* tab of the **Financial Workbook** page.

i. After the button is clicked, data for all calculation sheets in the financial workbook are gathered from the FundSuiteArc database and an output request is sent to the Output Queue.

A. The *Type* value for the request in the Output Queue is *Calculation Sheet Audit Report (Excel)*.

B. The *For* value for the request in the Output Queue is the name of the financial workbook.

C. A single Excel file containing one worksheet tab with all data for the workbook calculation sheet(s) is created.

1. The column names in the report are as follows:

   a. ComplexName

   b. WorkbookName

   c. CalculationSheetName

   d. SectionName

   e. SectionSortOrder

   f. CalculationSheetItemName

   g. CalcSheetItemSortOrder

   h. FormulaSortOrder

   i. LeftParen

   j. Element

   k. Type

   l. RightParen

   m. Operator

   n. AccountPeriod

   o. RoundingLevel

Process Changes

No changes to current processes are required.

22. Enhancements to support portfolio output requirements for long/short funds

Overview

Enhancements were made to ArcReporting to allow the specification of captions for long and short categories. The user can now manually update the new caption fields and/or import updates to the captions. Also, single security caption logic was enhanced and is supported in project preview and output.

What's New

1. **Category Libraries page**
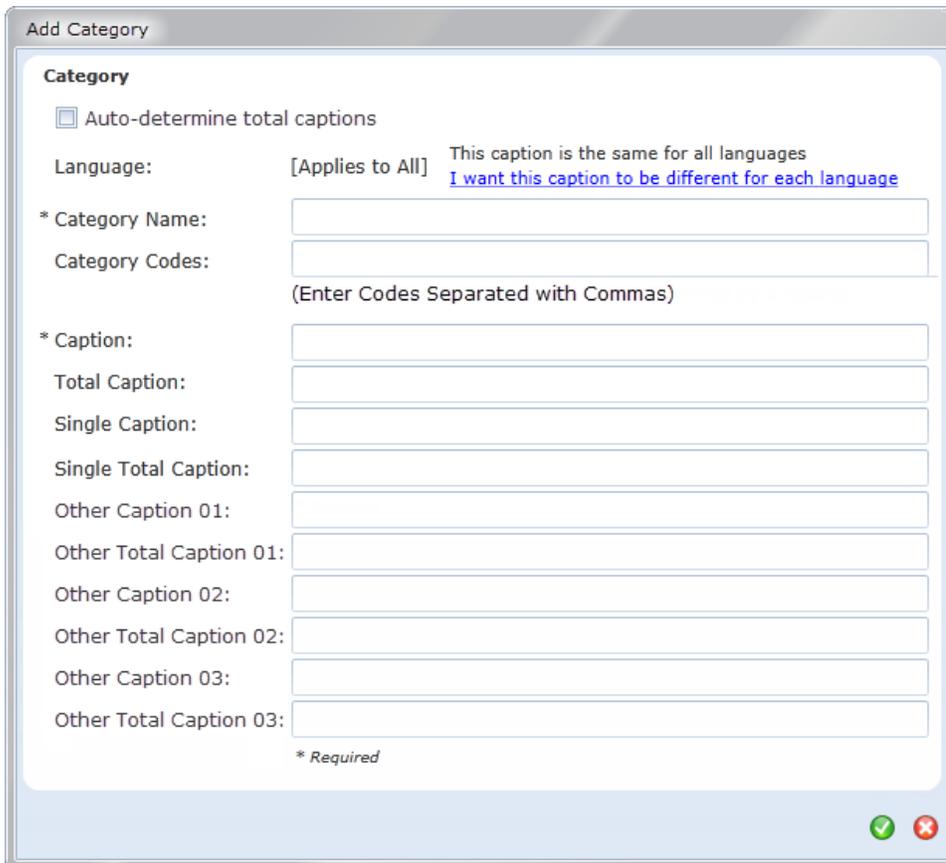
a. The following fields were added to the **Add/Edit Category** dialogue:

    i. Other Caption 01

    ii. Other Total Caption 01

    iii. Other Caption 02

    iv. Other Total Caption 02

    v. Other Caption 03

    vi. Other Total Caption 03

2. **Category Captions Data Import**

a. When a user clicks the *Get Import Template* button (📋) on the *Categories* tab of the **Category Libraries** page, the template includes the six new caption columns.

3. **Portfolio Statement Templates page**

a. Users can now add exceptions to groups having *Position Type* specified as their *Column Name*.
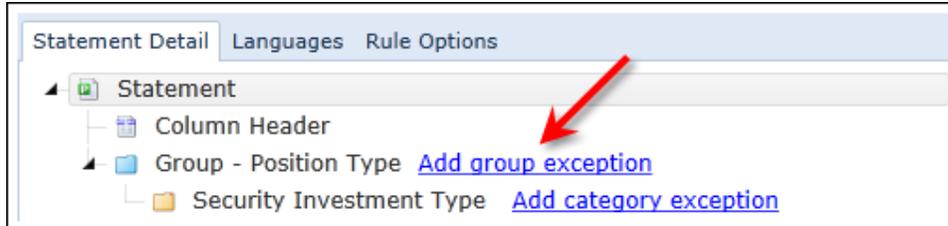
    i. When a user clicks the *Add group exception* link, the **Add Group Exception** dialogue displays.

A. The dialogue displays the *Item Type*, *Group Type*, and allows the user to specify a *Group* value of either *Long* (default selection) or *Short*.

> **Note:**
>
> If the user adds both a *Long* and a *Short* exception in association with the group, another exception cannot be added for the group until at least one previously added exception is deleted.

b. If a user attempts to delete a *Group - Position Type* item from the tree view, a message displays to alert them that all associated exceptions and their settings will be deleted.

   i. Clicking the *Yes* button on the dialogue causes the following to occur.

      A. If the group has no "child" categories or groups, the **Warning** dialogue closes and the group and any exceptions which exist are removed from the statement tree view.

      B. If the group has one or more "child" categories or groups, it cannot be deleted. Consequently, another message displays to alert the user to this fact.

         1. After clicking the *OK* button to close the dialogue, the selected group remains intact (*i.e.*, it is not removed from the tree view).

   ii. Clicking the *No* button closes the **Warning** dialogue and leaves the selected group intact.

4. **Portfolio Statement Template Output Settings page**

   a. The following *Security* data points were added for Category Header and Category Total line items:

      Other Caption 01, *Other Caption 02* and *Other Caption 03*

5. **Project Preview/Output**

   a. Mapping the *Other Caption 01*, *Other Caption 02* and/or *Other Caption 03* data points causes the associated *Other Total Caption* text provided in the category library to display in project preview and output.

   b. Mapping the *Other Caption 01*, *Other Caption 02* and/or *Other Caption 03* data points data points at the category total level causes the caption provided in the corresponding *Other Total Caption* field of the category library to display.

    c. Mapping a *<Caption>* data point to any of the following types of statement line items exhibits the behavior indicated below in each case:

        i. Group - Position Type (🔲)

            A. Displays the position type assigned in holdings.

        ii. Position Type - Long (🔲)

            A. Displays a group of all long-position type securities together.

        iii. Position Type - Short (🔲)

            A. Displays a group of all short-position type securities together.

    d. If a category only contains one security in output, then the **Single Security Caption** and **Single Security Total** text specified in the category library displays for the category header and category total, respectively.

> **Note:**
>
> 1. If the category has more than one security, but they are aggregated into a single *Aggregated Securities* or *Other Securities* line item, the **Single Security Caption** text is not used.
>
> 2. The single security captions are automatically used for all templates when displaying category information. Users should set up the **Caption** and **Single Caption** fields for all categories.

Additional Information

▪ Exceptions for *Position Type* groups can be added to formulas.

▪ Literals can be mapped to *Group Exception - Position Type* items in statement output settings.

Process Changes

For existing clients, if the **Single Caption** and **Single Total Caption** fields were not populated (*i.e.*, they display *[No Caption Available]*), it is recommended that these fields be populated going forward to avoid *[No Caption Available]* from displaying on portfolio statements for categories with a single security.

23. Ability to calculate quarterly information in calculation sheets

Overview

Financial workbook calculation sheet formulas were enhanced to allow the calculation and display of quarterly financial values (Q3 YTD - Q2 YTD = Q3) in financial statement output.

What's New

In the *Formula* section of the **Add/Edit Calculation Sheet Item** dialogue, users can now specify the *Quarter End 1st prior* account period cycle for formula elements.

Example:

- Users can subtract an item from the most recent quarter end (Account Period Cycle: *Quarter End 1st prior*) or from the current period end (Account Period Cycle: *Current Account Period*).

- The figure below represents a "Net Investment Income" calculation sheet item using this functionality:
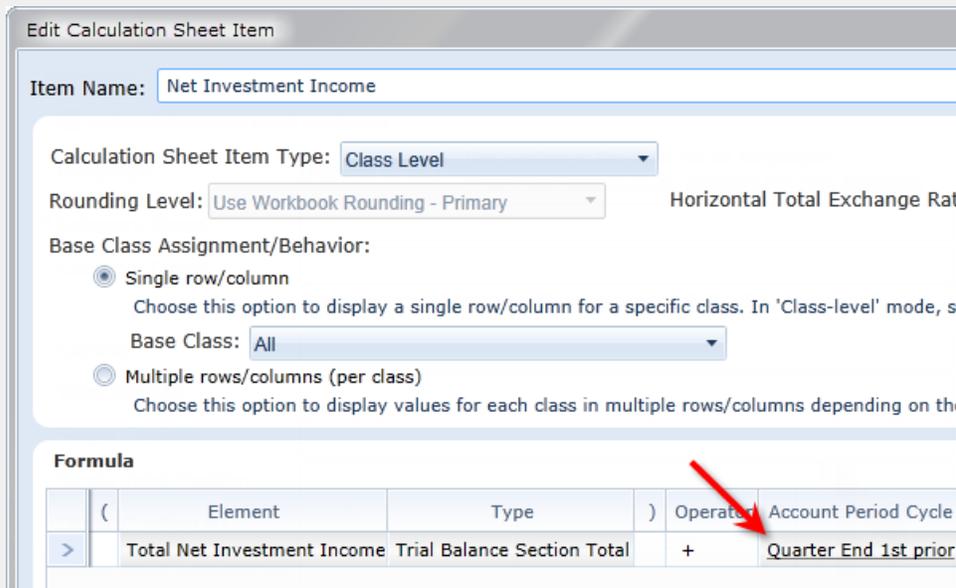
Process Changes

No changes to current processes are required.

24. Section and currency totals supported in "Currency" calculation sheets

Overview

Functionality was added to calculation sheets of type *Currency* to calculate section totals by currency. The total of all currencies and portfolio holdings data is filtered by currency code.

What's New

1. When calculating a section total, a total is calculated per currency.

2. The **None/All** value sums the total of all currency values.

3. When pulling values from the **Fund Holdings** page, the values are now filtered by the *Currency Code* value; previously, the *None/All* value repeated for all currencies.

Process Changes

No changes to current processes are required.

25. Enhancements to account for "global" charts of accounts during copy/import of financial workbook templates

Overview

Previously, when a user copied/imported a financial workbook template that was assigned "global" chart of accounts within the same complex or from one complex to another, FundSuiteArc created a duplicate chart of accounts and assigned it to the new template in the destination complex. Now, upon copy or import of a financial workbook template that has a global chart of accounts assigned, the same global chart of accounts is assigned to both templates.

What's New

FundSuiteArc was enhanced to account for "global" charts of accounts (*i.e.*, those not associated with any specific complex) when using the copy or import feature for financial workbook templates. This means that if a user copies or imports a financial workbook template within the same complex or from one complex to another, and that template has a global chart of accounts assigned, the same chart will be assigned to both the original and the new template.

1. If the target complex is the same as the complex with which the source template is associated and the financial workbook that is being copied/import is associated with a global chart of accounts, the following action occurs:

    a. FundSuiteArc assigns the same chart of accounts to the new template as is assigned to the source template.

        i. All accounts mapped in the source template are mapped in the new template.

        ii. Mapped accounts in the new template display by name and account code.

2. If the target complex is not the same as the complex with which the source template is associated and the financial workbook that is being copied/imported is associated with a global chart of accounts, the following action occurs:

    a. FundSuiteArc assigns the same chart of accounts to the new template in the target complex.

        i. All accounts mapped in the source template are mapped in the new template.

            A. The listing of non-participating general ledger accounts is empty until the user loads general ledger data for the target complex.

> **Note:**
> Any newly-added accounts found in a general ledger load for a financial workbook template associated with the target complex (and for complexes subsequently assigned the same global chart of accounts by way of a financial workbook template) are added to the global chart of accounts.

        ii. Mapped accounts in the new template display by name and account code.

Process Changes

No changes to current processes are required.

26. "Cost" and "Unrealized" calculated fields to facilitate vertical and horizontal footing on portfolio statements

Overview

FundSuiteArc was enhanced to ensure that certain sections foot horizontally in addition to footing vertically. This functionality is typically used on derivative section output when displaying *Market Value*, *Cost* and *Unrealized Value* fields that are summed vertically and horizontally.

What's New

1. **Portfolio Statement Templates page**

    a. The following data points were added to the *Calculations* tab.

        i. Cost (calculated)

            A. This data point calculates the *Cost* value for a security based on the supplied *Market Value* minus *Unrealized Value* in Fund Holdings.

                1. Formula = Market Value (footed) - Unrealized Value (footed)

        ii. Unrealized Value (calculated)

            A. This data point calculates the *Unrealized Value* for a security based on the supplied *Market Value* minus the *Cost* value in Fund Holdings.

                1. Formula = Market Value (footed) - Cost (footed)

2. **Portfolio Statement Output Settings page**

    a. Users can now display the values and totals for the two new data points.

        i. The value sums the footed values for the securities in that group.

    b. These two data points can be mapped to the following line item types:

    Category Headers/Totals, *Group Headers/Total*, *Single Security row*, *Security row*, *Aggregated Securities rows*, *Stack rows*, *Other Securities rows*, *Sub-Totals*, *Formulas* and *Total Investments*

Examples:

▪ A user creates a portfolio statement where the *Cost (calculated)* value displays, along with the *Unrealized Value* (footed) and *Market Value* (footed) values.

  ○ The user added *Market Value*, *Unrealized Value* and *Cost (calculated)* to the *Calculations* tab of the **Portfolio Statement Templates** page.

  ○ The user mapped the *Cost (calculated)*, *Unrealized Value* and *Market Value* data points on the **Portfolio Statement Template Output Settings** page.

  ○ The *Cost (calculated)* data point is calculated accurately both horizontally and vertically in statement preview on the **Project** page, and in project output.

Credit Default Swaps

Description	Cost (calculated)	Unrealized Value	Market Value
Derivative #3	225	75	300
Derivative #2	150	50	200
Derivative #1	400	100	500
Totals	**775**	**225**	**1,000**

▪ Similar to the first example, a user displays the *Unrealized Value (calculated)* data point as computed by the *Cost* and *Market Value* data points.

  ○ The *Unrealized Value (calculated)* data point is calculated accurately both horizontally and vertically.

Credit Default Swaps

Description	Cost	Unrealized Value (calculated)	Market Value
Derivative #3	100	200	300
Derivative #2	75	125	200
Derivative #1	50	450	500
Totals	**225**	**775**	**1,000**

Process Changes

No changes to current processes are required.

27. Ability to calculate all funds when previewing financial statements on the Financial Workbook page

Overview

Functionality was added to ensure that values for all funds, and the associated horizontal totals, are refreshed when previewing financial statements on the **Financial Workbook** page. Previously, only the current fund's information was refreshed.

What's New

When previewing a financial statement with multiple funds or horizontal totals on the *Financials* tab of the **Financial Workbook** page, FundSuiteArc verifies that all funds in the statement have a calculation status of *Calculated* before the data displays in the preview pane.

1. If it is determined that data for all funds has not been calculated, all funds on the spread are calculated.

    a. The financial preview pane uses the same engine as the preview pane on the **Project** page. Therefore, if the currently-selected fund is part of a spread, all funds in the spread display.

2. Once calculations are completed, all values (including horizontal totals) are current.

    > **Note:**
    > If the selected account period has a *Status* of *Closed* for the specified complex in ArcReporting, the statement may be previewed, but calculations do not run (stored values display).

Process Changes

No changes to current processes are required.

28. Ability to sum values contained in portfolio footnotes

Overview

FundSuiteArc now allows the calculation of values contained in portfolio footnotes. This functionality sums the specified holdings field for all securities assigned a given footnote. To enable this functionality, the ability to insert data points in footnote text was added on the **Footnote Libraries - Holdings** page.

What's New

1. **Footnote Libraries - Holdings page**

    a. The *Data Point* button (📄) at the top of the text editing pane was enabled.

        i. All existing data point types (as implemented in text libraries) are supported.

        ii. Clicking the *Data Point* button allows the selection of a new *Fund Holdings* data point type.
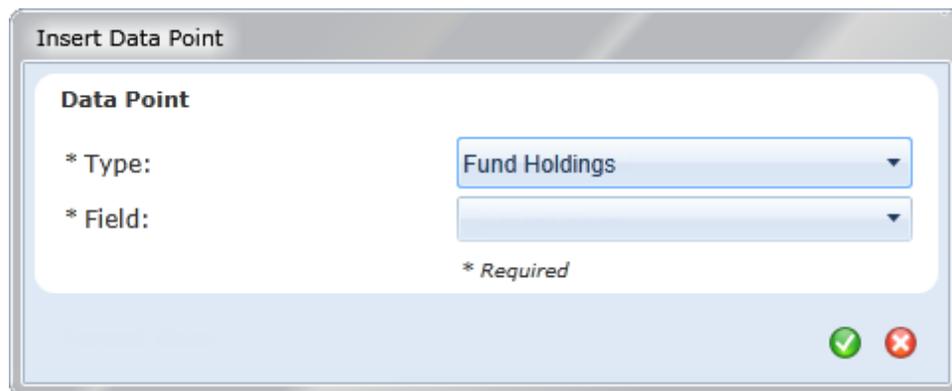
    A. After the user selects the *Fund Holdings* type, a *Field* drop-down list displays on the dialogue.

        1. Available selections include the following items:

            Accrued Interest, *Base Currency Bought*, *Base Currency Sold*, *Base Unit Price*, *Bought*, *Contract Rate*, *Exchange Rate*, *Exclude Capital Support Value*, *Include Capital Support Value*, *Local Cross Trade*, *Local Currency Bought*, *Local Currency Sold*, *Market Value*, *Market Value Ask*, *Market Value Bid*, *Notional*

Amount, Option Premium, Percent of Net Assets, Percent of Par, Percent of Total Investments, Proceeds, Purchase Amount Base, Purchase Amount Local, Purchase Cost, Shares, Sold, Sold Amount Base, Sold Amount Local, Strike Price, Unrealized Value, Unrealized Value Level 1, Unrealized Value Level 2, Unrealized Value Level 3, Unrealized Value Level Unknown, Yield

2. **Project Preview/Output**

   a. Data point values displayed in project preview and output are footed values, based on the fund's primary statement.

   b. When rendering the portfolio statement, the value of all securities assigned to a given footnote are aggregated and displayed based on the formatting options specified.

Example:

A user displays a footnote on a portfolio statement that depicts the sum of the *Market Value* and its *Percent of Net Assets* value for the group of securities that have that particular footnote attached.

▪ Footnote text setup on the **Footnote Libraries - Holdings** page.
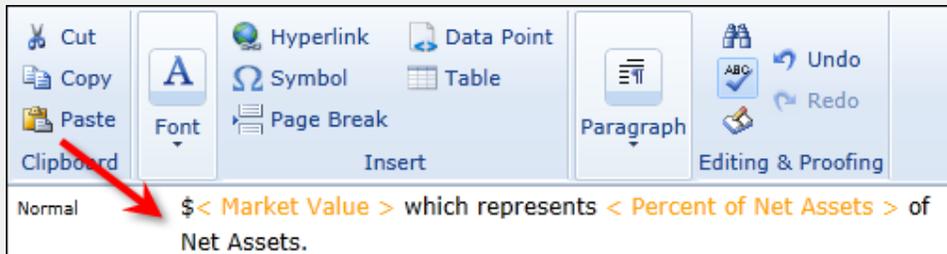
▪ Sample project preview/output for the footnote, depending on the formatting options.

Process Changes

No changes to current processes are required.

29. Ability to create page and note references

Overview

FundSuiteArc supports the creation of automated "Notes to Financials" links to reference numbers and page numbers. A user can add these links to financial statements, text library snippets and footnote library snippets in which the note or page number automatically populates during project output.

What's New

Functionality was added to allow users to determine page or note reference display location as well as the display location for the referential page or note. The *Index ID* value is the key to making this functionality work. If the user wants to display a page or note reference the *Index ID* must match the *Index ID* of a reference that was set in a text snippet. If a match is not created the page or note value will not displayed in the output document.

1. **Financial Statement Template Output Settings page**

   a. The following data points were added to the *Financial* list box of the *Data Points* tab.

      i. Display Note Reference

      ii. Display Page Reference

   b. When a user selects either of the new data points in the mapping grid, associated controls display on the *Format Items* tab.
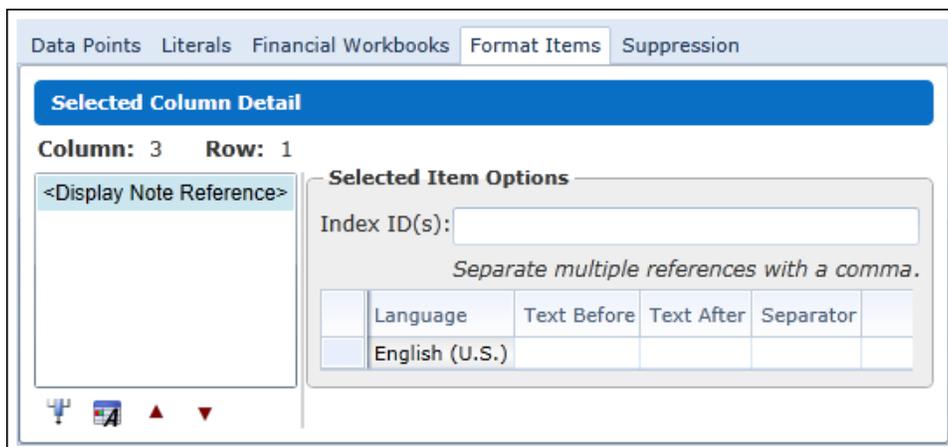
i. An *Index ID(s)* text box displays.

   A. The maximum character length is *44*.

   B. Only numeric values may be entered in the text box; spaces, letters, special characters, etc. may **not** be entered in the text box.

   Note:
   If no *Index ID(s)* value is specified in the text box, no string is inserted/displayed at all in output.

ii. A grid displays.

   A. One row displays in the grid for every language defined for the associated financial statement template on the *Languages* sub-tab of the **Financial Workbook Templates** page.

   B. The following columns display in the grid.

      1. Language

         a. Cells in the column are read-only.

         b. Displays the name of the language.

      2. Text Before

         a. Cells in the column are edible.

         b. The default value for the text box is *<blank>*.

         c. The maximum character length is *128*.

         d. The specified value is inserted before the collection of evaluated index ID (s) in the data point, for the language represented by the row.

      3. Text After

         a. Cells in the column are editable.

         b. The default value for the text box is *<blank>*.

         c. The maximum character length is *128*.

d. The specified value is inserted after the collection of evaluated index ID(s) in the data point, for the language represented by the row.

4. Separator

a. Cells in the column are editable.

b. The default value for the text box is *,* (*<comma><space>*).

c. The maximum character length is *8*.

d. The specified value is inserted between each evaluated index ID in the data point, for the language represented by the row.

> **Note:**
>
> If only one value is specified in the ***Index ID(s)*** text box, the ***Separator*** value is not inserted/displayed in output.

iii. The specified ***Text Before*** value, evaluated ***Index ID(s)*** values(s), ***Separator*** value and ***Text After*** value display in project output where the *Display Note Reference* or *Display Page Reference* data point was inserted.

> **Examples:**
> - *Display Note Reference* data point, with one ***Index ID(s)*** value specified.
>   - (See note 5)
> - *Display Page Reference* data point, with multiple ***Index ID(s)*** values specified.
>   - (See pages 7, 10, 11)

> **Note:**
>
> 1. For *Display Page Reference* data points, the value returned represents the page number on which the snippet containing the *Set Page Reference* data point begins.
>
> 2. If a given page or note reference is linked to a snippet that does not appear in the project, the associated ***Index ID*** value is replaced with a question mark symbol (?).
>
> > **Example:**
> > (See pages 7, ?, 11)

3. Page and note references are inserted/displayed only when output for an entire project is generated; no string is inserted/displayed at all in output generated using the *Generate Output for Chapter(s)* right-click context menu option on the **Project** page.

2. **Project page (preview)**

a. The specified *Text Before* value, *Separator* value and *Text After* value displays in project preview where the *Display Note Reference* or *Display Page Reference* data point was inserted.

i. Each specified *Index ID(s)* value is represented by a question mark symbol (?).

Example:
(see pages ?, ?, ?)

3. **Text Libraries page**

a. A new *Page/Note Reference* data point type was added.

i. The following selections are available in the *Item* drop-down list when inserting a data point of this type:

A. Display Note Reference

B. Display Page Reference

C. Set Page Reference (**Text Libraries** page only)

Note:
1. If this selection is specified as the data point *Item*, the data point is inserted in the snippet in its own paragraph (similar to a page break) the data point cannot be inserted inline with other snippet content.

2. Only one data point having an *Item* selection of *Set Page Reference* can be inserted in a given text snippet.

D. Set Note Reference (**Text Libraries** page only)

Note:
1. If this selection is specified as the data point *Item*, the data point is inserted in the snippet in its own paragraph (similar to a page break) the data point cannot

be inserted inline with other snippet content.

2. Only one data point having an *Item* selection of *Set Note Reference* can be inserted in a given text snippet.

ii. Data points of type *Page/Note Reference* display as follows:

A. Data points with an *Item* selection of *Display Note Reference* or *Display Page Reference*.

1. Display Note Reference Index ID - <specified Index ID>

2. Display Page Reference Index ID - <specified Index ID>

B. Data points with an *Item* selection of *Set Note Reference* or *Set Page Reference*.

1. Set Note Reference Index ID - <specified Index ID>

2. Set Page Reference Index ID - <specified Index ID>

iii. If *Page/Note Reference* is specified as the data point *Type*, an *Index ID(s)* text box is displayed.

A. The maximum character length is *44*.

B. Only numeric values may be entered in the text box; spaces, letters, special characters, etc. may **not** be entered in the text box.

4. **Footnote Libraries - Holdings and Footnote Libraries - General Ledger**

a. A new *Page/Note Reference* data point type was added.

i. The following selections are available in the *Item* drop-down list when inserting a data point of this type:

A. Display Note Reference

B. Display Page Reference

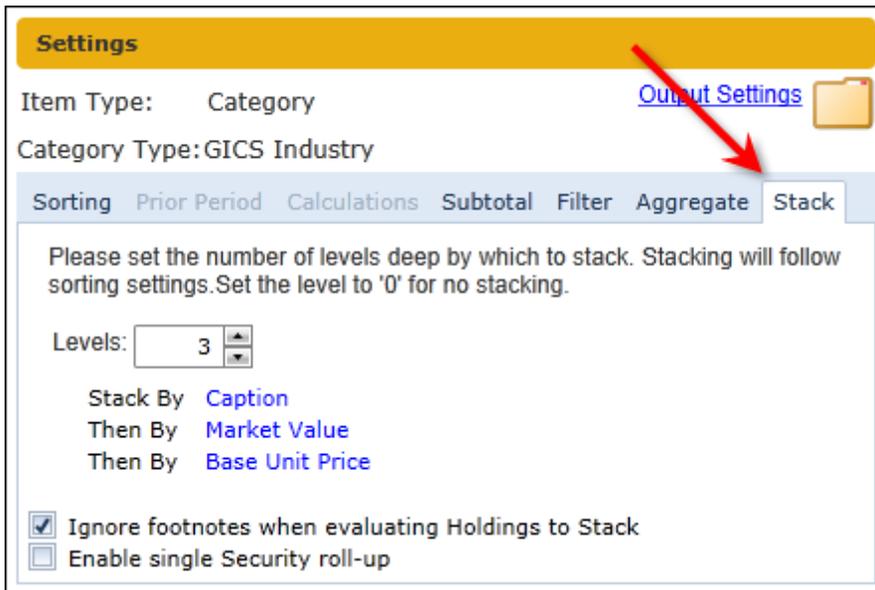## Process Changes

No changes to current processes are required.

30. Ability to enable stacking functionality for portfolio statements

Overview

FundSuiteArc was enhanced to allow utilization of stacking functionality for portfolio statements. A user can now stack securities at the category level for display in project preview and output.

What's New

1. A new *Stack* tab was added to the **Portfolio Statement Templates** page.

   a. This tab is disabled for SOIs of type *Categories*; the following applies to SOIs of type *Full* and *Condensed*, when an innermost-level category or group is selected in the tree view.

      i. A *Levels* spinner control displays on the tab.

         A. Stacking logic is tied to sorting logic. The user must stack and sort in the exact same order. There can be more sorting levels than stacking levels, but not vice versa.

         B. The default value of the spinner is *0*.

C. The spinner value can be increased up to the number of levels being sorted (set via the *Sorting* tab), or to a maximum of 5.

1. If a user attempts to increase the spinner value beyond the number of levels specified on the *Sorting* tab, a message displays to indicate that the number of stacking levels cannot exceed that number.

2. If the spinner value equals the number of columns specified on the *Sorting* tab, and the user attempts to remove any rows from the grid on the *Sorting* tab, a dialogue message displays alerting the user that the stacking level will be adjusted and the spinner value will automatically be reduced accordingly.

2. Stack level header and total nodes display in the tree view of the **Portfolio Statement Template Output Settings** page, based on the number of levels specified on the *Stacking* tab on the associated portfolio statement template (see the example in the figure below).
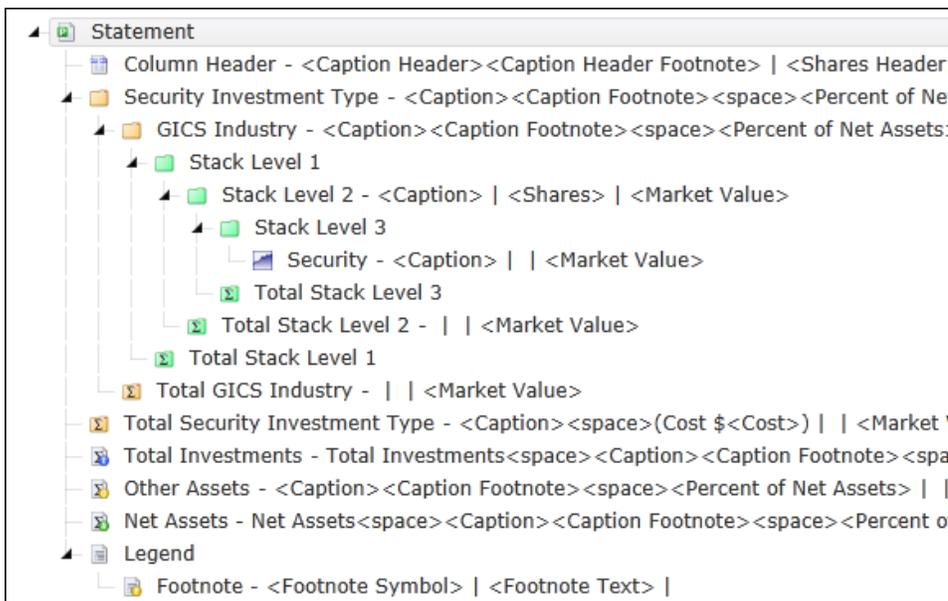
a. The following nodes are present in the statement tree view when stacking functionality is enabled:

i. Stack Level Header

A. This node displays in the following format:

Stack Level <stack level number>

> **Note:**
>
> Since the user can set up *Security*, *Security Single*, *Aggregated Securities*, *Other Securities* and stacking within a single innermost category, when stacking logic is setup and *Security Single* logic is enabled, the *Security Single* output settings are used in a situation where only one security displays within the category.

    ii. Security

    iii. Stack Level Total

        A. This node displays in the following format:

        Total Stack Level <stack level number>

3. All stacking row types are supported in project preview and output.

    a. The stacking row types must be mapped on the **Portfolio Statement Template Output Settings** page to view stacking in project preview/output.

> **Note:**
>
> For row types *Stack Level Header* and *Stack Level Total*, only the *Caption* and *Market Value* data points are currently supported.

Process Changes

No changes to current processes are required.

31. Ability to specify different rounding settings for the same value within a portfolio statement template

Overview

New functionality allows the setup of different rounding parameters for the same numeric value in a portfolio statement. This requirement integrates the concept of multiple rounding levels within a single statement.

What's New

For portfolio statement templates of type *Full* and *Condensed*, different rounding settings for a given numeric value can now be specified for categories, category exceptions and groups on the *Calculations* tab of the **Portfolio Statement Templates** page.
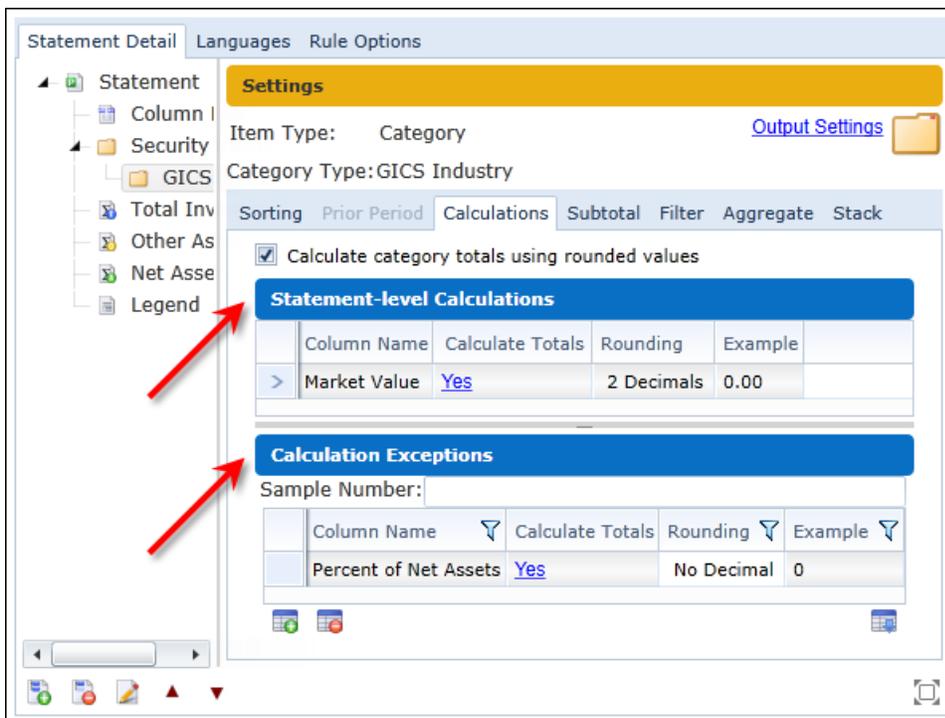
1. A ***Statement-level Calculations*** group box was added to the tab.

   a. A read-only grid displays calculation settings for the *Statement* node of the current template and includes all columns and data that display when the *Statement* node is selected in the tree view.

2. A ***Calculation Exceptions*** group box was added to the tab.

   a. A ***Sample Number*** text box displays at the top of the group box, in which any integer value may be entered. Once a rounding level is designated for any field added to the calculation exceptions grid, the specified numeric value is displayed accordingly in the ***Example*** column of the grid.

   b. A grid displays below the ***Sample Number*** text box, in which any number of exceptions may be added and defined.

      i. Users can add an exception to the grid by clicking the ***Add*** button (⊞) at lower-left of the grid.

         A. The column for which a calculation exception will be created is specified using the ***Column Name*** drop-down list on the dialogue that displays.
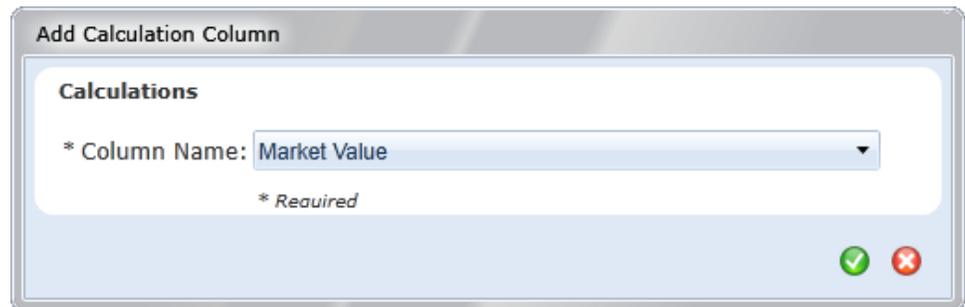
         1. ***Column Name*** selections are the same as those available for the *Statement* node of the template.

      ii. Users can remove exceptions from the grid by clicking the ***Delete*** button (⊞) at lower-left of the grid.

      iii. Users can export a listing of calculation exception definitions for selected category/category exception/group by clicking the ***Export Data*** button (⊞) at lower-right of the grid.

Additional Information

▪ As long as a given field is listed as a calculation exception at the category/category exception/group level, footing and totaling logic will not be applied to its value; all total values will display as zero (*0*).

- If the field exception is removed, the group totaling and footing is applied for that field.

▪ Any fields that have a rounding exception will display as zero (*0*) if they are shown in a *Category Total* line item, the *Total Investments* line item, or in a formula.

▪ Any fields that have a rounding exception will display as zero (*0*) if a user attempts to use them in calculation sheet values, "secondary" portfolio statements or portfolio statements of type *Categories*.

Process Changes

No changes to current processes are required.

# 32. Portfolio single security output logic

Overview

FundSuiteArc was enhanced to allow the specification of different output settings for a security line item in situations where the security is the only one in a given category. This functionality will typically be used in conjunction with the existing logic for category total suppression when a single security is displayed.

What's New

1. Distinct row layout mapping can be defined on the **Portfolio Statement Output Settings** page for cases where only a single security exists in a given category.

    a. For innermost category totals where single security logic would take place, a new *Enable single security row layout* check box option displays on the *Suppression* tab of the page.

        i. The check box is located beneath and as a "child" of the existing *Suppress category total if single item is displayed* check box.

            A. This check box is cleared by default when creating a new portfolio statement template.
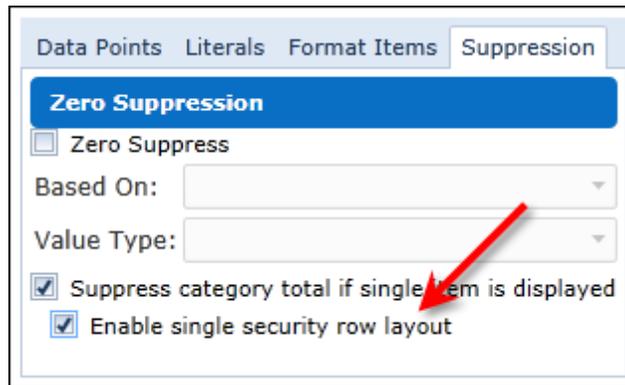
            B. When the check box is selected, the following occurs:

                1. An item of type *Security Single* displays in the tree view above the *Security* item for the selected category after the *Save* button is clicked.
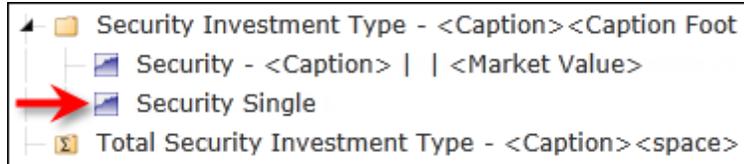
2. If the selected category has only one security, the mappings/settings for the *Security Single* item are used for statement preview and output, rather than those for the *Security* item.

> **Note:**
> This logic applies if the single security appears within any of the following areas:
>
> 1. An **Other Securities** section on a statement of type *Condensed*
>
> 2. An **Aggregated Securities** section
>
> 3. A **Stack** section

C. When the check box is cleared, the *Security Single* item and any associated mappings/settings are removed from the template after the **Save** button is clicked.

2. Data points from the **Security** list box on the **Data Points** tab can be dragged and dropped in the mapping grid for *Security Single* tree view items.

Process Changes

No changes to current processes are required.

33. N-SAR calculation sheet and Excel export for use in FundSuite ComFiler

Overview

Functionality was added to create a standard N-SAR calculation sheet. A user can create formulas just like any other calculation sheet to determine the N-SAR values. This calculation sheet can be exported from ArcReporting and imported into FundSuite ComFiler.

What's New

1. Users can now specify a calculation sheet type of *N-SAR* via the **Calculation Sheets** tab of the **Financial Workbook Templates** page.
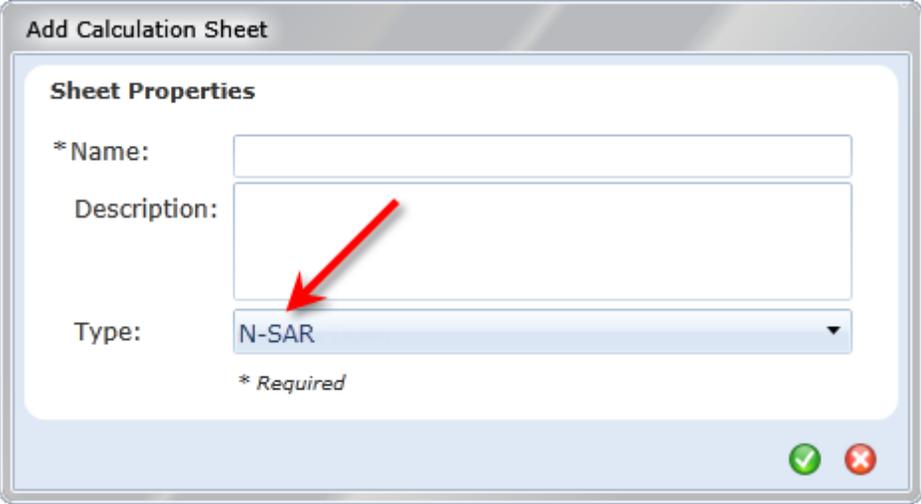
a. Calculation sheets of this type are automatically populated with a standard list of all questions that can be imported into FundSuite ComFiler.
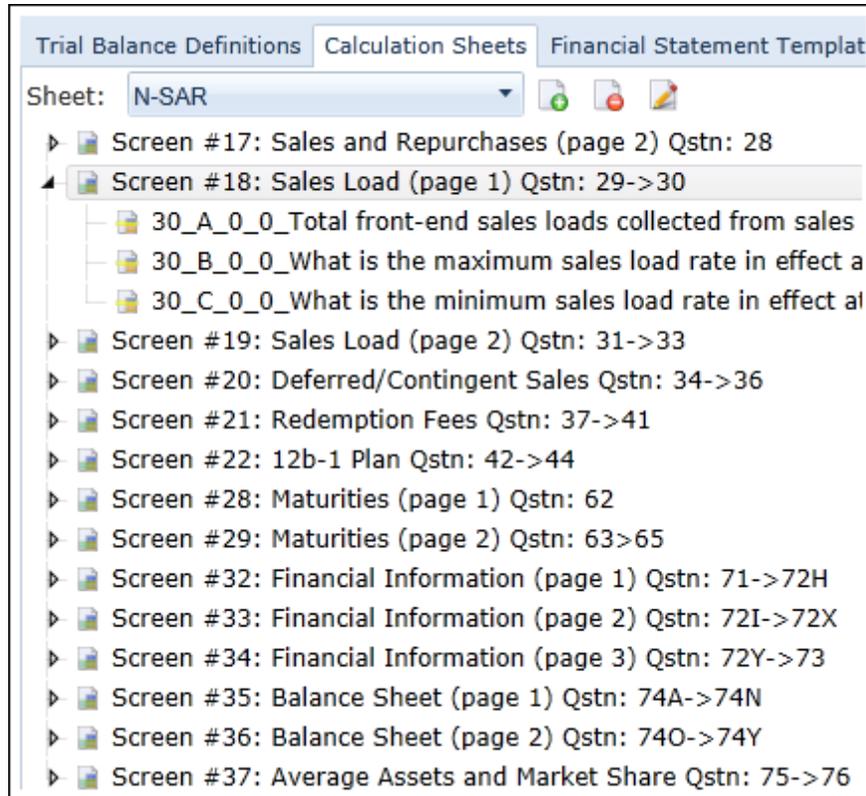
i. One section is created in the calculation sheet for each of a series of specific N-SAR filing screens.

ii. One item is created within each section for each of a series of specific N-SAR filing questions.

b. Any number of calculation sheets of type *N-SAR* can be created in a given workbook template.

Note:

1. Users cannot manually add sections, items or labels to the calculation sheet.

   a. The *Add section*, *Add item* and *Add label* buttons are disabled.

2. Users cannot edit sections, items, or labels.

   a. The *Edit* button for editing sections and items is disabled.

   b. The *Item Name* value cannot be edited.

3. Users cannot remove sections or items.

   a. The *Remove* button is disabled.

4. Users cannot move sections or items up or down in the tree view.

   a. The *Move up* and the *Move down* buttons are disabled.

2. A new *Batch N-SAR Output* item was added to the **Production Utilities** menu section.
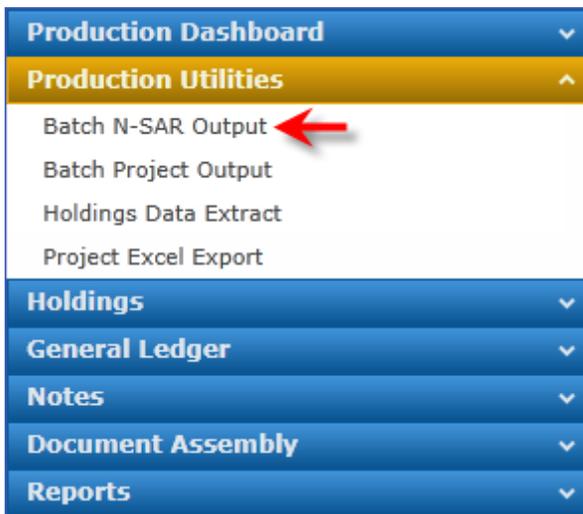
   a. The menu item is disabled if the current user is not assigned the *Open Batch N-SAR Output Page* user right.

b. Clicking the menu item causes the **Batch N-SAR Output** page to display.
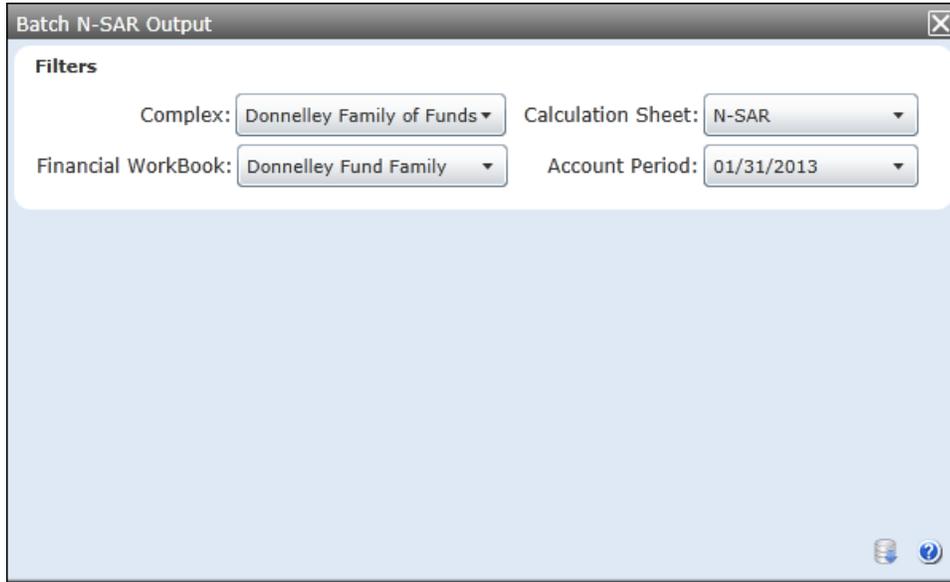
i. The following output filters display at the top of the page:

A. Complex

1. The following selections are available:

a. <All>

i. This selection allows searching across all complexes to which the current user has access.

b. <All other complexes to which the current user has access>

c. The default selection is the complex specified in the fund selection bar.

B. Financial Workbook

1. The following selections are available:

a. <All workbooks associated with the specified complex>

2. The default selection is the first workbook in the list.

    C. Calculation Sheet

        1. The following selections are available:

            a. <All calculation sheets of type *N-SAR* defined within the template for the specified financial workbook>

        2. The default selection is the first calculation sheet in the list.

    D. Account Period

        1. The following selections are available.

            a. <All account periods that exist in the database>

        2. The default selection is the account period specified in the fund selection bar.

ii. Clicking the ***Generate output*** button (⬛) at lower-right of the page generates an Excel (XLS) file containing N-SAR questions and answers meeting the specified filter criteria.

    A. Output can be retrieved from the Output Queue.

        1. The Excel file can be edited, as required, and then loaded into the FundSuite ComFiler application.

Process Changes

No changes to current processes are required.

34. New interface to assign and preview footnotes for portfolio statements

Overview

FundSuiteArc now allows manual assignment of footnotes to portfolio statement category header and category total line items, the "Total Investments", "Other Assets" and "Net Assets" lines and statement column headers. Footnote assignment is carried out on a new page in ArcReporting, where users can also preview the appearance of footnotes on the statement.

What's New

1. A *Footnote Preview and Assignment* menu item was added to the **Holdings** menu section.
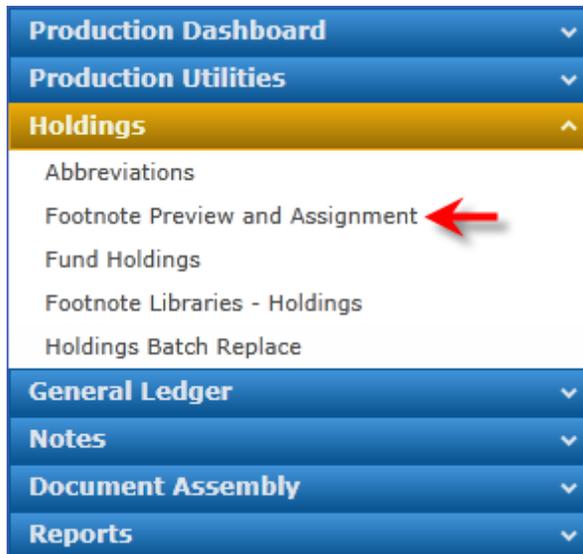
2. A *Footnote Preview and Assignment* link was added to the **Fund Holdings** page.

3. Clicking the new menu item or the new link on the **Fund Holdings** page causes the new **Footnote Preview and Assignment** page to open.
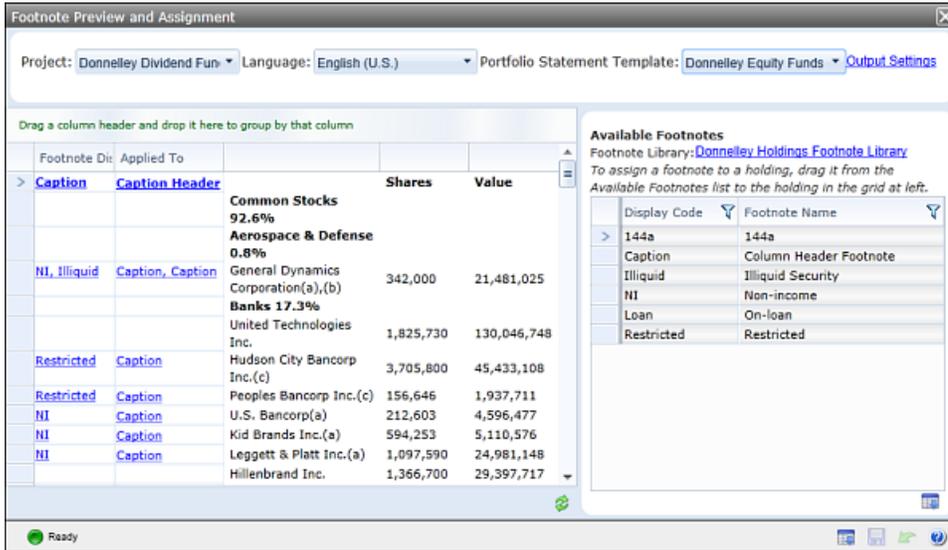
Note:

A user must be assigned the *Open Footnote Preview and Assignment Page* user right to access the page; the menu item and the link on the **Fund Holdings** page are disabled if the current user does not have appropriate permissions.

a. Users specify the template to which footnotes will be assigned using a series of drop-down lists at the top of the page:

   i. **Project**

      A. Displays all projects available, based on the selections in the fund selection bar.

   ii. **Language**

      A. The languages available for selection are limited to those which were defined in the specified project's template when the template and the project were last "in-sync".

         1. Languages are listed in ascending alphabetical order.

         2. The first language in the list is selected by default once the *Project* drop-down list selection is made.

iii. **Portfolio Statement Template**

A. Available selections in the drop-down list include all portfolio statement templates in use by the specified *Project* for the currently-selected fund and account period in the fund selection bar.

1. No selections are available in the drop-down list if *All Fund Groups* or *All Funds* is specified in the fund selection bar at the time the page is opened.

> **Note:**
> Users cannot manually assign footnotes until a portfolio statement template has been created.

iv. **Output Settings (link)**

A. Clicking this link takes the user to the **Portfolio Statement Output Settings** page.

1. The link takes the user to the actual portfolio statement outputs which corresponds to the portfolio statement selected on the **Footnote Preview and Assignment** page.

2. This link only works after the user selects a portfolio statement on the **Footnote Preview and Assignment** page

b. An *Available Footnotes* grid displays at right of the page, which lists the symbol/code and name of each footnote contained in the assigned footnote library.

i. The library whose footnotes are displayed in the grid represents that which is assigned to the current fund in the **Fund Report Settings** page.

ii. If the properties of any listed footnotes require review or editing, or if additional footnotes need to be created in the library, users can easily access the library by clicking the *Footnote Library* link above the grid.

> **Note:**
>
> The user must have the *Open Footnote Libraries - Holdings Page* user right assigned in order to access the **Footnote Libraries - Holdings** page via the *Footnote Library* link.

    A. If no library is assigned to the currently selected fund, the following read-only text displays instead of a clickable link:

        [no library assigned to fund]

iii. Footnotes can be dragged and dropped from the grid to any number of line items in the statement preview grid at left of the page.

> **Note:**
>
> Footnotes cannot be assigned to any of the following types of line items:
>
> *Group Header*, *Group Total*, *Group Exception Header*, *Group Exception Total*, *Aggregated Category*, *Positive Subtotal*, *Negative SubTotal*, *Stack Level Header*, *Stack Level Total*, *Other Securities*, *Legend*, *Footnote Legend*, *Abbreviation Legend*, *Currency Legend*, *Text*

iv. Users can export a listing of footnotes and associated symbols/codes in the library by clicking the *Export Data* button ( ) at lower-right of the grid.

c. A statement preview grid displays at left of the page.

    i. When a specific fund group and fund are specified in the fund selection bar, the left portion of the grid displays a preview of the specified *Portfolio Statement Template*.

> **Note:**
>
> The following information text displays in the grid if *All Fund Groups* or *All Funds* is specified in the fund selection bar:
>
> *Please specify a fund group and fund in the fund selection bar in order to view and assign footnotes for a portfolio statement template.*

ii.   The following columns display in the grid alongside the statement line item preview:

   A.   Footnote Display Code(s)

      1.   A comma-delimited list of the *Display Code* for each footnote attached to a
           given line item displays in the cell.

      2.   The string in the cell displays as a blue clickable link.

   B.   Applied To

      1.   A comma-delimited list of the specified *Applied To* field names for each footnote
           attached to a given line item displays in the cell.

      2.   The string in the cell displays as a blue clickable link.

iii. Clicking a link in either the *Footnote Display Code(s)* or *Applied To* column for a given
      statement line item causes an **Assigned Footnotes** dialogue to display.
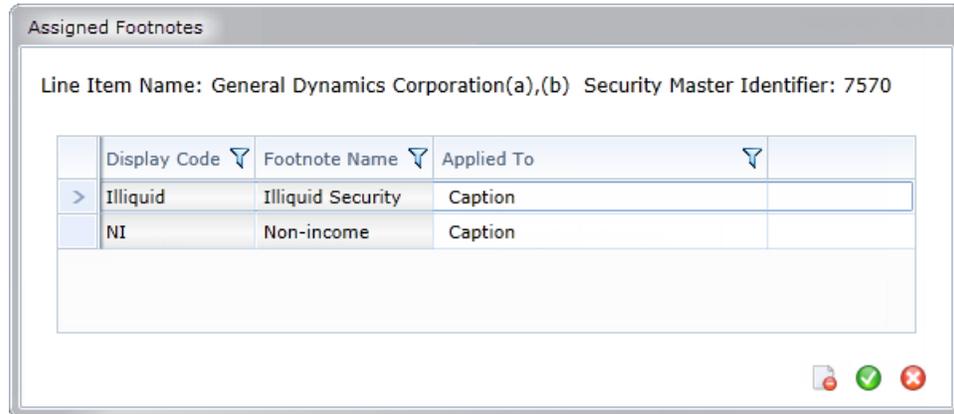
   A.   A read-only *Line Item Name* field displays the name of the selected line item.

   B.   If a link associated with a security line item is clicked, a read-only *Security Master
        Identifier* field displays the Master Identifier of the selected security record.

   C.   A grid displays beneath the *Line Item Name* field.

      1.   If more than one footnote is attached to a given statement line item, the footnote
           rows are displayed in alphabetical order from top-to-bottom, by the footnotes'
           Display Code value. Special characters (*e.g.*, dagger, double-dagger, etc.) and

numbers will sort as they will among alpha characters.

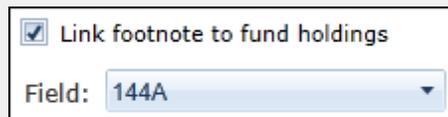2. The grid contains the following columns and functions:

    a. Display Code

    b. Footnote Name

    c. Applied To

        i. A drop-down list is contained in the cells of this column. For column header line items, the following selections are available:

        Caption Header, *Category Caption Header*, *Column Header 1*, *Column Header 2*, *Column Header 3*, *Cost Header*, *Currency Header*, *CUSIP Header*, *Date Header*, *Final Maturity Date Header*, *Percentage Header*, *Rate Header*, *Ratings Header*, *Shares Header*, *Value Header*

D. Users can remove any given footnote from a line item by selecting it in the grid and clicking the *Delete* button (🗑) at lower-right of the dialogue.

> **Note:**
>
> If the *Link footnote to fund holdings* check box for the footnote being added to to a security is selected (via the **Footnote Libraries - Holdings** page), and the specified holdings field is set to *True* for the current security, the field check box for the current security is cleared (set to *False*) when the user clicks the *Save* button.
>
>
>
> 1. As a consequence of the field being set to *False*, any other footnotes linked to the field are automatically removed from the security when the user clicks the *Save* button.

E. Clicking the *Accept* button (✓) closes the dialogue and applies the footnote(s) listed in the grid to the selected line item.

F. Clicking the *Cancel* button (⊗) closes the dialogue, with no change to the footnote(s) applied to the selected line item.

d. Clicking the *Refresh* button (↻) refreshes the statement preview displayed at left of the page, reflecting the exact location of footnotes on line items, based on the output setting for the portfolio statement template.

> **Note:**
> If a footnote appears in the *Footnote Display Code(s)* column but not in the statement preview, the user should check the portfolio statement template's output settings to ensure that the footnote field is mapped.

Footnote Preview Behavior by Line Item Type

- Security

  - Footnotes assigned to securities roll forward from period to period if the footnote is linked to a *Security Library* field.

  - Footnotes attached to securities display on all portfolio statements for that fund and period.

  - All other footnote assignments roll forward based on the *Prevent Footnote History Clearing* setting in the footnote library.

- Column Header, Category, Formula, "Total Investments", "Other Assets" and "Net Assets"

  - Any footnotes assigned are specific to the fund, account period and portfolio statement template; therefore, any footnote assigned on this page only displays for this fund, for the assigned account period and template.

  - Footnotes attached to categories only apply to that specific statement (and fund and account period).

  - Footnote assignments roll forward based on the *Prevent Footnote History Clearing* setting in the footnote library.

  - If footnotes need to be assigned to other funds, account periods or templates, they can be added by viewing the template and assigning them for that account period, fund or template.

- Category Header and Category Total

  - When assigning footnotes to categories, the footnotes assignment is very specific. Since the categories can be tiered, the assignment is specific to that tier.

    > **Note:**
    > If the same category appears multiple times within a statement under a different parent category, in order to have different footnote attachments on that category, the user must create category exceptions for the parent categories or the child category.

Additional Information

- Multiple footnotes can be attached to a single line item and are displayed in a comma-delimited list.

- As footnotes are added to any given statement line item, they are applied to a specific field by default, as shown below, and this value displays in the *Applied To* column of the statement preview grid.

  - Column Header

    - Applied to *Caption Header* field by default.

  - Formula, Category Header, Category Total, Category Exception Header, Category Exception Total, Security, Other Securities, Total Investments, Other Assets, Net Assets

    - Applied to *Caption* field by default.

Process Changes

No changes to current processes are required.

35. "Rounded to Zero" value display options

Overview

Functionality was added to allow for a distinction in display type between values that were rounded to zero and values that are actually zero. For example, if a value is set to display to 2 decimals, but the underlying value is *0.004*, the user may want the value to display as *0.00* instead of *-* (a dash) to distinguish it from values that are actually zero.

What's New

A *Rounded to Zero Display* drop-down list was added to the *Format Items* tab of the **Portfolio Statement Template Output Settings** and **Financial Statement Template Output Settings** pages.

1. The following formatting options are available for numeric data points:

   a. 0 - Decimals based on rounding level

      > **Note:**
      > This option puts a zero in front of the decimal (where applicable).
      >
      > 1. If the rounding option is set to *000's* or *000's (suppressed)*, any value less than 500 (*e.g.*, *499*) is shown as *0*.
      >
      > 2. If the rounding option is set to *000's* or *000's (suppressed)*, any value above 499 is rounded up (*e.g.*, *500*) is rounded to *1,000* or *1* depending on the rounding setting.

   b. 0

   c. .0, .00, .000, .0000, .00000, .000000

   d. 0.0, 0.00, 0.000, 0.0000, 0.00000, 0.000000

   e. Blank

   f. Dash (-)

   g. Em Dash (—)

   h. n/a, N/A

i. zero, Zero, ZERO

j. zero coupon, Zero coupon, Zero Coupon, ZERO COUPON

k. (0), (.0), (.00), (.000), (.0000), (.00000), (.000000)

l. (0.0), (0.00), (0.000), (0.0000), (0.00000), (0.000000)

Process Changes

No changes to current processes are required.

36. Ability to change "Calculation Sheet Item Type" setting for existing calculation sheet items

Overview

FundSuiteArc now allows the editing of the *Calculation Sheet Item Type* setting on any previously-created calculation sheet item.

What's New

The *Calculation Sheet Item Type* setting can be changed for any existing calculation sheet item on the **Edit Calculation Sheet Item** dialogue.

Note:

If the calculation sheet item formula contains any existing elements added to it, they will be removed when the item type value is changed. The user will be alerted to that fact with a pop-up confirmation message.

- If the user clicks *Yes*, elements in the formula are removed from the formula grid and the *Calculation Sheet Item Type* setting is changed.

- If the user clicks *No*, elements in the formula are not removed from the formula grid and the *Calculation Sheet Item Type* setting is not changed.

Process Changes

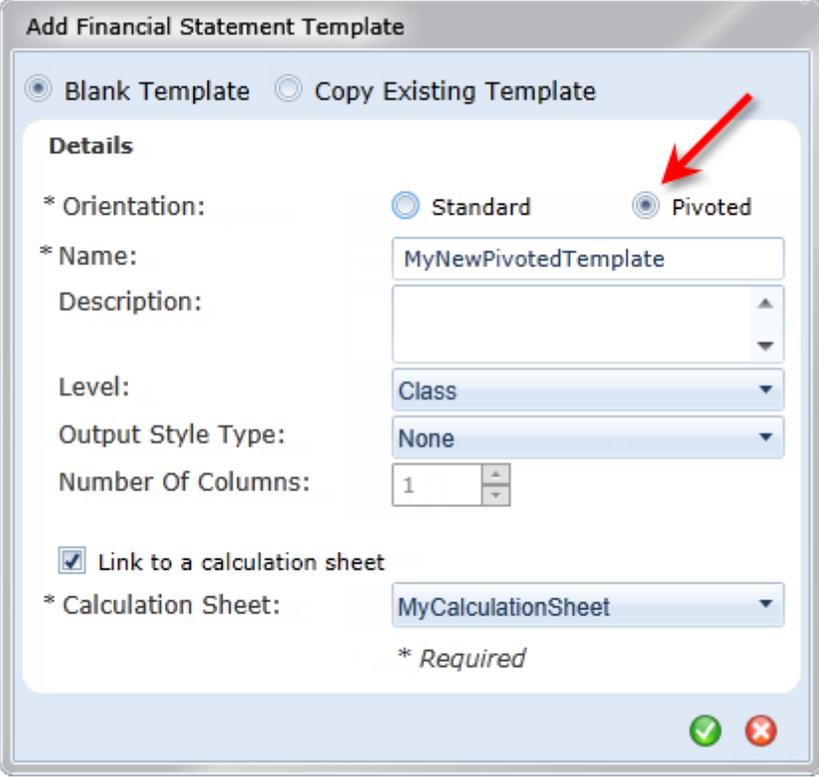No changes to current processes are required.

37. Pivoted financial statement setup and output

Overview

ArcReporting was enhanced to allow users to create pivoted financial statement templates. These pivoted statement templates will allow users to set up columns of data (vs. rows of data in a standard template) and repeat rows by fund, class and/or account period.

What's New

1. The *Pivoted* orientation option is now available on the **Add Financial Statement Template** dialogue when creating a new template via the *Financial Statement Templates* tab of the **Financial Workbook Templates** page.

a. Users can give the new template a name, description and output style, similar to statement templates of *Standard* orientation.

b. Users can also link pivoted statement templates to a calculation sheet, similar to statement templates of *Standard* orientation.

> **Note:**
> This choice is irreversible once the new template is added.

2. The *Financial Statement Templates* tab of the **Financial Workbook Templates** page was modified specifically to accommodate pivoted statement templates. The user interface looks similar to that of standard financial statement templates, and has similar settings; however the template *Definition* tab is located above the *Available Items* tab, which facilitates a "landscape view" of statement content. Items are added to the template definition by dragging from bottom-to-top, instead of from right-to-left.
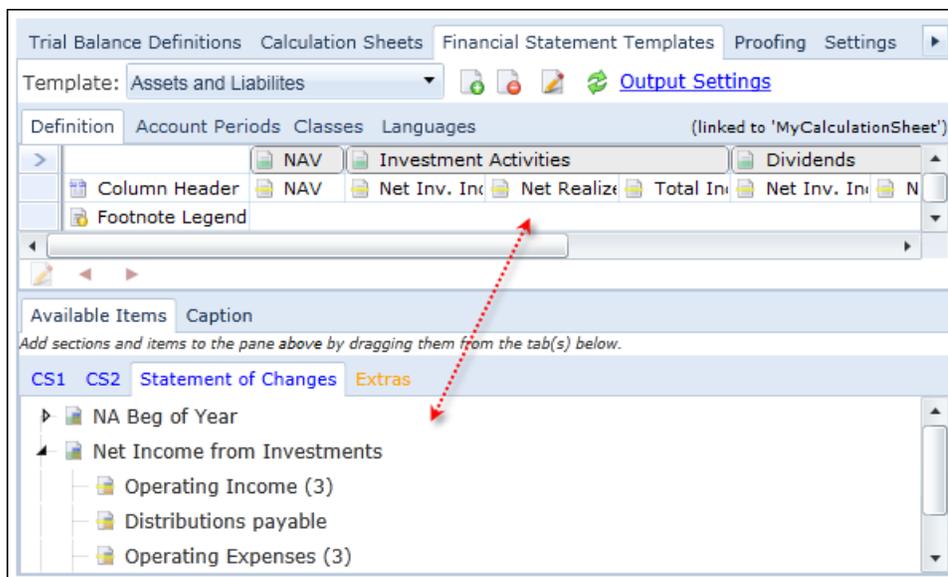
a. Users may only add items from calculation sheets to pivoted statement templates; pivoted templates do not support adding items directly from the trial balance.

b. As users drag-and-drop items from calculation sheets into a pivoted statement template, the following will be true:

i. One row is displayed at the top of the template grid to accommodate statement template sections.

ii. A second row is displayed in the grid to contain the *Column Header* node and statement items.

> **Note:**
>
> Only one *Column Header* node can be added to the grid.

iii. A third row is displayed in the grid to contain the *Footnote Legend* node.

> **Note:**
>
> Only one *Footnote Legend node* can be added to the grid.

iv. The cells in the leftmost column of the grid display the following read-only label for each of the three rows.

    A. *Sections* (row 1)

    B. *Items* (row 2)

    C. *Footnotes* (row 3)

v. Users may drag-and-drop items to/from the template structure, and make use of the *Move item left* and/or *Move item right* buttons (◄ ►) at lower-left of the grid to change the order of items in the structure.
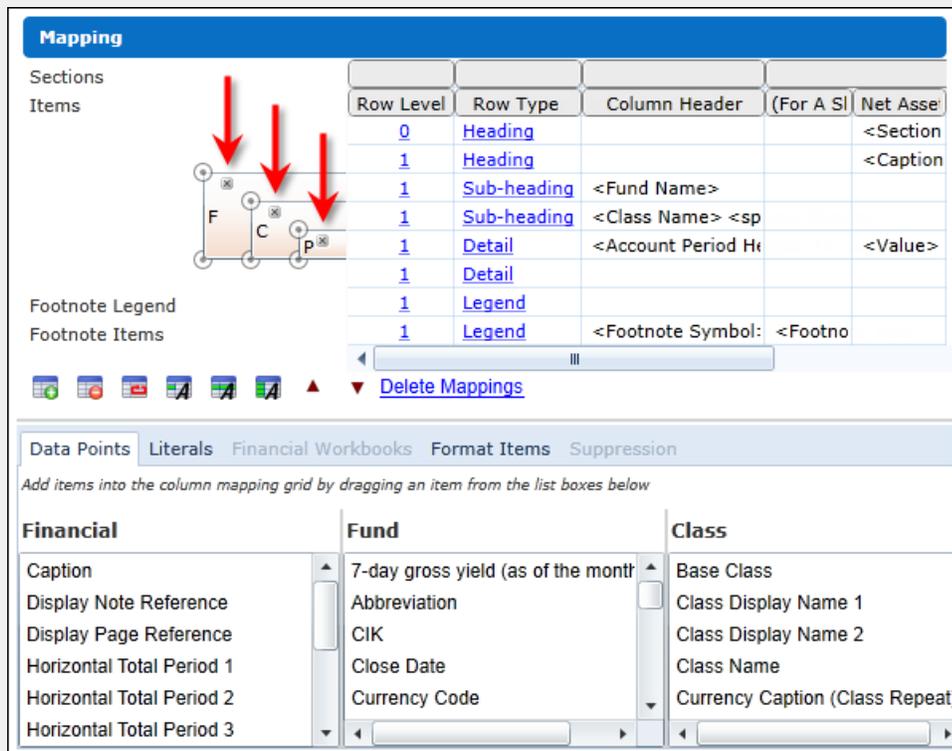
3. The *Mapping* grid of the **Financial Statement Template Output Settings** page was reconfigured to allow for management of settings for statement templates of *Pivoted* orientation.

    a. Similar to the grid on the *Financial Statement Templates* tab, the output settings mapping grid is displayed in a landscape view and users can drag-and-drop items into it from the *Data Points* and *Literals* tabs beneath.

       i. The first row in the grid displays sections that are defined in the statement template.

       ii. The second row in the grid displays the *Row Level* and *Row Type* column labels, as well as items contained in the statement (*e.g.*, *Column Header*, etc.).

       iii. The row(s) beneath the second row display items that are dropped into the mapping grid.

       iv. The penultimate row in the grid displays the footnote legend.

          A. A *Footnote Legend* label is displayed at left of the row.

       v. The bottom row in the grid displays footnote items that are dropped into the mapping grid.

          A. A *Footnote Items* label is displayed at left of the row.

b. Users can format rows, columns and cells by clicking the corresponding buttons at lower-left of the mapping grid and applying the desired settings.

c. In order to repeat statement rows in project preview and output, users must add a repeat group to the row(s) they want to repeat.

Example:

A user wants certain rows in a statement to repeat by fund, then by class, then by account period. To achieve the desired result, the user must apply three repeat groups to the set of rows:

1. The *Fund* repeat group will repeat all the rows within in for each fund.

2. The *Class* repeat group will repeat for all the classes within the fund, before moving onto the next fund.

3. The *Account Period* repeat group will repeat for all the account periods within the class, before moving onto the next class.

The figure below represents the project preview of the pivoted statement template whose settings are described in this example:

Additional Information

Cell spanning/merging in pivoted templates is not currently supported via the **Financial Statement Template Output Settings** page; cell spanning functionality will be added in a future product release.

Process Changes

No changes to current processes are required.

38. Ability to exclude reversed adjustments from the General Ledger Transactions report

Overview

Users can now exclude an entry and its reversal from the General Ledger Transactions report. New functionality allows any given entry to be reversed only once and prohibits a user to reverse a reversal. In addition, the functionality allows a user to create a "new" entry based on a reversal and book the exact opposite of the original entry.

What's New

1. When a user clicks the existing *Reverse Batch* link for a particular transaction on the **General Ledger Transactions** page, a confirmation message displays.

   a. If the user clicks the *OK* button, a new **Reverse Batch** dialogue displays, in which a memo for the reversal can be entered.
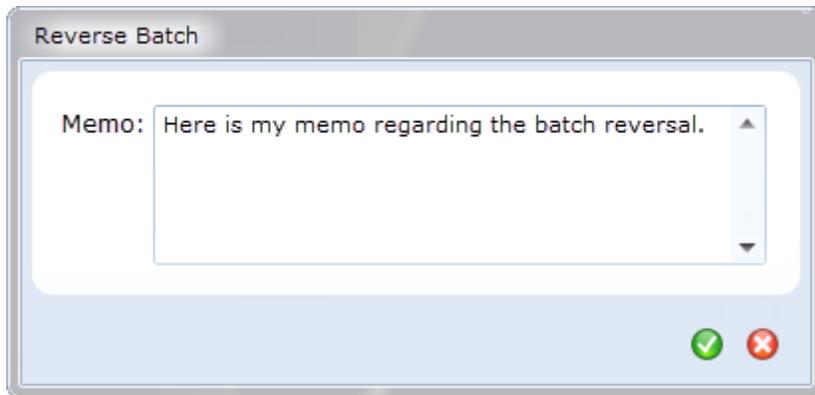
   i. Clicking the *Accept* button on the dialogue causes the following to occur:

      A. An opposite journal entry for each adjustment in the selected batch is created and booked.

         1. The adjustment made is of the opposite type (*i.e.*, a debit becomes a credit, and a credit becomes a debit).

2. The *Transaction Source* value for each entry is set to *Reverse*.

3. The *Editing User* value for each entry is set to the name of the user who performed the reversal.

B. A new batch number is created and associated with each new journal entry made.

C. The following information is placed in the *Memo* field for the new batch:

Reversed Batch #<Batch Number of reversed batch> : <Memo text of reversed batch>[: <Reversal memo text (if provided)>]

> **Example:**
> *Reversed Batch #1: As of trade: As of trade was canceled.*

D. The *Reversed/Reversal* value of the original (reversed) batch is set to *Reversed*.

E. The *Reversed/Reversal* value of the new (reversal) batch is set to *Reversal*.

F. The results grid of the **General Ledger Transactions** page refreshes so that the new batch and associated entries display in the grid (assuming they meet the specified search criteria).

G. The *Status* of the financial workbook associated with the fund and account period is set to *Not Calculated*.

  ii. Clicking the *Cancel* button closes the dialogue and no reversal of adjustments is made.

> **Note:**
> The *Reverse Batch* link may be used only one time against the same batch. If the link is clicked when a batch of either *Reversed* or *Reversal* is selected in the results grid, the user is prompted with the option to create an "opposite entry", instead.

2. A new *Create Opposite Entry* link was added to the **General Ledger Transactions** page.

 a. The link is enabled when any row in the results grid that represents an account adjustment is selected.

 b. The link can be used an indefinite number of times against any given batch.

c. When a user clicks the link for a particular transaction, a **Create Opposite Entry** dialogue displays, in which a memo for the entry is entered.
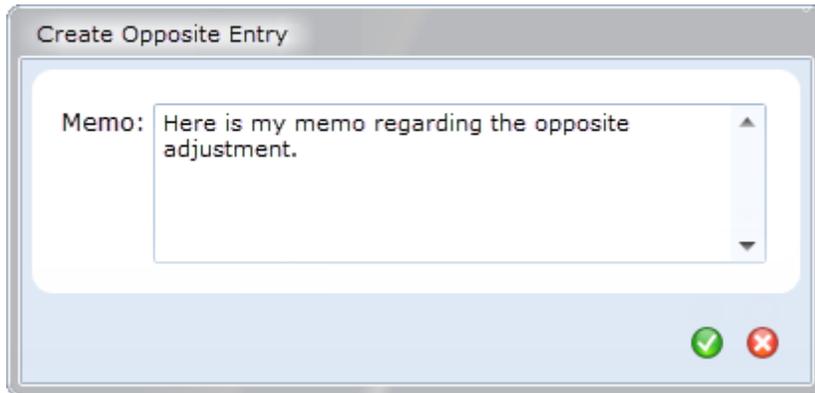
i. Clicking the *Accept* button on the dialogue causes the following to occur:

A. An opposite journal entry for each adjustment in the selected batch is created and booked.

1. The adjustment made is of the opposite type (*i.e.*, a debit becomes a credit, and a credit becomes a debit).

2. The *Transaction Source* value for each entry is set to *Manual Entry*.

3. The *Editing User* value for each entry sets to the name of the user who made the entry.

B. A new batch number is created and associated with each new journal entry made.

C. The text entered in the *Memo* multi-line text box is placed in the *Memo* field for the new batch.

D. The *Reversed/Reversal* value if the new batch is <blank> (*i.e.*, no value is set).

E. The results grid of the **General Ledger Transactions** page refreshes so that the new batch and associated entries display in the grid (assuming they meet the specified search criteria).

F. The *Status* of the financial workbook associated with the fund and account period of the

batch is set to *Not Calculated*.

ii. Clicking the ***Cancel*** button closes the dialogue and no new entry is made.

Process Changes

No changes to current processes are required.

39. Ability to move trial balance account mappings from one item to another

Overview

FundSuiteArc now supports the relocation of previously-mapped general ledger accounts directly to another item within a given trial balance definition. New functionality also allows a user to select multiple accounts when dragging and dropping from the *Non-Participating Accounts* grid to trial balance items.

What's New

General ledger accounts in the tree view structure of the *Trial Balance Definitions* tab on the **Financial Workbook Templates** page can now be moved from one item to another within the structure by dragging and dropping.

- A single account within a given item can be selected for the drag-and-drop operation by clicking once with the left mouse button.

- Multiple accounts within a given item (not across multiple items) can be selected for the drag-and-drop operation.

  - Accounts grouped together within an item can be selected by left-clicking the first account with the mouse, pressing and holding the `<Shift>` key, then left-clicking the last account with the mouse.

  - Accounts not grouped together within a item can be selected by pressing and holding the `<Ctrl>` key while left-clicking desired accounts with the mouse.

- Multiple accounts can be selected from an item, and dragged-and-dropped to the *Non-Participating Accounts* list.

Process Changes

No changes to current processes are required.

40. Automated Charting

Overview

ArcReporting was enhanced to allow the creation of charts using an automated charting engine known as ArcCharting. ArcReporting can communicate chart information to ArcCharting and return a JPG preview of the chart on the **Project** page. An EPS image of the chart is also generated and is inserted into project output. ArcReporting supports previewing chart data for portfolio statements, financial statements and tabular data.

What's New

1. **Document Structure Templates page**

    a. A user can now add a new *Chart* item () to any chapter, except for chapters of type *Common Content*.
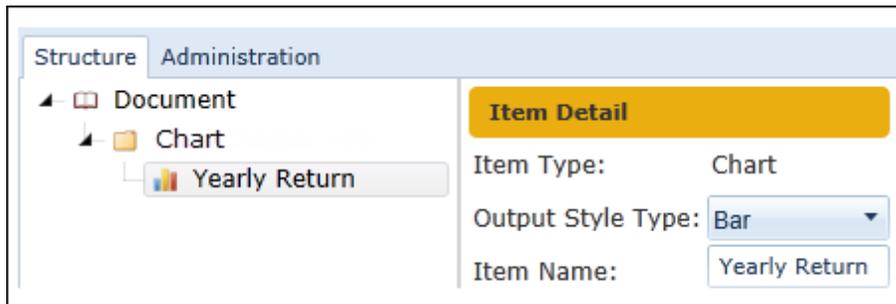
    i. A user can enter text for the *Item Name* field.

    ii. The *Output Style Type* drop-down list contains the following options:

    none (default selection), *Bar*, *Column*, *Diversification - Currency*, *Diversification - Economic*, *Diversification - Geographic*, *Diversification - Risk Exposure*, *Diversification - Weighted Risk Exposure*, *Growth of $10,000*, *Line*, *Other 1*, …, *Other 5*, *Pie*, *Ratings*, *Style Box*, *Summary*, *Top "N" - Holdings*, *Top "N" - Purchases and Sales*

2. **Chart Templates page**

    a. A *Chart Templates* item was added to the **Structure Templates** menu section in ArcReporting.
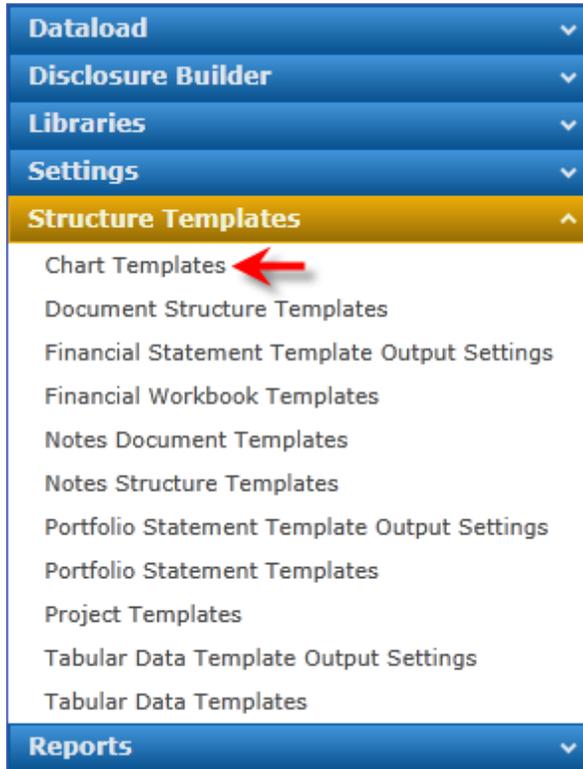
i. Clicking this menu item causes the **Chart Templates** page to open.
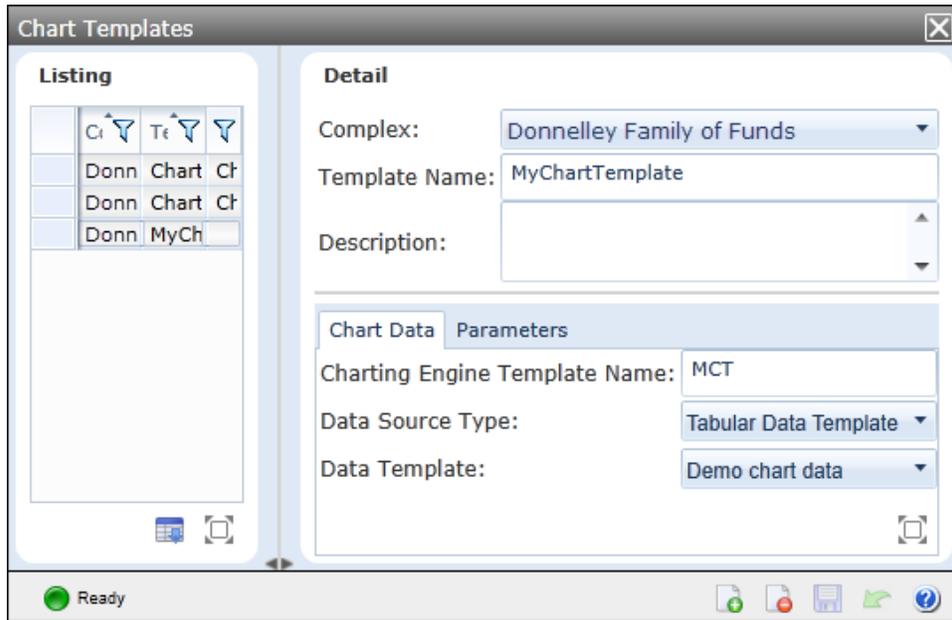
A. The *Open Chart Templates Page* user right is required to open the **Chart Templates** page.

　　1. If a user does not have this right, the *Chart Templates* menu item is disabled.

B. The following columns display in the grid of the *Listing* pane at left of the page:

　　1. Complex

　　2. Template Name

　　3. Description

C. The following fields display in the *Detail* pane at right of the page:

　　1. Complex

　　　　a. Available selections are as follows:

　　　　　　i. <All complexes in the database to which the current user has access>

2. Template Name

3. Description

D. The following tabs display:

1. Chart Data

a. The following fields display within the tab:

i. Charting Engine Template Name

A. The value specified must match the *Chart Template ID* value in the ArcCharting service.

ii. Data Source Type

A. Available selections are as follows:

A. Financial Statement Template

B. Portfolio Statement Template

C. Tabular Data Template

iii. Data Template

A. Available selections include the following:

A. <All templates of the specified type whose complex is the same as the complex specified for the current chart template>

2. Parameters
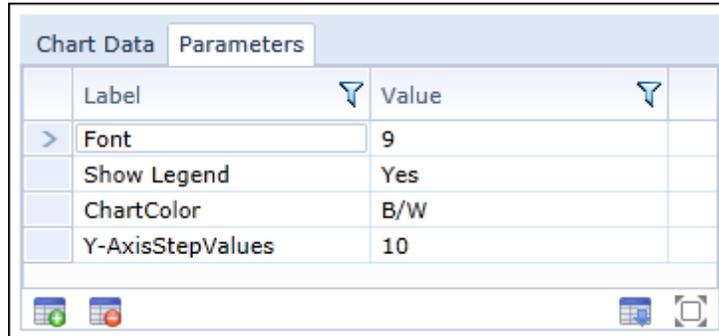
a. The parameter(s) and associated value(s) specified on this tab are passed to the ArcCharting service for processing when either of the following events occurs:

    i. The chart component is previewed via the *Components* tab of the **Project** page.

    ii. The *Generate Output* button is clicked on the *Output Management* tab of the **Project** page.

b. A grid with the following columns displays on the tab:

    i. Label

    ii. Value

c. Clicking the *Add new item to grid* button (▦) adds a new record to the grid.

d. Clicking the *Remove item from grid* button (▦) removes the selected item from the grid.

e. An *Export Data* button (▦) displays.

    i. Clicking this button allows the user to save the grid contents from this tab to a local or network drive.

3. **Project Templates page**

   a. **"Contents" tab**
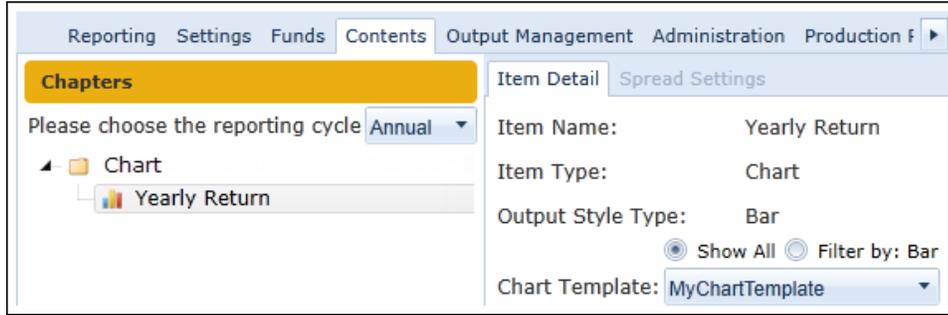
   i. The following read-only text labels display when a user clicks a *Chart* item in the tree view (values come from the corresponding values in the associated document structure template):

      A. Item Name

      B. Item Type

      C. Output Style Type

   ii. A **Chart Template** drop-down list displays.

      A. Available selections are as follows:

         1. [none]

            a. Default selection for new items.

            b. If this selection is made, the item caption in the tree view of the **Project** page displays in red text.

         2. <All chart templates associated with the current complex, based on the display option specified>

B. An associated option button set displays above this drop-down list, with the following options:

1. Show All

   a. This option is selected by default when an item is selected in the tree view if a valid *Chart Template* value has been previously specified by the user.

   b. When this option is selected, all chart templates are available for selection.

2. Filter by: <Selected Output Type value>

   a. This option is selected by default when an item is selected in the tree view but no *Chart Template* value has yet been specified by the user.

   b. This option is disabled when no *Output Style Type* value is specified in the associated document structure template.

      i. In this case, the option label simply reads *Filter by:* (no *Output Style Type* value displays).

b. **"Administration" tab**

   i. Chart template settings are now included in the project template/project synchronization process and displayed on the *Administration* tab of the **Project** page.

4. **Project page**

a. **"Components" tab**

   i. If a *Chart Template* value of *[none]* is specified for the chart component selected in the tree view, the following informational text displays as a clickable link in the preview pane at right of the page:

   "No 'Chart Template' has been specified for this component in the project's template.

   Click here to specify this setting or to view the project template structure."

      A. Clicking the link opens the corresponding project template.

ii. When the user clicks on a chart component in the tree view, a chart preview displays in the pane at right of the page. A link to the chart template also displays (see figure below).
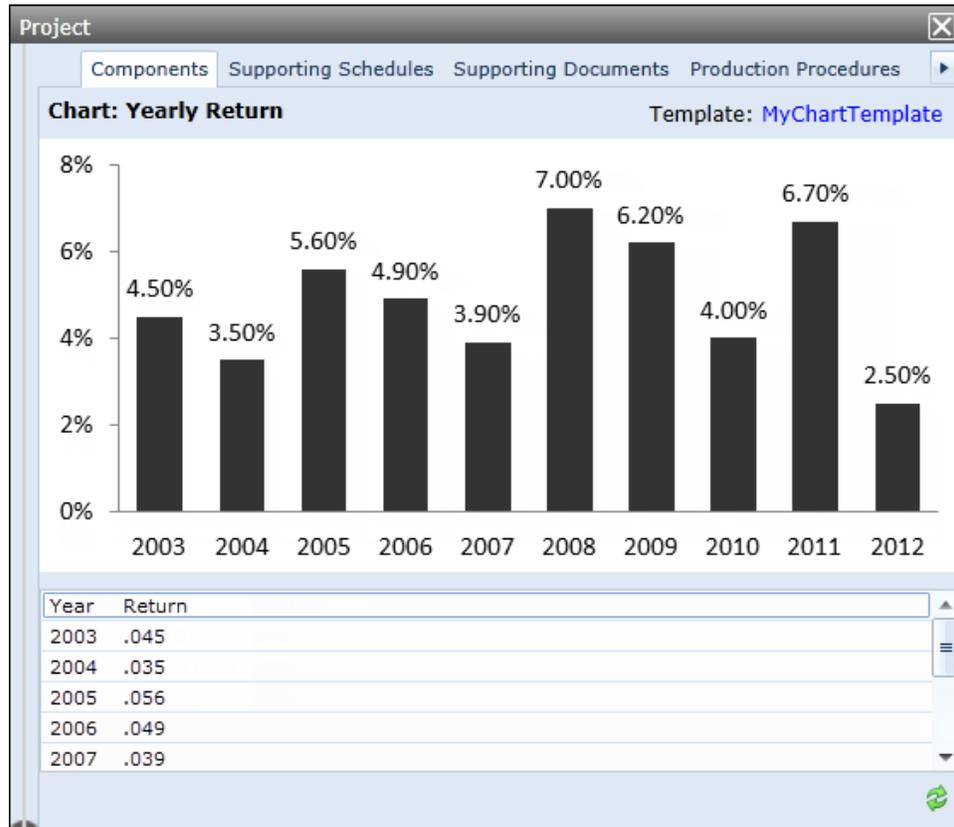
A. When a user clicks the chart *Template* link, he/she is routed to the corresponding chart template.

B. A viewing pane in the upper portion of the tab displays a preview of the chart associated with the selected component (JPG format).

1. The chart data is passed to the ArcCharting service for processing and new JPG and EPS files are returned to FundSuiteArc.

a. If chart data is successfully passed to and returned from the ArcCharting service, the chart preview displays the JPG file.

b. If chart data is not successfully passed to and returned by the ArcCharting service; the following message displays in the upper portion of the tab, in place of the JPG file preview:

"Chart preview unavailable. Chart data was not processed successfully by the charting service."

2. All data for the chart displays in a grid in the lower portion of the tab (beneath the preview pane).

a. Charts whose template's data source type is *Financial Statement Template*, *Portfolio Statement Template* or *Tabular Data Template* can be displayed.

C. A user can refresh the chart preview by clicking the **Refresh** button (🔄) at lower-right of the tab.

b. **"Administration" tab**

i. When a user selects a chart template in the tree view, a **Chart Template** drop-down list displays on the **Administration** tab, with which the user can change the chart template specified for the project template.

Process Changes

No changes to current processes are required.

41. Ability to promote footnotes from securities to category header in portfolio statement output

Overview

FundSuiteArc now supports the promotion of footnotes to the category header when all securities in the category are assigned the same footnote.

What's New

1. A new *Output Rules* tab was added to the **Fund Report Settings** page at the complex level, through which clients can now opt to implement an output rule called *Promote Footnotes to Category Header*.

    a. The new rule can be customized to suit specific client needs, if requested by clients during implementation.

    b. The "standard" rule looks for the exact same footnote to display for all securities within a given innermost category.

        i. If the same footnote (or set of footnotes) is assigned to all securities, the footnote/footnote set is removed from those securities and promoted to the category level.

2. If the *Promote Footnotes to Category Header* rule is added to the grid of the *Output Rules* tab on the **Fund Report Settings** page for a given complex, users can enable the rule for templates associated with that complex by setting a value of *True* on the *Rule Options* tab of the **Portfolio Statement Templates** page.

Process Changes

No changes to current processes are required.

42. Multiple conditions allowed within a "Conditional Value" calculation sheet item formula

Overview

Calculation sheet items of type *Conditional Value* were enhanced to allow for the specification of multiple conditions. Previously, a user could only define one condition for such calculation sheet items.

What's New

1. When adding or editing a calculation sheet item of type *Conditional Value* via the *Calculation Sheets* tab of the **Financial Workbook Template** page, clicking the *Add* button ( ) at lower-left of the *Formula* grid causes a new **Add Conditional Formula Element** pop-up dialogue to display.

a. The following fields were included on the new user interface to facilitate the specification of multiple conditions:

i. Return Type

A. The following values are available for selection

1. And

2. True

ii. Return Value

A. The text box and associated *Edit* button (✐) only display if the user specifies *True* as the *Return Type*.

B. If the defined condition evaluates to *True*, the numeric value of this field is returned in statement preview (on the **Project** page and the *Calculation Sheets* tab of the **Financial Workbook** page).

1. If *And* conditions are used in a given formula, all *And* conditions must be met in order for the formula to return a value of *True*.

b. After defining a given condition and clicking the *Accept* button (✅) at lower-right of the dialogue, the user is returned to the **Add Calculation Sheet Item** dialogue, which displays the condition in the *Formula* grid.

	(	Element	Type	)	Return Ty	Return Value
>		Fund Type is Equity	Conditi		And	
		Acct. Period Type is Annual	Conditi		True	Numeric Value: 365	Type: Constant Value

2. A read-only *Return Value if no conditions are met* text box and associated *Edit* button (✐) were added to the **Add Calculation Sheet Item** dialogue for calculation sheet items of type *Conditional Value*.

Return Value if no conditions are met: Numeric Value: 30.000000 | Type: Constant Value ✐

a. A value must be specified for this field.

b. The user can add or edit the value in this field by clicking the *Edit* button (🖉) at its right, which causes the **Add/Edit Data Point** pop-up dialogue to display.
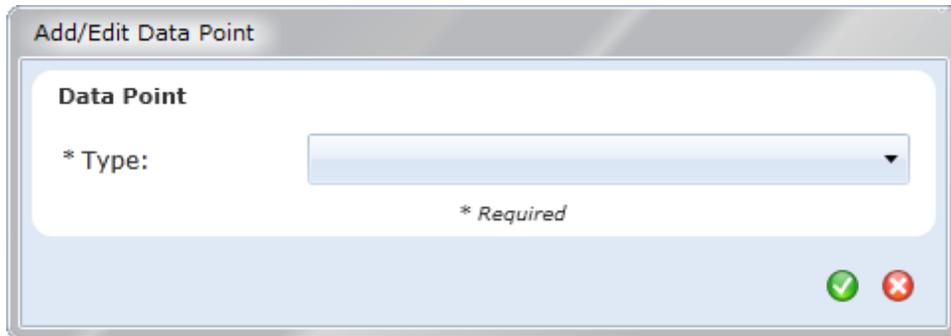
i. The following data point types are available for selection.

Calculation Sheet, *Class Data Point*, *Constant Value*, *Fund Data Point*, *Supplemental Data* and *Trial Balance Definition*

A. Depending on the data point type the user selects, additional fields display on the dialogue that correspond to that type.

ii. Clicking the *Accept* button (✅) closes the dialogue and the specified data point *Type* and corresponding information displays in the *Return Value if no conditions are met* text box.

iii. Clicking the *Cancel* button (❌) closes the dialogue with the *Return Value if no conditions are met* text box value unchanged.

c. If the condition(s) defined for the calculation sheet item is/are evaluated as *False*, the numeric value of this field is returned.

Process Changes

No changes to current processes are required.

43. New numeric output display options: Round to thousands and show 1, 2 or 3 decimals

Overview

New rounding types were added for portfolio statement templates and financial workbook templates. The rounding types divide the original number by 1,000 and show 1, 2 or 3 decimal places, respectively.

What's New

1. **Financial Workbook Templates page**

    a. *Settings* tab

        i. The following three new rounding types are now options for *Primary Rounding Level* and *Secondary Rounding Level*:

            A. 000's with 1 decimal place

                1. With this selection specified, or if a value is pulled from the primary portfolio statement, the original value is rounded to the nearest 100 and no-decimal places are shown.

                    > **Example:**
                    > If the value is *1,234,567.123* it displays as *1,234,600*.

                2. With this selection specified, if a calculation sheet item is added to a financial statement template the original value is divided by 1,000 and 1 decimal place is shown.

                    > **Example:**
                    > If the value is *1,234,567.123* it displays as *1,234.6*.

            B. 000's with 2 decimal places

                1. With this selection specified, or if a value is pulled from the primary portfolio statement, the original value is rounded to the nearest 10 and no-decimal places

are shown.

> **Example:**
>
> If the value is *1,234,567.123* it displays as *1,234,570*.

2. With this selection specified, if a calculation sheet item is added to a financial statement template the original value is divided by 1,000 and 2 decimal places is shown.

> **Example:**
>
> If the value is *1,234,567.123* it displays as *1,234.57*.

C. 000's with 3 decimal places

1. With this selection specified, or if a value is pulled from the primary portfolio statement, the original value is rounded to the nearest 1 and no-decimal places are shown.

> **Example:**
>
> If the value is *1,234,567.123* it displays as *1,234,567*.

2. With this selection specified, if a calculation sheet item is added to a financial statement template the original value is divided by 1,000 and 3 decimal places are shown.

> **Example:**
>
> If the value is *1,234,567.123* it displays as *1,234.567*.

2. **Portfolio Statement Templates page**

    a. *Calculations* tab

        i. The following three new rounding types are now options for *Rounding*:

            A. 000's with 1 decimal place

> **Example:**
>
> If the value is *1,234,567.123* it displays as *1,234.6*.

B. 000's with 2 decimal places

> **Example:**
> If the value is *1,234,567.123* it displays as *1,234.57*.

C. 000's with 3 decimal places

> **Example:**
> If the value is *1,234,567.123* it displays as *1,234.567*.

Process Changes

No changes to current processes are required.

44. Ability to add portfolio statement subtotal values to a calculation sheet

Overview

FundSuiteArc now supports mapping from *Subtotal* line types from portfolio statement templates into calculation sheets. The most common example of where this functionality is useful is in derivatives where subtotals are used to derive the gain/loss values, which in turn need to be brought through to the balance sheet.

What's New

From the *Calculation Sheets* tab of the **Financial Workbook Templates** page, users can now specify *Holdings Category Subtotal* as the *Type* for calculation sheet item formula elements.
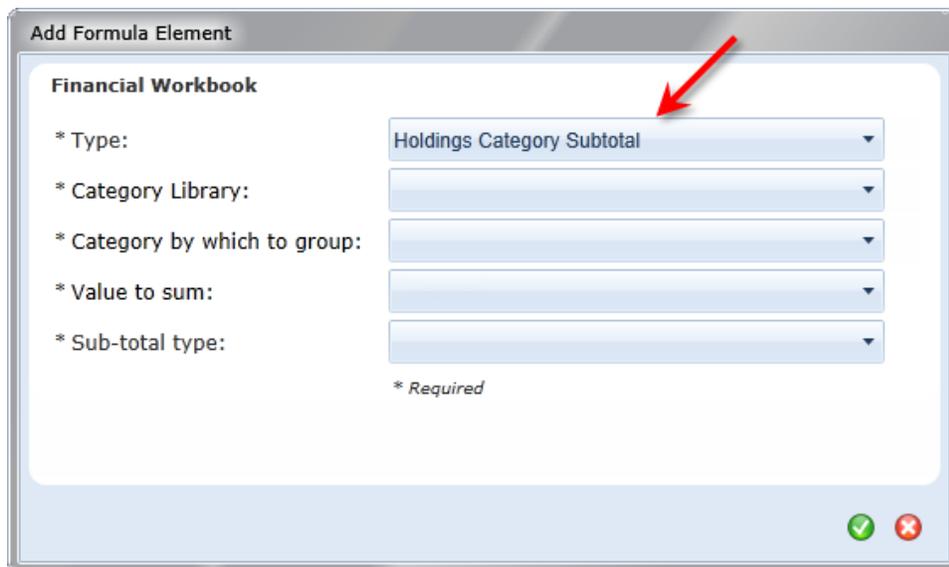
1. The *Holdings Category Subtotal* formula element type option can be selected for items in all calculation sheet types (*i.e.*, *Classes Down*, *Classes Across* and *Currency*). The type option is only available for calculation sheet items of type *Holdings*, however.

2. The following additional settings are available when the *Holdings Category Subtotal* option is selected:

    a. Category Library

    b. Category by which to group

    c. Value to sum

    d. Sub-total type

        i. The following selections are available:

            A. Negative

            B. Positive

3. The application looks to the holdings for the specified category and field, then extracts and sums the positive (long) or negative (short) values.

    a. These values compare exactly to any subtotal that is set up in the portfolio template for the same category.

> **Note:**
>
> The calculation sheet uses the footed values from the primary portfolio statement, therefore the portfolio statement should also use the footed values from the primary portfolio statement when comparing.

4. In the calculation sheet item *Formula* grid, information about the formula element is displayed as indicated below:

    a. *Element* column

        i. <name of the selected *Category by which to group*>: <name of the selected *Value to sum* field>: <*Negative* or *Positive*>

    b. *Type* column

        i. The value of this field is always *Holdings Category Subtotal*.

Process Changes

No changes to current processes are required.

45. Ability to insert external PDF documents in FundSuiteArc PDF output

Overview

FundSuiteArc document management functionality was enhanced to allow the upload of a PDF document into a FundSuiteArc project. The content of the attached PDF document is inserted into the overall PDF document generated by FundSuiteArc.

What's New

External PDF documents that are attached to ArcReporting projects will appear in project output.

Example:

1. A user creates a document structure template that includes a PDF document placeholder.

    a. A chapter with a behavior setting of *External Document* exists with an external document item placed in it.
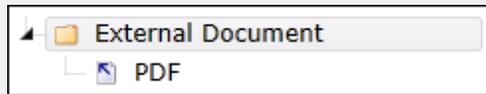
2. The user inserts a valid PDF in the *Document* field on the *Components* tab of the **Project** page by clicking the *Browse* button ( ).

3. When the user renders project output, the most recent version of the PDF uploaded to the project is included.

Additional Information

- If the *EDGAR (HTML)* output document type is selected for project output and one or more placeholders for external PDF documents are attached to the project, a tag is inserted in the output that causes the SEC XML schema validation to fail, thus alerting the user that the EDGAR file needs to be updated with additional information.

- The formerly-named *External Documents* tab on the **Project** page was renamed *Supporting Documents*.

Process Changes

No changes to current processes are required.

46. Ability to find/replace security library text

Overview

This functionality allows a user to search for and replace text in the *Security Caption* field for securities that meet specified criteria. In a future release users will have the ability to find/replace text within any security text field. This functionality does not support replacement of values in Boolean fields (those with true/false values) or those that are edited in the FundSuiteArc user interface by means of clickable blue links.

What's New

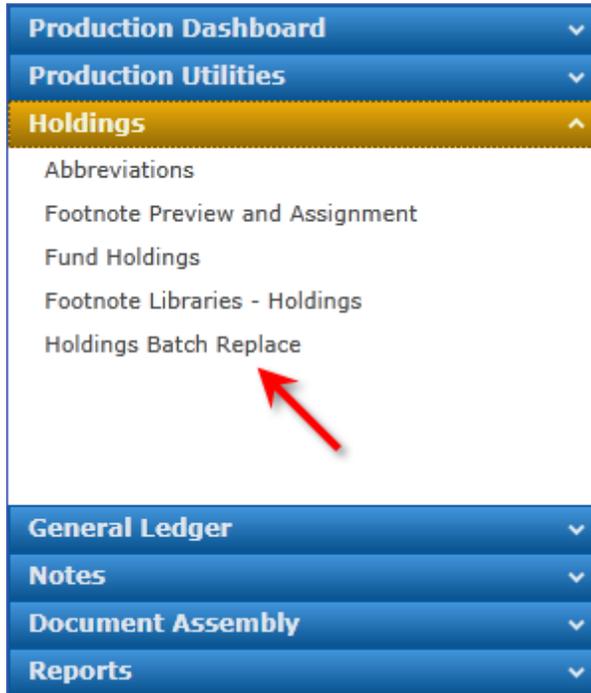Users can now find/replace *Security Caption* text values.

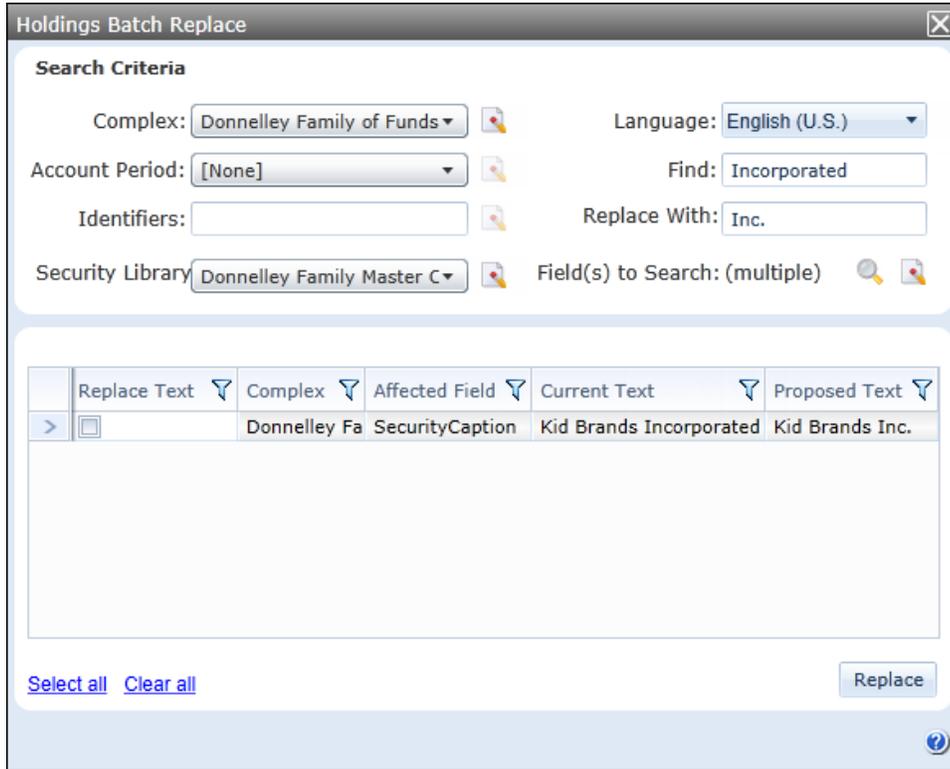1. **Platform Administration area**

    a. **Roles** page

        i. Users must have the new *Open Holdings Batch Replace Page* user right assigned in order open the new **Holdings Batch Replace** page.

2. **"Reporting Workspace" tab**

   a. A *Holdings Batch Replace* menu item was added to the **Holdings** menu section.

b. Clicking the new menu item causes the new **Holdings Batch Replace** page to open.

i. A series of fields and associated buttons display in a *Search Criteria* group box at the top of the page. These are used to generate results for all fund holdings meeting the specified criteria.

A. **Complex** (drop-down list)

1. Available selections are as follows:

a. [None]

b. <All complexes to which the current user has access>

2. A *Clear Selection* button ( ) is located beside the field.

a. The button is disabled when the field selection is *[None]*.

b. Clicking the button changes the value in the field to *[None]*.

B. **Account Period** (drop-down list)

    1. Available selections are as follows:

        a. [None]

        b. <All existing account periods in the database>

    2. A *Clear Selection* button (🔧) is located beside the field.

        a. The button is disabled when the field selection is *[None]*.

        b. Clicking the button changes the value in the field to *[None]*.

C. **Identifiers** (text box)

    1. This text box is not a required field and can be blank.

        a. A blank text box causes the search operation to ignore the value of any security identifier fields.

    2. If text is entered, it will filter the query with respect to any of the following security identifier fields.

        a. *CUSIP*, *Custom Identifier*, *ISIN*, *Master Identifier*, *SEDOL*, *Valoren*, *Wertpapier*

    3. A *Clear Selection* button (🔧) is located beside the field.

        a. The button is disabled when the field section is blank.

        b. Clicking the button clears the specified text.

D. **Security Library** (drop-down list)

    1. Available selections are as follows:

        a. [None]

        b. <All security libraries which are associated with the specified complex>

2. A *Clear Selection* button (🔍) is located beside the field.

    a. The button is disabled when the field section is *[None]*.

    b. Clicking the button changes the value in the field to *[None]*.

E. **Language** (drop-down list)

    1. Available selections are as follows:

        a. <All existing languages in the database>

            i. The *Name* value from each record in the languages library displays in the list.

            ii. Languages are listed alphabetically by *Name*.

        b. *English (U.S.)* is selected by default.

            i. If *English (U.S.)* does not exist in the languages library, the default selection of the drop-down list is the first language which appears alphabetically in the list.

    2. The search operation returns data for the selected language, as well as all "global" (non-language-specific) data.

F. **Find** (text box)

    1. The string of text to find among securities matching the specified criteria is entered in this field.

        a. The user-specified text represents a "contains" value for the query with respect to the specified *Field(s) to Search* fields.

> **Note:**
> In FundSuiteArc v1.9.0, the only field searched is *Security Caption*.

b. The search is case-sensitive (*i.e.*, the search is performed for the exact text entered in the text box, having the exact same casing).

> **Example:**
>
> If the user searches for the term *Inc*, only securities whose **Security Name** has the exact term *Inc*, as entered.
>
> > 1. Find = *Inc*
> >
> > 2. Securities with caption values of *Incorporated*, *Inc*, *Inc.*, etc. are returned.
> >
> > 3. Securities with a caption value of *INC* are not returned.

c. The text box may not be left blank.

> **Note:**
>
> *<space>* counts as a character in the field.

G. **Replace With** (text box)

1. The string of text entered in this text box is the value FundSuiteArc will use to replace content identified in the **Find** text box when the find/replace action is performed.

    a. Only the portion of the **Security Caption** field value which matches the specified **Find** text string is replaced, not the entire field value.

    > **Example:**
    > > 1. Find = *Incorporated*
    > >
    > > 2. Replace With = *Inc*
    > >
    > > 3. The **Security Name** value found may be *Ajax Incorporated Shares*, for example.
    > >
    > > 4. If the security containing the text string is flagged for inclusion in the replace operation, the term *Incorporated* is replaced with *Inc*, resulting in a caption of *Ajax Inc Shares*.

b. The text box may be left blank.

    i. A blank text box causes the specified *Find* string to be replaced with *<nothing>*.

H. **Field(s) to Search** (label)

    1. Placeholder for future functionality.

> **Note:**
> In FundSuiteArc v1.9.0, the only field searched is *Security Caption*, although the label displays the text *(multiple)*.

I. *Search* button (🔍)

    1. Clicking the button causes all securities meeting the specified criteria to display in the results grid in the lower portion of the page.

J. *Clear Search Criteria* button (🔍) at the lower-right of the *Search Criteria* group box.

    1. When this button is clicked , any values which had been populated by the user for any of the clearable *Search Criteria* fields (those which have their own associated *Clear* button) are cleared.

ii. A grid displays in the lower portion of the page, in which securities meeting the specified search criteria are listed.

A. The following columns display in the grid:

    1. Replace Text

        a. The columns contain a check box for each record returned in the grid.

        b. All check boxes are cleared by default.

        c. A user can select any and all check boxes.

    2. Complex

        a. Displays the name of the complex with which the holdings record is associated.

3. Account Period

    a. Displays the account period with which the holdings record is associated.

4. Master Identifier

    a. Displays the *Master Identifier* value for the holdings record.

5. Security Name

    a. Displays the *Security Name* value from the security/investment master.

6. Security Library Name

    a. Displays the *Library Name* value from the security library.

7. Fund Exception

    a. If the holdings record represents a fund exception, the name of the fund for which the exception is made displays.

    b. If the fund holdings record does not represent a fund exception, the cell is left blank.

8. Language

    a. Displays the language with which the caption of the holdings record is associated.

9. Affected Field

    a. Displays the name of the field in which the specified *Find* text string was found.

> **Note:**
> In FundSuiteArc v1.9.0, the only field searched or that will be affected is *Security Caption*.

10. Current Text

    a. Displays the text which currently populates the database field where the specified *Find* text string was found.

11. Proposed Text

   a. Displays the text which will replace the existing text in the database where the specified *Find* text string was found.

B. Users can sort and/or filter results by any column in the grid.

C. Users can adjust column widths.

D. Users cannot group results or re-order columns.

E. The check box for every security in the results grid can be selected at once by clicking the *Select all* link at lower-left of the grid.

F. The check box for every security in the results grid can be cleared at once by clicking the *Clear all* link at lower-left of the grid.

iii. Text in the *Security Caption* field is replaced with the specified *Replace With* text for all selected securities when the *Replace* button at lower-right of the grid is clicked.

A. If no check boxes are selected in the grid when this button is clicked, a message displays to alert the user that at least one security must be selected for the replace operation:

   1. Clicking the *OK* button closes the dialogue box and no text replacement is initiated.

B. If at least one record is selected in the grid, a confirmation dialogue displays to ensure that the user wishes to carry out the replace operation.

   1. Clicking the *OK* button initiates the following actions:

      a. The confirmation dialogue closes.

      b. Text in the *Current Text* column is replaced with the text in the *Proposed Text* column for fields of the holdings record(s) represented by the selected row(s) in the results grid.

      c. The **Holdings Batch Replace** page remains open with all *Search Criteria* settings intact.

      d. All records are removed from the results grid.

2. Clicking the *Cancel* button closes the confirmation dialogue without initiating any text string replacements.

   a. The **Holdings Batch Replace** page remains open with all *Search Criteria* settings intact.

3. **Securities Audit Report**

   a. If text in a holdings record was replaced (*i.e.*, text in the *Current Text* column was replaced by the text in the *Proposed Text* column), the batch replace operation is tracked/stored in the Securities Audit Report.

      i. The user who clicked the *Replace* button on the **Holdings Batch Replace** page is noted as the *Editing User* in the audit report.

Additional Information

▪ When a user opens the **Holdings Batch Replace** page, the default selections for the *Complex* and *Account Period* search criteria fields are the respective values specified in the fund selection bar at that time.

▪ All records returned in the results grid are read-only (*i.e.*, the various fields associated with any given security record cannot be edited manually in the grid).

Process Changes

No changes to current processes are required.

47. Ability to display values as negative in project preview and output

Overview

Shareholder reports are comprised of a variety of statements, tables and textual items. In some situations, the user's preference is to display numbers as negative even though the original data was loaded as a positive number. Features were added that support display of these values in both project preview and output.

What's New

User Interface

1. For any numeric value mapped via the **Financial Statement Template Output Settings** page, **Portfolio Statement Template Output Settings** page or **Tabular Data Template Output Settings** page, a new *Display positive/negative values as negative/positive* check box option was added to the *Format Items* tab.

2. For any numeric data point inserted within a snippet on the **Text Libraries** page, a new *Display positive/negative as negative/positive* check box option was added to the *Format Item* section of the **Insert Data Point** dialogue.

Functionality

1. The *Display positive/negative values as negative/positive* check box is cleared by default for any newly-added data points.

2. Selecting the *Display positive/negative values as negative/positive* check box causes the display of numbers to change signs.

   a. Positive numbers display as negative in project preview and output.

   b. Negative numbers display as positive in project preview and output.

3. The existing *Negative Display* setting, that designates how to display a negative number, overrides the *Display positive/negative as negative/positive* option.

   a. All values are displayed as positive regardless of whether the *Display positive/negative as negative/positive* option is selected.

Example:

When preparing a Statement of Assets and Liabilities, a user prefers to display liabilities as negative.

Prior to making any changes to the display settings for numeric data, the liabilities are displayed as positive:

	Donnelley Dividend Fund
Assets:	
Investments in Securities	
Value - Unaffiliated Issuers	$2,585,989,672
Value - Sweep Account	205,568,243
Value - Repurchase Agreements	785,000
Total Value of Investments	**2,792,342,915**
Receivables:	
Investments for Securities Sold	1,881,203
Capital Shares Sold	23,499,092
Dividends	2,300,948
Cash	0
Other Assets	1,964
Total Assets	**2,820,026,222**
Liabilities:	
Payables:	
Investments for Securities Purchased	16,827,179
Capital Shares Redeemed	6,948,403
Affiliates	2,902,105
Payable Upon Return of Securities Loaned	831,869
Accrued Expenses and Other Liabilities	873,998
Total Liabilities	**28,383,554**
Net Assets, at Value	**$2,791,642,668**

The following steps can be followed to change the display of the liabilities:

1. Open the **Financial Statement Template Output Settings** page.

2. Select the *Investments for Securities Purchased* line item in the tree view.

3. Identify and select any item in the mapping grid that represents a numerical value (in this example, the *<Value>* data point).

4. Click the *Format Items* tab.

    a. Select the *Display positive/negative as negative/positive* check box.
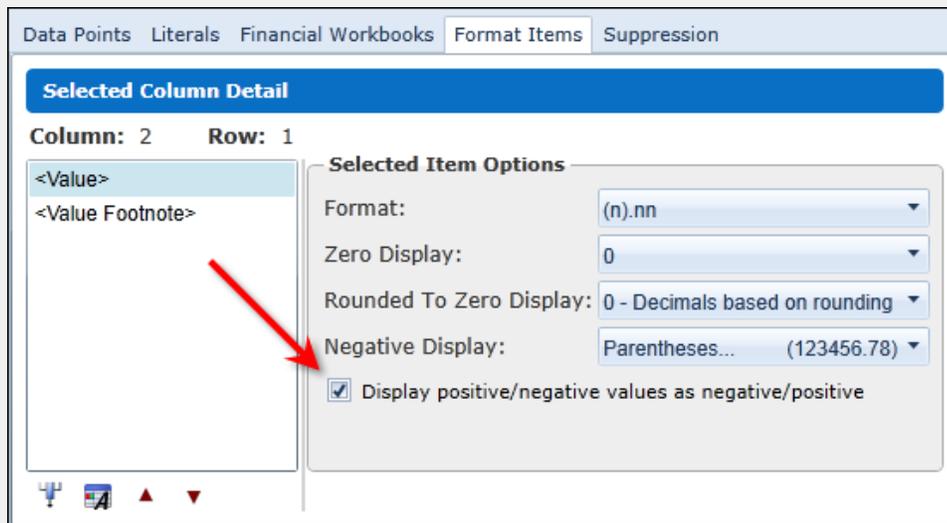
    b. Click the *Save* button (💾).

5. Repeat the steps above for each item under the liabilities section, including the *Total Liabilities* line item.

6. Open/refresh the *Statement of Assets and Liabilities* on the **Project** page to verify liabilities now display as negative values.

	Donnelley Dividend Fund
Assets:	
Investments in Securities	
Value - Unaffiliated Issuers	$2,585,989,672
Value - Sweep Account	205,568,243
Value - Repurchase Agreements	785,000
Total Value of Investments	**2,792,342,915**
Receivables:	
Investments for Securities Sold	1,881,203
Capital Shares Sold	23,499,092
Dividends	2,300,948
Cash	0
Other Assets	1,964
Total Assets	**2,820,026,222**
Liabilities:	
Payables:	
Investments for Securities Purchased	(16,827,179)
Capital Shares Redeemed	(6,948,403)
Affiliates	(2,902,105)
Payable Upon Return of Securities Loaned	(831,869)
Accrued Expenses and Other Liabilities	(873,998)
Total Liabilities	**(28,383,554)**
Net Assets, at Value	**$2,791,642,668**

Additional Information

This feature impacts the display of data points only; it does not change/alter any calculations within FundSuiteArc.

Process Changes

No changes to current processes are required.

48. Ability to provide dynamic text for "Total Investments", "Other Assets" and "Net Assets" portfolio statement line items

Overview

Different account period cycles may require different captions for the "Total Investments", "Other Assets" and "Net Assets" line items on a portfolio statement. Enhancements in FundSuiteArc now allow users to provide distinct captions and have the correct caption render in project preview and output.

What's New

Period-based captioning functionality impacts the portfolio statement template and includes the following features.

1. The *Settings* area on the **Portfolio Statement Templates** page was enhanced to facilitate extensive captioning options for the *Total Investments*, *Other Assets* and *Net Assets* line items.

   a. A series of *Change Caption Based on* check box options was added in association with these line items.

      i. *Account Period* check box selected

         A. This option allows different captions to be displayed for a given line item based on account periods.

B. Selecting this option produces a grid sorted by language, that displays all account period types. Users can specify the caption for each account period/language combination in an editable *Caption* field.

C. For any project associated with the specific account periods, the caption text displays in project preview and output.

D. The *Inception* option references the inception date of the fund and displays the appropriate caption.

ii. *Value* check box selected

A. This option allows different captions to be specified only for *Other Assets*; this option is not available for *Total Investments* or *Total Net Assets* line items.

B. Selecting the option produces a grid sorted by language, in which users can specify a *Positive Caption* and *Negative Caption*.

C. This feature is available for all *Other Assets* lines added to the portfolio statement template.

iii. Neither check box selected

A. Not selecting the available check boxes for a given statement line item allows users to specify a single caption to display for these line items that is not based on logic specific to an account period or value.

B. Default captions for each line item type are the following:

1. Total Investments: *Total Investments*

2. Other Assets: *Other Assets*

3. Net Assets: *Net Assets*

iv. Both check boxes selected

A. Selecting both check box options (possible for the *Other Assets* line item only) allows users to specify different captions to display for specific account periods, based on the positive/negative values.

B. Selecting both options produces a grid sorted by language, that displays all account period types. Users can specify the caption for each account period/language combination in editable ***Positive Caption*** and ***Negative Caption*** fields.

C. For any project associated with the specific account periods, the positive/negative value controls which text displays in project preview and output for each account period.

Process Changes

No changes to current processes are required.

49. Ability to insert tables in portfolio output

Overview

A user can now place a second table (financial, tabular data or portfolio) within a portfolio statement template that would typically be placed prior to the footnote legend and after the primary portfolio statement.

What's New

1. At the *Statement* node of a portfolio statement template, a user can add the following template types:

   a. Financial Statement Template

   b. Portfolio Statement Template

   c. Tabular Data Template

2. When any of the three template types are added into a given portfolio statement, the user can select which template he/she wants to display within the portfolio statement (see figure below).
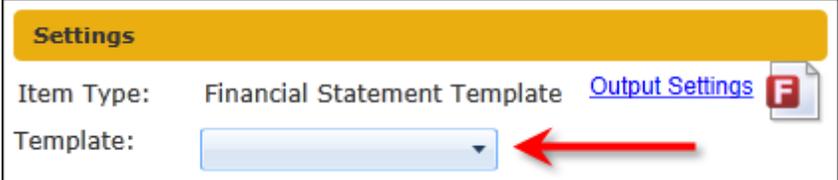
   a. Available selections for each of the three template types include all templates associated with the complex of the current portfolio statement template.

   b. The contents of the specified template display within the current portfolio statement template (as a separate table) in project preview and output.

   Note:
   A portfolio or financial statement template that is placed within the main portfolio statement template cannot have a footnote legend within it. If the inserted template has a footnote legend within it, FundSuiteArc displays an error message in place of the actual template content in project preview and output to alert the user that they need to specify another template.

3. Any financial statement templates, portfolio statement templates and/or tabular data templates included within the current portfolio statement template display as separate tables in project preview and output.

Process Changes

No changes to current processes are required.

50. Ability to define security types to use Unrealized Value (instead of Market Value) when calculating total investments

Overview

For many funds, the market value of derivative securities is not included in the portfolio's total investment calculation. Typically these derivatives display the unrealized value for securities, category totals and percentage of net assets and are disclosed in tables after total investments in the statement.

What's New

1. The following six new fields were added to the *Calculations* sub-tab of the **Portfolio Statement Templates** page:

   a. Percent of Net Assets (Unrealized Value)

   b. Percent of Total Investments (Unrealized Value)

   c. Percent of Net Assets (Market Value - Bid)

   d. Percent of Total Investments (Market Value - Bid)

   e. Percent of Net Assets (Market Value - Ask)

   f. Percent of Total Investments (Market Value - Ask)

2. The six new fields were added as data points in the *Security* list box on the *Data Points* tab of the **Portfolio Statement Template Output Settings** page for the following line item types:

   Category Header, *Stack Header*, *Group Header*, *Security*, *Security Single*, *Other Securities*, *Aggregated Securities*, *Aggregated category*, *Stack Total*, *Group Total*, *Category Total*, *Formulas*, *Positive SubTotal*, *Negative Subtotal*, *Total Investments*, *Other Assets*, *Net Assets*

3. A new *Total Investments Calculation Basis* section displays in the *Settings* area of the **Portfolio Statement Templates** page when the *Total Investments* line item is selected in the tree view (see figure below).

a. A grid displays in the section.

   i. One row appears for each category, category type, category exception, group and group exception that exists in the statement template tree view, reflecting their hierarchical structure and relationship to one another from top-to-bottom of the statement.

   > **Note:**
   >
   > Even if an item is currently located below the *Total Investments* item in the statement template tree view, it appears in the grid so its settings can be managed; only the settings of those items above the *Total Investments* item in the tree view are respected/used, however.

 ii. The following columns display in the grid:

  A. <no column header>

   1. This column displays the name of the category, category type, category exception, group or group exception.

   2. The icon associated with the item (yellow, blue, or red folder) displays.

   3. The item and associated icon are indented according to the level which they exist in the statement template tree view.

  B. Basis

   1. For outermost-level items, this column displays a clickable link whose text reflects the selection made on the **Edit Calculation Basis** pop-up dialogue.

   2. Clicking the line causes the **Edit Calculation Basis** dialogue to display (see figure below).

    a. A *Basis* drop-down list displays, which holds the following available selections:

     i. Market Value (default)

     ii. Market Value Ask

     iii. Market Value Bid

     iv. Unrealized Value

b. Clicking the *OK* button (✓) closes the dialogue and the specified calculation basis value is reflected in the text of the clickable link in the *Basis* column for the current item.

c. Clicking the *Cancel* button (✗) closes the dialogue and no changes are made to the calculation basis specified for the current item and its children.

3. For any "child", "grandchild", etc. of an outermost-level item, this column displays read-only text that reflects the specified calculation basis value of the outermost-level ("parent" or "grandparent") item.

b. The *Percent of Total Investments* data point evaluation uses the value specified in the section as the numerator, and the denominator (Total Investments) is adjusted accordingly.

Example:

For a given security, *Market Value* = *100*, *Unrealized Value* = *50*, and *Total Investments* = *1000*.

1. *Market Value* is selected as a basis.

   a. *Percentage of Total Investments* = *10.0%* (10/1000)

2. *Unrealized Value* is selected as a basis.

   a. *Percentage of Total Investments* = *5.0%* (50/1000)

Note:

1. The market value or unrealized value data points must be mapped to the appropriate column in the grid of the **Portfolio Statement Template Output Settings** page to pull in the respective values and for the statement to foot on output.

2. Any securities that fall into category, category type or category exception placed below the *Total Investments* item in the statement template tree structure do not foot to Total Investments and are excluded from the calculation.

Process Changes

No changes to current processes are required.

51. ArcProspectus content integration
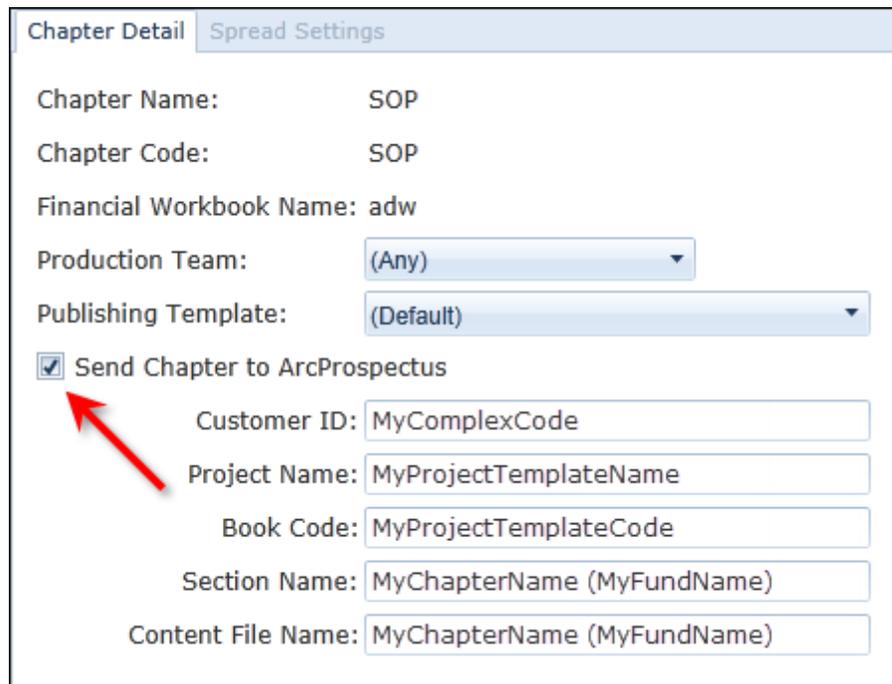
Overview

FundSuiteArc now allows completed project content to be pushed to ArcProspectus.

What's New

1. **Project Templates page**

    a. *Contents* tab, *Chapter Detail* sub-tab.

        i. A *Send Chapter to ArcProspectus* check box was added to the tab.

    A. The check box is cleared by default when a new chapter is added to the project template.

   B. When a user selects this check box, the chapter is designated as one whose contents can be sent to ArcProspectus.

C. The following text boxes display below this check box and represent fields that determine the location to which the chapter content is sent when it is passed to ArcProspectus:

1. Customer ID

    a. The default value of this field is the *Complex Code* value for the complex associated with the current project template.

2. Project Name

    a. The default value of this field is the *Template Name* value for the current project template.

    b. The maximum character length is *50*.

3. Book Code

    a. The default value of this field is the *Project Code* value for the current project template (designated on the *Output Management* tab).

    b. The maximum character length for the value is *128*.

4. Section Name

    a. The default value of this field is the name of the current chapter, as displayed in the tree view at left of the *Contents* tab.

        i. For chapters of type *All Funds - Repeat*, the fund's name displays in parentheses at the right of the chapter name, just as displayed in the tree view.

        ii. The maximum character length for the value is *50*.

5. Content File Name

    a. The default value of this field is the name of the current chapter, as displayed in the tree view at left of the *Contents* tab.

        i. For chapters of type *All Funds - Repeat*, the fund's name displays in parentheses at right of the chapter name, just as displayed in the

tree view.

    ii. The maximum character length for the value is *150*.

2. **Project page**

    a. **"Administration" tab**
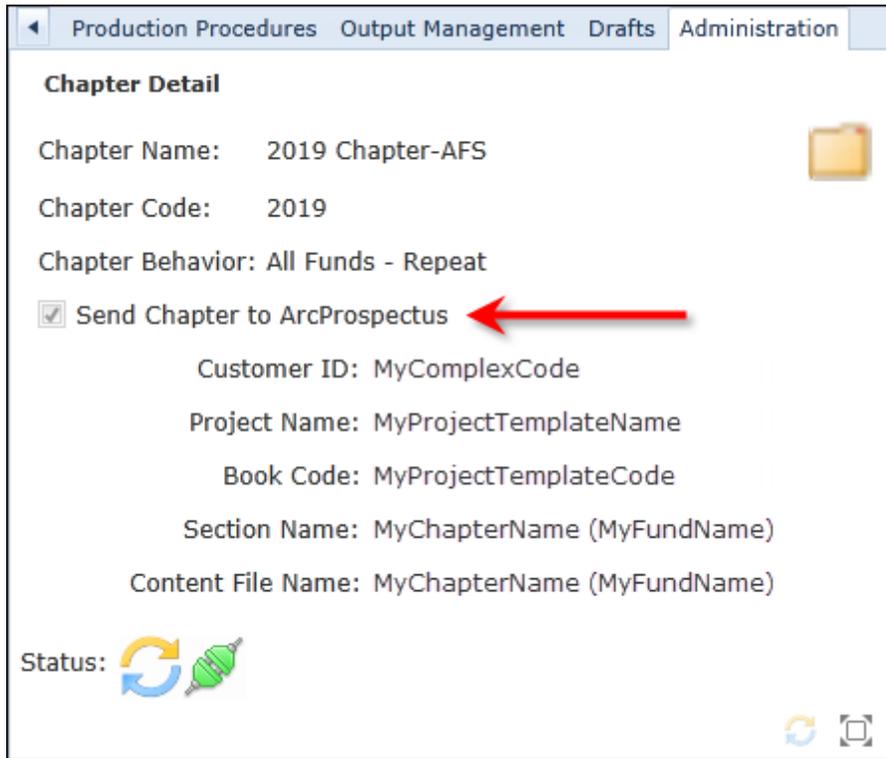
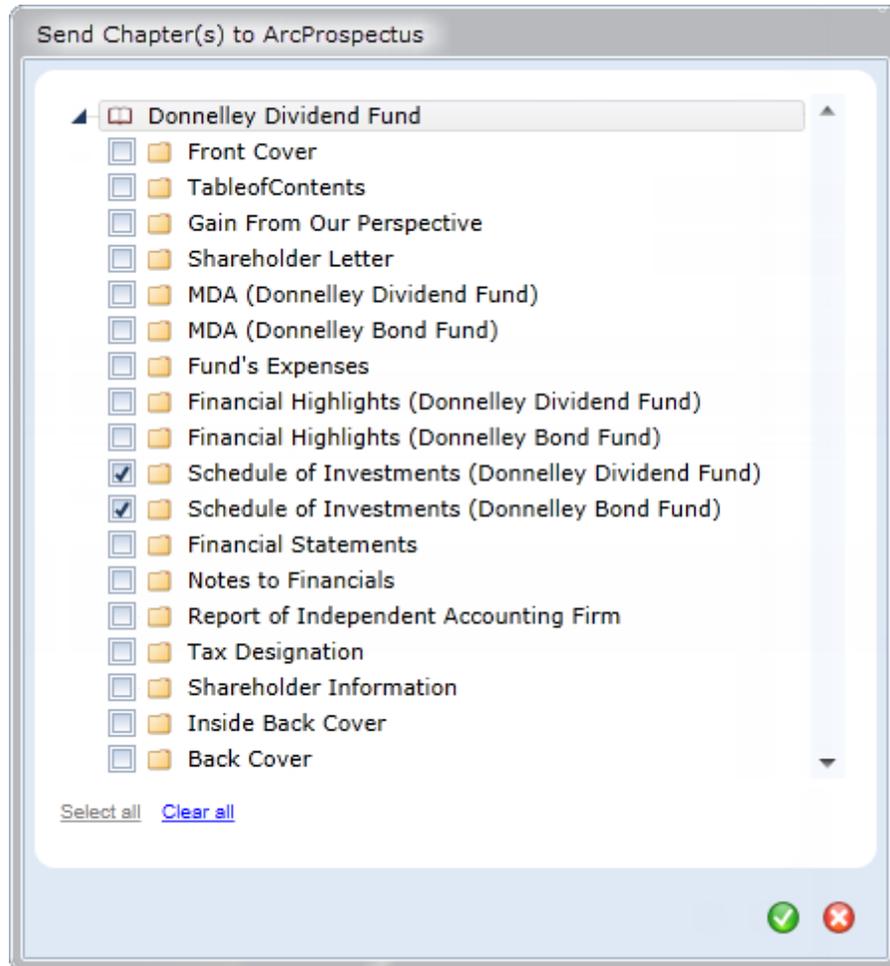   i. The *Send Chapter to ArcProspectus* label displays as a read-only check box.

        A. The check box state (*i.e.*, selected or cleared) reflects the state of the corresponding check box for the chapter on the *Chapter Detail* sub-tab of the **Project Templates** page.

        B. The following read-only text labels display:

            1. *Customer ID*, *Project Name*, *Book Code*, *Section Name* and *Content File Name*

a. The value specified for each label (if any) via the *Chapter Detail* sub-tab of the **Project Templates** page displays.

b. **"Components" tab**

i. By right-clicking a given chapter in the tree view, a user can select a *Send Chapter(s) to ArcProspectus* option.

> **Note:**
> This context menu item is only visible/selectable when at least one chapter in the project has the *Send Chapter(s) to ArcProspectus* check box selected via the *Chapter Detail* sub-tab of the **Project Templates** page.

ii. Selecting this menu item causes the **Send Chapter(s) to ArcProspectus** dialogue to display.

A. A tree view structure displays, containing nodes representing every chapter in the current project that has the *Send Chapter(s) to ArcProspectus* check box selected via the *Chapter Detail* sub-tab of the **Project Templates** page.

> **Note:**
> No other types of chapter elements, nor the contents of any chapters, display in the tree view.

B. Clicking the *Accept* button closes the dialogue and sends the selected chapter(s) to the Output Queue for processing.

1. Data for the specified *Current Draft Version* is automatically used in the output.

2. The *Type* value for the output request is *ArcProspectus Submission*.

3. The *For* value for the output request is *<project name>: Selected Chapters*.

C. Clicking the *Cancel* button closes the dialogue and no output request is sent to the Output Queue.

Process Changes

No changes to current processes are required.

Closed Defects

The following issues have been addressed in this release of FundSuiteArc products.

Product	Module / Location	Description
ArcReporting	**Financial Workbook** page	Fixed an issue that prevented use of the auto reclass functionality.
ArcReporting	**Financial Workbook** page	Corrected logic on the *History* tab of the **Financial Workbook** page to allow historical data entry for new calculation sheet items.
ArcReporting	**Project** page	Corrected issues with portfolio statement preview and output to prevent display of the footed subtotal as the sum of the footed security values.
ArcReporting	**Financial Statement Template Output Settings** page	Updated logic to ensure the output settings for each column on a financial statement within a financial workbook are respected during financial workbook copy.
ArcReporting	**Financial Workbook** page	Fixed an issue that caused certain calculation sheet formula element types to display as *Constant Value*, rather than *Calculation Sheet Item*.
ArcReporting	**Financial Workbook** page	Updated statement logic to ensure that fund holdings values referenced in calculation sheets are automatically cleared if that holdings data is purged from the database.
ArcReporting	**Financial Workbook** page / **Fund Holdings** page	Corrected a data processing issue that prevented financial workbooks from calculating under specific conditions. The same issue also prevented the Fund Holdings page from opening under those conditions.

Product	Module / Location	Description
ArcReporting	**Financial Workbook** page	Corrected calculation sheet logic to ensure that values pulled from fund holdings are correct when a referenced security's category is changed using a category exception. This issue only impacted calculation sheets, not portfolio statement output.
ArcReporting	**Financial Workbook** page	Corrected an issue that caused *Conditional* calculation sheet item values to round incorrectly if they were referenced in another calculation sheet item formula.
ArcReporting	**Project** page	Fixed a data point evaluation issue that caused **Account Period** data points used in project snippets to return *January 1, 1900* under certain conditions.
ArcReporting	**Financial Workbook Templates** page	Corrected an issue that prevented users from exporting, copying or importing financial workbook templates.
ArcReporting	Text Snippets	Updated text snippet data point behavior to make inserted data points read-only. Prior to this update, spaces or other characters inadvertently typed in data point names via the text editor could cause data point values to evaluate incorrectly.
ArcFiling/ArcReporting	FundSuiteArc Platform	Fixed an issue that caused users to occasionally receive timeout or "socket" errors while working in FundSuiteArc.
ArcFiling/ArcReporting	**Project** page	Corrected performance issues with portfolio statement preview on the **Project** page to prevent portfolio management service errors.
ArcFiling/ArcReporting	**Portfolio Statement Templates** page	Enhanced template item positioning logic to allow use of the **Move item up** and **Move item down** buttons without re-selection of an item each time sorting occurs in the tree view

Product	Module / Location	Description
ArcFiling/ArcReporting	**Project** page	Corrected project synchronization logic to prevent information in unlinked tabular data tables from being deleted when a project is synched with its associated project template.
ArcFiling/ArcReporting	Project Output	Enhanced text library content processing logic to ensure correct display of certain symbols in project output.

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