FundSuiteArc Version 2.6.0 Release Notes

ArcFiling 2.6.0

Revised: 9/9/2016

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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?

Changes to Application Session Login

Overview

FundSuiteArc will no longer launch within its own separate browser window. Instead, the application session will open within the same browser tab that contained the FundSuiteArc login page (fundsuitearc.com). This behavior change applies to **all** versions of the application (*i.e.*, *2.6.0*, *2.5.0*, *2.4.0*, *2.3.0*, *2.2.0*, *2.1.0* and *2.0.0*).

What's New

The FundSuiteArc application session will now open within the same browser tab that contained the FundSuiteArc login page (fundsuitearc.com), as opposed to opening in a separate browser window.

Additional Information

If users wish to make the application the size of their screen, they are advised to press the $F11$ key to put the application into full-screen mode.

Process Changes

No changes to current processes are required.

Enhancements Requiring Immediate User Action

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

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Enhancements Requiring User Decisions

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

Important Notes

1. The N-MFP Review Report highlights current and prior period values. When generating the report for the initial month, no prior live filing exists due to the change of submission type from *N-MFP1* to *N-MFP2*. Therefore, the report will have no comparative basis for current period values and as a result, the prior period values found on **Sheet4** of the report will not populate for the October 2016 period end reporting.

2. Due to changes in application user profile management, when administrators create a new user they are required to enter a valid e-mail address in *<name>@<domain>* format. If a user profile does not have a valid e-mail account specified, the application will not allow the user record to be saved.

   a. For any user profile that was set up prior to version 2.6.0, but that does not have a valid e-mail address specified, the **Email** field will be appended with *@fundsuitearc.com* upon database update to make it valid.

3. Due to changes in application user profile management, all user profiles within a given database must be unique (*i.e.*, no two profiles can have the same e-mail address specified). If an administrator enters an already-existing e-mail address for a new or existing user profile, he/she will be informed that he/she must enter a unique e-mail address and will not be able to save the user record.

    a. For any user profile that was set up prior to version 2.6.0 that has a duplicate e-mail address specified, the *Email* field will be appended with n upon database update, where n is a unique ID.

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.

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1. Enhancements Common to Multiple Products

1. **Ability to use "is empty" in conditional formula and item suppression definitions**

    Users can now trigger specific application behavior based on whether the value of a given data point is empty/not specified. This functionality is available when defining conditional formulas and portfolio statement line item suppression.

2. **Project Templates page usability enhancements**

    The *Contents* tab of the **Project Templates** page was enhanced with improved performance and display options to increase usability.

3. **Tabular Data Template Output Settings Audit Report**

    A Tabular Data Template Output Settings Audit Report was added to FundSuiteArc, which tracks all additions and changes made by users to the output settings for tabular data templates.

4. **Portfolio Statement Template Output Settings Audit Report**

    A Portfolio Statement Template Output Settings Audit Report was added to FundSuiteArc, which tracks all additions and changes made by users to the output settings for portfolio statement templates.

5. **Application menu section name changes and library reorganization**

    The **Libraries** menu section in the *Administration* area was split into two distinct sections that help to group the libraries therein by function.

6. **Additional user rights and warnings for "Delete" and "Revert" actions**

    New user rights that govern the ability to delete specific content were added throughout the application. These new user rights provide managers an additional level of granularity for their production teams' roles. Additionally, users will now be warned when deleting or reverting any changes to content that they have effected in the application, ensuring that they understand the consequence of their actions.

7. **Issuer Master/Issuer Library updates to support library-level LEIID**

    Data for the *LEIID* field was stored at the Issuer Master level in previous versions of FundSuiteArc. The *LEIID* field is now located on the **Issuer Libraries** page. The new field location will allow *LEIID* information to be maintained for each individual complex.

2. Enhancements to ArcFiling

1. **N-MFP Review Report enhancements**

   The N-MFP Review Report was updated with several usability enhancements.

2. **Support for Form N-MPF2 requirements**

   The SEC issued new technical specifications which updated legacy Form N-MFP1 to Form N-MFP2 and removed credit rating references, among several other changes. The new requirements prompted updates to ArcFiling, with respect to data import/dataload, user interface, XML generation and the N-MFP Review Report.

Enhancements Common to Multiple Products

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

1. Ability to use "is empty" in conditional formula and item suppression definitions

DFS ID: 54209

Overview

Users can now trigger specific application behavior based on whether the value of a given data point is empty/not specified. This functionality is available when defining conditional formulas and portfolio statement line item suppression.

What's New

An *empty/null* selection was added to the *Operator* and *Condition* drop-down lists, respectively, on the **Add/Edit Conditional Formula Element** and **Edit Item Suppression** dialogues.

1. The **Add/Edit Conditional Formula Element** dialogue can be invoked from the following application locations:

a. **Project Templates** page (when defining conditional display settings for a given project template item)
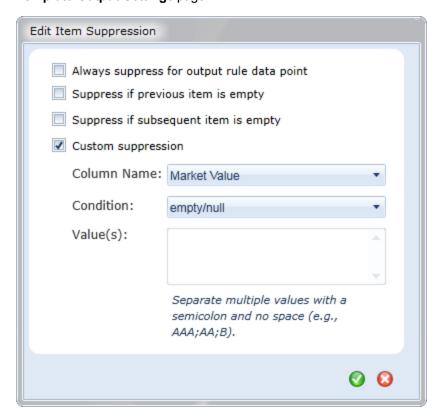
b. **Text Libraries** page (when inserting a data point of type *Conditional Value* in a given text snippet)

2. The **Edit Item Suppression** dialogue is invoked via the *Format Items* tab of the **Portfolio Statement Template Output Settings** page.

3. The *empty/null* condition for a given definition evaluates as *true* under different circumstances, dependent on the data type of the specified *If* or *Column Name* field, as detailed below:

a. For operands of type *Boolean*, the condition evaluates to *true* if the value of the specified field is *False*.

b. For operands of type *Date*, the condition evaluates to *true* if the value of the specified field is empty.

c. For operands of type *Numeric*, the condition evaluates to *true* if the value of the specified field is empty or zero (if a value is required).

d. For operands of type *Text*, the condition evaluates to *true* if the value of the specified field is empty.

Additional Information

- The existing *Value* or *Item* control (and associated *Edit* button, as applicable) on the **Add/Edit Conditional Formula Element** dialogue is disabled if *empty/null* is the specified *Operator* drop-down list selection.

- The existing *Value(s)* text box on the **Edit Item Suppression** dialogue is disabled if *empty/null* is the specified *Condition* drop-down list selection.

Process Changes

No changes to current processes are required.

2. Project Templates page usability enhancements

DFS ID: 99370

Overview

The **Contents** tab of the **Project Templates** page was enhanced with improved performance and display options to increase usability.

What's New

1. Behavior of the tree view on the **Contents** tab of the **Project Templates** page was modified to display all nodes when the tab is initially opened.

    a. By default, no particular tree view node is selected when the tab is initially opened; the details of any given node will only load/be displayed when the user selects that node in the tree view.

2. A series of buttons was added at lower-left of the **Contents** tab on the **Project Templates** page:

    a. *Collapse all*

        i. Clicking the button collapses all items within the tree view.

    b. *Expand all*

        i. Clicking the button expands all items within the tree view.

    c. *Expand selected node and all child nodes*

        i. Clicking the button expands the currently-selected node, as well as all of its child node items within the tree view.

Process Changes

No changes to current processes are required.

3. Tabular Data Template Output Settings Audit Report

DFS ID: 112750

Overview

A Tabular Data Template Output Settings Audit Report was added to FundSuiteArc, which tracks all additions and changes made by users to the output settings for tabular data templates.

What's New

A **Tabular Data Template Output Settings Audit Report** page was added to ArcFiling, through which users can generate a listing of all changes made to tabular data statement template output settings associated with a given complex. The report is accessed via a new menu item of the same name, under the **Reports** menu section on the *Administration* tab.

> **Note:**
>
> The new *Open Tabular Data Template Output Settings Audit Report Page (ArcFiling)* user right is required to open the **Tabular Data Template Output Settings Audit Report** page (the *Tabular Data Template Output Settings Audit Report* menu item is disabled if the right is not assigned to the current user).

1. Users can narrow report results by any of the following filters in the *Report Result Filters* section at the top of the page:

    a. *Complex*

        i. The drop-down list contains all complexes to which the current user has access, and the selection defaults to the first complex (alphabetically) in the list.

    b. *Tabular Data Template*

        i. The drop-down list contains all the tabular data templates that were created in association with the specified complex.

    c. *Editing User*

        i. The drop-down list contains all the users in the Users library.

    d. *From Date* and *To Date*

2. The report will track all changes made to the output settings of a given tabular data template since the database update to version 2.6.0.

Process Changes

No changes to current processes are required.

 Demonstration video

4. Portfolio Statement Template Output Settings Audit Report

DFS ID: 112752

Overview

A Portfolio Statement Template Output Settings Audit Report was added to FundSuiteArc, which tracks all additions and changes made by users to the output settings for portfolio statement templates.
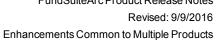
What's New

A **Portfolio Statement Template Output Settings Audit Report** page was added to ArcFiling, through which users can generate a listing of all changes made to portfolio statement template output settings associated with a given complex. The report is accessed via a new menu item of the same name, under the **Reports** menu section on the *Administration* tab.

> **Note:**
>
> The new *Open Portfolio Statement Template Output Settings Audit Report Page (ArcFiling)* user right is required to open the **Portfolio Statement Template Output Settings Audit Report** page (the *Portfolio Statement Template Output Settings Audit Report* menu item is disabled if the right is not assigned to the current user).

1. Users can narrow report results by any of the following filters in the *Report Result Filters* section at the top of the page:

   a. *Complex*

      i. The drop-down list contains all complexes to which the current user has access, and the selection defaults to the first complex (alphabetically) in the list.

   b. *Portfolio Statement Template*

      i. The drop-down list contains all the portfolio statement templates that were created in association with the specified complex.

   c. *Editing User*

      i. The drop-down list contains all the users in the Users library.

   d. *From Date* and *To Date*

2. The report will track all changes made to the output settings of a given portfolio statement template since the database update to version 2.6.0.

Process Changes

No changes to current processes are required.

[▷] Demonstration video

5.   Application menu section name changes and library reorganization

DFS ID: 134292

Overview

The **Libraries** menu section in the *Administration* area was split into two distinct sections that help to group the libraries therein by function.

What's New

1. The **Libraries** menu section on the *Administration* tab of ArcFiling was renamed *Filing Libraries*.

2. The following items were moved from the formerly-named **Libraries** menu section on the *Administration* tab of ArcFiling to a new **Output Libraries** menu section:

    a. *Image Libraries*

    b. *Table Styles*

Process Changes

No changes to current processes are required.

6. Additional user rights and warnings for "Delete" and "Revert" actions

DFS ID: 134292

Overview

New user rights that govern the ability to delete specific content were added throughout the application. These new user rights provide managers an additional level of granularity for their production teams' roles. Additionally, users will now be warned when deleting or reverting any changes to content that they have effected in the application, ensuring that they understand the consequence of their actions.

What's New

1. A standard warning message now displays when a user attempts to revert changes made to content/data on a given application page.

    a. When a user clicks the *Revert* button, the following message is displayed in a pop-up dialogue:

    Would you like to revert the last change made?

    i. Clicking the *Yes* button on the dialogue causes the dialogue to close, and for the last change made by the user to be undone.

    ii. Clicking the *No* button on the dialogue causes the dialogue to close, and for the page to remain in an unsaved state.

2. Logic for a number of application pages was updated to ensure that users with appropriate rights receive a warning message on attempt to delete a record from a given page.

    a. When a user clicks the *Delete* button, the following message is displayed in a pop-up dialogue:

    Are you sure you wish to delete the selected [item]?

    i. Clicking the *Yes* button on the dialogue causes the dialogue to close, and for the selected item to be deleted.

    ii. Clicking the *No* button on the dialogue causes the dialogue to close, and for no action to be taken (*i.e.*, the item is not deleted).

b. The following pages were included in this update:

    i. ArcFiling

        A. **Document Structure Templates**

        B. **Portfolio Statement Templates**

        C. **Project Templates**

        D. **Tabular Data Templates**

Process Changes

Managers are advised to review their teams' deletion rights and apply the rights where necessary.

7. Issuer Master/Issuer Library updates to support library-level LEIID

DFS ID: 135206

Overview

Data for the *LEIID* field was stored at the Issuer Master level in previous versions of FundSuiteArc. The *LEIID* field is now located on the **Issuer Libraries** page. The new field location will allow *LEIID* information to be maintained for each individual complex.

What's New

The *LEIID* field was removed from the **Issuer Master** page and now appears on the **Issuer Libraries** page.

> **Note:**
> Existing *LEIID* information will be migrated from **Issuer Master** to **Issuer Libraries** upon database update to version 2.6.0.

1. The *LEIID* field now exists at the account period level and follows existing issuer/caption rollforward logic.

2. The fund holdings *LEIID* field (Item C.4 - LEIID) now draws its value from the Issuer Libraries *LEIID* field.

3. The repo holdings collateral *LEIID* field (Item C.8.c - LEIID) now draws its value from the Issuer Libraries *LEIID* field.

4. Logic in the Repo Collateral Information data import/dataload was updated to ensure that blank *LEIID* values for existing holdings collateral records are populated with the contents of load file, when the *Import New Records and Overwrite Existing Records* option is selected.

Process Changes

No changes to current processes are required.

▷ Demonstration video

Enhancements to ArcFiling

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

1. N-MFP Review Report enhancements

DFS IDs: 110282, 134873, 135568

Overview

The N-MFP Review Report was updated with several usability enhancements.

What's New

1. The question *Are all final legal maturity dates for Item C.13 less than 365 days past the current account period date?* on **Sheet4** now references **Item C.12**, both in text and validation logic. The question now reads and evaluates as *Are all final legal maturity dates for Item C.12 less than 365 days past the current account period date?*

2. Formatting for numeric values on each sheet of the N-MFP Review Report was set as *Number*, with the appropriate number of decimal places, *Use 1000 Separator* and *Negative numbers* formatting (*e.g.*, *1,234.10*).

3. The **Revision** value for a given project (as seen in the grid on the **Output Management** tab of the **Project** page) is now displayed in cell *A4* of **Sheet1** in the N-MFP Review Report.

4. Part B of the N-MFP Review Report, on both **Sheet1** and **Sheet4**, was updated to return a row beneath each instance of a class for **Item B.1**, displaying the class name text corresponding to each EDGAR Class Identifier.

5. Details pertaining to the question *For all Fund Holdings that are classified as a Repurchase Agreement: Is the total value of its collateral greater than or equal to 102% of its value?* were added to **Sheet4** of the N-MFP Review Report, as follows:

    a. A listing of each repurchase agreement and total percentage of collateral is displayed in **Column D**.

    b. For each record, the *otherUniqueId* XML element and its corresponding percentage will display in the cell to the right of the **Yes/No** validation answer. If there are multiples instances, identifiers will be semi-colon delimited.

    c. The validation check on **Sheet4** for the question *Are the shares outstanding of the Series (Item A.17) equal to the sum of all classes?* was updated to use 4 decimal places for both **Item A.17** and **Item B.4**.

Process Changes

No changes to current processes are required.

▷ Demonstration video

2. Support for Form N-MPF2 requirements

DFS ID: 111407

Overview

The SEC issued new technical specifications which updated legacy Form N-MFP1 to Form N-MFP2 and removed credit rating references, among several other changes. The new requirements prompted updates to ArcFiling, with respect to data import/dataload, user interface, XML generation and the N-MFP Review Report.

What's New

The following application updates were made to support each SEC revision:

1. The form name was changed from *Form N-MFP1* to *Form N-MFP2*.

    a. XML generation was updated to accommodate the *Form N-MFP2* submission type.

    b. The **Filing Manager** page user interface features and output were updated to reflect *N-MFP2* or *N-MFP2/A* as the submission type.

    c. The *Filing Type* field of the **Submission Status** widget was updated to display *N-MFP2*.

    d. The *N-MFP (XML)* output type was re-introduced to the **Batch Project Output** page, to facilitate output for N-MFP2 and N-MFP2/A.

    e. Contents of the N-MFP Review Report were updated to support fields and values in Form N-MFP2.

2. The following areas of the application were enhanced to support the new *Is the security an eligible security* (Item C.9) and *HR Ratings de México, S.A. de C.V.* (Item C.10 / Item C.10.a) fields:

    a. *Holdings* tab of the **Fund Holdings** page.

    b. Holdings data import/dataload and corresponding overwrite options.

        i. Added *IsSecurityEligible* field.

            A. Supported values are *1* or *0*, *True* or *False*, *TRUE* or *FALSE*, *true* or *false*, or blank (meaning *false*).

ii. Added *HRCreditRating* field.

A. Field type is *NVARCHAR* and supports a length of 16.

iii. Added *HR* as a supported value for the following existing fields:

A. *DemandFeatureIssuerNRSROList*

B. *EnhancementProviderNRSROList*

C. *GuarantorNRSROList*

c. **Global Holdings Review** page (*All columns* and *Global Holdings Review* views).

d. **Holdings Data Extract** page (*FundSuiteArc* output format).

e. *Security Captions* tab of the **Security Libraries** page.

3. The *Holdings* tab of the **Fund Holdings** page was updated to reflect the removal of credit rating references and renumbering of items within the form. A summary of changes is as follows:

a. *Item C.9* was revised: Becomes *Is security an eligible security*.

b. *Item C.10* was revised: Becomes *Security rating(s) considered. Provide each rating assigned by any NRSRO that the fund's board of directors (or its delegate) considered in determining that the security presents minimal credit risks (together with the name of the assigning NRSRO). If none, leave blank.*

c. *Item C.14.b* and *Item C.14.c* were removed.

d. *Item C.14.d* through *Item C.14.f* were redesignated as *Item C.14.b* through *Item C.14.d*.

e. *Item C.14.e* was added: *Rating(s) considered. Provide each rating assigned to the demand feature(s) or demand feature provider(s) by any NRSRO that the board of directors (or its delegate) considered in evaluating the quality, maturity or liquidity of the security (together with the name of the assigning NRSRO). If none, leave blank.*

f. *Item C.15.b* and *Item C.15.c* were removed.

g. *Item C.15.d* was redesignated as *Item C.15.b*.

h. *Item C.15.c* was added: *Rating(s) considered.*

i. *Item C.16.c* and *Item C.16.d* were removed.

j. *Item C.16.e* was added: *Rating(s) considered.*

4. Updates to NRSRO include the addition of *HR Credit Rating* (*HR Ratings de México, S.A. de C.V.*), the removal of *R&I Credit Rating*, and renaming of two existing credit ratings (*Kroll Bond Rating Agency, Inc. (formerly known as LACE Financial Corp.)* and *Morningstar Credit Ratings, LLC (formerly known as Realpoint LLC)*). Updates were made to ArcFiling to reflect the agency name changes in the following areas:

   a. Column header names on the **Holdings** tab of the **Fund Holdings** page.

   b. **Assign/Remove Agencies** pop-up dialogue for demand feature issuer, enhancement provider and guarantor libraries (invoked via the **Holdings** tab of the **Fund Holdings** page).

   c. **Demand Feature Issuers** page.

   d. **Enhancement Providers** page.

   e. **Guarantors** page.

   f. **XML Disclosure Profiles** page (updated with removal of optional displays for credit ratings).

Process Changes

No changes to current processes are required.

Closed Defects

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

Product	DFS ID	Module/Location	Description
ArcFiling	112187 (IM16-076925)	Fund Holdings	Users can revert the value of *Item C.6 - Description* back to being empty/blank.
ArcFiling	112326 (IM15-183342)	Fund/Class Setup	Corrected issue in which feeder fund assignments were being incorrectly removed from their respective master fund, when other master funds feeder funds were removed.
ArcFiling/ ArcReporting	89906 (IM14-256040, IM14-441301)	Batch Project Output	Batch output will no longer cause random projects to fail in generation.
ArcFiling/ ArcReporting	90649 (IM15-197140)	Project Excel Export	The Project Excel Export will no longer fail within the **Output Queue** when users opt to generate output for an entire project.
ArcFiling/ ArcReporting	144217	Fund Information/ Financial Workbook	The Excel template for the Fund Information load (accessed via the *Get import template* button) was updated to the correct version.
ArcFiling/ ArcReporting	110075 (IM15-249451, IM15-249228, IM16-026646)	(cross-product)	Users will now be able to download all Excel import templates. Previously, the user got a blank import template in some scenarios.
ArcFiling/ ArcReporting	112268 (IM16-039536)	Text Snippet Audit Report	The Text Snippet Audit Report search will now show all snippets when a user has specified *[All]* in the *Snippet Name* drop-down list.

Product	DFS ID	Module/Location	Description
ArcFiling/ ArcReporting	112682 (IM16-049471)	Fund Holdings	Duplicate columns will no longer be created in the *All columns* view of the **Fund Holdings** page due to categories still loading.
ArcFiling/ ArcReporting	113283 (IM16-063050)	Class Balances Audit Report	The Class Balances Audit Report will now only show fields that have been loaded/overwritten as being changed, rather than showing all fields.
ArcFiling/ ArcReporting	130239 (IM16-155898)	Portfolio Statement Template Output Settings	Data points applied directly to a spanned cell will now get evaluated as expected. Prior to this, the data point name was displayed in output.
ArcFiling/ ArcReporting	130253 (IM16-156531)	Project	Users will no longer receive a "*Pre-Assembling: : Dictionary`2.get_Item:The given key was not present in the dictionary.*" error message when trying out output a given project.
ArcFiling/ ArcReporting	133982 (IM16-156074)	Same Security Prior Period Report	The Same Security Prior Period Report will now respect the fund specified in the report results filter.
ArcFiling/ ArcReporting	134007 (IM16-166132)	Portfolio Statement Templates	Duplication of portfolio statement values will no longer occur due to insertion of duplicate records.
ArcFiling/ ArcReporting	134208 (IM16-172354)	Fund Holdings	When applying category exceptions to multiple securities at the same time, only the category type the user has specified will be modified.
ArcFiling/ ArcReporting	134221 (IM16-161898)	Archive Details	When loading fund information data, numeric values seen on the **Archive Details** page will be truncated, rather than rounded.

Product	DFS ID	Module/Location	Description
ArcFiling/ ArcReporting	134634 (IM16-181175)	Fund Holdings	Security categories will not be removed when a security is deleted from a fund that shares the same security library.
ArcFiling/ ArcReporting	143641 (IM16-233560)	Holdings Import	The *Position Type* holdings field will not be overwritten if the user has its check box cleared on the *Security Balance* tab of the **Holdings Import** dialogue. Previously, if a user overwrote the *Shares* field, the *Position Type* field was also overwritten.
ArcFiling/ ArcReporting	144801 (IM16-258889)	Fund Relationships	Fund relationships will no longer get grouped together during the automatic rollforward process triggered by the creation of a new account period.

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