



# FundSuiteArc Version 2.4.0 Release Notes

ArcFiling 2.4.0

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RR DONNELLEY

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# Release Notes Preface

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

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



## Important Notes

1. The **LEIID** field was added to the Repo Collateral Information dataload/data import. Please note that the load behavior for fields that are of type *Security Issuer*, such as **LEIID**, cannot be overwritten for existing repo holdings collateral. If this field requires an updated LEI for existing repo holdings collateral, the **LEIID** value can either be manually updated in the Issuer Master library, or via a Holdings dataload/data import, which *does* allow for the optional overwrite of LEI information. Any new repo holdings collateral loaded with an **LEIID** value will be populated in both the **Issuer Master** and **Repo Holdings Collateral** pages upon data load. For details on this item, see the *Dataload/Data import updates to support Form N-MFP money market reform* section on page 20 of this document.



# Important Notes - SP1

1. ArcFiling now supports the **amortizedCostPortfolioSecurities** element (Item A.14.b.i) in the SEC filing for Form N-MFP, which captures the market value of securities in the fund that are using the amortized cost pricing. For details on this item, see the **User interface updates to support Form N-MFP money market reform** section on page 25 of this document.
2. Form N-MFP Item A.14.b.i (**Total Value of Portfolio Securities**) now appears on **Sheet1** and **Sheet4** of the Review Report. For details on this item, see the **Review Report updates to support Form N-MFP money market reform** section on page 33 of this document.
3. The XML message for the SEC Form N-MFP filing now supports multiple securities pledged as collateral for a given repurchase agreement. For details on this item, see the **Review Report updates to support Form N-MFP money market reform** section on page 33 of this document.

4. Users can now specify a maximum of 10,000 rows in the **Rows Per Page** spinner control at lower-left of the **Holdings** tab on the **Fund Holdings** page. For details on this item, see the **Increased maximum "Rows Per Page" value for Fund Holdings page** section on page 41 of this document.
5. Support for N-MFP output via the **Batch Project Output** page was removed. Going forward users will not be able to batch output XML for this filing; output must be generated exclusively via the **Project** page.
6. ArcFiling now supports reporting securities categorized as **Fair Value Level 3** in the fair value hierarchy under U.S. GAAP (ASC 820, Fair Value Measurement), by means of the new Form N-MFP Item C.20 (**Is Security Fair Value Level 3**). This field appears in the grid of the **Holdings** tab on the **Fund Holdings** page as a read-only check box, which is automatically selected when a given security's **Fair Value Level** is assigned **Level 3**. When a security's **Fair Value Level** is specified as *(none)*, **Level 1** or **Level 2**, the **Item C.20 - Is Security Fair Value Level 3** check box will be cleared.

**Note:**

As the identification of **Fair Value Level 3** securities is now a mandatory reporting requirement for Form N-MFP, it is recommended that clients add the **FairValueLevel** column to their Holdings data import/dataload source files. This will allow ArcFiling to automatically assign the appropriate **Item C.20 - Is Security Fair Value Level 3** value. For details on this item, see the **User interface updates to support Form N-MFP money market reform** section on page 25 of this document.



# Release Notes Summary

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

## 1. Enhancements Common to Multiple Products

### 1. Ability to roll "Ad Hoc" text snippets forward from one period to another

Functionality was added at the project template level to allow users to roll *Ad Hoc* text snippets forward to the next reporting period.

### 2. "Platform Administration" area now known as "Environment Administration"

The "Platform Administration" area of FundSuiteArc was renamed to "Environment Administration". This change in name helps better represent the scope of the settings contained within the administration module.

### 3. Ability to purge holdings data for a specific balance type

Users can now drill down to and purge balance type-specific records for holdings data via the **Data Purge** page. Prior to this enhancement, users were forced to purge all records for a given account period, regardless of balance type.

### 4. Fund/Category Exception Report and ability to roll category exceptions forward

Functionality was added to allow users to roll fund exceptions forward that are created based on account period. In addition, a report is now available that captures the aggregated allotment of fund exceptions that have been created.

### 5. User right to govern deletion of published project drafts

The management of project-, chapter- and section-level published output was enhanced with the addition of a new user right. Users having this right will be able to delete project-, chapter- and section-level drafts from the revisions grid.



## 2. Enhancements to ArcFiling

### 1. Dataload/Data import updates to support Form N-MFP money market reform

Dataload (TXT) and Data import (Excel) source files were enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

### 2. User interface updates to support Form N-MFP money market reform

FundSuiteArc user interfaces were enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

### 3. Review Report updates to support Form N-MFP money market reform

The FundSuiteArc N-MFP Review Report was enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

### 4. SEC and ICI submission updates to support Form N-MFP money market reform

A new XML message was constructed to meet the new SEC Form N-MFP filing requirements.

### 5. Increased maximum "Rows Per Page" value for Fund Holdings page

In previous versions of FundSuiteArc, users could not display more than 1,000 rows per page in the grid on the **Holdings** tab of the **Fund Holdings** page. Consequently, it was not always possible to view or export the complete set of holdings for particularly large funds.



# Enhancements Common to Multiple Products

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

# 1. Ability to roll "Ad Hoc" text snippets forward from one period to another

RRD ID: 53523

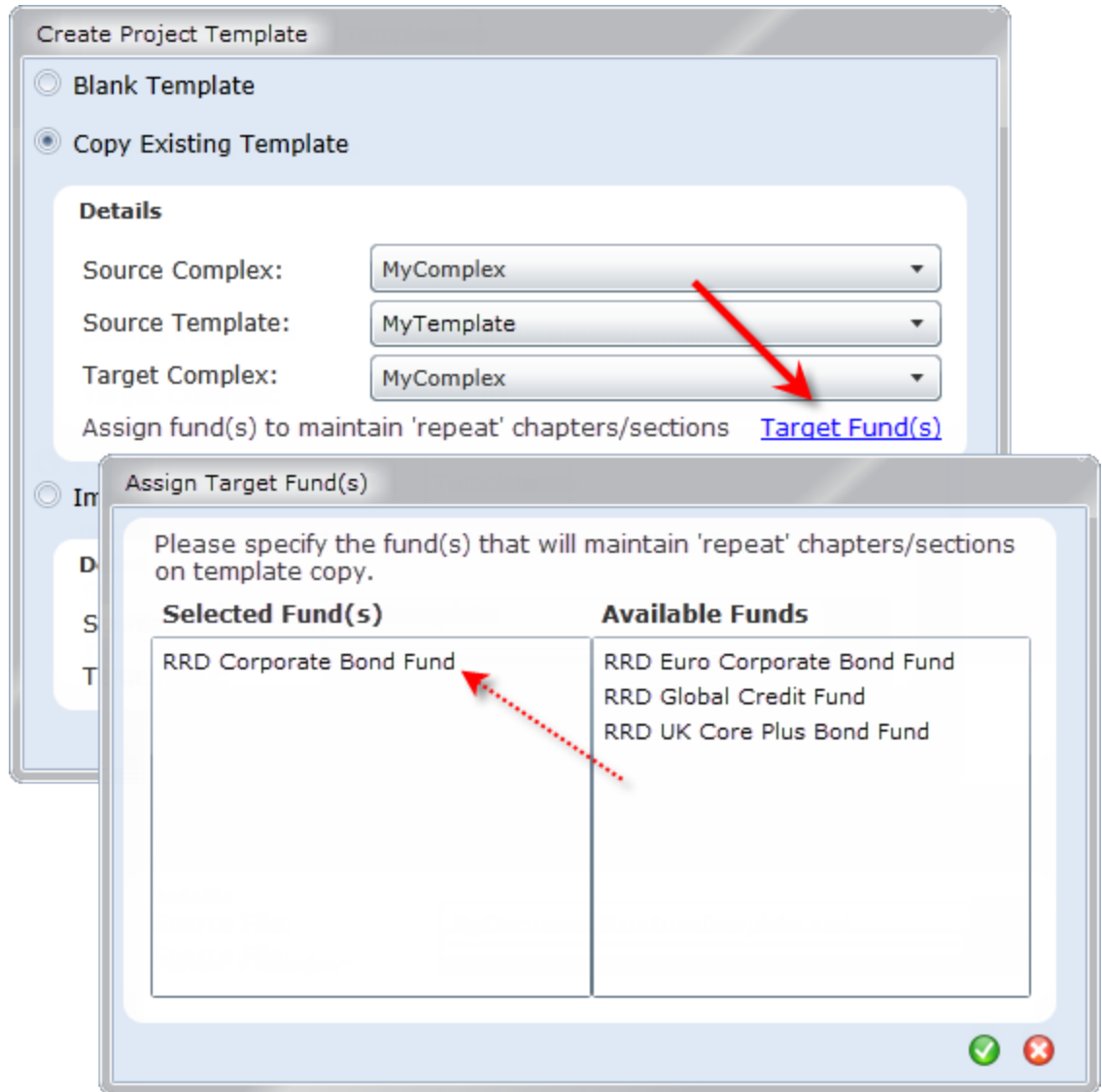
## Overview

Functionality was added at the project template level to allow users to roll *Ad Hoc* text snippets forward to the next reporting period.

## What's New

1. An *Ad Hoc snippet rollforward* check box was added to the *Item Detail* sub-tab on the *Contents* tab of the **Project Templates** page, for text snippets having a *Text Snippet Option* drop-down list selection of *Ad Hoc*.
  - a. The new *Edit Ad Hoc Snippet Rollforward Setting* user right is required to select/clear the check box (the check box is disabled if the right is not assigned to the current user).
    - i. This user right was added as a child to the existing *Open Project Templates Page (ArcFiling)* right.
  - b. Selecting the check box causes the content of the current text snippet to roll forward from period to period when a new instance of a project associated with the current template is created.
2. The existing Project Template Audit Report now includes a possible *Sub Type* value of *Text Snippet Ad Hoc Rollforward*, which displays when changes are made to the state of the *Ad Hoc snippet rollforward* check box on the *Item Detail* sub-tab of the **Project Templates** page.
3. Project template copy functionality was updated to support the new *Ad Hoc snippet rollforward* check box setting on the *Item Detail* sub-tab of the **Project Templates** page.
  - a. For the check box setting to be included in a project template copy operation, a user must click the *Target Fund(s)* link on the **Create Project Template** dialogue when copying an existing template, and

then designate one or more specific funds via the **Assign Target Fund(s)** dialogue that displays.



**Note:**

The project template export feature does not retain the rollforward setting.

**Process Changes**

No changes to current processes are required.



[Demonstration video](#)

## 2. "Platform Administration" area now known as "Environment Administration"

*RRD ID: 66209*

### Overview

The "Platform Administration" area of FundSuiteArc was renamed to "Environment Administration". This change in name helps better represent the scope of the settings contained within the administration module.

### What's New

The "Platform Administration" area is now known as the "Environment Administration" area.



### Process Changes

No changes to current processes are required.

### 3. Ability to purge holdings data for a specific balance type

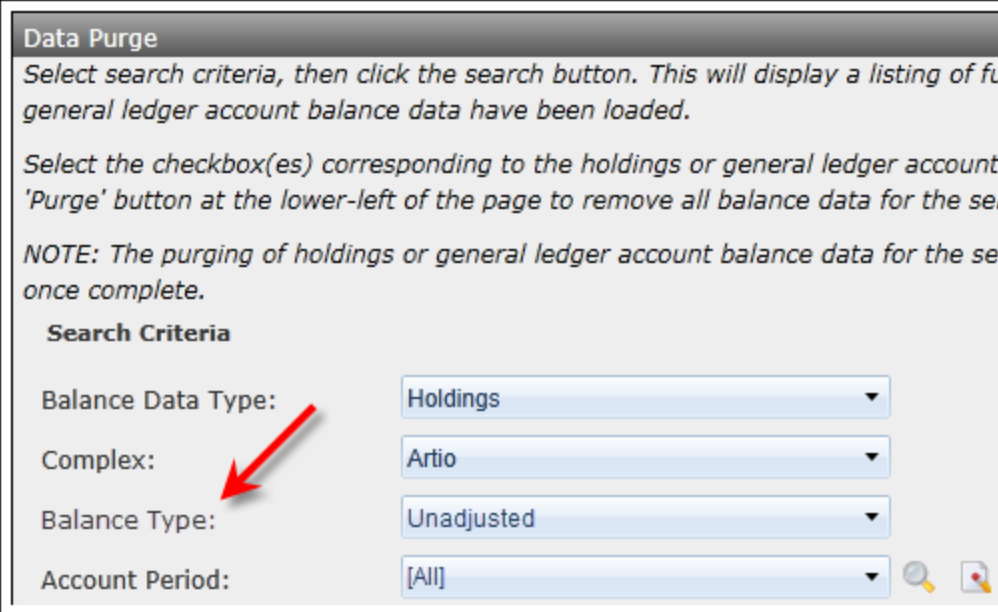
RRD ID: 67192

#### Overview

Users can now drill down to and purge balance type-specific records for holdings data via the **Data Purge** page. Prior to this enhancement, users were forced to purge all records for a given account period, regardless of balance type.

#### What's New

1. A **Balance Type** drop-down list was added to the **Search Criteria** section of the **Data Purge** page.



The screenshot shows the 'Data Purge' interface. At the top, there is a title bar 'Data Purge' and two paragraphs of instructions. Below the instructions is a section titled 'Search Criteria' containing four dropdown menus: 'Balance Data Type' (set to 'Holdings'), 'Complex' (set to 'Artio'), 'Balance Type' (set to 'Unadjusted'), and 'Account Period' (set to '[All]'). A red arrow points to the 'Balance Type' dropdown menu. There are also search and refresh icons at the bottom right of the search criteria section.

**Data Purge**  
*Select search criteria, then click the search button. This will display a listing of full general ledger account balance data have been loaded.*

*Select the checkbox(es) corresponding to the holdings or general ledger account 'Purge' button at the lower-left of the page to remove all balance data for the selected criteria.*

*NOTE: The purging of holdings or general ledger account balance data for the selected criteria will be complete once complete.*

**Search Criteria**

Balance Data Type:

Complex:

Balance Type:

Account Period:

- a. The drop-down list is populated with the following selections:
  - i. **[All]** (default selection)
    - A. This selection causes search results to display data for all balance types defined in the current FundSuiteArc environment.

- ii. *<all balance types in the current environment, in ascending order>*
  - A. Any of these selections cause the search results to display data for only the specified balance type.
  - b. When the **Search** button is clicked, the results grid on the page displays data reflecting the fund(s), balance type(s) and account period(s) into which holdings data has been loaded.
- 2. A **Balance Type** column was added to the results grid of the **Data Purge** page.
  - a. The column displays the name of the balance type with which the holdings/collateral securities balance data is associated.
- 3. One row now displays in the results grid of the **Data Purge** page for each fund for which data has been loaded for the specified balance type/account period combination. As such, users can select individual rows in the grid and purge the associated data independently of other holdings balance data of the same account and balance type.

## Process Changes

No changes to current processes are required.



[Demonstration video](#)



## 4. Fund/Category Exception Report and ability to roll category exceptions forward

RRD ID: 68725

### Overview

Functionality was added to allow users to roll fund exceptions forward that are created based on account period. In addition, a report is now available that captures the aggregated allotment of fund exceptions that have been created.

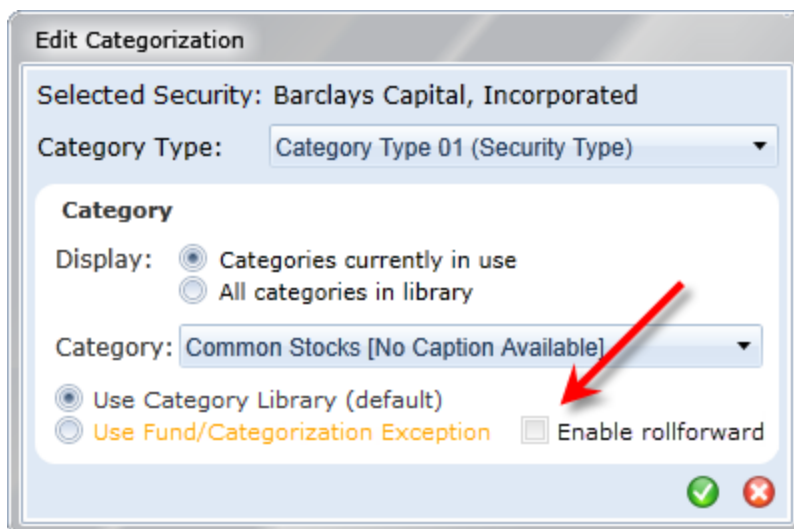
### What's New

- The existing **Use Fund Exception** option button label on the **Edit Categorization** dialogue (invoked via the **Holdings** tab of the **Fund Holdings** page) was renamed **Use Fund/Categorization Exception**.

**Note:**

No change was made to existing functionality associated with this option.

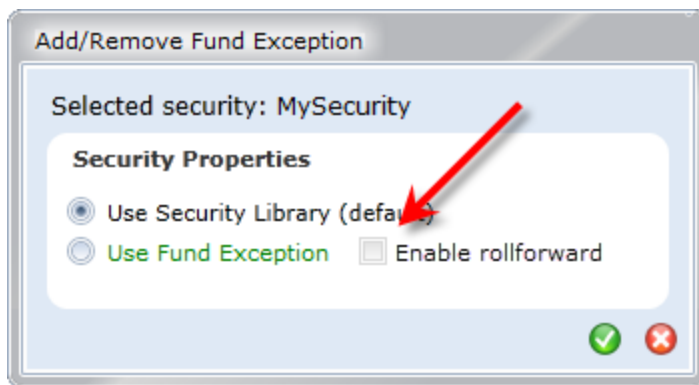
- An **Enable rollforward** check box was added to the existing **Edit Categorization** dialogue (invoked via the **Holdings** tab of the **Fund Holdings** page), in association with the **Use Fund/Categorization Exception** option button.



**Note:**

The check box is only enabled when the *Use Fund/Categorization Exception* option button is selected; it is disabled when the *Use Category Library (default)* option button is selected.

- a. Selecting the check box causes the fund/categorization exception for the selected security to be rolled forward to the next account period.
3. An *Enable rollforward* check box was added to the existing **Add/Remove Fund Exception** dialogue (invoked via the *Holdings* tab of the **Fund Holdings** page), in association with existing *Use Fund Exception* option button.



**Note:**

The check box is only enabled when the *Use Fund Exception* option button is selected; it is disabled when the *Use Security Library (default)* option button is selected.

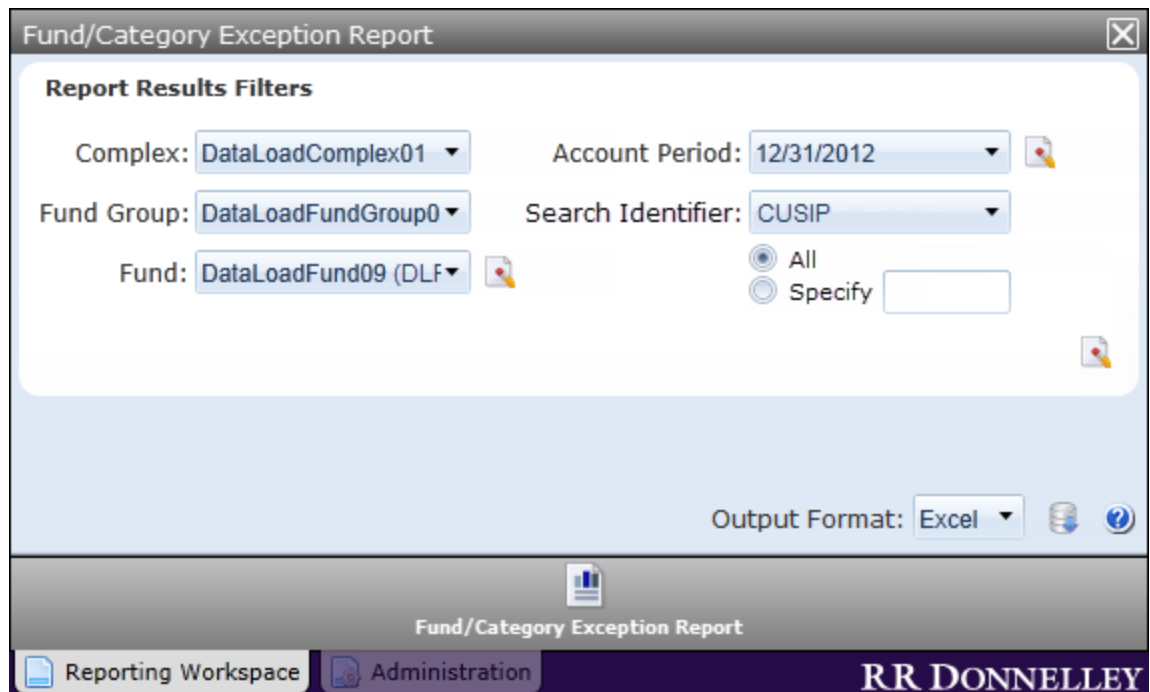
- a. Selecting the check box causes the fund exception for the selected security to be rolled forward to the next account period.
  - i. Rollforward will occur under either of the following circumstances:
    - A. Data is loaded to a new account period for a security or category within a fund for which a user created an exception and enabled rollforward.
    - B. A new account period is created that contains a security or category within a fund for which a user created an exception and enabled rollforward.

4. A **Fund/Category Exception Report** page was added to ArcFiling.
  - a. The report is accessed via a new menu item of the same name in the existing **Reports** menu section on the *Filings Workspace* tab.

**Note:**

The menu item is only enabled for users assigned the new *Open Fund/Category Exception Report Page (ArcFiling)* user right.

- b. The report allows users to filter based on complex, fund group, fund and security identifier (e.g., *CUSIP*, *Master Identifier*, *SEDOL*, etc.). Output is available in Excel format.



## Process Changes

No changes to current processes are required.

 [Demonstration video](#)

## 5. User right to govern deletion of published project drafts

*RRD ID: 91226*

### Overview

The management of project-, chapter- and section-level published output was enhanced with the addition of a new user right. Users having this right will be able to delete project-, chapter- and section-level drafts from the revisions grid.

### What's New

A *Delete Revisions* user right was added as a child to the existing *Open Project Page (ArcFiling)* right.

1. Users that have this right will be able to delete drafts from the revisions grid on the *Output Management* tab of the **Project** page by means of the existing *Remove item from grid* button (the button is now disabled if the right is not assigned to the current user).

### Additional Information

Upon database update to version 2.4.0, no existing user roles will have this new right assigned by default; for users to delete project output drafts, the right must be added manually to their assigned role(s).

### Process Changes

Changes to role definitions must be made to avail of the *Remove item from grid* feature.



[Demonstration video](#)



# Enhancements to ArcFiling

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

# 1. Dataload/Data import updates to support Form N-MFP money market reform

*RRD IDs: 50622, 50623, 50624, 52355*

## Overview

Dataload (TXT) and Data import (Excel) source files were enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

## What's New

The following data imports/dataloads were enhanced to allow users to import additional data elements required to support the Form N-MFP1 filings:

1. Fund Information
  - a. The following fields can now be loaded, both through front-end Excel import and via FTP:
    - i. *TVDLAFridayWeek1*
    - ii. *TVDLAFridayWeek2*
    - iii. *TVDLAFridayWeek3*
    - iv. *TVDLAFridayWeek4*
    - v. *TVDLAFridayWeek5*
    - vi. *TVWLAFridayWeek1*
    - vii. *TVWLAFridayWeek2*
    - viii. *TVWLAFridayWeek3*
    - ix. *TVWLAFridayWeek4*
    - x. *TVWLAFridayWeek5*
    - xi. *PDLAFridayWeek1*
    - xii. *PDLAFridayWeek2*

- xiii. *PDLAFridayWeek3*
- xiv. *PDLAFridayWeek4*
- xv. *PDLAFridayWeek5*
- xvi. *PWLAFridayWeek1*
- xvii. *PWLAFridayWeek2*
- xviii. *PWLAFridayWeek3*
- xix. *PWLAFridayWeek4*
- xx. *PWLAFridayWeek5*
- xxi. *Cash*
- xxii. *TotalValuePortfolioSecurities*
- xxiii. *NumberOfSharesOutstanding*
- xxiv. *NAVPSFridayWeek1*
- xxv. *NAVPSFridayWeek2*
- xxvi. *NAVPSFridayWeek3*
- xxvii. *NAVPSFridayWeek4*
- xxviii. *NAVPSFridayWeek5*

- b. Load behavior was modified so that the data source file need not include all fields (other than the defined required fields). This is consistent with current behavior in the Holdings load, in which a user can include only the fields that he/she wishes to import, in any order.
- c. The preview grid on the **Fund Information Import** dialogue (for Excel imports) now includes the newly-added Fund Information import fields.
- d. The **Archive Details** page was updated to include the newly-added Fund Information import fields.

- e. The Excel template for push-button data imports (accessible via the **Get import template** button on the **Fund Information** page) was updated in the following ways:
    - i. The file format/extension was changed from *.xls* to *.xlsx*.
      - A. The recommended format for Excel data import source files is now *.xlsx*.
    - ii. The order of columns in the file now starts with required fields, then all other fields in alphabetical order.
  - f. The newly-added Fund Information import fields are now tracked in the Fund Data Points Audit Report.
2. Class Information
- a. The following fields can now be loaded, both through front-end Excel import and via FTP:
    - i. *NAVPSFridayWeek1*
    - ii. *NAVPSFridayWeek2*
    - iii. *NAVPSFridayWeek3*
    - iv. *NAVPSFridayWeek4*
    - v. *NAVPSFridayWeek5*
    - vi. *GrossSubscriptionsFridayWeek1*
    - vii. *GrossRedemptionsFridayWeek1*
    - viii. *GrossSubscriptionsFridayWeek2*
    - ix. *GrossRedemptionsFridayWeek2*
    - x. *GrossSubscriptionsFridayWeek3*
    - xi. *GrossRedemptionsFridayWeek3*
    - xii. *GrossSubscriptionsFridayWeek4*
    - xiii. *GrossRedemptionsFridayWeek4*
    - xiv. *GrossSubscriptionsFridayWeek5*
    - xv. *GrossRedemptionsFridayWeek5*



- xvi. *PersonPayForFundFlag*
  - xvii. *NameOfPersonDescExpensePay*
  - b. Load behavior was modified so that the data source file need not include all fields (other than the defined required fields). This is consistent with current behavior in the Holdings load, in which a user can include only the fields that he/she wishes to import, in any order.
  - c. The **Archive Details** page was updated to include the newly-added Class Information import fields.
  - d. The newly-added Class Information import fields were added to the **Options** tab of both the **Class Information Load Options** page and the **Class Information Import** dialogue (for Excel imports).
  - e. The newly-added Class Information import fields are now tracked in the Class Balances Audit Report.
3. Holdings
- a. The following fields can now be loaded, both through front-end Excel import and via FTP:
    - i. *LEIID*
    - ii. *RepurchaseAgreementOpenFlag*
    - iii. *FinalLegalInvestmentMaturityDate*
    - iv. *AmountProvidedByDemandFeatureIssuer*
    - v. *RemainingPeriodDemandFeature*
    - vi. *DemandFeatureConditionalFlag*
    - vii. *AmountProvidedByGuarantor*
    - viii. *AmountProvidedByEnhancement*
    - ix. *IncludingValueOfAnySponsorSupport*
    - x. *ExcludingValueOfAnySponsorSupport*
    - xi. *DailyLiquidAssetSecurityFlag*
    - xii. *WeeklyLiquidAssetSecurityFlag*
  - b. None of the new fields are required; a Holdings dataload via FTP or Excel import can be processed with or without any of the new fields.

- c. The Excel template for push-button data imports (accessible via the **Get import template** button on the **Holdings** tab of the **Fund Holdings** page) was updated to include the newly-added Holdings import fields.
- 4. Repo Collateral Information
  - a. The following field can now be loaded, both through front-end Excel import and via FTP:
    - i. **LEIID**
  - b. Load behavior was modified so that the data source file need not include all fields (other than the defined required fields). This is consistent with current behavior in the Holdings load, in which a user can include only the fields that he/she wishes to import, in any order.
  - c. The **Archive Details** page was updated to include the newly-added Repo Collateral Information import field.
  - d. The Excel template for push-button data imports (accessible via the **Get import template** button on the **Repo Holdings Collateral** page) was updated in the following ways:
    - i. The file format/extension was changed from **.xls** to **.xlsx**.
      - A. The recommended format for Excel data import source files is now **.xlsx**.
    - ii. The new **LEIID** field was added to the template.

## Process Changes

No changes to current processes are required.

## 2. User interface updates to support Form N-MFP money market reform

*RRD IDs: 65216, 96159, 96160, 96165, 96167, 96168, 96169, 96170, 96487, 98259, 102757*

### Overview

FundSuiteArc user interfaces were enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

### What's New

The following N-MFP application pages were modified to accommodate the SEC-mandated changes:

#### 1. General Information

- a. The legacy **Submission Information** page in ArcFiling was renamed **General Information**.
- b. The following data elements were added:
  - i. *Reporting Date*
    - A. Effective month end date for the filing period.
  - ii. *LEI of Registrant*
    - A. Legal Entity Indicator.
  - iii. *#Share Classes in Series*
    - A. Total Share classes in the series.
    - B. ArcFiling automatically calculates this value based on the number of active classes set up on the **Funds** page in the Environment Administration area.
- c. Fields on the page were renumbered to be consistent with SEC Form N-MFP1 (SEC Items: Item 1 - Item 8).
- d. Check boxes formerly on the page to capture Y/N responses were replaced with radio button controls.

## 2. Part A: Fund/Class Setup

- a. The legacy **Fund/Class Setup** page in ArcFiling was renamed **Part A: Fund/Class Setup**.
- b. Existing data elements were relabeled per amended SEC Form N-MFP1, Parts A and B.
- c. The following new data element was added:
  - i. *Is the fund an exempt retail fund? (Y/N)*
- d. Check boxes formerly on the page to capture Y/N responses were replaced with radio button controls.

## 3. Fund Information

- a. The following data elements were added:
  - i. *Item A. 13.a - Daily Liquid Assets - Friday, week 1*
  - ii. *Item A. 13.a - Daily Liquid Assets - Friday, week 2*
  - iii. *Item A. 13.a - Daily Liquid Assets - Friday, week 3*
  - iv. *Item A. 13.a - Daily Liquid Assets - Friday, week 4*
  - v. *Item A. 13.a - Daily Liquid Assets - Friday, week 5 (if applicable)*
  - vi. *Item A. 13.b - Weekly Liquid Assets - Friday, week 1*
  - vii. *Item A. 13.b - Weekly Liquid Assets - Friday, week 2*
  - viii. *Item A. 13.b - Weekly Liquid Assets - Friday, week 3*
  - ix. *Item A. 13.b - Weekly Liquid Assets - Friday, week 4*
  - x. *Item A. 13.b - Weekly Liquid Assets - Friday, week 5 (if applicable)*
  - xi. *Item A. 13.c - % Total Assets Invested in Daily Liquid Assets - Friday, week 1*
  - xii. *Item A. 13.c - % Total Assets Invested in Daily Liquid Assets - Friday, week 2*
  - xiii. *Item A. 13.c - % Total Assets Invested in Daily Liquid Assets - Friday, week 3*
  - xiv. *Item A. 13.c - % Total Assets Invested in Daily Liquid Assets - Friday, week 4*
  - xv. *Item A. 13.c - % Total Assets Invested in Daily Liquid Assets - Friday, week 5 (if applicable)*
  - xvi. *Item A. 13.d - % Total Assets Invested in Weekly Liquid Assets - Friday, week 1*

- xvii. *Item A.13.d - % Total Assets Invested in Weekly Liquid Assets - Friday, week 2*
- xviii. *Item A.13.d - % Total Assets Invested in Weekly Liquid Assets - Friday, week 3*
- xix. *Item A.13.d - % Total Assets Invested in Weekly Liquid Assets - Friday, week 4*
- xx. *Item A.13.d - % Total Assets Invested in Weekly Liquid Assets - Friday, week 5 (if applicable)*
- xxi. *Item A.14.a - Cash*
- xxii. *Item A.14.b - Total Value of Portfolio Securities*
- xxiii. *Item A.14.b.i - Total Value of Portfolio Securities at Amortized Cost*
- xxiv. *Item A.17 - Number of shares outstanding*
- xxv. *Item A.20 - Net Asset Value Per Share - week 1*
- xxvi. *Item A.20 - Net Asset Value Per Share - week 2*
- xxvii. *Item A.20 - Net Asset Value Per Share - week 3*
- xxviii. *Item A.20 - Net Asset Value Per Share - week 4*
- xxix. *Item A.20 - Net Asset Value Per Share - week 5*

- b. Fields on the page were renumbered to be consistent with SEC Form N-MFP1, Part A.
- c. Check boxes formerly on the page to capture Y/N responses were replaced with radio button controls.
- d. An ***Item A.14.b - Total Value of Portfolio Securities*** field was added to the page.
  - i. This field reflects the total value of portfolio securities.
  - ii. The ***Total Value*** market value check field (formerly associated with the ***Total Value of Portfolio Securities at Amortized Cost*** field) was moved to correspond with this new field.
- e. The legacy ***Item A.14.b.i - Total Value of Portfolio Securities at Amortized Cost*** field now reflects the total value of portfolio securities that are **valued at amortized cost**.

#### 4. Class Information

- a. The following data elements were added:
  - i. *Item B.5 - NAV - Friday, week 1*
  - ii. *Item B.5 - NAV - Friday, week 2*

- iii. *Item B.5 - NAV - Friday, week 3*
- iv. *Item B.5 - NAV - Friday, week 4*
- v. *Item B.5 - NAV - Friday, week 5 (if applicable)*
- vi. *Item B.6.a.i - Gross Subscriptions - Friday, week 1*
- vii. *Item B.6.a.ii - Gross Redemptions - Friday, week 1*
- viii. *Item B.6.a.i - Gross Subscriptions - Friday, week 2*
- ix. *Item B.6.a.ii - Gross Redemptions - Friday, week 2*
- x. *Item B.6.a.i - Gross Subscriptions - Friday, week 3*
- xi. *Item B.6.a.ii - Gross Redemptions - Friday, week 3*
- xii. *Item B.6.a.i - Gross Subscriptions - Friday, week 4*
- xiii. *Item B.6.a.ii - Gross Redemptions - Friday, week 4*
- xiv. *Item B.6.a.i - Gross Subscriptions - Friday, week 5 (if applicable)*
- xv. *Item B.6.a.ii - Gross Redemptions - Friday, week 5 (if applicable)*
- xvi. *Item B.8 - Person Pay for Fund*
- xvii. *Item B.8.a - Person Pay Information*

b. Fields on the page were renumbered to be consistent with SEC Form N-MFP1, Part B.

## 5. Fund Holdings

- a. The **Fund Holdings** page was redesigned, implementing performance enhancements that improve response time when opening, recalculating and saving fund holdings.
  - i. A **Rows per Page** setting at lower-left of the page allows users to specify the number of records that will be loaded into the grid, as well as the number of records that will be exported using the **Export data** button (📄) at lower-right of the page.
    - A. The default number of rows per page is 25, but the user can increase or decrease the value using the up and down buttons on the spinner control.

- ii. Users can navigate through the fund holdings records using the **Page** controls at lower-right of the page.
  - A. Users can input a page number directly in the text box, use the **Previous** or **Next** arrows to move page by page, or use the **First** and **Last** arrows to navigate to the first or last page of records.

**Note:**

As the user navigates the fund holdings record pages, the information contained on a given page will load, during which time users may see a **Loading** message as the information is retrieved.

- iii. The **Clear all filters** button (🗑️) is now available at upper-left of the grid, with which users can quickly remove all filters applied to columns within the **Holdings** grid.
- b. The following data elements were added:
- i. *Item C.4 - LEI*
  - ii. *Item C.8.a - Is Repo Open*
  - iii. *Item C.13 - Final Legal Investment Maturity Date*
  - iv. *Item C.14.d - % of fractional support provided by each Demand Feature Issuer*
  - v. *Item C.14.e - Principal Amount Recovery Period*
  - vi. *Item C.14.f - Is demand feature conditional*
  - vii. *Item C.15.d - % of fractional support provided by each Guarantor*
  - viii. *Item C.16.e - % of fractional support provided by each enhancement provider*
  - ix. *Item C.18.a - Including sponsor support*
  - x. *Item C.18.b - Excluding sponsor support*
  - xi. *Item C.20 - Is Security Fair Value Level 3*
  - xii. *Item C.21 - Is a Daily Liquid Asset*
  - xiii. *Item C.22 - Is a Weekly Liquid Asset*
- c. Fields on the page were renumbered to be consistent with SEC Form N-MFP1, Part C.

## 6. Repo Holdings Collateral

- a. The following data element was added:
  - i. *Item C.8.c - LEI*
- b. Fields on the page were renumbered to be consistent with SEC Form N-MFP1, Part C.

## 7. N-MFP Project

- a. "Auto Increment" functionality was added to the **Output Management** tab of the page to handle file versions/revisions, similar to current behavior in ArcReporting.
  - i. The ability to manually increment revisions was removed.
  - ii. When a user sends project content to the Output Queue the next numeric value will automatically populate the **Revision** column of the revisions grid.
  - iii. When a project has multiple funds, all increment to the same revision number.
- b. Project output revision purge logic was implemented for non-filed XML output, similar to current functionality in ArcReporting.
  - i. Any XML output that has been filed or is in the process of being filed cannot be purged. This includes the corresponding N-MFP Review Report.

## 8. Global Holdings Review

- a. The following columns were added to the page and export file:
  - i. *LEI*
  - ii. *Final Legal Investment Maturity Date*
  - iii. *Daily Liquid Asset Security Flag*
  - iv. *Weekly Liquid Asset Security Flag*
- b. The new columns are included in both the *All Columns* and *Global Holdings Review* grid views.



## 9. Security Libraries

- a. The following new fields were added to the grid on the **Security Captions** tab:
  - i. *Is Repo Open*
  - ii. *Is a Daily Liquid Asset*
  - iii. *Is a Weekly Liquid Asset*
- b. The following new Security Library fields were added to the Same Security Prior Period Report output:
  - i. *FinalLegalInvestmentMaturityDate*
  - ii. *DailyLiquidAssetSecurityFlag*
  - iii. *WeeklyLiquidAssetSecurityFlag*

## 10. Portfolio Statement Template Output Settings

- a. Support for new data points was added per Schedule of Portfolio Securities (SEC Items: Item C.1 - Item C.24), excluding Repo details, for the following associated application areas:
  - i. Portfolio Statement Templates
  - ii. Portfolio Statement Template Audit Report
  - iii. Portfolio Statement Template Output Settings Template
  - iv. Project Preview

## 11. Tabular Data Template Output Settings

- a. Support for new data points was added per Schedule of Portfolio Securities (SEC Items: Item C.1 - Item C.24), excluding Repo details, for the following associated application areas:
  - i. Tabular Data Template Output Settings Template
  - ii. Project Preview
  - iii. Text Libraries (System Data Points)
  - iv. Text Libraries (Conditional Data Points)

## 12. XML Disclosure Profiles

- a. The **Text to Append to Caption if both Coupon and Yield are 0.000000%** section heading label was changed to **Text to Append to Caption if Coupon is 0.000000%**.
- b. Logic for the newly-renamed **Text to Append to Caption Coupon is 0.000000%** was updated to only look at the value of the **Coupon** field.
- c. The **Ratings to Disclose: Items 34 and 34 (a)** section heading label was changed to **Ratings to Disclose: Items C.10 and C.10.a**.
- d. The **Ratings to Disclose: Items 37 (b), 37 (c), 38 (b), 38 (c), 39 (c), 39 (d)** section heading label was changed to **Ratings to Disclose: Items C.14.b, C.14.c, C.15.b, C.15.c, C.16.c and C.16.d**.

## 13. Legal Entities

- a. A **Legal Entity Identifier** (LEI) text box was added to the page.

## 14. Funds

- a. The following tabs (which display on the page when a fund is selected in the **Fund Structure** tree view) were updated to remove legacy SEC N-MFP specific labeling:
  - i. *Accountants*
  - ii. *Advisers*
  - iii. *Administrators*
  - iv. *Agents*
  - v. *Sub-Advisers*

## Process Changes

No changes to current processes are required.



[Demonstration video](#)

### 3. Review Report updates to support Form N-MFP money market reform

*RRD ID: 96156*

#### Overview

The FundSuiteArc N-MFP Review Report was enhanced to include new fields and behaviors to meet the new SEC Form N-MFP filing requirements.

#### What's New

The N-MFP Review Report was updated in the following ways:

1. Labeling of item numbers was revised per SEC specifications.
2. New fields were added per SEC specifications.
  - a. New field behavior is consistent with current report logic, displaying prior period to current period values.
3. **Sheet3** will show **all** securities pledged as collateral for repurchase agreements.
4. **Sheet4** comparative logic overview:
  - a. General Information and Series-level Information (qualitative values)
    - i. The **Same?** column now displays a green **Yes** or a red **No** when comparing current and prior periods.
  - b. Series-level Information (quantitative values) and Class-level Information
    - i. The value in the **Difference** column now displays to 4 decimals.
      - A. Calculation: Current period minus prior period.
    - ii. The value in the **Percentage** column now displays as **x.xx%**.
      - A. Calculation: {Difference: Value} divided by {Prior Period}.

c. Fund Holdings Information

i. Total Number of Fund Holdings

A. Calculation: Total number of securities in `<scheduleofportfoliosecurityinfo>` elements.

ii. Total Number of Fund Holdings Categorized as Repurchase Agreements

A. Calculation: The number of securities in which `<investmentCategory>` (Item C.6) contains the text *Repurchase Agreement*.

iii. Total Number of Collateral Items for All Repurchase Agreements

A. Calculation: Total number of securities within all `<RepurchaseAgreement>` elements.

iv. Total Value of Fund Holdings Categorized as Repurchase Agreements

A. Calculation: For all securities in which `<investmentCategory>` (Item C.6) contains the text *Repurchase Agreement*, sum of `<totalValueOfFundPosition>`.

v. Total Value of Collateral Items for All Repurchase Agreements

A. Calculation: Sum of `<valueOfCollateralToTheNearestCent>` for all securities in `<RepurchaseAgreement>` elements.

vi. Total Value of All Collateral as a Percentage of All Repurchase Agreements

A. Calculation: Sum `<repurchaseAgreement:valueOfCollateralToTheNearestCent>` of every security; divided by the sum of `<scheduleOfPortfolioSecuritiesInfo:totalValueOfFundPosition>` for every security in which `<investmentCategory>` (Item C.6) contains the text *Repurchase Agreement*. Displayed as *x.xx%*.

vii. Total Number of Fund Holdings with a Demand Feature

A. Calculation: Count the number of securities in which `<scheduleOfPortfolioSecuritiesInfo:securityDemandFeatureFlag>` equals *Y*.

viii. Total Number of Fund Holdings with a Guarantor

A. Calculation: Count the number of securities in which

`<scheduleOfPortfolioSecuritiesInfo:securityGuaranteeFlag>` equals **Y**.

ix. Total Number of Fund Holdings with an Enhancement

A. Calculation: Count the number of securities in which

`<scheduleOfPortfolioSecuritiesInfo:securityEnhancementsFlag>` equals **Y**.

d. Fund/Class Validation

i. Is the WAM less than or equal to 60 days?

A. Calculation: For every security, if `<averagePortfolioMaturity>` is less than or equal to **60**, then **Yes**, else **No**.

ii. Is the WAL less than or equal to 120 days?

A. Calculation: For every security, if `<averageLifeMaturity>` is less than or equal to **120**, then **Yes**, else **No**.

iii. Are the net assets of the Series (Item A.16) equal to the sum of all class net asset (Item B.3)?

A. Calculation: If `<netAssetOfSeries>` equals the sum of all `<netAssetsOfClass>`, then **Yes**, else **No**.

iv. Are the shares outstanding of the Series (Item A.17) equal to the sum of all class shares outstanding (Item B.4)?

A. Calculation (NEW): If `<numberOfSharesOutstanding>` equals the sum of all `<classLevelInfo:numberOfSharesOutstanding>`, then **Yes**, else **No**.

v. For the fund, for all weeks and all classes: Are all the Net Asset Values between 0.9950 and 1.0050?

A. Calculation: If all `<netAssetPerShare:fridayWeek1>`, `<netAssetPerShare:fridayWeek2>`, `<netAssetPerShare:fridayWeek3>`, `<netAssetPerShare:fridayWeek4>` and

<netAssetPerShare:fridayWeek5> is between *0.9950* and *1.0050*, then *Yes*, else *No*. If <netAssetPerShare:fridayWeek5> is null or zero, do not include in logic.

e. Fund Holdings Validation

- i. Are all maturity dates for Item C.11 (WAM) greater than the current account period date?
  - A. Calculation: For all securities, if <InvestmentMaturityDateWAM> is greater than the current period date, then *Yes*, else *No*. If *No*, display <CUSIPMember> for those securities.
- ii. Are all maturity dates for Item C.12 (WAL) greater than the current account period date?
  - A. Calculation: For all securities, if <InvestmentMaturityDateWAL> is greater than the current period date, then *Yes*, else *No*. If *No*, display <CUSIPMember> for those securities.
- iii. Are all final legal maturity dates for Item C.13 less than 365 days past the current account period date?
  - A. Calculation: For all securities, if <finalLegalInvestmentMaturityDate> is greater than (current period date + 365 days), then *No*, else *Yes*. If *No*, display <CUSIPMember> for those securities.
- iv. If classified as *Other Instrument*, are Additional Notes provided?
  - A. Calculation: For all securities, Item C.6, if <investmentCategory> equals *Other Instrument*, confirm <briefDescription> is not empty. If empty then *No*, else *Yes*. If <investmentCategory> does not equal *Other Instrument* for any securities, then *N/A*.
- v. If Item C.14 is checked, has a Demand Feature Issuer (C.14.a) been assigned?
  - A. Calculation: If <securityDemandFeatureFlag> equals *Y*, is <demandFeature:identityOfDemandFeatureIssuer> populated? If populated for all <securityDemandFeatureFlag> equals *Y*, then *Yes*, else *No*. If *No* (*i.e.*, field null or empty) then display <CUSIPMember> for that security(ies). If <securityDemandFeatureFlag> equals *N* for all securities, then *N/A*.

- vi. If Item C.15 is checked, has a Guarantor (C.15.a) been assigned?
- A. Calculation: If `<securityGuaranteeFlag>` equals **Y**, is `<guarantor:identityOfTheGuarantor>` populated? If populated for all `<securityGuaranteeFlag>` equals **Y**, then **Yes**, else **No**. If **No** (i.e., field null or empty) then display `<CUSIPMember>` for that security(ies). If `<securityGuaranteeFlag>` equals **N** for all securities, then **N/A**.
- vii. If Item C.16 is checked, has an Enhancement (C.16.a) been assigned?
- A. Calculation: If `<securityEnhancementsFlag>` equals **Y**, is `<enhancementProvider:identityOfTheEnhancementProvider>` AND `<typeOfEnhancement>` populated? If populated for all `<securityEnhancementsFlag>` equals **Y**, then **Yes**, else **No**. If **No** (i.e., field null or empty) then display `<CUSIPMember>` for that security(ies). If `<securityEnhancementsFlag>` equals **N** for all securities, then **N/A**.
- viii. For all Fund Holdings that are classified as a Repurchase Agreement: Do all Repurchase Agreements have at least one collateral?
- A. Calculation: For all instances where `<scheduleOfPortfolioSecuritiesInfo:investmentCategory>` (Item C.6) contains **Repurchase Agreement**, is there at least one matching `<RepurchaseAgreement:otherUniqueId>`? If yes for all instances, then **Yes**, else **No**.
- ix. 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?
- A. Calculation: For all instances where `<scheduleOfPortfolioSecuritiesInfo:investmentCategory>` (Item C.6) contains **Repurchase Agreement**, aggregate the `<repurchaseAgreement:valueOfCollateralToTheNearestCent>` (Item C.8.g) of items with the matching `<otherUniqueId>`, then divide by `<scheduleOfPortfolioSecuritiesInfo:totalValueOfFundPosition>` (Item C.18). If all results are greater than or equal to **1.020000**, then **Yes**, else **No**.

### Additional Information

The N-MFP Review Report highlights current and prior period values. When generating the report for the initial month, no prior live filing exists. 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.

### Process Changes

The `<otherUniqueId>` element has a 20 character limit, according to the SEC schema; this is unchanged from ArcFiling version 2.3.0. In version 2.3.0, ArcFiling auto-truncated the *Custom Identifier* value that fed into the `<otherUniqueId>` field to pass the SEC schema. In version 2.4.0, the auto-truncation feature was turned off, such that clients must now make necessary updates to their *Custom Identifier* field value so it conforms to the rule. In version 2.4.0, when the client submits for internal pre-validation and the *Custom Identifier* value mapped to `<otherUniqueId>` exceeds 20 characters, the user will receive an error message. To successfully file with the SEC, the client must make necessary adjustments in their respective libraries.



## 4. SEC and ICI submission updates to support Form N-MFP money market reform

*RRD IDs: 96155, 96157, 96158, 96493*

### Overview

A new XML message was constructed to meet the new SEC Form N-MFP filing requirements.

### What's New

1. ArcFiling now allows users to create filings for the new Form N-MFP1 and N-MFP1/A XML formats. These files were constructed per specifications published by the SEC.
2. Electronic filing with the SEC was improved and is now handled completely from ArcFiling.
3. The following updates were made to the **Filing Manager** page:
  - a. The existing **Filing Type** drop-down list selection *N-MFP* was updated to *N-MFP1*.

**Note:**

When this selection is specified, filings of both type *N-MFP1* and type *N-MFP1/A* will display in the grid of the **Funds** tab.

- b. A **Filing Mode** label was added to the page, which reflects the value specified for the new **NMFPFilingMode** system setting (set for the environment by administrators via the **System** page). Valid options for the setting are the following:

- i. *SEC - Test*

- A. When this mode is specified a submitted filing will be sent to the SEC as a *Test* submission type (the *Live* option for **Submission Type** will be disabled on the **Submit Filing** dialogue).

**Note:**

Upon database update to version 2.4.0, all ArcFiling environments will have *SEC - Test* mode enabled.

ii. *SEC - Live*

- A. When this mode is specified a submitted filing will be sent to the SEC, either as a *Test* or *Live* submission type, as specified by the user.
- c. Due to a change in how revisions are created on the **Project** page (they are now auto-incremented), the *Revision* drop-down list on the **Filing Manager** page will now only include revisions that contain *N-MFP (XML)* output; revisions that represent output of type *Word, Excel, PDF*, etc. will not display in the drop-down list.

**Note:**

This change in drop-down list behavior may result in what seem to be "missing" revision numbers on the **Filing Manager** page, but will eliminate the possibility of a user selecting a revision that does not contain N-MFP1 XML. This will also help users determine which revision was the latest one created for Form N-MFP1.

- 4. Existing ICI submission functionality remains unchanged. The ICI has requested that Form N-MFP1 be sent to them directly, even though the filings will immediately become public; therefore ArcFiling continues to support submitting directly to the ICI.

## Process Changes

No changes to current processes are required.



[Demonstration video](#)

## 5. Increased maximum "Rows Per Page" value for Fund Holdings page

RRD ID: 109582

### Overview

In previous versions of FundSuiteArc, users could not display more than 1,000 rows per page in the grid on the **Holdings** tab of the **Fund Holdings** page. Consequently, it was not always possible to view or export the complete set of holdings for particularly large funds.

### What's New

Users can now specify a maximum of 10,000 rows in the **Rows Per Page** spinner control at lower-left of the **Holdings** tab on the **Fund Holdings** page. This allows users to return a complete set of holdings for large funds to the **Fund Holdings** page, if needed.

#### Note:

The amount of data requested (*i.e.*, rows per page and number of columns) will impact the amount of time the grid will take to update and display the data. Therefore, the **Rows Per Page** spinner is set to 25 by default, which allows for consistent performance when opening the **Fund Holdings** page.

The following behaviors/functionality on the **Holdings** tab of the page remain unchanged:

1. When the tab is clicked/opened the first time, the default value of the **Rows Per Page** spinner is 25.
2. The minimum possible value of the **Rows Per Page** spinner is 25 (any value less than 25 is not allowed).
3. When the user clicks either the **Increase value** or **Decrease value** buttons of the **Rows Per Page** spinner control, the spinner value is incremented/decremented by 25 (*e.g.*, when incrementing the value changes from 25 to 50, to 75, to 100, etc.).

### Process Changes

No changes to current processes are required.



## Closed Defects

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

Product	RRD ID	Module/Location	Description
ArcFiling/ ArcReporting	26840	Fund Holdings	Corrected a defect that caused duplicate securities to display on the <b>Holdings</b> tab of the <b>Fund Holdings</b> page following a push-button (Excel) data import, if the affected securities had previously been manually added to the fund.
ArcFiling/ ArcReporting	66208 (IM15- 050212)	Securities Audit Report	Fixes were implemented to ensure that user-defined filtering settings within the Securities Audit Report are reflected in report output.
ArcFiling/ ArcReporting	83604 (IM14- 348932)	Project Output	XML generation was modified to ensure that existing hyperlinks and any newly-added hyperlinks are properly tagged and display as expected.
ArcFiling/ ArcReporting	90173 (IM15- 267998)	Project	Spanned cells of portfolio statements that did not previously display correctly in statement preview via the <b>Project</b> page were updated to display as expected.
ArcFiling/ ArcReporting	90802 (IM15- 414154)	Securities Audit Report	Fixed defects that caused fund and category exceptions to be excluded from the report.



# Closed Defects - SP1

The following issues were addressed in the 2.4.0 Service Pack 1 release of FundSuiteArc products.

Product	RRD ID	Module/Location	Description
ArcFiling	109948	Category Libraries	Fixed a defect that caused the text string <i>(NMFP Holdings)</i> , <i>(NMFP Repo Collateral)</i> or <i>(NMFP Holdings/Repo Collateral)</i> to be appended to the expected SEC <b>Category Caption</b> value when creating a new category library, which resulted in transmitted (filed) XML failing schema validation.



**RR DONNELLEY**

Corporate Headquarters  
35 West Wacker Drive  
Chicago, Illinois 60601  
U.S.A

800.424.9001

[www.rrdonnelley.com](http://www.rrdonnelley.com)

[www.financial.rrd.com](http://www.financial.rrd.com)

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