Release Notes
Axiom Software
Version 2018.3

KaufmanHall
axiom software

Contents

Introduction

Kaufman Hall is pleased to announce the release of **Axiom Software Version 2018.3**. This release features continued updates to the Web Client user experience, as well as various enhancements to Axiom forms, Axiom queries, and more.

Enhancements in this release include:

- Continued updates to the Web Client user interface, including:
  - New default home page to provide an easy and useful option for customers without a custom browser-based home page
  - New Quick Launch menu for easy access to install and launch Axiom Software applications
  - New Area menu to switch between various areas of Axiom Software, including the new System Administration area
  - Updated Navigation panel supports icons and additional navigation options, such as linking to the Report Builder
  - Save and manage favorites in the Web Client, to provide easy access to commonly used files and pages
- Various enhancements to Axiom forms, including:
  - Ability to control data saves in an Axiom form, so that only one user at a time can reserve the ability to save data
  - Display charts in the Formatted Grid component using the Chart content tag
  - Select months or years from the Date Picker component instead of a full date
  - New button behavior to upload a data file and then import the data to the database
  - Enhanced display options for KPI Panel components, to dynamically control the width of the KPI boxes in relation to the panel
- Enhancements to advanced Axiom query behavior, including improved default aggregation of numeric columns on reference tables, expanded alternate aggregation options, and the ability to use columns with special syntax in Axiom query settings

Version 2018.3 was originally released on September 24, 2018.

> **IMPORTANT:** Although Kaufman Hall strives to maintain backward-compatibility with each release, any upgrade has the potential to interrupt system functionality. The Upgrade Considerations section details known impacts to existing functionality. However, other impacts may be unforeseen at the time of release, or may be particular to your specific system design and configuration. We strongly recommend performing the upgrade first on a test server and then testing system functionality to make sure all critical features are still working as expected.

Overview of new features and enhancements

This section provides an executive summary of the features and enhancements in this release. For more information, please see the separate *What's New* document for 2018.3.

▶ Updates to the Web Client user interface

In this release, we continue to update and enhance the Web Client user experience to support current and future browser-based solutions. As part of these changes, the former Launch page has been removed, meaning that the links to install the Desktop Client and other features are now present in different locations. For more details, please see the upgrade considerations and the detailed discussion in the separate *What's New* document. The release overview video—available on the Kaufman Hall Software Support site and in the Axiom Software Help files—also contains a walkthrough of these changes.

Updates to the Web Client include:

- New Quick Launch menu to install and launch Axiom Software applications from any location in the Web Client
- New Area menu to switch between different areas of Axiom Software, such as to switch between different web products or to use the new System Administration area

- New System Administration area provides quick access to all browser-based administration features, including a new admin dashboard

- New default home page provides an easy and useful option for customers who do not have a custom browser-based home page

- Users can now save favorites in the Web Client and easily access their web favorites

- Updated Navigation panel now supports icons and additional navigation options, such as to the Report Builder

▶ Axiom forms enhancements

- You can now enforce "save locking" for Axiom forms, meaning that only one user at a time can save data from a particular Axiom form. This is intended for use in form-enabled plan files and any other forms where you do not want multiple users to be able to save data from the form concurrently.

- Charts can now be rendered within Formatted Grid components, using the new Chart content tag. Using this feature, you can display charts next to relevant information in the grid, and align the charts within the grid.

- The Date Picker component can now be used to select months and years in addition to specific dates.

- You can now configure a button in an Axiom form to allow users to upload a data file and then import that data into the Axiom database (using a preconfigured import utility).

- The KPI Panel component now supports various width options for the KPI boxes, including: defining a fixed size, dynamically sizing the boxes to fit the panel width, or dynamically sizing the boxes based on a specified number of boxes per row.

▶ Axiom query enhancements

- The default aggregation behavior for numeric columns on reference tables has been enhanced to honor the column classification for the column (Value or Dimension). Additionally, if the column is summed, it is now always summed based on the records returned from the reference table (instead of records returned from the primary table). These changes are intended to return the most useful and accurate result for numeric columns on reference tables. For more information, see the upgrade considerations and the discussion in the separate *What's New* document.

- The ability to use alternate aggregations for a column in an Axiom query has been enhanced so that you can now precisely specify whether certain aggregations should be calculated based on the primary table or based on the lookup reference table. Additionally, all restrictions on combining alternate aggregations and column filters have been removed.

- You can now define a name for field definition entries that use column filters or alternate aggregations, so that the filtered or aggregated version of the column can be used in Axiom query settings such as the query sort.

Upgrade considerations

Please review the considerations in this section before upgrading to version 2018.3. If you have any questions or if you need assistance with upgrading, please contact Kaufman Hall Software Support.

> **IMPORTANT:** This document details the upgrade considerations when moving from the most recent Axiom Software release of 2018.2 to the new release of 2018.3. If you are upgrading from an earlier version, please also see the release notes for the interim versions for any additional upgrade considerations.

Backward-compatibility considerations

The following backward-compatibility considerations apply when upgrading to version 2018.3.

▶ Change to default aggregation behavior for numeric lookup columns

Numeric columns on reference tables are now aggregated the same way regardless of whether the primary table of the data query is a reference table or a data table. This mainly affects Axiom queries, but the change also applies to the Data Grid component and GetData (functions and data lookups).

> **NOTE:** This is a continuation of the aggregation change that was first introduced in version 2018.1, and then disabled until further refinements could be made. The aggregation changes are now finalized and enabled by default upon upgrade to version 2018.3.

Aggregation refers to how the data query treats multiple values from a column, to result in a single value for each row returned by the query. For example, the query may return the sum of the values, or return the maximum value. Data queries use default aggregation behavior to present the data in the most useful way—for example, to sum data columns and return the maximum value for dimension columns. The default aggregation behavior for a column can be overridden in data queries as needed.

This change impacts non-key, non-validated columns on reference tables, where the column data type is Integer (all types) or Numeric (including the deprecated Decimal type). In previous versions, these columns were aggregated in data queries as follows:

- If the primary table of the query was a reference table, the column was summed.
- If the primary table of the query was a data table, the maximum value was returned.

Going forward, the aggregation behavior for these columns will be determined based on the column classification, regardless of whether the primary table is a reference table or a data table:

- If the column classification is **Value**, the column is summed.
- If the column classification is **Dimension**, the maximum value is returned.

Additionally, if the column is summed, it is always summed based on the records returned from the reference table (instead of based on the records returned from the primary table). This prevents reference table values from getting artificially inflated due to the reference key being present multiple times in the primary table.

The default classification for non-key, non-validated Integer columns in reference tables is Dimension. The default classification for Numeric columns is always Value. In the majority of cases, this default classification will result in the desired aggregation behavior. If a particular column should be aggregated differently, you can change the classification to either Value or Dimension instead of using the default behavior. And if you need a column to aggregate differently in a particular context, you can always override the default aggregation behavior using optional features such as AxAggregate for Axiom queries.

Non-key, non-validated Integer and Numeric columns in data tables now also honor the column classification to determine the aggregation behavior, but in this case you should not notice any change in behavior from previous versions. The default classification for these columns in data tables is Value, which means the columns are summed by default, which is the same behavior as in previous versions. You would only notice a difference in behavior if you had previously changed the column classification to Dimension, in which case the new behavior would be the correct and expected behavior for that column.

When you upgrade to version 2018.3, the default value of the system configuration setting **UseLegacyColumnAggregation** is changed to **False**, which means that the aggregation changes will be enabled by default. The only exception would be a system where UseLegacyColumnAggregation was explicitly set to True instead of using the default value. This should be a rare or non-existent occurrence.

Testing and Review Notes

For Numeric columns on reference tables, you will see a behavior change if the primary table of the query is a data table. In previous versions, the maximum value was returned, and now the sum is returned. If this change is not desired for a particular column, you can change the column classification to **Dimension** so that the maximum value is returned. To change a column classification, use the **Columns** tab of the **Edit Table** dialog.
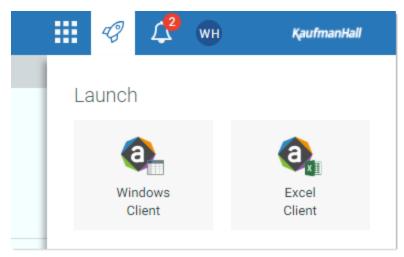
For Integer columns on reference tables, the impact of this change on existing customers should be minimal, because most data queries use a data table as the primary table (which means the behavior is unchanged). Even in the case where the primary table is a reference table, customers would only notice a difference if a non-key, non-validated Integer column was included in the query, and the sum by was set at a level that caused the values to be aggregated. In previous versions the column would have been summed by default, and now it will return the maximum value by default. This is the desired behavior if the Integer column contains dimension or grouping codes, but may not be the desired behavior if the Integer column contains metrics or other data values. If you need the Integer column to sum, you can change the column classification to **Value**.

Before upgrade, we recommend that you review any reference tables that you know are used frequently in reporting. Check all non-key, non-validated Integer columns and Numeric columns to see what type of data they hold. If the column holds data that should be summed, the classification should be Value. If the column holds data that should not be summed, the classification should be Dimension.

▶ Removal of Web Client launch page
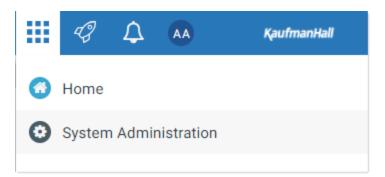
The Web Client Launch page has been removed as part of the larger redesign of the Web Client user interface. The items that used to be present on this page have been moved as follows:

- **Launch client applications and add-ins**: These links have been moved to the new Quick Launch menu that is easily accessible from the blue Global Navigation Bar across the top of the Web Client pages. Click the rocket icon to open the Quick Launch menu.

The Excel Client and Windows Client can also be launched from the Quick Links area in the new default home page (as mentioned later in this section).

- **Launch system administration features**: The administration feature links—such as Table Manager, Audit Manager, and Application Server Administration—have been moved to a new System Administration area. This area is accessible from the blue Global Navigation Bar across the top of the Web Client pages. Click the menu icon to open the Area menu, then click System Administration.

Once you have entered the System Administration area, the administration features are accessible using the Navigation panel.

Some users who used to be able to access these features from the former Launch page do not have access to the new System Administration menu. For more information, see Removal of Web Client navigation for certain users.

- **Launch end user features**: The feature links for Forms Explorer and the Report Builder have been moved to the updated default Navigation panel. Action is required if you want access to the new links. For more information, see Updated content for Web Client Navigation panel.

  The feature link to Data Explorer has been removed without a replacement. For more information, see Removal of Web Client navigation for certain users.

- **System information**: The system information that used to display on the right-hand side of the Launch page is now available in the redesigned About box for the Web Client. The About box is accessible from the Area menu described previously, at the bottom of the menu. The installed version is also displayed on the admin dashboard that displays when you enter the System Administration area.

The Launch page also used to serve as the default home page for any users who did not have access to a custom, browser-based home page (an Axiom form or web report). A new default home page is now used for these users. This default home page displays the user's notifications, web favorites, and quick links.

For more information on all of these changes, see the section on the *Web Client User Interface* in the separate *What's New* document.

Testing and Review Notes

This item is for your information only, to provide a general heads-up about the reorganization of the Web Client user interface.

▶ Updated content for Web Client Navigation panel

We have updated the task pane that provides the default set of links for the Web Client Navigation panel. This file can be found at the following location: `\Axiom\Axiom System\Forms Runtime\Platform.WebClientNavigationPane.AXL`.

The task pane has been updated to provide links to the Report Builder and the Forms Explorer. These links are intended to replace the links that used to be present on the Web Client Launch page, which has been removed (see previous section). Additionally, the updated task pane uses icons, which is a new enhancement in this release.

The `Platform.WebClientNavigationPane.AXL` file is not directly used by the software. The Navigation panel is actually populated by the `WebClientNavigationPane.AXL` file that is located in the same folder. The files are maintained separately so that customers can customize their Navigation panel if desired. If you want to use the updated set of links, you must overwrite your existing version of `WebClientNavigationPane.AXL` by copying and renaming `Platform.WebClientNavigationPane.AXL` (or by updating your customized version).

Testing and Review Notes

If you have not customized your `WebClientNavigationPane.AXL` file, then you should replace this file with the updated `Platform.WebClientNavigationPane.AXL` file. To do this:

- Delete `WebClientNavigationPane.AXL`.
- Copy `Platform.WebClientNavigationPane.AXL` and rename the copy to be `WebClientNavigationPane.AXL`.

The Navigation panel in your system will now use the updated default contents.

If you have customized your `WebClientNavigationPane.AXL` file, then at minimum you should add an item for the Report Builder. You can review the `Platform.WebClientNavigationPane.AXL` file to see how to set this up. You may also want to add icons to your navigation items. Depending on how extensive your customizations are, you may find it easier to continue to customize your existing file, or to copy `Platform.WebClientNavigationPane.AXL` and then re-make certain customizations in the new `WebClientNavigationPane.AXL` file.

You can also choose to do nothing, but this means your users will not have built-in navigation to either the Report Builder or the Forms Explorer page within the Web Client. This may be acceptable for your implementation. You can always choose to update your Navigation panel at a later time.

Only administrators can access these files and make the necessary changes. Note that no action is necessary if your system uses installed and upgradeable products. In this case, your files will be updated automatically as part of the product package installation.

▶ Removal of Web Client navigation for certain users

As part of the Web Client user interface changes, some areas that used to be accessible from the old Launch page are no longer easily accessible to some users. Although the main target audience can still access these areas using the new menus and navigation, certain fringe cases no longer have direct access. These changes are summarized in the following list.

In all cases, users can still access these areas by going directly to the relevant URLs. We have not introduced any new access restrictions to the affected areas. The user interface changes only affect which users see these areas on built-in menus and other navigation.

- **Data Explorer**: The Data Explorer has been de-emphasized in favor of the Report Builder. The Web Client no longer provides built-in navigation to this area. The Data Explorer can still be reached at the following URL: *<PathtoAxiom>*/DataExplorer

  Users can still access the Data Explorer from the Desktop Client by opening a saved Data Explorer file in the Reports Library, or by creating a new Data Explorer from the Reports menu.

- **Table Manager**: Users who do not have access to the new System Administration menu item in the Web Client no longer have built-in navigation to the Table Manager. The System Administration menu item is only available to administrators and to users with the following permissions: Administer Tables, Administer Picklists, Administer Software Updates, Administer Locked Items, Browse Audit Log, and subsystem administrators. This means that the change may affect the following users (if they do not also have one of the previously mentioned permissions):

  - Users with access to the Data Diagrams Library. These users can no longer navigate to the Table Manager to open data diagrams. They can still open existing data diagrams from the Desktop Client, which will open the diagrams in the Web Client. Once they are there, users can also create new diagrams if they have the appropriate permissions. However, currently there is no way to create a new data diagram from the Desktop Client.

  - Users with **Allow changing table structure** for a specific table. These users can no longer navigate to the Table Manager to edit a picklist or KPI table where they have this permission. They can still perform edit activities on the table in the Desktop Client.

  - Users with read/write access to picklist tables. These users can no longer navigate to the Table Manager to populate a picklist table where they have this permission. They can still save values to the table using any other save-to-database features.

  The Table Manager can still be reached at the following URL: *<PathtoAxiom>*/TableManager

For more information, see the section on the *Web Client User Interface* in the separate *What's New* document.

Testing and Review Notes

In most cases, there is nothing to test or review for this item. If you happen to have users that fall into one of these categories, and you want them to continue to use the Web Client for these activities, you can:

- Instruct the affected users to set browser bookmarks for the specific URLs.

  AND / OR

- Create a form that links to the necessary URLs and provide the form to the affected users.

Please contact us if you have any concerns about these changes.

▶ Removal of Navigation - Admin command

The **Navigation - Admin** command has been removed. This command was only for use in Web navigation task panes, to provide a link to the administration page in the Web Client.

This command was removed due to the reorganization of the administration area in the Web Client. There is now a dedicated System Administration menu item in the new Area menu to provide access to administration features. This new menu item is available to any user with permission to access at least one of the administration features in the area.

Testing and Review Notes

In most cases, there is nothing to test or review for this item. The command will be removed automatically when you upgrade your `WebClientNavigationPane.AXL` file as discussed in Updated content for Web Client Navigation panel.

If instead you modify your existing `WebClientNavigationPane.AXL` file, then the command may be present and will show in the task pane editor as an invalid command. You can remove the command as part of making your other updates. However, if the command is not removed, it will not cause an error in the Web Client—the invalid item simply will not display in the Navigation panel.

▶ Message Stream now disabled by default

When creating a new Axiom file, such as a report, the Message Stream is now disabled by default. If you want to use the Message Stream with the new file, you must enable it on the Control Sheet. This is a change from previous versions, where the Message Stream was enabled by default.

Testing and Review Notes

This item is for your information only, so that you are aware of the change in behavior for newly created files. If your organization uses the Message Stream regularly, you will now need to manually enable the feature for new files. Existing files are unaffected and will remain either enabled or disabled, as configured in the file.

Potential impacts on end users

This section summarizes the potential impacts to your end users when upgrading to version 2018.3. This list is provided to help you understand changes that you may need to communicate to end users. You may also need to update your internal documentation.

- The way in which end users launch the Excel Client or Windows Client from the Web Client has changed. The former Launch page has been removed. Instead, end users can launch the Excel Client or Windows Client using the new Quick Launch menu, or using the Quick Links section of the default home page. For more information, see Removal of Web Client launch page.

- The way in which end users access the Report Builder or Forms Explorer in the Web Client has changed. Due to the removal of the Launch page, these features are now accessed from the Navigation panel. For more information, see Removal of Web Client launch page and Updated content for Web Client Navigation panel.

> **NOTE:** "End users" refers to users who work with plan files and reports that have been built for them. These users do not perform any file setup activities or administration activities. It is assumed that Master System Users will fully review the release documents to understand changes that may affect them and other power users.

Installation and technical notes

▶ Database requirements for upgrade

As noted for previous releases, upgrading to 2018.x requires the Axiom Software database to be at any 2017.x version. If you are upgrading from 2016.4 or earlier, you must first upgrade the database to any 2017.x version before you can proceed with the 2018.3 upgrade. See the *Installation Guide* for more information. This note primarily applies to on-premise installations. If you have a Cloud Service system, Kaufman Hall Software Support will take care of the necessary updates when upgrading your system.

▶ Updates to Cloud Integration Service

The Cloud Integration Service has been updated so that it is now more tolerant of changes to the system configuration settings. Future changes to the system configuration settings should not require you to upgrade the Cloud Integration Service unless the change is directly related to the operation of the service. Any customers who have been experiencing communication errors with the Cloud Integration Service should upgrade the service as part of upgrading to version 2018.3. For all other customers, although it is not required to upgrade the service at this time, it is recommended in order to update your system to the latest, most resilient version of the service.

▶ Microsoft Word and PowerPoint 2010 support

Microsoft Word and PowerPoint 2010 are no longer officially supported for use with the Axiom Software add-in. Microsoft Office 2010 is an older version that is no longer commonly used by our customer base, and mainstream support is no longer provided by Microsoft.

Fixed issues

The following issues were fixed in version 2018.3.

Issue	Description	
18707	Issue:	In some cases, the Filter box for Process Plan Files reports valid multiple-level filters as invalid.
	Status:	This error should no longer occur.
20554	Issue:	An error occurs when an Axiom query to an audit table includes a column with a lookup to the key column of the same table (a self-referencing lookup).
	Status:	This error should no longer occur.
21895	Issue:	When using Edit Grid in Spreadsheet, if you copy/paste a row of numbers using keyboard shortcuts, the numbers paste as a concatenated string in the target cell.
	Status:	This is an issue with older versions of Microsoft Edge. This issue has been fixed in newer versions.
23306	Issue:	If a Menu component does not have a specified selected ID, the form fails to render with a "sequence contains more than one matching element" error.
	Status:	The Menu component now uses the first menu item in the data source when there is no selected ID.
23993	Issue:	Users with Administer Security permissions can use the System Access feature to lock everyone but administrators out of the system, but then cannot log in to change the access back.
	Status:	The System Access feature is now restricted to full administrators.
24981	Issue:	In formatted grids, the wrap-text style doesn't work when the row height is set using the [RowHeight] tag.
	Status:	The wrap-text style now works as expected with the [RowHeight] tag.
25465	Issue:	Hyperlinks created using the **Copy shortcut to clipboard** option sometimes do not work.
	Status:	These hyperlinks now work without error.
25515	Issue:	In a plan file process, if a role assignment is configured to skip the step when no valid users are found, an error occurs if the role has no users at all.
	Status:	This configuration now causes the plan file to skip the step as expected.

Issue	Description	
25670	Issue:	Swedish regional number formats don't display correctly when using drill-through in the Windows Client.
	Status:	Swedish regional number formats should now display correctly when using this feature.
27597	Issue:	When using an [IconConfig] data source for hover actions in a data grid, if the action is used to launch a URL, the action fails with an error if the URL starts with HTTPS.
	Status:	Hover actions can now successfully launch URLs starting with HTTPS.
28443	Issue:	Some documents cannot be selected using the Document filter in the Audit Manager.
	Status:	All documents that the user has rights to view should now be selectable.

Appendix: Version 2018.3 Patches

This section details the fixes and enhancements in patch releases for Version 2018.3. For assistance with any patch, please contact Kaufman Hall Software Support at 888-543-6833 or support@kaufmanhall.com.

Current patch: 2018.3.36

This patch contains security updates.

Previous 2018.3 patches

Axiom Software patches are cumulative. All fixes and enhancements included in prior patches are included in the current patch.

Patch 2018.3.35

The following issues were fixed in this patch:

- 34931: Time-stamped Axiom queries may not process as expected after table data is updated.

Patch 2018.3.34

This patch contains security updates.

Patch 2018.3.33

This release includes an updated publisher certificate for Axiom Software, to replace the previous certificate that expires in February 2019. Note the following:

- If your organization has configured Microsoft Excel to require add-ins to be signed by a trusted publisher, then you must install the new certificate on client machines in order to run the Axiom Excel Client. Kaufman Hall Software Support can provide this certificate to clients on request.

- When installing this client update, some users may encounter the Windows SmartScreen prompt due to an unknown publisher. If this occurs, adding your Axiom Software application server URL as a trusted site should eliminate this prompt.

Patch 2018.3.32

The following issues were fixed in this patch:

- 31213: In Excel, when GetData functions are populated via an Axiom query, the functions may return #ERR even though they are valid.

Patch 2018.3.31

The following issues were fixed in this patch:

- 30902: Axiom forms fail to load within the Desktop Client after installing Windows Update 1809.

Patch 2018.3.30

The following issues were fixed in this patch:

- 30494: An Axiom query may fail with an error if it has a data range filter that uses a fully qualified version of the sum by column, but the sum by setting uses just the column name.
- 30536: In some cases, the function GetWorkflowInfo("FileOwner") may erroneously report "multiple active users" instead of the sole owner name.
- 30637: When querying the Axiom.ProcessEvents table, the event date is returned in UTC time instead of local time.
- 30649: If an Axiom query contains columns from two or more data tables that use data conversions, only the primary table is converted.

Patch 2018.3.29

The following issues were fixed in this patch:

- 29944: Data range filters for Axiom queries may not return expected results if the filter is a compound filter.
- 30069: The Index Maintenance system job can be very slow in certain environments.
- 30278: An error may occur when using Quick Filter if a hierarchy has a defined filter.
- 30281: The GetWorkflowInfo("FileOwner") function returns an error when the file owner is determined using a table column.

Patch 2018.3.28

The following issues were fixed in this patch:

- 29605: When using the All Tasks view on the Process Directory page of the Web Client, columns that show numeric data may be incorrect if multiple users are assigned to the plan file.
- 29823: If a data range filter uses a fully qualified column reference but the corresponding column in the field definition is not fully qualified, the columns may not be identified as matching and result in an error message stating that "Enable full AQ query validation mode" should be enabled.
- 29921: Reference tables with circular lookups are omitted from the Quick Filter dialog.

This patch also includes updated Swedish translations for the software.

Patch 2018.3.27

The following issues were fixed in this patch:

- 14573: Sometimes GetRowNumber doesn't update as expected on double-click in the Windows Client, causing errors for the double-click action.

- 29218: Stopping an active process in process management can time out.
- 29329: Loading Axiom Software can fail in systems that have many tables.

This patch release also adds the ability to optionally batch Axiom queries for execution, so that the queries in the batch can be executed concurrently instead of sequentially. A new setting is available for Axiom queries on the Control Sheet, named **Batch Number** (for existing files, you must upgrade the Control Sheet to gain access to this setting). If a number is entered into this field, then when this sheet is processed, all queries on the sheet with the same batch number will be executed concurrently. Once the batches are finished, the rest of the queries on this sheet are processed as normal—meaning in sequential order by query number. Using batch processing to execute certain queries concurrently may improve performance for files with many independent Axiom queries.

Patch 2018.3.26

The following issues were fixed in this patch:
- 29210: The Report Builder does not allow a reference table to be included in a Data Grid component when the primary table has multiple lookup paths to the reference table.
- 29212: Clustered column store indexes are not being created in Cloud Service systems.

Patch 2018.3.25

The following issues were fixed in this patch:
- 20901: An error occurs if the filter for Process Plan Files references the Show on List column.
- 29098: The Choose Value dialog generated by the GetDataElement function is sorted incorrectly.
- 29136: The Process Routing page displays an unformatted error instead of a nicely formatted message when the target plan file is not active in the process.
- 29159: Restoring a plan file using a restore point may overwrite other documents in addition to the restored document.

Patch 2018.3.24

Fixes were made to an internal tool. No customer-facing fixes were included in this patch.

Patch 2018.3.23

This patch contains security updates.

Patch 2018.3.22

The following issues were fixed in this patch:
- 28687: KPI width is not rendered correctly in web reports.
- 28688: The Drill dialog for forms and web reports does not work when the drill options include multiple hierarchies.
- 28690: Upgrading to 2018.3 requires the database to be at 2018.x, instead of 2017.x as expected.

- 28832: Attempting to use Export to Excel on a Data Grid component with Show Hierarchical Data fails with an error about an invalid column.
- 28845: Running the Active Directory Import task may fail on Cloud Service systems.

This patch also includes general security updates.