



Release Notes  
Axiom Decision Support  
Version 2019.2.2

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# Contents

- Summary ..... 4
- Product upgrade notes ..... 5
- New features summary ..... 6
  - Axiom Intelligence Reporting - Web Tutorials ..... 6
  - Create custom grouping columns for dimensions ..... 7
  - New reporting columns added to dimensions ..... 7
  - Axiom Intelligence Reporting ..... 8
  - Axiom Intelligence Security .....12
- Issues resolved in 2019.2 ..... 14
  - Issues resolved in 2019.2.1 ..... 15
  - Issues resolved in 2019.2.2 ..... 16
- Manual setup instructions ..... 17
- Known issues ..... 18

# Summary

Kaufman Hall is pleased to announce the 2019.2.2 release of Axiom Decision Support. Each product release provides new features, enhancements, and configuration options to meet your needs. Many of these features and enhancements are a direct result of your feedback and suggestions.

Summary of the upgrade process:

1. **Review product release notes** – Review this document to familiarize yourself with the new features and functionality.
2. **Schedule an installation date** – Contact [support@kaufmanhall.com](mailto:support@kaufmanhall.com) or your implementation consultant, and they will confirm an installation period with you.
3. **Back up Axiom database** – Kaufman Hall will confirm that you have a current backup of your Axiom database before applying the upgrade.
4. **Apply upgrade** – Arrange with your IT staff on an agreeable time for scheduled downtime to apply the program and product upgrade. This includes any post-upgrade hot-fix files that need to be copied into the system to address any post-release known issues that have been resolved.
5. **Complete manual updates** – After installing the upgrade, if needed, review any manual setup steps needed to enable features for this version.

## Support

As always, we appreciate your support of Kaufman Hall and look forward to continuing to meet your financial management needs. If you have any questions about your upgrade, contact Kaufman Hall Software Support at 1-888-543-6833 or [support@kaufmanhall.com](mailto:support@kaufmanhall.com).

## Training

Kaufman Hall offers multiple training options for our customers. These courses are part of your maintenance agreement and are free of charge. We strongly urge you to take advantage of all training options, including:

- Self-help videos
- Recorded webinars
- Virtual training courses

# Product upgrade notes

**IMPORTANT:** You must apply the Axiom Software 2019.2 upgrade before applying any 2019.2 Axiom product upgrades. Axiom Software upgrades are backwards compatible so you can upgrade different products at different times, but you must upgrade to the Axiom Software 2019.2 *before* the first product upgrade. Refer to the **Axiom Software 2019.2 Release Notes** and **Axiom Healthcare Suite 2019.2 Release Notes** for considerations before upgrading. Apply this update **ONLY** if you have already applied the 2018.3 release and completed all the manual setup steps from the corresponding release notes.

When upgrading to the 2019.2.2 version of Axiom Decision Support, keep in mind the following:

- This product upgrade contains new tables, columns, updated templates, reports, scripts/imports and remediated defects.
- KHA delivered reports may be replaced. Any report that you saved under a different name or created new will remain untouched. Replaced reports are available in Document History, if needed.
- Any KHA delivered report that you moved to a new location since the last upgrade will automatically move back to its original location.
- KHA product templates and calculation method libraries will be replaced.
- Product task panes will be replaced.
- Process definitions will not be replaced.
- Security roles and sub-systems will be reset to their configured settings. All user security exceptions you may have made will remain intact.
- Specific items configured as part of your company or organization's implementation such as imports, exports, driver files, and process management files, will remain as is. Any required modifications to these areas are covered in the release notes, if required.

# New features summary

This section includes a description for each new feature included in this release.

## Axiom Intelligence Reporting - Web Tutorials

In 2019.1, Kaufman Hall introduced Axiom Intelligence to provide our clients with industry-leading, advanced reporting and dashboard authoring tools as part of Axiom Decision Support. In the future, Kaufman Hall will leverage these tools to deliver new content in upcoming releases. In this release, the focus was on providing training in the form of example reports and corresponding on-demand web tutorials. This six-lesson series is designed to meet specific learning objectives.

Each lesson and the corresponding report are described below. We recommend that you use the Save As feature to create a copy of each report. This preserves the provided example reports for future reference.

You can access these tutorials and their corresponding PowerPoint documents from the Tutorial Videos page in the online help.

- **Lesson 1 - The Basics and the Navigation Bar**

This lesson provides an overview of the general navigation features, including task panes, report filters, and available visualization components. This lesson uses Example Report #1 – Insurance Plan Inpatient Analysis to introduce how you can interact with report slicers and different visual components.

- **Lesson 2: Drilling Into Data**

This lesson reviews the interactive report filtering and drilling capabilities of Axiom Intelligence. The lesson uses Example Report #2 – Patient Type Analysis to highlight the set up of a data grid and drill paths can be defines for users, including the fields used for summarization and their sequence.

- **Lesson 3: Creating a Tooltip**

This lesson introduces the tooltip feature, which you can tailor by component, and allows you to provide additional and related information for a specific data point. To illustrate this feature, this lesson uses Example Report #3 – MDC Inpatient Margin Analysis.

- **Lesson 4: Using Bookmarks**

This lesson covers using bookmarks. This useful feature allows you to save the filters and drills applied to a given report. This lesson uses Example Report #4 - Major Diagnostic Category Inpatient Analysis to walk through using bookmarks, including how to tag and name a bookmark reference.

- **Lesson 5: Applying Filter and Using Slicers**

The power of Axiom Intelligence is the ease by which a User can interact with data filters and drilling features to support root cause analysis. This lesson will use Example Report #5 - Inpatient Admitting Provider Utilization Analysis illustrate how to configure and use slicers.

- **Lesson 6: Syncing the Model and Security**

This lesson focuses on two aspects of system setup and administration, including the simple process of syncing the data model that is utilized by Axiom Intelligence, as well as the administrative features and considerations related to security for Axiom Intelligence.

## Create custom grouping columns for dimensions

Some dimension tables now allow you to add additional custom columns. These "grouping" columns allow you to customize the data you want to query into reports. You can add up to five grouping columns to the following dimensions:

- Accounts
- Age
- Cost Categories
- CPT Codes
- Departments
- Revenue Codes

### Configure Variable Columns

You can enable up to 5 grouping columns and optionally give a preferred column name. You can query data into reports by the column name or preferred name.

Save

Table	Column	Enabled	Preferred Name
			<small>- Name must start with a letter and can only contain A-Z, 0-9, or _ - No spaces. Max length 200</small>
ACCT	Group1	<input checked="" type="checkbox"/>	Group1 Preferred Name ✓
ACCT	Group2	<input type="checkbox"/>	
Age	Group1	<input type="checkbox"/>	

For instructions, see "Creating or modifying custom columns in dimensions" in the online help.

## New reporting columns added to dimensions

New columns have been added to the following dimension to enhance the reporting capabilities of Axiom Decision Support:

### APRDRG dimension

- **ServiceLine** - A grouping column by service line.

**NOTE:** This column is not a validated lookup.

- **EffectiveFromDate** - The date the APRDRG was put into effect.
- **EffectiveThruDate** - The date after which the APRDRG is no longer in effect.

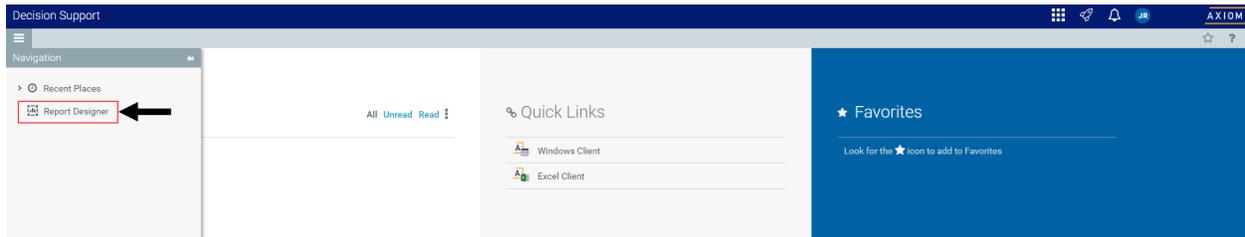
CPT, ICDDIAG, ICDPROC, and MDC dimensions

- **ReportDescription** - A concatenation of the ID and Description columns

To view the descriptions for each of the dimensions listed above, see "Dimension Tables" in the online help.

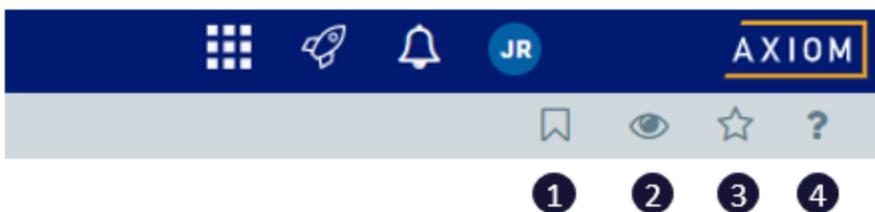
## Axiom Intelligence Reporting

This new browser-based reporting tool is available for all Axiom Decision Support cloud customers to author Decision Support reports and dashboards by using Microsoft Power BI embedded technology. You can access these reports by clicking **Report Designer** in the **Navigation** panel.



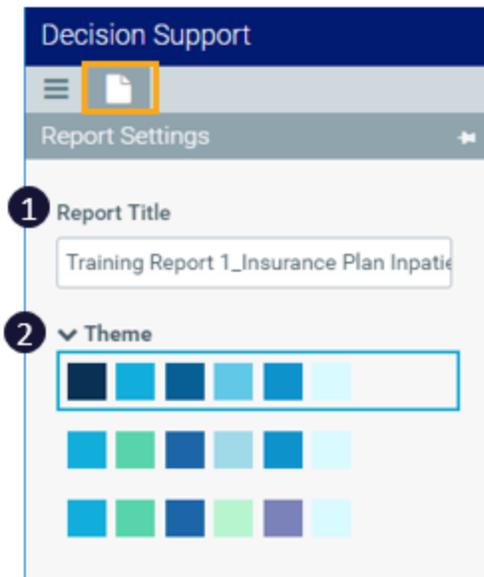
The data model delivered in 2019.2 for Axiom Intelligence Reporting is built around the encounter table and those tables that the encounter table references.

The four icons located on the Global Navigation Bar each represent a key function or feature within Axiom Intelligence Reporting.



1. Open the bookmark panel in authoring mode.
2. View the report into preview mode. The eye icon changes to the pencil icon to indicate that you are report authoring mode. The icons switch back and forth depending on which mode you are in.
3. Add the report to your favorites.
4. Open help.

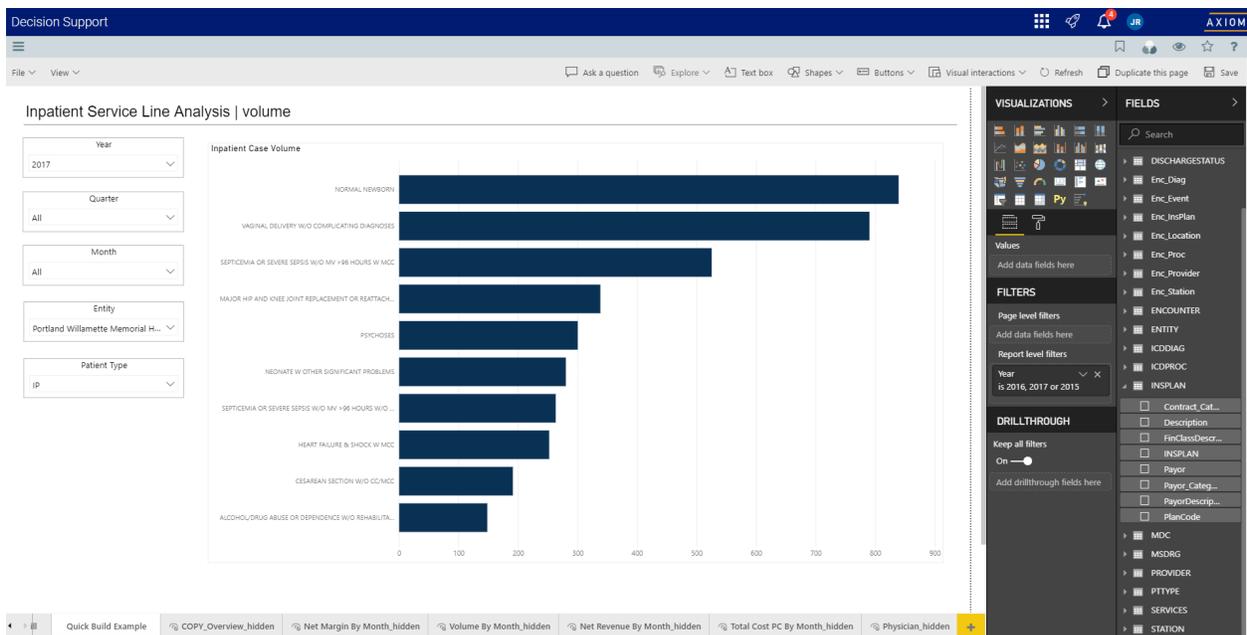
On the Global Navigation Bar, when opened in authoring mode, click the white report icon to access additional key features and functions.



From this location, you can do the following:

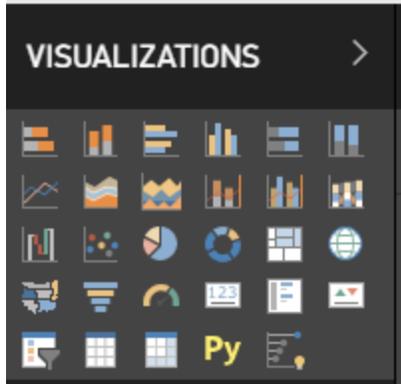
1. Review and change the report title.
2. Change the look and feel of the report by selecting a color palette.

The following screen shot is example of an Axiom Intelligence Report with standard embedded Microsoft Power BI features described below.



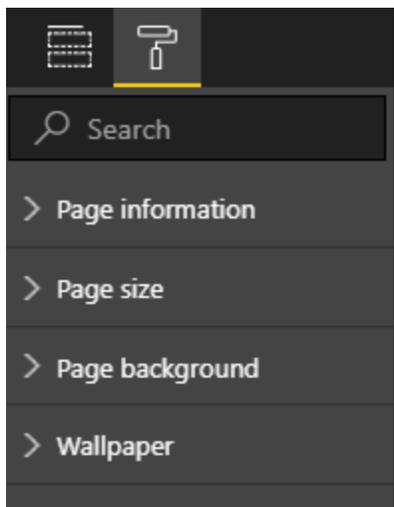
## Visualizations

Each of these icons represents a type of visualization that you can use in a report or dashboard to visually interact with your data. You can drag and drop one of these icons onto your white page to build out your report.



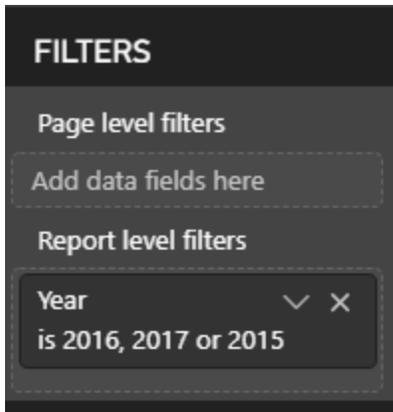
## Paint Roller

You can customize any of your visual components by selecting the Paint Roller icon.



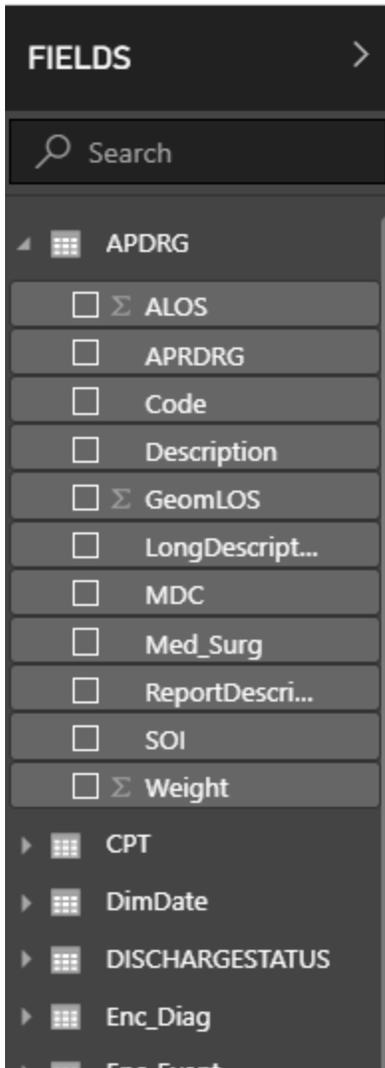
## Filters

Using the Filters section, you can apply filters to a specific visual, the page, or the entire report. There are basic and advanced filtering options available.



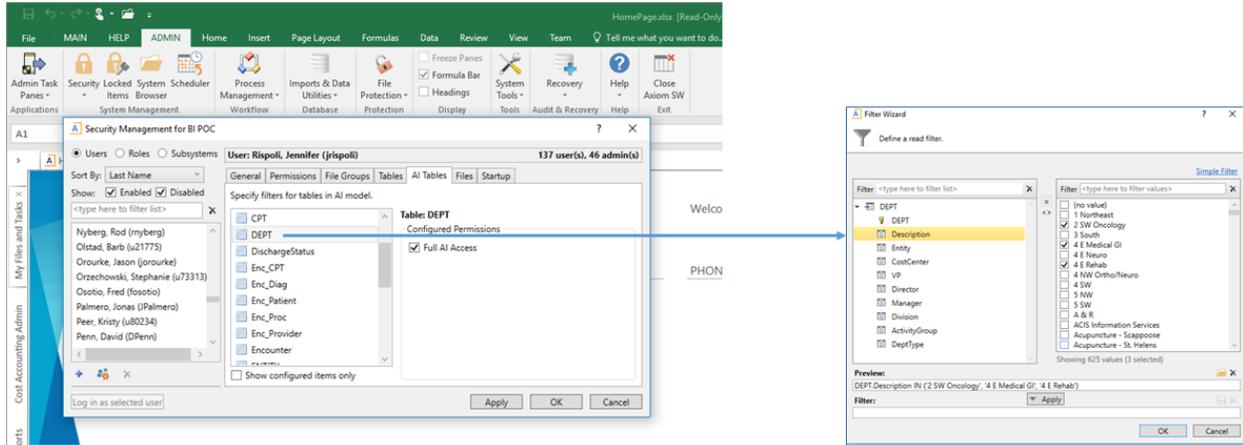
## Fields

The fields columns stores the data included in the model. The data is organized by tables, which you can expand to see the dimensions and measures available to use when creating reports.

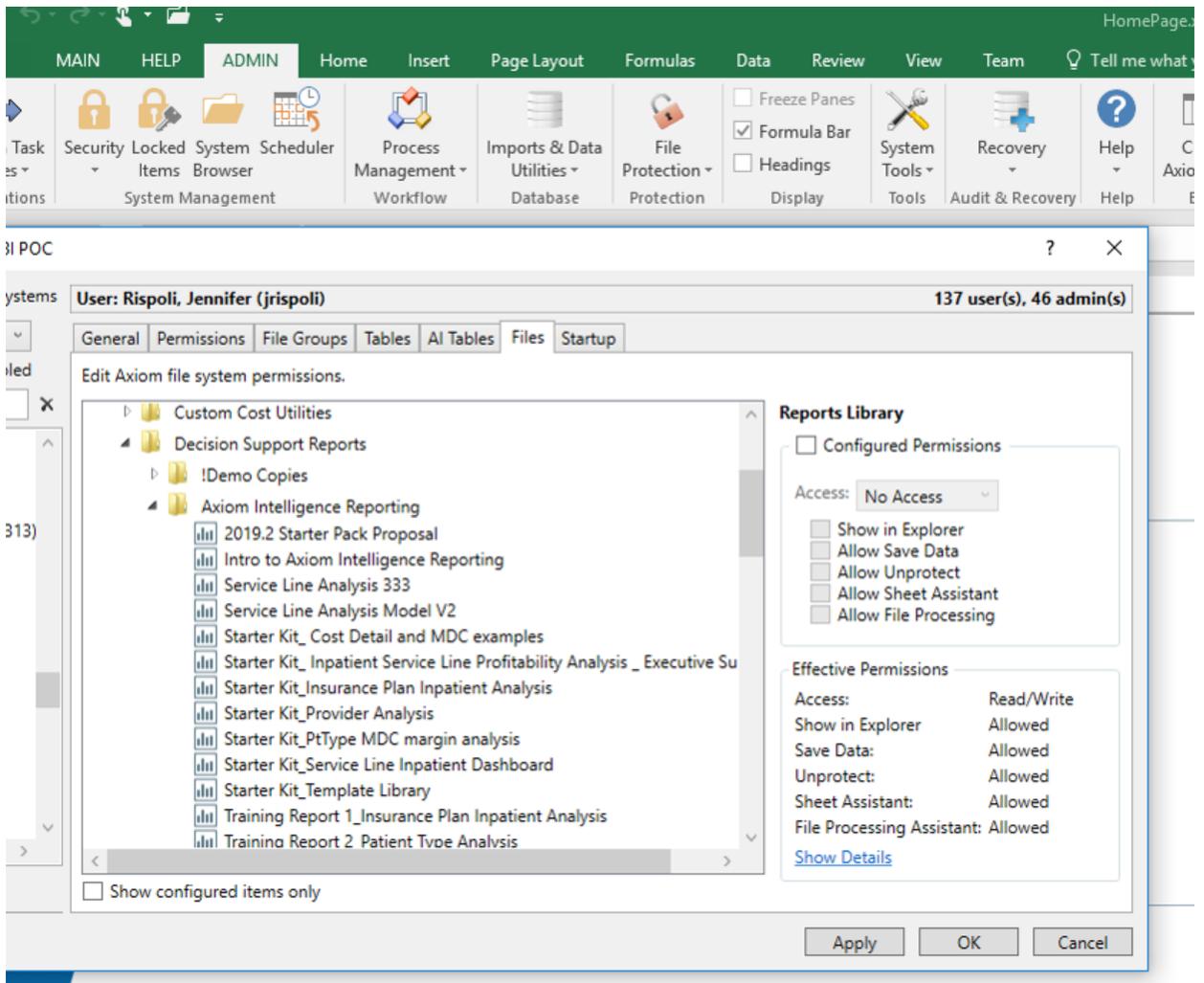


# Axiom Intelligence Security

The Security Manager allows you to manage Axiom Intelligence Reporting security while you can manage access to tables from the AI Tables tab.



In the Configured Permissions section of the Files tab, you can manage access to Axiom Intelligence Reports by setting the permission level for a specific file as No Access, Read, or Read/Write.



# Issues resolved in 2019.2

The following table lists the issues resolved in 2019.2, released on June 24th, 2019:

Issue	Description
PFB-07315 - SPLIT clause of ALTER PARTITION <> failed <> partition not empty [TFS 33586 and 36079]	<p><b>Symptom:</b> Failures occurring with the "Cost Assignment to CostDetail and Encounter" Scheduler job.</p> <p><b>Resolution:</b> Corrected by rewriting the original "Create partition" transform step to now invoke a tsqI stored procedure: dbo.prSplitYRMOPartitionRange. This stored procedure can split partitions efficiently. If the partition contains data, then data movement is performed using partition switch operations. If packed partitions are discovered, then they are unpacked into their appropriated partitions.</p>
PFB-06091 - Payor Analysis by Insurance Plan - Run by Estimated Reimbursement [TFS 34226]	<p><b>Symptom:</b> The Payor Analysis by Insurance Plan report is based on Actual Reimbursement, but users need to be able to run it based on Estimated Reimbursement.</p> <p><b>Resolution:</b> Corrected by allowing the user to select Actual or Estimated as a variable to run the report.</p>
Service Line Utilization Department Summary report has an error in Variables!C38 [TFS 36175]	<p><b>Symptom:</b> The Service Line Utilization Department Summary report displays an error in Variables!C38. It will not refresh with this error.</p> <p><b>Resolution:</b> Corrected by updating the cell reference in Variables!C38 to now look at G15 instead of G16.</p>

# Issues resolved in 2019.2.1

The following table lists the issues resolved in 2019.2.1, released on July 22nd, 2019:

Issue Description	Resolution
Axiom Intelligence DSS Data Model V2 Measures - Financial Measures \$ is inconsistent [TFS 36869]	<p><b>Symptom:</b> Financial measures in V2 Data model DSS are inconsistent with \$ (currency). It is a requirement to be able to control the decimal point in the field formatting section within Axiom Intelligence. It is desired to have all financial metrics to have leading \$. Currently only the variation of Margin measures have \$.</p> <p><b>Resolution:</b> Corrected by passing the formatstring from the source column to the next level of templates if the current template did not override the format.</p>
Service Line Definitions report no longer works with removal of Dropdowns table	<p><b>Symptom:</b> When opening the Service Line Definition report, the system displays a refresh failed error message.</p> <p><b>Resolution:</b> Corrected by making the refresh variable a list with the previously-used options that were in the Dropdowns table: ServiceLine, SubServiceLine, and ServiceType. The formulas in calc method rows were also updated.</p>

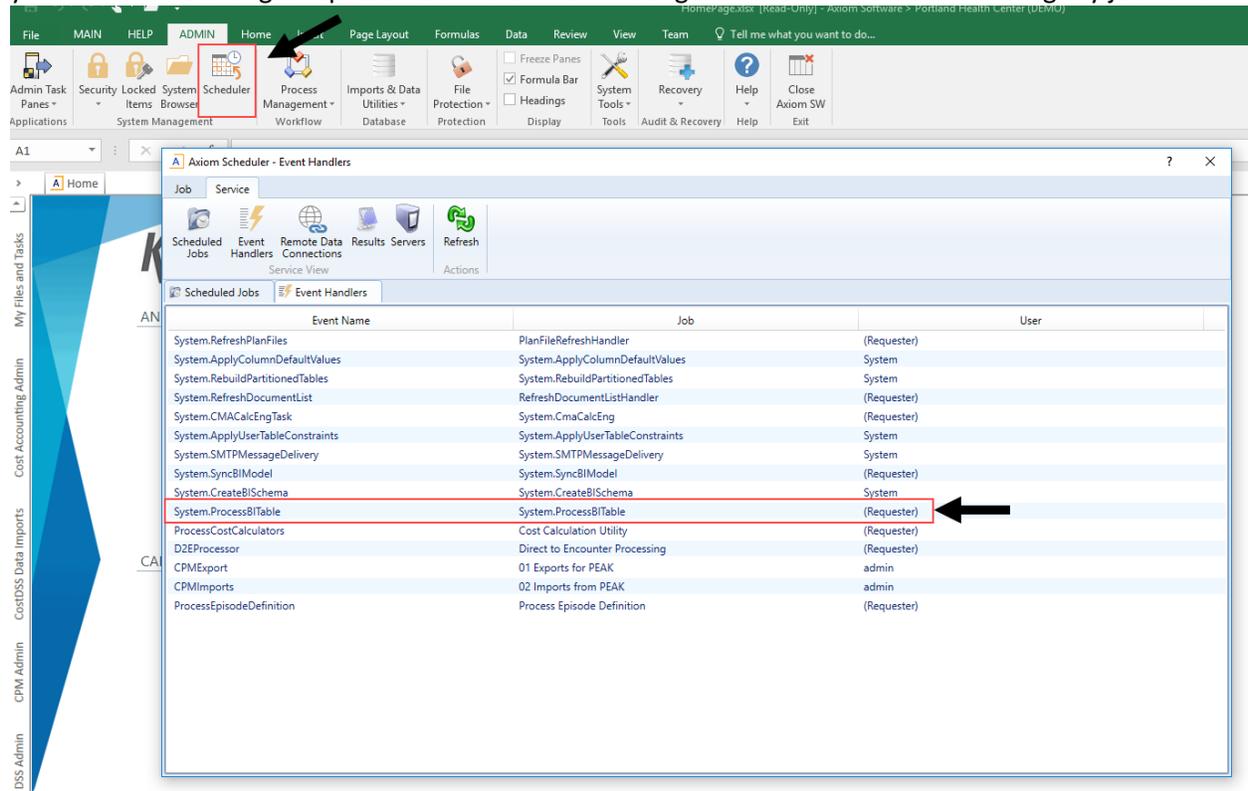
# Issues resolved in 2019.2.2

The following table lists the issues resolved in 2019.2.2, released on August 19th, 2019:

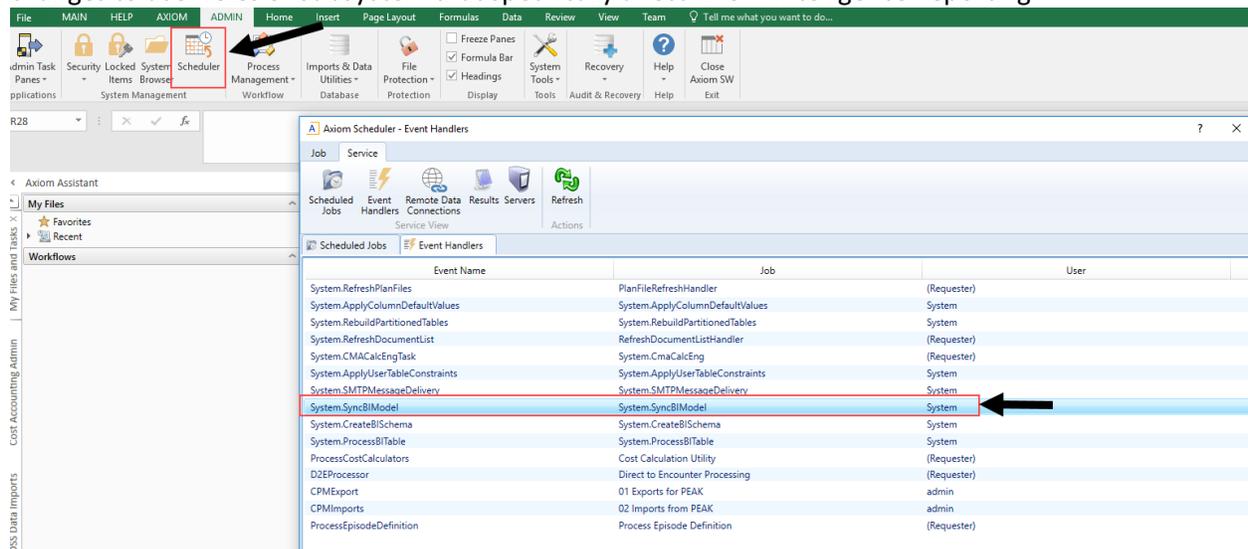
Issue Description	Resolution
PFB-07832 - Increase Character Limit Service Line Def [TFS 37965]	<p><b>Symptom:</b> Recommend increasing character limit of the following columns:</p> <ul style="list-style-type: none"><li>• SERVICELINEDEF.LIMITQUERYFILTER from String(250) to String(500)</li><li>• SERVICE_SCHEMA_DEF.DEFCODE from String(20) to String(50)</li></ul> <p><b>Resolution:</b> Corrected by updating columns to the recommended length.</p>

# Manual setup instructions

The System.SyncBIModel job runs nightly on a scheduled job to ensure that the Axiom database and Axiom Intelligence Reporting database stay in sync. If you modify a table in Axiom that is part of the Axiom Intelligence Reporting data model, you will need to run the job named **System.ProcessBITable** if you want those changes represented in the Axiom Intelligence data model before the nightly job runs.



You will also need to run the job named **System.SyncBIModel** when you want to apply or edit security changes to user roles or subsystem that specifically affect Axiom Intelligence Reporting.



# Known issues

The following table lists known issues regarding this release:

Issue	Description
PFB-07197 - Diagnosis Code 1-5 on Costdetail Table not look up to ICDDIAG [TFS 31727]	<p><b>Issue:</b> Diagnosis 1-5 on Costdetail table should be look up to ICDDIAGID on ICDDIAG table. It is not currently.</p> <p><b>Resolution:</b> Under consideration for future patch or release.</p>
PFB-07007 - REPORT DEFECT - 2018.3 - DSS - Inpatient Period Comparison [TFS 31178]	<p><b>Issue:</b> The header highlighted in this report should toggle/update between Actual and Estimated Net Revenue, as selected in the refresh variables, but says Estimated no matter the choice.</p> <p><b>Resolution:</b> The data does update correctly, it's just a header issue.</p>
PFB-07494 - PatientID Field [TFS 35256]	<p><b>Issue:</b> PATIENTID on Enc_Patient is a string field. If the ID has leading zeros the Patient ID will not show up on the Encounter viewer for the patient list. It will show up on the Encounter List because that references the encounter ID, but it will not show up for Patient List.</p> <p><b>Resolution:</b> The current solution is to concatenate alpha character to the Patient ID on Enc_Patient.</p>

**IMPORTANT:** Refer to the **Axiom for Healthcare Suite 2019.2 Release Notes** and the **Axiom Software 2019.2 Release Notes** for additional known issues that have a suite-wide impact.